ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016- 510 West Hastings Street
Vancouver, B.C. V6B 1L8
Telephone: 604-688-2568 Fax: 604-688-2578

ASSESSMENT REPORT

describing

DIAMOND DRILLING AND GEOCHEMISTRY

Field work conducted between August 31 and November 19, 2019

at the

KLAZA PROPERTY

Klaza, Dic, BBB, Etzel, Lone, Jon-Wedge, VG, Vic,
BBB, Bull, D, J. Bill, JBF, Eagle, Dade, Desk, Wedge,
JCS, Krast, Nor, Ox, Queen, Rat, Sked, and Val Claims

NTS 115I/3 and 115I/4
Latitude 62°08′N; Longitude 137°17′W
Whitehorse Mining District, Yukon

prepared by

Archer, Cathro & Associates (1981) Limited

for

ROCKHAVEN RESOURCES LTD.

by

K. Willms, B.Sc., GIT
and
M. Turner, B.Sc.

March 2020

CONTENTS

INTRODUCTION	1
LOCATION, CLAIM DATA AND ACCESS	1
HISTORY	4
GEOMORPHOLOGY	34
GEOLOGICAL SETTING	35
PROPERTY GEOLOGY	40
MINERALIZATION	41
SOIL GEOCHEMISTRY	55
ROCK GEOCHEMISTRY AND HAND TRENCHING	57
GEOPHYSICAL SURVEYS	58
EXCAVATOR TRENCHING	61
DIAMOND DRILLING	68
PERCUSSION DRILLING	74
GEOTECHNICAL AND HYDROGEOLOGICAL TESTING	75
BASELINE WATER QUALITY AND WEATHER DATA COLLECTING	75
MINERAL PROCESSING AND METALLURGICAL TESTING	76
MINERAL RESOURCE ESTIMATION	76
DISCUSSION AND CONCLUSIONS	80
REFERENCES	85

APPENDICES

I STATEMENTS OF QUALIFICATIONS

II STATEMENT OF EXPENDITURES

III SAMPLE HANDLING AND ANALYTICAL PROCEDURES

IV CERTIFICATES OF ANALYSIS

V ROCK SAMPLE DESCRIPTIONS

VI GEOLOGICAL AND GEOTECHNICAL LOGS

VII SIGNIFICANT DRILL INTERSECTIONS

FIGURES

No.	Description	Follows Page
1	Property Location	1
2A	Claim Locations - NW	In Pocket
2B	Claim Locations – SE	In Pocket
3	Work Areas	1
4	Detailed Access	4
5	Tectonic Setting	35
6	Property Geology	40
7	Mount Nansen Gold Camp	41
8	Zones and Metal Zonation – Klaza Vein System	41
9	Gold Soil Geochemistry – Klaza Vein System	56
10	Silver Soil Geochemistry – Klaza Vein System	56
11	Arsenic Soil Geochemistry - Klaza Vein System	56
12	Lead Soil Geochemistry - Klaza Vein System	56
13	Copper Soil Geochemistry - Klaza Vein System	56

14	Gold Soil Geochemistry – Rusk Target	57
15	Arsenic Soil Geochemistry – Rusk Target	57
16	Lead Soil Geochemistry – Rusk Target	57
17	Copper Soil Geochemistry – Rusk Target	57
18	2019 Rock Sample Locations	58
19	VLF-EM	59
20	Chargeability	59
21	Resistivity	59
22	Airborne Magnetics – First Vertical Derivative	In Pocket
23	Val Magnetics	61
24	Val VLF-EM	61
25	Diamond Drill Hole Locations	70
26	Section 9+500 m E – Western BRX	71
27	Zone Section 10+600 m E – Central BRX Zone	71
28	Zone Section 10+925 m E– Eastern Zones (grade histograms)	71
29	Section 9+500 m E – Western Klaza Zone	72
30	Section 10+050 m E – Central Klaza Zone	72
31	Section 10+100 m E – Central Klaza Zone (grade histograms)	72
32	Percussion Drill Hole Locations	72
33	Location of Drill Holes Used in Metallurgical Composites	76

TABLES

Table 1: Work Area Claim Groups 1

Table 2: Claim Data 2

Table 3: Work Area 1 – Exploration History 5

Table 4: Work Area 2 – Exploration History 8

Table 5: Work Area 3 – Exploration History 22

Table 6: Work Area 4 – Exploration History 25

Table 7: Work Area 5 – Exploration History 28

Table 8: Work Area 6 – Exploration History 29

Table 9: Regional Lithologies 36

Table 10: IS Epithermal Comparison with Klaza Vein System 55

Table 11: Geochemical Data for Soil Samples 56

Table 12: 2010 to 2017 Excavator Trenching Summary 61

Table 13: Significant Trench Results – Klaza Vein System 64

Table 14: Significant Trench Results – Outside of Work Area 2 68

Table 15: 2010 to 2019 Diamond Drilling Summary - Klaza Vein System 69

Table 16: Drill Data for Main Mineralized Zones - Klaza Vein System 70

Table 17: Significant Drill Results – Outside of Work Area 2 74

Table 18: Summary of metal recovery to dore and concentrates 76

Table 19: Indicated Resource in Pit-Constrained and Underground 77

Table 20: Inferred Resource in Pit-Constrained and Underground 77

Table 21: Indicated Mineral Resources (grade) as of December 31, 2017 by Zone 78

Table 22: Indicated Mineral Resources (contained metal) as of December 31, 2017 by Zone 78

Table 23: Inferred Mineral Resources (grade) as of December 31, 2017 by Zone 79

Table 24: Inferred Mineral Resources (contained metal) as of December 31, 2017 by Zone 79

INTRODUCTION

The Klaza property lies within the Mount Nansen Gold Camp (MNGC), part of the Dawson Range Gold Belt (DRGB), in southwestern Yukon (1). It hosts several areas of gold-silver±lead±zinc mineralization, the best explored of which is an extensive system of subparallel vein and breccia zones, collectively called the Klaza Vein System (KVS). The KVS remains open to extension in all directions and to depth. Copper-molybdenum-gold porphyry mineralization and vein mineralization outside of the KVS on the property have seen little systematic exploration, but are attractive exploration targets.

The property is 100 % owned by Rockhaven Resources Ltd. It comprises 1,478 mineral claims and covers an area of 28,640 hectares (286.4 km²). For the purpose of this report, the property has been subdivided into six Work Areas in order to better describe historical exploration activities. Figure 3 shows the boundaries of the Work Areas, while Table 1 lists the claim groups within each Work Area.

Table 1: Work Area Claim Groups

Work Area	Claim Groups	Area (km^2)
1	BBB	78.5
2	Dic, Eagle, Etzel, JCS, Klaza, Tawa, VG, Vic, Lone and Wedge	117.0
3	Dade and Krast	21.0
4	Queen and Val	25.2
5	Nor	13.2
6	Bull, D, Desk, J. Bill, JBF, Jon-Wedge, Ox, Rat, and Sked	31.5

From August 31 to October 9, 2019, Rockhaven conducted a 5,752.14 m diamond drilling program focused on the KVS. Additional core re-sampling was conducted until November 19, 2019. Results from the 2019 work program will be used to update mineral resource estimates and re-evaluate project economics.

Archer, Cathro & Associates (1981) Limited (Archer Cathro) managed the exploration program. The authors participated in and supervised the program. Their Statements of Qualifications are located in Appendix I. A Statement of Expenditures is located in Appendix II.

LOCATION, CLAIM DATA AND ACCESS

The property is located in southwestern Yukon at latitude 62°08′ north and longitude 137°17′ west on NTS 115I/3 and 115I/4. It comprises 1,478 contiguous mineral claims, listed in Table 2. The claims are registered with the Whitehorse Mining Recorder in the names of Rockhaven or Archer Cathro, which holds them in trust for Rockhaven. A total of 132 claims (Dic, Eagle, Etzel, VG, Vic, J. Bill, Jon-Wedge, Rat, Wedge, and Bull) are subject to a 1.5% Net Smelter Return (NSR) royalty payable to J. Dickson. The Desk claims are subject to two royalty agreements, each entailing a 1% NSR royalty on precious metals (total 2%) and 1/2% NSR

royalty on other metals (total 1%), which are payable to R. Hulstein and the estate of R. Stroshein. The other 1,265 claims are not subject to any underlying royalties. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figures 2A and 2B.

Table 2: Claim Data

Claim Name	Claim Number	Grant Number	Expiry Date
BBB	1-96	YD56331- YD56426	Apr 15, 2035
	97-152	YD58527- YD58582	Apr 15, 2035
	153-172	YD62853- YD62872	Apr 15, 2035
	173-255	YD113413- YD113495	Apr 15, 2035
	256-384	YE60326- YE60454	Apr 15, 2035
BULL	1-2(1)	YA81420- YA81421	Dec 01, 2048
	12(1)	YA86291	Feb 29, 2040
	14(1)	YA86293	Feb 29, 2040
	16-20(1)	YA86295- YA86299	Feb 28, 2039
	21-28(1)	YA86300- YA86307	Feb 28, 2034
D	1-2	YB57373- YB57374	Jan 20, 2034
	3-4	YB57375- YB57376	Jan 20, 2042
DADE	1-16	YD07685- YD07700	Mar 23, 2039
	17-54	YD108507- YD108544	Mar 23, 2036
	77-90	YD108567- YD108580	Mar 23, 2032
	91-96	YC97716- YC97721	Mar 23, 2037
	97-106	YD07248- YD07257	Mar 23, 2033
DESK	1-6	YC47461- YC47466	Mar 23, 2032
DIC	1-7(1)	YA93470- YA93476	Jan 11, 2045
	101-106(1)	YB35470- YB35475	Jan 11, 2046
EAGLE	1-12(1)	YB35415- YB35426	Jan 11, 2046
ETZEL	1-12(1)	YA86336- YA86347	Dec 01, 2052
	13-17(1)	YA86348- YA86352	Dec 01, 2051
	18-20(1)	YA86353- YA86355	Dec 01, 2052
	21-28(1)	YA86356- YA86363	Dec 01, 2051
	29-32(1)	YA86364- YA86367	Dec 01, 2052
	33(1)	YA86368	Dec 01, 2048
	34(1)	YA86369	Dec 01, 2052
	35-44(1)	YA86370- YA86379	Dec 01, 2049
	45-50(1)	YA86380- YA86385	Dec 01, 2051
J. BILL #	1-2(1)	YA78049- YA78050	Feb 28, 2034
	3-4(1)	YA78051- YA78052	Feb 28, 2035
	5-8(1)	YA78053- YA78056	Feb 28, 2034
	9-12(1)	YA78057- YA78060	Feb 02, 2034
	13(1)	YA78061	Feb 02, 2042
	14(1)	YA78062	Feb 02, 2046
	15-16(1)	YA78063- YA78064	Feb 02, 2042
	17-24(1)	YA78065- YA78072	Feb 02, 2034
	25-28(1)	YA78073- YA78076	Feb 28, 2034

	29-30[(1)]	YA78077- YA78078	Feb 28, 2042
	31-32[(1)]	YA78079- YA78080	Feb 28, 2046
JBF	6	YB36958	Dec 01, 2040
	10	YB54543	Dec 05, 2041
JCS	1-3	YC25916- YC25918	Dec 01, 2036
JON-WEDGE	1[(1)]	YB35895	Dec 01, 2042
	2[(1)]	YB35896	Dec 01, 2040
	3[(1)]	YB35897	Dec 01, 2032
	4[(1)]	YB35898	Dec 01, 2033
	5-6[(1)]	YB35899- YB35900	Dec 01, 2032
KLAZA	1-17	YC37984- YC38000	Jan 11, 2048
	18-24	YC39051- YC39057	Jan 11, 2048
	25-40	YD09205- YD09220	Jan 07, 2048
	43-64	YD09223- YD09244	Jan 07, 2044
	68-129	YD07149- YD07210	Jan 11, 2048
	133-166	YD07214- YD07247	Jan 11, 2048
	167-308	YD119737- YD119878	Jan 11, 2044
	309	YD110502	Jan 11, 2044
	310-311	YC97706- YC97707	Jan 11, 2045
	314-316	YC97722- YC97724	Jan 11, 2045
	317-319	YC99801- YC99803	Jan 11, 2039
	320-357	YE66241- YE66278	Jan 11, 2036
KLAZA 65F	65F-66F	YC99541- YC99542	Jan 11, 2048
KRAST	1-32	YD74101- YD74070	Jan 11, 2032
LONE	1-161	YF59161- YF59321	Jan 11, 2027
Nor	1-74	YE60651- YE60724	Apr 24, 2032
OX	1-20[(1)]	YA86386- YA86405	Dec 20, 2032
QUEEN	1-121	YE60731- YE60851	Apr 24, 2032
RAT	1-8[(1)]	YA81428- YA81435	Feb 28, 2034
	9-24[(1)]	YA81436- YA81451	Feb 28, 2035
	25-40[(1)]	YA81452- YA81467	Feb 28, 2034
SKED	1-30	YD07655- YD07684	Mar 23, 2034
	31-36	YC99722- YC99727	Mar 23, 2032
VAL	1-9	YC25903- YC25911	Feb 24, 2038
	10-15	YE85801- YE85806	Feb 24, 2038
VG	1-4[(1)]	YA86406- YA86409	Dec 01, 2049
	5-8[(1)]	YA86410- YA86413	Dec 01, 2041
VIC	2[(1)]	YA86309	Dec 01, 2051
	75[(1)]	YC19429	Dec 01, 2049
	76-78[(1)]	YC19430- YC19432	Dec 01, 2052
WEDGE	11-14[(1)]	YA82177- YA82180	Dec 01, 2041

Notes: [(1)] Dickson Royalty 1.5% NSR on all production.
[(2)] R. Hulstein and R. Stroshein Estate each have 1% NSR on precious metals and 0.5% NSR on non-precious metals.
*Expiry dates include 2019 work which has been filed for assessment credit but not yet accepted.

The property is located approximately 50 km due west of Carmacks. It can be reached from Whitehorse by driving 180 km north on Highway #2 (the Klondike Highway) to Carmacks, and then 60 km west on the Mt. Nansen Road to the site of the former Mount Nansen Mine. The Mt. Nansen Road is a gravel road maintained by the Yukon Territorial Government and is suitable for two-wheel drive vehicles. From the mine-site, the road continues approximately 14 km north to the property and active placer operations located in the Klaza River valley.

By road, the property is 250 km from Whitehorse and 420 km from the year-round tidewater port at Skagway, Alaska.

The 2019 program was conducted from a tent frame camp located within the KVS. All of the areas of exploration interest on the property can be reached by a network of four-wheel drive roads and trails that connect to the Mt. Nansen Road (Figure 4).

HISTORY

The following exploration history was mostly compiled from the Yukon Minfile Database (Deklerk, 2004) and assessment reports submitted to the Whitehorse Mining Recorder.
The MNGC hosts more than 30 epithermal and porphyry mineral occurrences, including the former Brown-McDade, Huestis and Webber mines. The property covers most of the MNGC, except for an area in the southeastern part of the camp. This area contains claims that overlie Category "A" lands of the Little Salmon/Carmacks First Nations, and a 40 km^2 region that encompasses the former Mount Nansen mill and the Brown-McDade and Huestis mines. Some of the historical exploration activities described in various Work Areas overlap areas within the claim coverage hole.

From 1964 to 1966 Peso Silver Mines Ltd. owned Mount Nansen Mines Ltd. and explored the Webber and Huestis Veins with 2,107 m of underground development and 2,226 m of diamond drilling. In 1968, Canadawide Investments Ltd. (Swiss financing) acquired control of Mount Nansen Mines and, from September 1968 to April 1969, completed 976 m of drifting on the Huestis Vein and operated a 163 tonne per day mill. Production during this period totalled 85,133 grams of gold, 2,625 grams of silver and 49,207 kg of lead. Peso Silver reopened the mine in 1975 and, during 1976, mined 7,451 tonnes of rock and milled 5,844 tonnes of ore grading approximately 10.3 g/t gold, 240.1 g/t silver, 1.0% lead and 1.0% zinc. In 1979, Peso Silver changed its name to Rex Silver Mines Ltd. and, in 1980, it transferred the Mount Nansen property to Schweizerische Gesellschaft. In 1981, the property was acquired by Nansen Mining Corporation. Nansen Mining conducted a feasibility study in 1983 before selling the property to BYG Natural Resources Inc. in 1984 (YGS Minfile 115I 065). BYG optioned the property to Chevron Minerals Ltd. in late 1985 and, from 1986 to 1988, Chevron conducted a multi-faceted exploration program that included geochemical surveys, trenching, drilling and metallurgical studies. Following this work, from 1996 to 1999, BYG preformed open pit mining at the Brown-McDade Vein. It refurbished the mill and produced approximately 1,063,107 grams of gold and 4,025,632 grams of silver (Stroshein, 2001).

Mining and milling were shut down in spring 1999 due to a violation of the water licence. BYG went into receivership in May 1999. The Government of Canada took over mine-site

maintenance in July 1999 and declared the property abandoned in August of the same year. The Yukon Territorial Government accepted responsibility of the site in 2003 and later sold off mineral claims surrounding the mine-site to a private company. The mill, tailings pond and Brown-McDade and Huestis mines were administrated by the Abandoned Mines Branch until 2019, when Alexco Resources Corp. (Alexco Environmental Group) and JDS Energy and Mining Inc. entered into a joint venture (Alexco-JDS JV) to purchase the mine-site for environmental remediation purposes (Alexco Resources, 2019).

Placer exploration and mining have been conducted intermittently on a number of creeks within the MNGC since 1899. Creeks that are currently being mined are shown on Figure 4.

Between 1899 and 2015, several operators conducted exploration work on various claim groups that now lie within one or more of the Work Areas on the property. Although strong geochemical and geophysical anomalies were identified by this work, follow-up trenching and drilling has mostly produced sporadic results, in part because of physical and technological limitations. The following tables and descriptions summarize historical exploration programs conducted on each Work Area located on the Klaza property.

Table 3: Work Area 1 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1969 (Cathro and Culbert, 1969)	Dawson Range Joint Venture	BBB area	Regional exploration and geochemical sampling.	A stream sediment sample returned 10 ppm Cu and 51 ppm Pb.
1974 (Cathro, 1974)	Klotassin Joint Venture	BBB area	Prospecting and mapping.	n/a
1975 (Cathro and Culbert, 1976)	Klotassin Joint Venture	BBB area	Soil and stream sampling	Highest samples ran at 114 ppm Cu, 48 ppm Pb, and 155 ppm Zn.
1980 (Archer and Onasick, 1980)	NAT Joint Venture	BBB area	Reanalysis of over 800 geochem samples	Cluster of seven soil samples anomalous for gold.
1985	Geological Survey of Canada	BBB area	Stream and water sampling	n/a
1986 (Main, 1987)	Chevron Minerals Ltd.	Toast	Toast claims staked - some overlap with current BBB claims	n/a
1987 (Main, 1987)	Big Creek Joint Venture	Toast	Mapping, prospecting, soil sampling	Highest soil sample value was 55 ppb Au.

1987 (Curley, 1987)	E. Curley	Jam	Staked Jam claims	Failed to locate the source of previous stream anomaly.
2010 (Chung, 2011)	Strategic Metals Ltd.; Wolverine Metals Ltd.	BBB 1-16	Staked BBB 1-16, geochemical sampling. Optioned claims to Wolverine Minerals Ltd., which then staked BBB 17-255.	The best sample returned 43 ppb Au, 84 ppm As, 158 ppm Cu, 192 ppm Zn, and 16 ppm Pb.
2011	Wolverine Minerals Ltd.	BBB 1-255	Geochemical sampling (1,846 soil samples), prospecting, geophysical surveys	Maximum soil sample values graded 836 ppb Au, 82 ppm As, 32.9 g/t Ag, and 186 ppm Cu.
2012 (Mac Gearailt, 2012)	Goldstrike Resources Ltd.	BBB 1-255	Prospecting and mapping southeast and east of the BBB property	High grade samples returned 116.5 ppb Au, 1.7 g/t Ag, and 479.9 ppm As.
2013 (Burrell, 2013b)	Strategic Metals Ltd.	BBB 1-255	Prospecting, mapping.	Mapped linear lows that correlated with geophysical lows.
2014 (Burrell, 2014)	Strategic Metals Ltd.	BBB 1-384	Staked BBB 256-384 claims and ran a 987 sample soil grid.	Correlation between geophysical lows and soil anomalies was poor, possibly due to thick overburden and difficulties in locating geophysical trends.

In 1969, the Dawson Range Joint Venture performed regional exploration in the Dawson Range. During that program, 18 stream sediment samples were collected from what are now the BBB claims. Those samples returned up to 10 ppm copper and 51 ppm lead with negligible molybdenum (Cathro and Culbert, 1969).

In 1974, the Klotassin Joint Venture (KJV), made up of Newconex Canadian Exploration Ltd., Marietta Resources International Ltd. and Molybdenum Corporation of America, carried out regional exploration in the Dawson Range. Work performed included 1:50,000 scale reconnaissance-style prospecting, mapping and geochemical sampling (Cathro, 1974). No samples were collected on the current BBB claims during this program.

In 1975, KJV continued its exploration with geochemical soil and stream sediment sampling. Forty-four soil samples and three stream sediment samples were collected in the area of the BBB

claims. These samples were analyzed for copper, molybdenum, lead and zinc. The samples returned weakly to moderately anomalous values for copper (up to 114 ppm), lead (up to 48 ppm) and zinc (up to 155 ppm) (Cathro, 1976).

In 1980, the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd., explored the Dawson Range. Part of the NAT JV program involved reanalyses of over 5,000 previously collected geochemical sample splits for gold, silver, arsenic and lead. A total of 21 soil samples and 37 stream sediment samples were reanalyzed from the area of the BBB claims. Three stream sediment samples from one drainage returned between 110 to 150 ppb gold while samples from two other nearby drainages yielded 500 ppb and 100 ppb gold (Archer and Onasick, 1980).

In 1985, the Geological Survey of Canada (GSC) conducted a low-density stream sediment and water sampling survey on NTS map sheet 115I (Friske et al., 1985). Twelve samples were taken from ten creeks draining the area of the BBB claims. These samples returned background values for all elements of interest.

In 1986, the Toast claims were staked by Freegold Venture (Chevron Minerals Limited) to cover the source area of a 122 ppb and 767 ppb gold-in-silt anomaly discovered by the GSC. Part of the historical Toast property overlaps the southeastern part of the current BBB claim area; however, the elevated gold-in-silt samples were collected from a creek northeast of it, within Work Area 2. A small amount of work was performed by Freegold Venture, but no results were reported (Main, 1987).

In 1987, the Toast claims were optioned by the Big Creek Joint Venture (BCJV), which comprised Big Creek Resources Ltd. and Rexford Minerals Ltd. A mapping, prospecting and geochemical sampling program was performed by Archer Cathro on behalf of BCJV. Twenty-five stream sediment samples were collected, the best of which returned 55 ppb gold. Thirty-seven soil samples were also collected at 100 m spacing, with two of those samples yielding 25 ppb and 20 ppb gold. The program was unable to reproduce the anomaly discovered by the GSC, and no further work was recommended (Main, 1987). According to Mann and Slack (1996), a sample of mineralized float collected from the Toast property by a private company assayed 27.2 g/t gold and a heavy mineral concentrate yielded 14,000 ppb gold.

In 1987, independent prospector E. Curley staked the Jam claims to cover a stream sediment gold anomaly located on the southeastern edge of the current BBB claim block. Soil sampling at approximately 90 m spacings failed to identify a source for the anomaly (Curley, 1987).

In 2010, Strategic staked the BBB 1-16 claims and performed widely spaced soil and silt sampling on them. A total of 59 soil and 72 silt samples were collected for analysis. Soil sampling yielded up to 22 ppb gold and 88 ppm copper values, but returned low values for other elements. The most anomalous silt samples returned peak values of 43 ppb gold, 84 ppm arsenic, 158 ppm copper, 192 ppm zinc and 16 ppm lead. In late 2010, Strategic optioned the BBB claims to Wolverine Minerals Ltd. Wolverine subsequently expanded the claim block to adjoin the Klaza claim group (Work Area 2) and cover the probable source area of the reported mineralized float on the old Toast property (Chung, 2011).

In 2011, Wolverine conducted geochemical sampling, prospecting and geophysical surveys on the BBB claims. Rock sampling returned low values for gold, arsenic, silver and copper. One rock sample yielded an elevated value for silver (63.5 ppm). A total of 1,846 soil samples and 52 sieved silt samples were collected. Peak values from soil sampling were 836 ppb gold, 82 ppm arsenic, 32.9 ppm silver and 186 ppm copper (Smith, 2012). Sieve silt samples returned up to 424.6 ppb gold. A 396-line kilometre helicopter-borne magnetic and radiometric survey was completed by New-Sense Geophysics Ltd. over most of Work Area 1. First Vertical Derivative evaluation of the magnetic data delineated a number of northwest-trending lows, several of which show good correlation with strongly anomalous gold-in-soil values (Smith, 2012).

In 2012, Goldstrike Resources Ltd. conducted prospecting and geological mapping in an area immediately southwest and east of the BBB claims. Rock samples returned peak values of 116.5 ppb gold, 1.7 ppm silver and 479.9 ppm arsenic. No further work was conducted by the company and the ground was allowed to lapse (Mac Gearailt, 2012).

In 2013, Strategic conducted prospecting and geological mapping on the BBB 1-255 claims.

In early August 2014, Strategic staked the BBB 256-384 claims to cover an area identified by Goldstrike in 2012. A geochemical sampling program collected 987 soil samples, including 34 hand pit samples that were dug within areas of low magnetic susceptibility. Soil samples returned background values for all elements of interest; however, results may have been subdued by the presence of thick overburden horizons (Burrell, 2014).

In 2015, Rockhaven acquired the BBB claims from Strategic as part of a large property-swap transaction.

Table 4: Work Area 2 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1937 (none)	K. Paulson	n/a	Prospecting.	Rumour of high-grade silver-lead float (Eaton, 1986).
1948	G. Dickson	n/a	Bulldozer trenching.	n/a (Eaton, 1986).
1967 (none)	J. Smith	May	Soil sampling and bulldozer trenching.	Anomalous silver and lead soil geochemistry, but no vein was intersected by trenching (Campbell and Guardia, 1969).

1968 (Parker, 1968)	Esansee Explorations Ltd.	May	Geochemical and geophysical surveys and bulldozer trenching.	Peak soil values of 8,200 ppm lead, 125 ppm silver and 800 ppm arsenic. Specimen samples of "fissure" vein cut in a bulldozer trench returned up to 34.3 g/t gold, 2,057 g/t silver, 44% lead and less than 1% zinc.
1969 (Campbell and Guardia, 1969)	Esansee Explorations Ltd.	May	Bulldozer trenching and road building.	A chip sample returned 15.09 g/t gold and 483 g/t silver over 1.83 m. A 14 km road was built from the Mount Nansen Mine to the May claims.
1971 (McClintock, 1986)	Cyprus Mines Corporation	Wedge	Mapping, geochemical sampling, geophysical survey, trenching, 6 diamond drill holes, and 1 percussion hole (1,115 m drilled).	Drill logs were submitted to the Yukon Government, but were not discussed. No other results available.
1973 (Dickinson and Lewis, 1973)	Area Exploration Company	Betty, Bun, and Crow	Percussion (283.5 m) and diamond (776.1 m) drilling.	Two percussion drill holes and three diamond drill holes were completed to test a 700 by 900 m copper-in-soil geochemical anomaly.
1975 (Aho et al., 1975)	Kerr Addison Mines Ltd.	Dic	Geological, geochemical, and geophysical surveys.	A total of 216 soil and 45 rock samples were collected for analysis and 4.0 line kilometres of magnetic and 2.8 line kilometres of VLF-EM surveys were conducted.

1980 (Saunders, 1980a and 1980b)	BRX Mining & Petroleum Corp.	Tawa	Geochemical sampling, bulldozer trenching, and diamond drilling (447.3 m in 7 holes).	Soil sampling identified northwesterly trending linear anomalies. The best interval from diamond drilling returned 8.64 g/t gold and 25.68 g/t silver over 6.0 m including 24.5 g/t gold and 50.1 g/t silver over 1.5 m (80-6).
1981 (Brownlee, 1981)	BRX Mining & Petroleum Corp.	Tawa	Electromagnetic and proton magnetometer surveys.	Both surveys highlighted coincident, northwesterly trending anomalies.
1984 (McClintock, 1986)	G. Dickson	Wedge	Staked the Wedge claims.	n/a
1985 (McClintock, 1986)	G. Dickson	Wedge	Limited trenching.	n/a
1986 (McClintock, 1986)	Pearl Resources Ltd.	Wedge	222 soil geochemical samples.	Identified several NW trending soil anomalies (Au, Ag, Pb, and Zn).
1986 (Eaton, 1986)	Chevron Minerals Ltd.	Tawa	Mapping, prospecting, bulldozer trenching and an electromagnetic survey.	Deepening historical trenches returned 5.28 g/t gold and 132.0 g/t silver over 2 m. Geophysical and geochemical anomalies extended to 1,900 and 2,000 m, respectively.
1986 (McClintock, 1986)	Pearl Resources Ltd.	Etzel	Geological mapping and geochemical sampling	Soil sampling returned gold and silver values up to 310 ppb and 54.5 ppm, respectively. The best chip sample returned 0.99 g/t gold over 1 m.

1987 (Eaton and Walls, 1987)	Chevron Minerals Ltd.	Tawa	Road building, bulldozer trenching and claim staking.	Trench T-11 at the Klaza Zone returned 4.22 g/t gold and 47.3 g/t silver over 8.0 m including 4.27 g/t gold and 86.7 g/t silver over 1.0 m. Trenching at the BRX Zone intersected 3.12 g/t gold and 46.3 g/t silver over 7.0 m including 6.99 g/t gold and 41.1 g/t silver over 1.5 m (T-14) and 6.86 g/t gold and 160 g/t silver over 2.5 m (T-16).
1988 (Eaton and Walls, 1988)	Chevron Minerals Ltd.	Tawa	Excavator trenching (1,924 m) and six diamond drill holes (377 m).	Trenching exposed a vein in T-22 that returned 16.3 g/t gold and 1,289 g/t silver over 1.7 m. A drill hole testing the down-dip continuity of this interval returned 6.03 g/t gold and 129.9 g/t silver over 1.36 m (Hole 88-6).
1988 (Sutherland, 1988)	Chesbar Resources Inc.	Dic	Stream sediment sampling, prospecting and trenching.	Silt sampling returned values up to 1,050 ppb gold. Prospecting yielded a peak value of 220 ppb gold. Historical trenches (7.8 km) were deepened, but hindered by frozen ground.
1989 (Eaton, 1989)	BYG Natural Resources Inc.; Chevron Minerals Ltd.	Tawa	Road construction and excavator trenching (580 m).	n/a

1992 (Langdon, 1992)	Aurchem Exploration Ltd.	Wedge	RC drilling.	RC drilling confirmed anomalies identified by geophysics, trenching, and soil geochemistry. Some samples returned Cu-Mo anomalies, with minor Au and Ag.
1996 (Dujakovic et al., 1996)	BYG Natural Resources Inc.	Tawa, KR and Dic	Very low frequency electromagnetic, magnetic (VLF-EM) and geochemical surveys.	Northwesterly trending VLF-EM and magnetic anomalies and soil geochemical values up to 1,825 ppb gold and 1,049 ppm copper.
1999 (Stroshein, 1999)	BYG Natural Resources Inc.	Gerald and Tawa	Overburden stripping and diamond drilling (307.8 m in 3 holes).	Klaza Zone drilling returned 3.82 g/t gold and 84.7 g/t silver over 5.05 m (TA-98-8). BRX Zone drilling returned 0.24 g/t gold and 1.3 g/t silver over 55.75 m (TA-98-9).
2001 (Stroshein, 2001)	Aurchem Exploration Ltd.	Wedge	Mapping, soil sampling, and trenching collecting 42 chip samples.	Silicification was revealed in trenches. Chip samples have anomalous gold and silver.
2003 (Stroshein, 2004)	Aurchem Exploration Ltd.	Etzel	Excavator trenching	The best trench result was from a clay-rich zone that graded 6.05 g/t gold and 15.3 g/t silver over 6.0 m.
2005 (Wengzynowski, 2006)	ATAC Resources Ltd.	Klaza	Staked Klaza 1-24 claims before optioning them to Bannockburn Resources Limited.	n/a
2009 (Turner and Tarswell, 2011)	ATAC Resources Ltd.	Klaza	ATAC sold the Klaza 1-24 claims to Rockhaven Resources Ltd.	n/a

2010 (Turner and Tarswell, 2011)	Rockhaven Resources Ltd.	Klaza	Claim staking, geophysical surveying, diamond drilling (1,642 m), excavator trenching (8,000 m), and soil geochemical sampling.	Best drill intersect returned 3.23 g/t gold and 117.7 g/t silver over 36.50 m. Several additional coincident geochemical and geophysical anomalies were identified. Peak soil geochemical values were 856 ppb gold, 5.8 ppm silver, 494 ppm lead and 349 ppm arsenic.
2011 (Tarswell and Turner, 2012)	Rockhaven Resources Ltd.	Klaza	Geophysical surveying, diamond and reverse circulation drilling (14,068 m), excavator trenching (4,050 m), soil geochemical sampling, and air photo surveys.	Best drill intersect returned 5.43 g/t gold and 50 g/t silver over 14.80 m. Peak soil geochemical values were 320 ppb gold, 61.3 ppm silver, 606 ppm lead and 213 ppm arsenic.
2011 (Great Bear Resources, 2012a)	Great Bear Resources Ltd.	Etzel	Diamond drilling, excavator trenching, and soil geochemical sampling.	Best drill intersect returned 0.58 g/t gold and 2.4 g/t silver over 40.65 m.
2012 (Great Bear Resources, 2012b)	Great Bear Resources Ltd.	Etzel	Diamond drilling and soil geochemical sampling.	Best drill intersect returned 2.30 g/t gold and 7.0 g/t silver over 1.16 m.
2012	Rockhaven Resources Ltd.	Dic and Eagle	Purchased Dic and Eagle claims from J. Dickson	n/a
2012 (Tarswell and Turner, 2013)	Rockhaven Resources Ltd.	Klaza, Dic and Eagle	Diamond drilling (21,719 m), excavator trenching (4,000 m), and soil geochemical sampling.	Highlight drill result of 5.78 g/t gold and 111 g/t silver over 15.62 m. Peak soil values were 920 ppb gold, 21 ppm silver, 722 ppm lead and 1,750 ppm arsenic

2012	Rockhaven Resources Ltd.	Etzel	Purchased Etzel claims from Ansell Capital Corp.	n/a
2012	Rockhaven Resources Ltd.	Vic, VG, J. Bill#, D, Bull, JBF and Jon-Wedge	Purchased claims from Aurchem Exploration Ltd.	n/a
2013 (Tarswell and Turner, 2014)	Rockhaven Resources Ltd.	Klaza	Excavator trenching (5,000 m)	Best trench result was 5.61 g/t gold and 300 g/t silver over 18.8 m
2014 (Dumala, Tarswell and Turner, 2015)	Rockhaven Resources Ltd.	Klaza	Geophysical surveys, excavator trenching(880 m), diamond drilling (19,242 m), and metallurgical testing	Best drill intersect returned 16.29 g/t gold and 1,435 g/t silver over 1.37 m.
2015 (Tarswell, Walsh and Cruz, 2016)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical surveys, excavator trenching (436 m), diamond drilling (13,774 m), metallurgical testing and mineral resource estimation	Best drill intersect returned 9.46 g/t gold and 84.9 g/t silver over 6.09 m.
2016 (Turner and Willms, 2017)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical surveys, excavator trenching (1,270 m), diamond drilling (8,426 m), metallurgical testing and mineral resource estimation	Best drill intersect returned 17.01 g/t gold and 121 g/t silver over 4.32 m.

2017 (Turner and Cruz, 2018)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical survey, trenching (1,020 m), diamond drilling (15,921 m)	Best drill intersect returned 196 g/t gold and 608 g/t silver over 0.91 m. Soil sampling identified 1,600 by 1,500 m arsenic anomaly at Rusk target.

The main exploration programs and their results are described in more detail in the following paragraphs. Nearly all the work was done at the KVS, in the eastern third of the Work Area 2.

In 1968, Esansee Explorations Limited completed geophysical and geochemical surveys in an area covering some of the veins that now comprise the KVS. An electromagnetic (EM) survey covering approximately 5,000 m of grid lines identified three conductive zones. Bulldozer trenching across one of these zones reportedly cut a 6 m wide gold-silver-lead bearing fissure vein, which was traced for 760 m. Samples from this vein reportedly returned up to 34.3 g/t gold, 2,057 g/t silver and 44% lead, with less than 1% zinc. A total of 315 grid soil samples were collected, returning peak values of 8,200 ppm lead, 125 ppm silver and 800 ppm arsenic which showed strong positive correlation with conductive zones (Parker, 1968).

In 1969, Esansee conducted a trenching program to follow up geophysical and geochemical anomalies identified in 1968. Three bulldozer cuts were made along the 760 m length of the vein, and a fourth trench was dug on a weaker parallel structure to the northeast. All trenches across the primary structure intersected wide zones of shearing and alteration, which host irregular and discontinuous vein material with weakly disseminated galena, pyrite and arsenopyrite. Oxidation of sulphide minerals produced limonite, cerussite and anglesite. A chip sample collected from the most northwesterly trench returned 15.09 g/t gold and 483 g/t silver over 1.83 m (Campbell and Guardia, 1969). Following this work, all claims in the area were allowed to lapse.

In 1971, Cyprus Mines Corporation performed an exploration program in the western-most area of the Wedge claims (southeastern corner of Work Area 2), which consisted of geological mapping, geochemical surveys, geophysical surveys, trenching and a small drilling program (McClintock, 1986). The drill logs for six diamond drill holes and a single percussion hole were submitted to the Mining Recorder; however, the analytical results were not released.

Between 1971 and 1973, Area Exploration Company conducted an extensive percussion and diamond drilling program on claims belonging to Mount Nansen Mines. Area Exploration's drilling was done near the Cyprus Mines drilling area, on a porphyry copper target (Cyprus Zone). Most of Area Exploration's work was located on claims now owned by private companies located immediately south and east of Work Area 2. Two of Area Exploration's percussion drill holes (283.5 m) and three of its diamond drill holes (776.1 m) tested a second porphyry target, the Kelly Zone, which lies between the KVS to the northwest and the Cyprus Zone to the southeast. These holes partially tested a 700 by 900 m copper-in-soil geochemical

anomaly that coincides with a large, circular magnetic low (Dickinson and Jilson, 1973). The best result from diamond drilling within the Kelly Zone was 0.10% copper over 6.10 m (1973-CD-17), while the best percussion drilling result was 0.343 g/t gold, 9.94 g/t silver, 0.02% copper and 0.01% lead over 6.10 m (1971-CP-8).

In 1980, BRX Mining and Petroleum Corp. staked the Tawa claims to cover the area of the KVS where Esansee performed its work in the late 1960s. The Tawa claims are now mostly covered by Rockhaven's Klaza 1-24 claims. BRX's exploration program included geochemical sampling, bulldozer trenching and 447.3 m of diamond drilling in seven holes. Soil sampling identified linear, northwest-trending geochemical anomalies, which typically coincided with electromagnetic anomalies identified earlier by Esansee. The bulldozer trenching program involved re-opening trenches dug in 1968. The main mineralized structure exposed in the trenches was reported to strike 110º to 140° and dip steeply to the northeast. Highlight results from chip samples across vein exposures include 6.0 g/t gold and 54.2 g/t silver over 0.91 m and 33.0 g/t gold and 607.5 g/t silver over 0.3 m (Saunders, 1980a). Four diamond drill holes intersected fault and vein zones within granitic country rock. Highlight intervals from this drilling include: 8.64 g/t gold and 25.68 g/t silver over 6.0 m, including 24.5 g/t gold and 50.1 g/t silver over 1.5 m (80-6); 18.86 g/t gold and 32.0 g/t silver over 0.3 m (80-2); and 9.26 g/t gold and 65.1 g/t silver over 0.4 m (80-5). Core recovery was poor within areas of strong alteration and gouge, associated with the faults and veins. Three of the drill holes were collared subparallel to the veins and did not encounter significant mineralization.

In 1981, BRX conducted EM and proton magnetometer surveys on the Tawa claims. The EM survey identified a series of en-echelon, northwest-trending conductors, while the proton magnetometer survey delineated magnetic lows that correlate with the EM conductors (Brownlee, 1981).

In 1984, Gordon Dickson staked the Wedge claims, and in 1985 carried out a small trenching program (McClintock, 1986). Pearl Resources Ltd. optioned the Wedge claims from Dickson in 1986 and conducted a soil geochemical program. A total of 222 soil samples were collected, which identified northwest-trending anomalies for gold, silver, lead and zinc (McClintock, 1986).

In 1985, Kerr Addison Mines Limited staked the Dic 1-50 claims to cover an arsenic and antimony stream sediment anomaly on the north side of Mount Nansen, to the south-southwest of the Tawa claims. Kerr Addison also acquired the Vic and VG claims from G. Dickson. Kerr Addison performed geological mapping, geochemical sampling and geophysical surveys on the Dic claims. A total of 216 soil and 45 rock samples were collected for analysis and 4.0 line kilometres of magnetic and 2.8 line kilometres of VLF-EM surveys were conducted. The best rock sample returned 0.48 g/t gold, 88 g/t silver, 1,600 ppm arsenic and 180 ppm antimony, while soil sampling returned peak values of 400 ppb gold, 27 ppm silver, 2,000 ppm arsenic, and 46 ppm antimony (Heberlein, 1985).

In 1986, Pearl Resources performed geological mapping and geochemical sampling on the Etzel claims. Results from soil samples collected on three separate grids identified linear, northwesterly trending anomalies with maximum values of 310 ppb gold, 54.5 ppm silver,

1,980 ppm lead and 1,160 ppm zinc. A chip sample across a 1.0 m sheared vein zone returned 0.99 g/t gold (McClintock, 1986).

In 1986, Chevron Minerals Ltd. optioned the Tawa claims from BRX. Chevron performed geological mapping, prospecting, soil geochemical sampling and EM surveys before staking additional claims to cover projections of anomalous trends. A 43.2-line kilometre EM survey was conducted, which extended the strike lengths of known EM conductors to 1,900 m. Soil sampling outlined numerous northwesterly trending clusters of anomalous gold values (up to a 6258 ppb). Individual gold-in-soil clusters are continuous for lengths up to 2000 m. Almost 5000 m of pre-stripping was done using a bulldozer because permafrost hindered trenching in frozen soil (Eaton, 1986). Where previously stripped trenches were deepened to bedrock, chip samples returned numerous high values including: 5.55 g/t gold and 31.2 g/t silver over 1.4 m (T-4); 3.5 g/t gold and 15.1 g/t silver over 4 m (T-4); and 5.28 g/t gold and 132.0 g/t silver over 2 m (T-4). Trenching on virgin ground was largely hindered due to permafrost; however, two significant bedrock intersects were exposed, which returned 5.28 g/t gold and 242.4 g/t silver over 2.5 m (T-6/7) and 2.33 g/t gold and 3.77 g/t silver over 5.0 m (T-8).

In 1986, Kerr Addison added the Dic 51 to 63 claims to its claim block and conducted line cutting, ground geophysics, soil sampling and prospecting. Results from this work were encouraging and, in 1987, Kerr Addison granted Chesbar Resources Inc. the right to earn an interest in the Dic claims by contributing to exploration expenditures. Work in 1987 involved pre-stripping trenches of moss and the upper soil layer (Sutherland, 1988).

In 1986, Kerr Addison undertook exploration of the Vic and VG claims, most of which lie northeast of Work Area 2 and are now owned by a private company. The program included mapping, geochemical sampling, geophysical surveys, trenching and diamond drilling (Heberlein and Lyons, 1986). A total of 130 rock, 62 silt, 16 soil and 459 drill core samples were collected during this program (Heberlein and Lyons, 1986). High gold and silver results were obtained from rock samples taken from quartz veins and sheared wallrocks. Silt and soil samples returned few anomalous values (Heberlein and Lyons, 1986). Resistivity (300 line metres), self-potential (8.92 line kilometres), magnetometer (11.85 line kilometres), and VLF-EM (10.7 line kilometres) geophysical surveys were also conducted, with mixed results. Overall, east-west trending magnetic lows provided the best correlation to altered and mineralized zones (Heberlein and Lyons, 1986). Drilling results indicated discontinuous quartz veining within larger, better connected alteration zones. Some of the veins appeared to be cut off by porphyry dykes (Heberlein and Lyons, 1986).

In 1987, Chevron continued its exploration at the Tawa claims with pre-stripping, bulldozer trenching, road construction and claim staking. The pre-stripping and trenching program comprised 28 trenches totalling 6,385 m, of which 12 trenches totalling 1,939 m were wholly or partially excavated to bedrock. Continuous chip samples collected over 1 to 5 m intervals from trench ribs returned positive results from the Klaza and BRX zones (Eaton and Walls, 1987). The most significant result from the Klaza Zone was 4.22 g/t gold and 47.3 g/t silver over 8.0 m (T-11). The best results from the BRX Zone were 3.12 g/t gold and 46.3 g/t silver over 7.0 m, including 6.99 g/t gold and 41.1 g/t silver over 1.5 m (T-14); and 6.86 g/t gold and 160.1 g/t silver over 2.5 m (T-16). Parallel vein structures were identified north and south of the two main

zones. The best result from the new structure was 6.82 g/t gold and 17.1 g/t silver over 1 m (T-15). A 1.7 km four-by-four trail was constructed from the Mt. Nansen Road to the trenching area on the Tawa claims.

In 1988, Chevron sub-optioned the Tawa claims to BYG, under an agreement that allowed BYG to earn an interest in the claims by funding a program of road building, pre-stripping, excavator trenching and six diamond drill holes (377 m). All of the drilling was done at the BRX Zone, while the trenching was split between the BRX and Klaza zones (Eaton and Walls, 1988). Results from trenching better defined the two known veins and identified a third vein, the BYG Zone, between them. The best trench result from the BRX Zone was 16.3 g/t gold and 1,289.1 g/t silver over 1.7 m (T-22). The Klaza Zone was delineated over a strike length of 250 m, with the best trench exposures grading 43.06 g/t gold and 102 g/t silver over 1.1 m and 4.22 g/t gold and 92 g/t silver over 8.0 m. A trench testing the BYG Zone intersecting three veins spaced roughly 40 m apart. One of these veins returned 6.03 g/t gold and 24.0 g/t silver over 3.3 m (T-25). Drilling intersected numerous veins that were variably mineralized. The best drill result, targeting the down-dip extension of the BRX Vein exposure in T-22, was 6.03 g/t gold and 129.9 g/t silver over 1.36 m (Hole 88-6).

In 1988, Chesbar conducted stream sediment sampling, prospecting and excavator trenching on the Dic claims. Forty-four silt samples were collected at 100 m intervals along subparallel drainages. Gold values from this sampling were generally less than 10 ppb, but values up to 1050 ppb were reported. Rock sampling returned background to weakly elevated, with a peak value of 220 ppb gold. Although 7.8 km of trenches were pre-stripped, unseasonably high precipitation resulted in less than 20 cm of overburden being removed from each of them (Sutherland, 1988).

In 1989, BYG completed a work program on the Tawa claims comprised of road building and three excavator trenches, totalling 580 m. Due to frozen ground, none of these trenches reached bedrock (Eaton, 1989).

In 1992, Aurchem Exploration Ltd. carried out 3384.8 m of reverse circulation drilling in 32 holes on the Wedge claims, some of which are now part of Work Area 2. Drill assays returned sub-economic but geochemically anomalous copper and molybdenum values in all 32 holes (Langdon, 1992). Gold and silver were present in very low amounts in some of the holes.

In 1996, BYG conducted geochemical sampling and VLF-EM and magnetic surveys on the Tawa claims and KR claims located to the west. The magnetic survey identified northwest-trending linear magnetic highs and lows, which are associated with geological structures or contacts. These magnetic linears were found to be along trend with a large magnetic high in the eastern part of the claims (Dujakovic et al., 1996). The VLF-EM survey delineated three major structures offset by north-striking faults. In general, the VLF-EM highs and magnetic lows coincide. Four soil grids were sampled, with the strongest coincident gold and copper values along the eastern side of the Tawa claims, where peak values were 1,825 ppb gold and 1,049 ppm copper.

In 1998, BYG performed an exploration program at the Tawa claims, which included stripping of overburden from the surface traces of VLF-EM and magnetic anomalies, and three diamond drill holes (307.8 m). Two holes (TA-98-7 and 98-8) targeted the Klaza Zone, while the third hole (TA-98-9) tested the BYG Zone. Hole TA-98-7 intersected a weakly altered porphyry dyke with widespread potassic alteration that graded up to 0.9 g/t gold. Hole TA-98-8 intersected an altered porphyry dyke with high-grade gold-silver veins in its footwall. Samples of vein, dyke and breccia averaged 3.82 g/t gold and 84.7 g/t silver over 5.05 m, including a vein that returned 17.1 g/t gold and 159.2 g/t silver over 1.05 m (Stroshein, 1999). Hole TA-98-9 intersected a quartz-sulphide stockwork that averaged 0.24 g/t gold and 1.3 g/t silver over 55.75 m. Subsequent to the 1998 drill program, BYG filed for bankruptcy and all of its claims went into receivership.

In 2001, Aurchem continued its exploration of the Vic and Wedge claims with prospecting, mapping, soil geochemistry and trenching. Trenching on the Vic claims revealed faulting that crosscut gold-bearing quartz veins, while chip samples from trenches on the Wedge claims returned anomalous silver and gold values from a zone of silicification (Stroshein, 2001).

In 2003, Aurchem performed limited excavator trenching on Etzel claims that now lie in the southeastern part of Work Area 2. These trenches tested altered granodiorite, feldspar porphyry dykes and shear zones. The best results were 1.0 g/t gold and 58 g/t silver over 2.5 m and 6.05 g/t gold and 15.3 g/t silver across 6.0 m. A 21.5 m wide, northwest-trending clay-rich zone returned 0.85 g/t gold and 4.5 g/t silver over 12.0 m (Stroshein, 2004).

Between 2004 and 2006, Aurchem completed deeper trenching, RC drilling and diamond drilling on claims partially covered by Work Area 2 (Stroshein, 2008).

In 2005, the core of the Tawa claims lapsed and ATAC Resources Ltd. immediately re-staked the area as the Klaza 1-24 claims. These claims encompass most of the KVS. ATAC subsequently optioned the claims to Bannockburn Resources Limited.

In 2006, Bannockburn performed line cutting and IP surveying on the Klaza claims. A 1,450 by 1,800 m area was surveyed, which covered most of the KVS. Two large chargeability highs with coincident resistivity lows were identified in the eastern part of the survey area. In the western part of the property, narrow linear chargeability anomalies were identified, which correspond with some of the known vein zones (Wengzynowski, 2006).

In 2007, Aurchem performed a soil geochemistry and trenching program on the Vic claims, to the northwest of Work Area 2 (Stroshein, 2008).

In 2008, Bannockburn relinquished its option on the Klaza claims.

In 2009, Rockhaven purchased the Klaza claims from ATAC.

In 2010, Rockhaven staked additional claims and conducted a program consisting of approximately 8,000 m of excavator trenching in 21 trenches, 1,642 m of diamond drilling in 11 holes, 326 line kilometres of helicopter-borne geophysical surveys and soil sampling (289

samples). Highlight drill intervals included 32.52 g/t gold and 34.3 g/t silver over 3.36 m (KL-10-06) and 3.23 g/t gold and 117.7 g/t silver over 36.50 m (KL-10-07) (Turner and Tarswell, 2011).

In 2011, Rockhaven completed 14,068.45 m of diamond drilling in 52 holes, 2,940 m of reverse circulation percussion drilling in 21 holes, 4,050 m of excavator trenching in 12 trenches, soil geochemical sampling (2,798 samples), a petrographic study and road building on the Klaza claims. Diamond drilling highlights included: 11.25 g/t gold and 72 g/t silver over 3.94 m (KL-11-17) and 4.24 g/t gold and 15 g/t silver over 10.46 m (KL-11-15) (Tarswell and Turner, 2012).

In 2011, Rockhaven purchased the Dic and Eagle claims from Aurchem. These claims adjoin the Klaza claims , which comprise the southern-most claims in Work Area 2.

In June 2011, Ansell Capital Corp. purchased the Etzel claims from Aurchem and then optioned them to Great Bear Resources Ltd. Great Bear completed a program of three diamond drill holes (696.17 m), four excavator trenches (255.70 m) and grid soil sampling (478 samples). Drilling identified multiple narrow, mineralized veins hosted within fresh to strongly limonite altered granodiorite. The best drill interval returned 1.94 g/t gold and 11.85 g/t silver over 2.60 m (ET-11-01). Trenching yielded a peak result of 2.80 g/t gold and 5.8 g/t silver over 10.4 m (Dadson and Amy, 2012).

In 2012, Great Bear completed another three hole diamond drill program (930.25 m) on the Etzel claims to test for an easterly extension of the Klaza Zone. The best result was from ET-2012-06, which returned 1.79 g/t gold, 50.0 g/t silver and 1.41% copper over 1.62 m (Great Bear Resources Ltd, 2012b). Great Bear subsequently relinquished its option.

In late 2012, Rockhaven purchased the Etzel claims from Ansell and some of the VG, Vic, J. Bill, D, Bull, JBF and Jon-Wedge claims from Aurchem. These claims currently form the eastern part of Work Area 2.

In 2012, Rockhaven conducted an exploration program that included 21,719.47 m of diamond drilling, 3964 m of excavator trenching, and soil geochemical sampling. Highlight drill results included 11.90 g/t gold and 5.23 g/t silver over 6.70 m (KL-12-133) and 5.78 g/t gold and 111 g/t silver over 15.62 m (KL-12-96) (Tarswell and Turner, 2013).

In 2013, Rockhaven undertook a 5,000 m excavator trenching program which included 38 trenches. Highlights from these trenches included 5.61 g/t gold and 300 g/t silver over 18.79 m in TR-13-51 and 16.20 g/t gold and 158 g/t silver over 6.84 m in TR-13-52 (Tarswell and Turner, 2014).

In 2014, Rockhaven performed a program of 880 m of excavator trenching in five trenches and 19,242 m of diamond drilling in 104 holes. Highlights from the 2014 trenches included 5.83 g/t gold and 390 g/t silver over 1.3 m (TR-14-13) and 1.13 g/t gold and 12.22 g/t silver over 5.9 m (TR-14-79). Highlights from the drilling included KL-14-238, drilled in the Western BRX Zone, which intersected multiple veins within an 18.5 m interval that averaged 2.19 g/t gold and 120 g/t

silver. The best vein within the interval graded 16.29 g/t gold and 1,435 g/t silver over 1.37 m (Dumala, Tarswell and Turner, 2015).

In January 2015, Rockhaven announced a maiden inferred resource estimate for the KVS. This estimate totalled 7,040,000 tonnes containing 948,348 oz gold and 21,780,313 oz silver, and averaging 4.19 g/t gold and 96.23 g/t silver at a 1.5 g/t gold cut-off (Wengzynowski et al., 2015).

Between June and August 2015, Rockhaven completed 436 m of excavator trenching and 13,774 m of diamond drilling in 104 holes. The program also included the installation of five groundwater monitoring wells and one downhole thermistor cable to collect ground water data within the KVS. Oriented core drilling was used to collect geotechnical information.

Metallurgical test work was carried out throughout the year on three zone specific and one project-wide composite. This work was successful at developing a process flow sheet that yielded good overall recoveries for gold, silver, lead and zinc.

In December 2015, Rockhaven announced an updated inferred resource estimate for some of the zones in the KVS. This estimate included both pit-constrained and underground resources, producing a total Inferred Mineral Resource estimate of 9,421,000 tonnes grading 4.48 g/t gold, 89.02 g/t silver, 0.75% lead and 0.95% zinc, and contains 1,358,000 oz gold, 26,962,000 oz silver, 155,417,000 lbs lead and 197,891,000 lbs zinc. Cut-off grades applied to the pit-constrained and underground resources are 1.3 g/t gold equivalent and 2.75 g/t gold equivalent, respectively (Ross, 2016).

Between June and August 2016, Rockhaven completed soil geochemical sampling, an induced polarization geophysical survey, 1,200 m of excavator trenching, 60 m of hand trenching and 8,426.84 m of diamond drilling in 44 holes, on the KVS. Diamond drilling identified two new zones: the Stroshein Zone, located between the BRX and Klaza veins; and the Rex Zone, located approximately 1000m south of the Eastern BRX Zone. Drill results from the Stroshein Zone included 25.9 g/t gold over 0.51 m within a broader zone of 5.29 g/t gold over 3.09m. Results from the Rex Zone included 10.55 g/t gold over 1.42 m (Turner and Willms, 2017). Additional ongoing metallurgical studies and test work was also completed.

In 2017, Rockhaven conducted a program of soil geochemical sampling, prospecting, an Induced Polarization geophysical survey, 595 m of excavator trenching, 425 m of hand trenching, and 15,921.55 m of diamond drilling (96 holes). Diamond drilling was focused towards infill resource definition, but included a small amount of exploration drilling. Highlight drill results included 94.09 g/t gold and 545 g/t silver over 2.63 m (KL-17-401) from the Western BRX Zone, while exploration drilling to the north of the Klaza Zone returned 1.16 g/t gold and 18.7 g/t silver over 10.12 m and 9.43 g/t gold and 180 g/t silver over 0.86 m (KL-17-403) from the Central Pearl Zone. Trenching at the newly discovered Victoria Target, located to the northeast of the KVS, returned 4.95 g/t gold and 135 g/t silver over 1.5 m. Prospecting at the Rusk Target, located five kilometres south of the current resource area returned up to 2.82 g/t gold and 2,070 g/t silver from samples of vein float (Turner and Cruz, 2018).

Mining and exploration for placer gold has been done on small creeks draining Work Area 2 in recent years. Creeks on both the west and southeast sides of the KVS host active placer mines. A tributary of the Klaza River, located on the west side of the KVS, which drains the Western BRX and Western Klaza zones, has produced 2,692 oz. of gold between 1978 and 2014. East Fork and Nansen Creek, which lie immediately southeast of the KVS, have produced a combined 26,970 oz. of gold since 1978 (Bond, 2014). Chemical analyses of gold grains within hypogene-facies veins, eluvial material and placer gravels indicate that the gold on the placer creeks source from the KVS.

Table 5: Work Area 3 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1987 (Hulstein, 1988)	G. Dickson	Nulee, JS, Moon, and Robert	Mapping, trenching, and geochemical sampling.	The Bear Zone returned anomalous soil geochemistry. The source of Montgomery Creek Zone anomalous float was untraceable.
1989 (Brent, 1991)	E. Curley	Grizzly	Four bulldozer trenches, hand trenching, and rock samples.	Trench intervals of 7.2 g/t Au over 3.5 m and 15.4 g/t Au over 1.5 m.
1990 (Brent, 1991)	E. Curley	Grizzly	Eight trenches, chip sampling, and mapping.	Located felsic dykes associated with the Grizzly Vein (now the V1 vein). A grab sample graded 42.5 g/t Au, 57.9 g/t Ag, >3% As, 185 ppm Cu, 28 ppm Mo, 979 ppm Pb, 91 ppm Sb, 34 ppm W, and 410 ppb Hg.
1994 (Pautler, 1994)	E. Curley, Teck Corporation	Grizzly	Trench mapping and rock sampling.	Trench chip samples graded at 3.52 g/t Au and 8.8 g/t Ag over 1.5 m.

2003 (Hulstein, 2003)	J. Dickson	JRW	Prospecting, chip sampling, and soil sampling to explore V1.	Vein samples ran 1.24 g/t Au, 6,756 ppm As, 68.3 ppm Bi, and 51.2 ppm W over 2.2 m. Soil geochemistry revealed an anomaly containing 31.3 ppb Au, 53.1 ppm As, and 1.5 ppm Bi.
2009 (Smith, 2010)	Strategic Metals Ltd.	Dade	Staked the Dade 1-16 claims and ran a small soil geochemistry grid. Dade claims 17-96 were staked after assay results were returned.	Soil anomalies graded up to 113 ppb Au, while samples from trench floors ran 4,280 ppb Au.
2011 (Smith, 2011)	Wolverine Metals Ltd.	Dade	CanDig and excavator trenching, soil geochemistry, and geophysical surveys.	Trenching verified V1 and located V2 veining and stockwork.
2012 (Burrell, 2013a)	Strategic Metals Ltd.	Dade	23 diamond drill holes (2043.39 m) and 24 RC drill holes (1,426.47 m).	Diamond holes did not intersect quartz veining, but found some results in alteration zones such as 2.45 g/t Au over 1.37 m. RC drilling had few significant intervals, including 5.32 g/t Au over 1.53 m.

The first placer gold discovery in the Mount Nansen Camp was reported in 1899. Since that time, placer mining operations have been conducted on several streams in the area, including Victoria Creek, the headwaters of which lie within Work Area 3.

In the 1920s, prospecting led to a series of hand trenches that exposed a mineralized quartz vein, referred to as the Grizzly Vein, on what are now the Dade claims. Assays from this work were not reported (Deklerk and Traynor, 2005).

In 1989, Eugene Curley, an independent prospector staked the Grizzly 1-24 claims after he rediscovered the Grizzly Vein. Work in 1989 included bulldozer and hand trenching and rock sampling. Four bulldozer trenches were excavated, but only one reached bedrock. Based on this

work, the vein was described as striking 010 to 040° and dipping 60° west, being up to six metres wide, and having been traced along strike for 140 m before disappearing beneath colluvium (Burrell, 2013a).

In 1990, eight more bulldozer trenches totalling 1,900 m^3 were excavated. Mapping identified a felsic porphyry dyke and a silicified rhyolite dyke, which are associated with an altered and brecciated quartz-sulphide vein that is likely the Grizzly Vein. The vein was described as white quartz with patchy arsenopyrite, honeycombed rusty cavities and stains of scorodite, limonite and manganese oxides. A vein sample from one of the trenches returned 42.5 g/t gold, 57.9 g/t silver, > 3% arsenic, 185 ppm copper, 28 ppm molybdenum, 979 ppm lead, 91 ppm antimony, 34 ppm tungsten, and 410 ppb mercury (Brent, 1991).

In 1994, a two-day trench mapping and rock sampling program was conducted at the Grizzly Vein by Eugene Curley and Teck Corporation. Sampling was done in two trenches located nine metres apart on a side hill. A chip sample from the upper trench returned 0.7 g/t gold with no reported silver over 1.5 m, while a chip sample from the lower trench returned 3.52 g/t gold and 8.8 g/t silver over 1.5 m (Pautler, 1994). Where exposed in these trenches, the Grizzly Vein reportedly strikes 025°and dips 55° west. Gold appears to be concentrated within the brecciated, pyrite-rich footwall side of the vein. Despite the encouraging results, the claims were allowed to lapse following this work.

In 2002, J. Dickson staked the JRW 1-4 claims to cover the Grizzly Vein, and conducted a work program consisting of prospecting, rock sampling from existing bulldozer trenches, and reconnaissance soil sampling. A sample of quartz vein situated adjacent to a porphyry dyke returned 1.64 g/t gold, > 1% arsenic, 97.9 ppm barium and > 200 ppm tungsten. A chip sample of white to milky white quartz with less than 0.5% pyrite, scorodite staining and limonitic fractures returned 1.24 g/t gold, 6,756 ppm arsenic, 68.3 ppm bismuth and 51.2 ppm tungsten across 2.2 m. Soil sampling 200 m northeast of the old trenching area identified an anomaly with values up to 31.3 ppb gold, 53.1 ppm arsenic and 1.5 ppm bismuth (Hulstein, 2003). Dickson's claims later expired after inactivity.

In 2009, Strategic staked the Dade 1-16 claims. In 2010, Strategic performed one day of soil sampling on its Dade claims. Samples were collected on a 100 x 100 m grid in the vicinity of the Grizzly Vein and at five metre intervals from the floors of old trenches. Results from this work were encouraging. Grid soil samples returned a few anomalous values up to 113 ppb gold, while trench floor soil samples yielded localized strong to very strong results up to 4,280 ppb gold (Smith, 2010). The Dade 17 to 96 claims were added in September 2010 after the results from the 2010 exploration program were known. Wolverine signed an option purchase agreement with Strategic in September 2010. Based on the potential for discovery of additional veins on the Dade claims, the Grizzly Vein was renamed the V1 vein (Smith, 2011).

In 2011, Wolverine conducted soil sampling and mechanized trenching (CanDig and excavator), and contracted New-Sense Geophysics Limited to conduct helicopter-borne magnetic and radiometric surveys over the Dade claims (Smith, 2011). Mechanized trenches confirmed the presence of the V1 vein and identified a second sinusoidal zone of quartz veining and stockwork, which was named the V2 vein (Smith, 2011).

In 2012, Wolverine performed 2043.39 m of diamond drilling in 23 holes and 1,426.47 m of RC drilling in 24 holes. Most of the drilling was done beneath and directly along strike of veins exposed in the old trenches. The diamond holes intersected an extensive system of quartz-calcite veinlets, but assay results were disappointing, with a peak value of 2.45 g/t gold over 1.37 m. The best RC drill results (up to 5.32 g/t gold over 1.53 m) came from widely spaced step-out holes drilled 400 m west of the trenched area (Burrell, 2013a).

Table 6: Work Area 4 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1934 (none)	G. Dickson	Val	Staked the Billy claims (now called Val)	n/a
1958 (Robinson, 1959)	Asbestos Corporation Ltd.	Val	Optioned the Billy claims, mapping, trenching, packsack drilling.	Exposed a quartz-feldspar porphyry dyke; alteration with galena and pyrite.
1979	Rex Silver Mines Ltd. (formerly Peso Silver Mines Ltd.)	Val	Transferred the Val property to Schweizerische Geselleschaft.	n/a
1981	Mount Nansen Corporation	Val	Acquired the Val property.	n/a
1981	BYG Natural Resources	Val	Re-staked some of the Val area as DD claims.	n/a
1983	Mount Nansen Corporation	Val	Conducted a feasibility study.	n/a
1984	BYG Natural Resources	Val	Purchased the Val property.	n/a
1985	BYG Natural Resources	Val	Re-staked some Val claims as ONT claims; Chevron Minerals Ltd optioned some claims.	n/a

1986-1988	BYG Natural Resources	Val	Ran an exploration program including mapping, soil geochemistry, geophysical surveys, trenching and diamond drilling.	Identified a multi-element anomaly (Au, Ag, Zn, Sb, As, Cd, Bi, Cu, Mo) trending N-NW.
1986-88	Aurum Geological Consultants Inc./Graham Dickson	McDade	Ran an exploration program including mapping, soil geochemistry and bulldozer trenching	Discovered high grade float samples (up to 15.67 g/t gold) and conducted pre-stripping/bulldozer trenching
1988	Chevron Minerals Ltd.	Val	Dropped its options.	n/a
1995 (Carlyle, 1997)	E. Curley	Queen	Staked Ang claims 1-8. Prospecting and surface mapping.	Located quartz-feldspar porphyry dykes
1997 (Carlyle, 1997)	E. Curley	Queen	Staked Ang claims 9-20. Program of soil sampling and trenching.	Soil geochemistry and trench samples gave low Au values (138 ppb and 47 ppb, respectively)
2003	B. Trerice	Val	Staked the Val claims	n/a
2011	Rockhaven Resources Ltd.	Val	Signed an option agreement for the Val property.	n/a
2012	Rockhaven Resources Ltd.	Val	Carried out geochemical soil sampling.	n/a
2013	Rockhaven Resources Ltd.	Val	Ran a two trench program.	Collected 82 samples over 330 m of trenching, locating mineralized veins below soil anomalies. Trenches returned 3.09 g/t Au with 5.93 g/t Ag over 1.00 m and 1.91 g/t Au with 131 g/t Ag over 1.30 m

2015	Strategic Metals Ltd.	Queen	Staked the Queen claims.	n/a
2015	Rockhaven Resources Ltd.	Queen	Rockhaven acquired Queen claims from Strategic.	n/a
2015 (Tarswell, Walsh and Cruz, 2016)	Rockhaven Resources Ltd.	Queen	Soil geochemical sampling	The best soil sample returned 119 ppb gold

Val Claim Area

The first recorded lode gold discovery in the MNGC was made by prospectors Brown and McDade in 1943 about two kilometres south of the Val claims, on lands that are now managed by the Alexco Joint Venture.

The area of the current Val claims was first staked as the Billy claims by G. Dickson, as part of a larger claim block. In 1958, Asbestos Corporation Exploration Ltd. optioned Dickson's claims and performed mapping, two bulldozer trenches and eight packsack drill holes totalling 122.8 m. Trenching exposed a quartz-feldspar porphyry dyke, located roughly 500 m southwest of the current Val claims, while the drill core contained zones of intense kaolinization and sericitization, hosting galena and pyrite (Robinson, 1959).

In 1981 and 1985, the southwestern part of Work Area 3 was re-staked as the DD claims and the ONT claims by BYG. In late 1985, Chevron optioned claims that covered much of the MNGC from BYG and, from 1986 to 1988, it completed exploration programs that comprised mapping, soil geochemistry, geophysical surveys, trenching and diamond drilling. These programs included a soil geochemical survey that identified a multi-element anomaly (gold, silver, zinc, antimony, arsenic, cadmium, bismuth, copper and molybdenum) trending north-northwest across the current Val claims. Chevron dropped its option in late 1988.

In 2003, B. Trerice staked the Val claims in conjunction with his placer activities along Back Creek.

In 2011, Rockhaven signed an option agreement with B. Trerice, acquiring the right to earn a 100% interest in the Val property.

In 2012, Rockhaven collected 392 soil samples from the claims. Soil results were highlighted three clusters of anomalous gold and silver values. Placer gold operations within Back Creek exposed a number of vein faults that were sampled by Rockhaven. The best chip sample returned 0.113 g/t gold and 1.66 g/t silver over 3.0 m.

In 2013, Rockhaven completed 330 m of excavator trenching in two trenches. These trenches exposed three mineralized veins emplaced along or near the footwall contact of a quartz-feldspar porphyry dyke. These veins strike between 135° to 155°, and dip steeply to the east. Trenches returned 3.09 g/t Au with 5.93 g/t Ag over 1.00 m and 1.91 g/t Au with 131 g/t Ag over 1.30 m.

Queen Claim Area

There is very little historical information available on the Queen claim block, which lies north and east of the lands that are under administration of the Alexco Joint Venture.

From 1986 to 1988, the historical McDade claim block (consisting of 354 contiguous mineral claims) covered much of the central and northern portions of the current Queen claims. Gold-bearing quartz float was discovered in five zones during the summer of 1986. In 1988, some zones were evaluated by bulldozer trenching, mapping and geochemical sampling. Two of these zones are on the current Queen claims, and the rest lie immediately to the east, off the claims. Results from the two zones include grab samples from bulldozer trenches, which graded up to 8.74 g/t gold and 57.6 g/t silver, and an area of high grade float near Montgomery Creek, where samples returned up to 15.67 g/t gold.

A small portion of the current Queen claims was also staked by E. Curley as the Ang 1-8 claims in 1995 and the Ang 9-20 claims in 1997 (YGS Minfile 115I 123). Curley completed exploration programs on the Ang claims that included soil geochemistry and trenching. The trenches exposed quartz-feldspar porphyry dykes. No assays were reported.

In spring 2015, Strategic staked the Queen claims and later that year, Rockhaven acquired them from Strategic as part of a large property-swap transaction. Rockhaven collected 20 soil samples from the Queen claims, with the best sample returning 119 ppb gold.

Table 7: Work Area 5 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1996	Conquest Yellowknife Resources Ltd.	Cow	Geophysics VLF-EM, magnetometer	Delineated multiple VLF-EM and magnetic anomalies.
2015	Strategic Metals Ltd.	Nor	Staked Nor claims 1-74	n/a
2015	Rockhaven Resources Ltd.	Nor	Rockhaven acquired Nor claims from Strategic	n/a

In 1996, Conquest Yellowknife Resources Ltd. contracted SJ Geophysics Ltd. to conduct VLF-EM and magnetometer surveys over the Buffalo grid on its Cow claims (Dujakovic and Visser, 1996).

In early 2015, Strategic staked Nor 1-74 claims and, later that year, Rockhaven acquired those claims from Strategic as part of the property-swap transaction.

Table 8: Work Area 6 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1965	Mount Nansen Mines Ltd.	Bit	Staked Bit claims 1-6	n/a
1966	Mount Nansen Mines Ltd.	Bit	Mapping and geochemical sampling	n/a
1971	Area Exploration Company Ltd.	Bit, Rusk	Optioned the Bit claims and staked Rusk claim 1-39.	n/a
1972	Area Exploration Company Ltd.	Rusk	Grid soil sampling	n/a
1973	Area Exploration Company Ltd.	Rusk	Drilled one diamond drill hole.	n/a
1974	J. Dickson	Lone	Staked around the Lonely porphyry	n/a
1976	G. Dickson	LD, Swiss	Restaked as LD cl 1-14	n/a
1979	G. Dickson	LD, Swiss	Restaked as Swiss cl 1-62	n/a
1980	G. Dickson	LD, Swiss	Trenching	n/a
1981	G. Dickson	LD, Swiss	Trenching	n/a
1983	G. Dickson	J. Bill	Restaked as J. Bill cl 1-32	n/a
1984	G. Dickson	Rat, Bull	Trenching, added Rat c1 1-24 and Bull cl 1-28	n/a
1984	Kerr Addison Mines Ltd.	Lone	Re-examined Lonely showing	Rock samples returned up to 1.65 g/t Au and 14.8 g/t Ag.
1985	Kerr Addison Mines Ltd.	Lone	Staked the Only claims around the Lonely showing	n/a

1986	Kerr Addison Mines Ltd.	Lone	Conducted geological mapping, soil geochemistry, and a VLF survey.	Maximum gold-in-soil was 150 ppb. VLF-EM outlined two north-northwest trending anomalies.
1987	E. Curley	Dows	Dows claims were staked. Hand trenching	n/a
1988	Noranda Exploration Company Ltd.	Dows	Optioned and expanded the Dows claims. Mapping, grid soil sampling, mechanized trenching, and geophysical surveys	The best soil sample returned 490 ppb gold, 4.4 ppm silver, 1,100 ppm arsenic and 13,200 ppm mercury.
1988	Kerr Addison Mines Ltd.	Lone	Completed 17 soil pits and one hand trench.	Best rock samples from pits returned 115 ppb Au, 555 ppm Cu, and 115 ppb Ag.
1989	Noranda Exploration Company Ltd.	Dows	One diamond drill hole.	Intersected a quartz breccia, which averaged 2.43 g/t gold over 7.5 m including 10.2 g/t gold over 1.5 m.
1995	Atna Resources Ltd.	Dows	Optioned Dows claims from E. Curley. Mapping, trenching, soil sampling, chip sampling.	n/a
1995	Conquest Yellowknife Resources Ltd.	Dows	Optioned the property from Atna. Staked the Dows 119-124 claims.	n/a
1995	Aurchem Exploration Ltd.	J. Bill, Rat, Bull	Aurchem acquired Dickson's claims J Bill, Rat, and Bull	n/a

1996	Conquest Yellowknife Resources Ltd.	Dows	Diamond drilling.	Anomalous drill intersects, 5.51 g/t gold and 13.13 g/t silver over 2.61 m (DDH-96-2); 6.64 g/t gold with low silver over 5.90 m (DDH-96-6); and 0.34 g/t gold with 5.09 g/t silver over 11.10 m (DDH-96-8)
2003	Aurchem Exploration Ltd.	J. Bill	Limited soil sample program. Pre-stripping for future trenching.	n/a
2006	R. Hulstein	Desk	Staked expired Dows claims as Desk.	n/a
2009	Strategic Metals Ltd.	Sked	Stakes Sked claims.	n/a
2010	Strategic Metals Ltd.	Sked	Grid soil sampling	The best results from soil sampling were strongly anomalous arsenic (up to 181 ppm) and copper (up to 140 ppm) and background to weakly anomalous gold (up to 23 ppb), lead (up to 14 ppm) and zinc (up to 85 ppm).
2010	Wolverine Minerals Corp.	Desk, Sked	Wolverine purchased Desk and Sked claims.	n/a
2010	Strategic Metals Ltd.	Desk	Strategic purchased the Desk claims.	n/a
2013	Strategic Metals Ltd.	Sked	The Sked claims reverted to Strategic.	n/a
2015	Rockhaven Resources Ltd.	Desk, Sked	Rockhaven acquired the Desk and Sked claims from Strategic.	n/a
2016	Rockhaven Resources Ltd.	Rusk	Contour soil sampling	Soil sampling highlighted a 1,800 by 1,500 m zone of elevated arsenic.

2017	Rockhaven Resources Ltd.	Rusk	Prospecting	Rock samples returned values up to 2.82 g/t gold and 2,070 g/t silver.

Work Area 6 is on the western edge of the MNGC. For discussion purposes, this Work Area is subdivided into two general claim areas, as described below.

J. Bill Claim Area

In 1965, Mount Nansen Mines staked the Bit 1-6 claims southeast of Mt. Nansen and, in 1996, it performed mapping and soil sampling on those claims.

In 1971, Area Exploration optioned the Bit claims and expanded the claim block by adding the Rusk 1-39 claims (Eaton and Walls, 1987). In 1972 and 1973, Area Exploration conducted a program that included grid soil sampling, mapping and one diamond drill hole (180 m).

G. Dickson restaked the Bit area as the LD 1-14 claims in 1976, and as the Swiss 1-62 claims in 1979 (YGS Minfile 115I 096).

In 1980 and 1981, G. Dickson conducted trenching.

In 1983, G. Dickson restaked the area again as J. Bill 1-32 claims.

In 1984, G. Dickson conducted trenching on the J. Bill claims and added the Rat 1-24 claims to the south and the Bull 1-8 claims to the east.

In 1986, part of Dickson's claims area was optioned to Chevron, which completed geological mapping, grid soil sampling, EM-16 surveys and bulldozer trenching in 1986 and 1987, before dropping the option.

In 1994, the J. Bill, Rat and Bull claims were transferred to J. Dickson and, in 1995, those claims were transferred to Aurchem.

From 1995 to 1998, the J Bill, Rat, and Bull claims were optioned to BYG by Aurchem. BYG carried out a drilling program near Tit Mountain, in an area that partially overlaps with the northeastern corner of Work Area 6.

In 1999, the J. Bill, Rat, and Bull claims reverted to Aurchem.

In 2003, Aurchem conducted a small soil sample program on the J. Bill 28 and 30 claims in the northeast corner of Work Area 6.

In 2016, Rockhaven re-excavated and sampled trenches from the historical Maniac Mining camp on the J.Bill and Rat claims, followed by contour soil geochemical sampling in the Rusk area.

Soil sampling defined an 1,800 by 1,500 m area of strongly elevated arsenic (up to 1,900 ppm) values with locally elevated gold (up to 181 ppb) (Turner and Willms, 2017).

In 2017, Rockhaven completed a follow up prospecting program in the Rusk Area. Vein float from volcanic talus returned up to 2.82 g/t gold and 2,070 g/t silver (Turner and Cruz, 2018).

Sked/Desk Claim Area

In 1987, E. Curley staked the Dows claims after obtaining elevated gold values from float samples taken from hand trenches. Later that year, two back-hoe trenches were dug to bedrock near the hand trenches and exposed an area of silicification and clay alteration at a contact between quartz-feldspar porphyry dykes and schistose country rocks (Galambos, 1988). This area is on the current Desk claims.

In early 1988, Noranda optioned and expanded the Dows claims. That year, Noranda conducted mapping, grid soil sampling, mechanized trenching and geophysical surveys. Surface mapping was largely unsuccessful due to lack of bedrock exposures. A total of 673 soil samples, taken on a 25 x 100 m grid, identified a northeast-southwest trending anomaly with strongly enriched in arsenic and mercury, with spotty gold and silver values. The two best soil samples returned: 1,100 ppb gold, 2.0 ppm silver, 460 ppm arsenic and 1,100 ppb mercury; and, 490 ppb gold, 4.4 ppm silver, 1,100 ppm arsenic and 13,200 ppb mercury. A total of 39 rock and 134 chip samples were also collected during the 1988 program. The best specimen sample yielded 3.89 g/t gold and 6.9 g/t silver, while the trenching uncovered three zones of gold enrichment ranging from four to thirty metres wide. Geophysical surveys on the Dows claims included a 43 line kilometre magnetometer survey, a 4.6 line kilometre VLF survey and a four line kilometre induced polarization survey. A broad magnetic low coincides with the high soil geochemical values, but these features are cut off to the north by a zone of low resistivity (Galambos, 1988).

Later in 1988, Noranda conducted an additional soil geochemical sampling and a diamond drilling program that comprised five holes totalling 388.01 m. Due to strong clay alteration, core recovery was poor. No significant results were reported, and it was suggested that the mineralization might not follow the same orientation as the soil geochemical anomaly (Galambos, 1989).

In 1989, Noranda completed a single diamond drill hole (198 m). That hole intersected a section of quartz breccia, which averaged 2.43 g/t gold over 7.5 m including 10.2 g/t gold over 1.5 m. Despite this positive result, the claims were returned to E. Curley (Schmidt, 1996).

In 1992, E. Curley jointly funded a 761 m trenching program with Noranda. Sixty-three channel, two rock and six soil samples were taken, but no significant results were reported (Schmidt, 1996; Mann and Slack, 1996).

In 1995, Atna optioned the Dows claims from E. Curley. A limited trenching program comprising 59 chip samples, 17 rock samples, and 12 soil samples was completed. Trenching confirmed previous results, but failed to extend mineralization to the northwest. BYG also mapped and sampled the trenches in the same year (Mann and Slack, 1996).

In late 1995, Conquest sub-optioned the Dows claims from Atna and staked more claims.

In 1996, Conquest completed two diamond drill programs totalling 1,418 m in 11 holes. This drilling identified a wide zone of intense deformation, which hosts gold mineralization (Schmidt, 1996). Several anomalous intervals were intersected including: 5.51 g/t gold and 13.13 g/t silver over 2.61 m (DDH-96-2); 6.64 g/t gold over 5.90 m (DDH-96-6); and 0.34 g/t gold and 5.09 g/t silver over 11.10 m (DDH-96-8).

The various generations of Dows claims expired between 2001 and 2006. In 2006, R. Hulstein re-staked the area of Desk claims.

In winter 2009, Strategic staked the Sked claims to cover the along-strike projection of the mineralized zone on the Desk claims. In summer 2010, Strategic expanded its claim block to the northwest to cover a historical gold anomaly located on the west side of an unnamed tributary of Lonely Creek.

In 2010, Strategic conducted a geochemical sampling program comprising small grids to the northwest and southeast of the Desk claims (Chung, 2011). Results from this sampling returned values up to 23 ppb gold, 181 ppm arsenic, 140 ppm copper, 14 ppm lead and 85 ppm zinc.

In September 2010, Wolverine signed an optional purchase agreement with Strategic for the Sked claims and, in December 2010, it signed another optional purchase agreement with R. Hulstein for the Desk claims.

In 2013, the Sked claims reverted to Strategic, which later purchased the Desk claims.

In July 2015, Rockhaven acquired the Desk and Sked claims via a property-swap transaction with Strategic.

In 2017, a two-person team conducted a one day prospecting program of the previously trenched Sked/Desk claim area. The objective was to confirm the extent of limestone and marble units identified by Noranda, to follow up on grab samples taken in 2016, and to obtain further samples of the marble for whole rock analysis.

GEOMORPHOLOGY

The property is situated in the southern part of the Dawson Range, a belt of low mountains, hills and relatively mature river systems. It is drained by tributaries of the Klaza River, Nansen Creek and Victoria Creek, all of which flow into the Nisling River, part of the Yukon River watershed.

Elevations range from 1,200 to 1,800 m above sea level (asl), and tree-line is at about 1,450 m asl.

The property escaped Pleistocene continental glaciation but experienced some local Pleistocene to Holocene valley and alpine glaciation. Outcrop is rare throughout the property. Overburden

consists of variable amounts of organics, 0 to 5 cm of volcanic ash and up to 200 cm of loess and immature soil mixed with locally derived rock fragments, over weathered bedrock. At lower elevations, thick layers of fluvial material, glacio-fluvial outwash and till blanket the valley floors. Permafrost is extensive, particularly on north- and west-facing slopes.

The property has a continental climate with low levels of precipitation and a wide temperature range. Summers are normally warm with extended daylight hours whereas winters are long and cold. Although summers are relatively warm, snowfall can occur in any month. The property is mostly snow free from late May to late September. Summer temperatures in the nearby community of Carmacks average approximately 18 ºC during the day and 5 ºC at night. Winter temperatures average -12 ºC during the daytime. Total annual precipitation recorded between 1961 to 1990 period averaged 277 mm, with about 92 cm of snow (Environment Canada, 2015).

GEOLOGICAL SETTING

The MNGC was visited by J.B. Tyrrell and D.D. Cairnes of the Geological Survey of Canada in 1898 and 1914, respectively, and has been mapped by H.S. Bostock (1936) and G.G. Carlson (1987). The geology was revised in a compilation by Gordey and Makepeace (2000). The following discussion is primarily based on maps prepared by Gordey and Makepeace and the Yukon Geological Survey (YGS).

The property lies within the Yukon-Tanana Terrane (YTT) approximately 100 km southwest of the Tintina Fault and 100 km northeast of the Denali Fault (Figure 5). YTT comprises a variety of Proterozoic and Paleozoic metavolcanic, metasedimentary and metaplutonic rocks, which represent both arc and back-arc environments (Colpron and Nelson, 2006; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that underwent approximately 450 km of dextral strike-slip movement during the Eocene. This movement offset an outlier of YTT in the Finlayson Lake District of southeastern Yukon from the main body of YTT, which lies southwest of the fault. The Denali Fault is another major transcurrent structure that has seen hundreds of kilometres of dextral strike-slip movement.

Regional lithologies in the area of the property are summarized in Table 9.

Table 9: Regional Lithologies

UPPER CRETACEOUS	
uKC	**uKC: CARMACKS** a volcanic succession dominated by basic volcanic strata (1), including felsic volcanic rocks dominantly (?) at the base of the succession (2) and locally, basal clastic strata (3) 1. augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks **(Carmacks Gp., Little Ridge Volcanics, Casino Volcanics)** 2. acid vitric crystal tuff, lapilli tuff and welded tuff (including feeder plugs and necks); felsic volcanic flow rocks and quartz feldspar porphyries; green and purple massive tuff-breccia with feldspar phyric fragments **(Carmacks Gp., Donjek Volcanics)** ▪ Some rocks formerly mapped as Mount Nansen (mKN); the felsic component of the Carmacks Gp. is difficult to distinguish from similar Tertiary and Mid-Cretaceous felsic volcanic strata (Mount Nansen Gp.) 3. medium bedded, poorly sorted, coarse to fine grained sandstone, pebble conglomerate, shale, tuff, and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate **(Carmacks Gp.)**
LATE CRETACEOUS	
LKgP	**LKP: PROSPECTOR MOUNTAIN SUITE** grey, fine to coarse grained, massive, granitic rocks of felsic (q), intermediate (g) and rarely mafic (d) composition plus related felsic dykes (f) q. quartz monzonite, biotite quartz rich granite; porphyritic alaskite and granite with plagioclase and quartz-eye phenocrysts; biotite and hornblende quartz monzodiorite, granite, and leucocratic granodiorite with local alkali feldspar phenocrysts **(Prospector Mountain Suite, Carcross Pluton).** g. hornblende-biotite granodiorite, hornblende diorite, quartz diorite **(Wheaton Valley Granodiorite)** d. coarsely crystalline gabbro and diorite f. quartz-feldspar porphyry

LKgC	**LKC: CASINO SUITE** grey, fine to coarse-grained, massive, granitic rocks of intermediate (g) composition and related felsic dykes (f) g. hornblende-biotite granodiorite, hornblende diorite, quartz diorite **(Wheaton Valley Granodiorite)** f. quartz-feldspar porphyry
MID-CRETACEOUS	
mKN	**mKN: MOUNT NANSEN** massive aphyric or feldspar-phyric andesite to dacite flows, breccia and tuff; massive, heterolithic, quartz- and feldspar-phyric, felsic lapilli tuff; flow-banded quartz-phyric rhyolite and quartz-feldspar porphyry plugs, dykes, sills and breccia **(Mount Nansen Gp., Byng Creek Volcanics, Hutshi Gp.)**
mKdW	**mKW: WHITEHORSE SUITE** grey, medium to coarse grained, generally equigranular granitic rocks of felsic (q), intermediate (g), locally mafic (d) and rarely syenitic (y) composition: q. biotite quartz-monzonite, biotite granite and leucogranite, pink granophyric quartz monzonite, porphyritic biotite leucogranite, locally porphyritic (K-feldspar) hornblende monzonite to syenite, and locally porphyritic leucocratic quartz monzonite **(Whitehorse Suite, Casino Intrusions, Mount McIntyre Suite, Mount Ward Granite, Coffee Creek Granite)** g. biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts **(Whitehorse Suite, Casino Granodiorite, McClintock Granodiorite, Nisling Range Granodiorite)** d. hornblende diorite, biotite-hornblende quartz diorite and mesocratic, often strongly magnetic, hypersthene-hornblende diorite, quartz diorite and gabbro **(Whitehorse Suite, Coast Intrusions)** y. hornblende syenite, grading to granite or granodiorite

EARLY JURASSIC	
EJgL	**EJL: LONG LAKE SUITE** intermediate (g) to felsic (q) granitoid rocks: g. massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite, including abundant pegmatite and aplite phases; commonly K-feldspar megacrystic **(Long Lake Suite)** y. resistant, dark weathering, massive, coarse to very coarse grained and porphyritic, mesocratic hornblende syenite; locally sheared, commonly fractured and saussuritized; has well developed layering of aligned pink K-feldspar **(Big Creek Syenite)**
LATE TRIASSIC	
LTrS	**LTrS: STIKINE SUITE** coarse-grained, foliated, gabbroic hornblende orthogneiss; coarse-grained hornblende-biotite granite and granodiorite with K-feldspar megacrysts; foliated, fine to medium-grained hornblende quartz diorite to diorite with minor biotite **(Friday Creek diorite, King Lake granite)**:
UPPER DEVONIAN TO LOWER MISSISSIPPIAN	
DMF	**DMF: FINLAYSON** assemblage of mafic (1) to felsic (2) metavolcanic rocks of arc and back-arc affinities; carbonaceous pelite, metachert (3); minor quartzite, metavolcaniclastic rocks (4); marble (5); ultramafic rocks and metagabbro (6) 1. Medium to dark green intermediate to mafic volcanic and volcaniclastic rocks; fine-grained amphibolite and greenstone **(Little Kalzas, Ram Creek, Cleaver Lake, Tutchitua, Fire Lake fms; Big Salmon complex)** - DMFv 2. Felsic metavolcanic rocks, white quartz-muscovite schist, metaporphyry **(Kudz Ze Kayah, Wolverine, Waters Creek fms)** - DMFf 3. Dark grey to black carbonaceous metasedimentary rocks, metachert **(Nisana, Swift River, Grass Lakes, Wolverine fms)** - DMFbp 4. light green to grey, fine-grained siliciclastic and metavolcaniclastic rocks; arkosic grit and sandstone; chert and minor limestone **(Drury, Pelmac, Little Kalzas, Tutchitua fms; Big Salmon**

	complex) - DMFs 5. light grey to white marble, locally crinoidal **(Little Kalzas fm)** – DMFc 6. ultramafic rocks, serpentinite; metagabbro **(Fire Lake fm)** – DMFum
EARLY MISSISSIPPIAN	
MgSR	**MSR: SIMPSON RANGE SUITE** foliated granitoid of mainly granodiorite to tonalite composition (g), locally granite and augen granite (q), rare gabbro (gb) g. Foliated to strongly foliated, fine to medium-grained, hornblende-bearing metagranodiorite, metadiorite and metatonalite q. Foliated metagranite, quartz monzonite and granodiorite; augen granite gb. Locally, metagabbro
NEOPROTEROZOIC AND PALEOZOIC	
PDS	**PDS: SNOWCAP** assemblage of dominantly metasiliciclastic rocks (1); minor marble (2), mafic metavolcanic rocks (3) and ultramafic rocks (4); locally metamorphosed to blueschist and eclogite facies (5) 1. Polydeformed and metamorphosed quartzite, psammite, pelite and marble; minor greenstone and amphibolite **(Snowcap, Dorsey, part of Big Salmon complexes; North River fm)** – PDss 2. Light grey to buff weathering marble, generally lenticular and discontinuous - PDsc 3. Medium to coarse-grained amphibolite, commonly garnet-bearing; greenstone; minor marble **(Snowcap, Dorsey complexes)** – PDsv 4. ultramafic rocks, serpentinite; metagabbro; metapyroxenite **(Dorsey complex)** – PDsum 5. metasiliciclastic and mafic meta-igneous rocks locally metamorphosed to eclogite bluschist **(Quiet Lake, Faro-Ross River, Simpson Lake)** – PDse

Regionally, basement rocks are mainly comprised of metaplutonic, metasedimentary and metavolcanic schist and gneiss units belonging to the Simpson Range Suite and Snowcap and Finlayson Assemblages (Ryan et al., 2016). These rocks are cut by weakly foliated plutonic rocks from the Long Lake Suite, which were metamorphosed and uplifted in the Jurassic along with the schists and gneisses. The youngest rocks are represented by five plutonic and coeval volcanic units that were emplaced during the Cretaceous and Tertiary. Granite, granodiorite and

monzonite units belong to the Whitehorse Suite, Prospector Mountain Suite and Casino Suite, while the volcanic units are a part of the Mount Nansen volcanic and Carmacks volcanic Groups (Sanchez et al., 2014).

Casino and Prospector Mountain Suite rocks are of particular significance, because they are associated with porphyry and epithermal deposits in the Dawson Range Gold Belt. Intrusions related to the Casino Suite and Prospector Mountain Suite were emplaced from 72 to 79 Ma and 68 to 72 Ma, respectively.

PROPERTY GEOLOGY

Detailed mapping on the property is generally limited by sparse outcrop and extensive vegetative cover. The geology map, shown on Figure 6, has been interpreted from regional mapping, trenching, drilling and geophysical surveys done on various parts of the property over the last 50 years.

The oldest exposed unit, comprised of Snowcap Assemblage schists, limestones and amphibolites, underlies a large region to the west and south of the property. In the southern and eastern parts of the property, orthogneiss belonging to the Simpson Range Suite surrounds younger Finlayson Assemblage metavolcanics. These Paleozoic units are sporadically intruded by irregular bodies of Stikine Suite orthogneiss and granite.

The central, northern and western parts of the property are dominantly underlain by Mid-Cretaceous Whitehorse Suite granodiorite and coeval sub-aerial volcanic and volcaniclastic rocks of the Mount Nansen volcanics. Whitehorse Suite granodiorite is made up of coarse-grained, non-foliated granodiorite, which is comprised of approximately 30% hornblende and biotite. Mount Nansen volcanics are comprised of medium green to grey andesite flows and pyroclastic rocks with occasional buff to tan rhyolitic tuff.

A monzogranite to granodiorite stock intrudes Whitehorse Suite granodiorite in the southeastern corner of Work Area 2. This stock, which is part of the Mount Nansen Porphyry Complex (MNPC), is thought to be the main heat source that drove hydrothermal cells responsible for mineralization on the property. This pluton, along with associated feldspar porphyry dykes scattered throughout the property, belong to the Casino Suite. Geochronological work indicates that porphyry dykes, which are spatially associated with vein mineralization on the property, are Late Cretaceous (78.2-76.3 Ma) in age (Mortensen et al., 2016).

A series of northwesterly trending feldspar porphyry dykes emanate from the MNPC, cutting Whitehorse Suite granodiorite in the area of the KVS. These porphyry dykes, which are up to 30 m wide, are comprised of buff aphanitic groundmass containing up to 15% orthoclase phenocrysts (1 to 2 mm) with minor biotite and quartz phenocrysts. Commonly the dykes occupy the same structural zones as the mineralized veins, and are often strongly fractured. Some veins are found to cross-cut dykes, indicating these dykes are pre-mineralizing structures.

Two main fault trends, northwesterly and northeasterly, are present in the MNGC and are best documented where they are delineated by trenching and drilling at the KVS. The first set strikes

northwesterly, dipping between 60° and 80° to the southwest. Although these faults lack strong topographic expression, they host mineralized veins, breccia zones and appear to control the distribution of porphyry dykes. The second set of faults strike northeasterly, almost perpendicular to the primary set, and dip sub-vertically. They form prominent topographic linears and offset mineralized zones in a number places, creating apparent left lateral displacements of up to 80 m in magnitude. The exact relationship between these structures and the mineralized northwesterly trending structures is still uncertain, but they appear to have been in part coeval and may have played an important role in ground preparation. A third set of structures are slightly oblique to the main mineralized faults, striking more westerly. They are less continuous and are considered to be Riedel shears. High-grade mineralization is sometimes localized at junctions between these shears and the northwesterly trending structures.

MINERALIZATION

The KVS lies within the northern part of the MNGC, a northwesterly elongated structural belt that hosts more than 30 known mineral occurrences (Figure 7). Gold- and silver-rich veins within the MNGC dominantly occur in northwesterly trending structures. The MNGC is cored by porphyry copper-molybdenum centres, and ranges outward to epithermal vein systems that are comprised of sheeted vein and fracture complexes, and more distally to discrete base and precious metal veins. The mineralizing events within the MNGC are interpreted to be related to the emplacement of the Late Cretaceous Casino Suite and Prospector Mountain Suite intrusions. The generalized metal zonation model for the KVS is shown on Figure 8.

Two porphyry centres have been identified in the northern part of the MNGC, the Cyprus and Kelly porphyry systems, which are both related to the MNPC. The larger and better defined porphyry centre, the Cyprus Zone, is partly covered by the claims in the southeastern corner of Work Area 2. It was a focal point of exploration in the late 1960s and early 1970s, with approximately 26 drill holes totalling 4,500 m. Average hypogene grades of 0.12% copper and 0.01% molybdenum were reported at depths exceeding 60 to 90 m below surface. Hypogene copper grades are approximately double those in the overlying leached cap. There is no significant supergene enrichment zone. Locally higher grade zones (0.6% copper and 0.06% molybdenum) and elevated precious metal values are associated with intense fracturing found in weakly potassic altered areas within the dominantly phyllic altered porphyry system. The potassic altered areas often feature tourmaline breccias, abundant quartz veining and secondary biotite (Sawyer and Dickinson, 1976).

The western porphyry centre, the Kelly Zone, was explored as early as 1973. The Kelly Zone is defined by coincident geochemical and geophysical anomalies, which include: 1) strongly elevated gold, copper and molybdenum soil geochemical values; 2) high chargeability values with moderate resistivity; and 3) a large area of low magnetic susceptibility observed in both ground and airborne surveys. These coincident anomalies cover a semicircular area approximately 2,500 m in diameter. Trenching and diamond drilling conducted in 2012 by Rockhaven on the western edge of the Kelly Zone, identified minor chalcopyrite, chalcocite and molybdenum, with rare bornite. The mineralization is hosted in several, 25 to 100 m wide bands of strongly phyllic altered and heavily quartz veined granodiorite, which are separated by barren porphyry dykes. A drill hole from the 2012 program averaged 0.14 g/t gold, 2.7 g/t silver, 0.15%

copper, and 0.010% molybdenum over 95.15 m, including 0.22 g/t gold, 0.20 % copper and 0.012 % molybdenum over 25.99 m (KL-12-134).

The majority of Rockhaven's exploration activities have been conducted in the KVS, in the distal part of the local hydrothermal system where copper-deficient, precious metal rich veins predominate. To date, twelve main mineralized structural zones have been identified to the northwest of the Kelly and Cyprus porphyry targets. The structural zones collectively form a three kilometre wide corridor that cuts northwesterly through Mid-Cretaceous granodiorite country rocks for a length of up to four kilometres. Individual zones exhibit exceptional lateral and down-dip continuity, and all of them remain open for extension along strike and to depth. From south to north, the zones are named Rex, Chevron, Dickson, AEX, BRX, Pika, Stroshein, Herc, BYG, Klaza, Pearl and Victoria. These zones are sub-divided into Western, Central and Eastern components, based on structural offsets that segment the main zones. Exploration work has focused mainly on the Klaza and BRX zones. The eastern segments of the AEX, BRX, Pika and Stroshein veins are collectively known as the Eastern Zones. The current mineral resource estimate contains mineralization from parts of the Western BRX, Central BRX, Western Klaza, Central Klaza and Central BYG zones.

The main mineralized structural zones in the KVS range from 1 to 100 m wide and are generally associated with feldspar porphyry dykes. Mineralization occurs within veins, sheeted veinlets and tabular breccia bodies. The host granodiorite is magnetite-bearing, except in alteration halos and vein zones where hydrothermal destruction of magnetite occurs. The host granodiorite exhibits pervasive argillic and phyllic alteration immediately adjacent to and up to 30 m from mineralized structures, as well as discrete carbonate alteration up to 8 m from mineralized structures. Sericite and potassic alteration are developed directly adjacent to hydrothermal channel ways. Details of the alteration facies proximal to the structural zones are discussed in more detail later in this section.

The depth of surface oxidation in the KVS ranges from 5 to 100 m below surface, depending on fracture intensity, the type of mineralization and local geomorphology. The deepest weathering occurs in wide, pyritic vein complexes located along ridge tops or on south-facing slopes.

Measurements taken from oriented drill core and surface trench exposures have identified two main structural orientations that control mineralization in the KVS. The primary structural set strikes between 135˚ and 155˚ and dips 60˚ to 80˚ to the southwest. A second structural trend strikes between 110˚ and 130˚ and dips 60˚ to 70˚ to the south. These secondary structures may represent either Riedel shears of the primary structural set or a separate structural event. Strong gold mineralization is sometimes localized in areas where the two structural trends converge. The plunge of these structural intersections is towards the southeast.

Petrographic analysis completed in 2011 by John Payne, Ph.D., P.Geo., of Vancouver Petrographics found that veins, veinlets and breccia material from the KVS hosts disseminated to semi-massive pyrite, arsenopyrite, galena, sphalerite, stibnite and silver-bearing sulpohosalts (collectively referred to as Jamesonite) in quartz, carbonate and barite gangue (Payne, 2012). Metallurgical studies completed by Rockhaven indicate that tetrahedrite is also present and is a major host to high-grade silver mineralization. The sulphide minerals typically comprise 1 to

10% of secondary veins and altered wallrocks, often increasing to between 20 and 80% in veins that range from 25 to 200 cm wide. Petrographic and metallurgical work also identified native gold/electrum as inclusions and fracture-fill in pyrite and arsenopyrite. Pyrite and arsenopyrite grains lacking electrum inclusions display significant arsenic zonation (Dumala et al., 2015; Lee et al., In prep.).

Quartz is the dominant gangue mineral in veins. It occurs in a variety of epithermal textures including chalcedonic, comb, banded, speckled and vuggy. Smoky quartz is the most common variation, but milky and clear quartz are locally abundant. Carbonate minerals occur mainly as ankerite, rhodochrosite and siderite, and typically range between 5 and 20% of the veins by volume.

Brecciation forms tabular bodies consisting of heterolithic wallrock clasts, which include granodiorite and various volcanic or sub-volcanic lithologies. Matrices are enriched with fine-grained, disseminated to blebby pyrite, arsenopyrite, sphalerite, and galena. Breccia zones are found in most veins from the KVS, but are mostly observed within drill core from the Klaza Zone where they range up to 2 m in width.

Mineralization within most structures is spatially related to porphyry dykes, which strike northwesterly and dip steeply to moderately toward the south. The dykes pinch and swell in three dimensions and are generally unmineralized. Mineralization is usually found along the outer selvedges, and does occasionally crosscut the porphyry dykes, indicating both the veins and dykes have multiple fluid phases.

Two parallel, northeast-trending faults have been observed cutting across the northwestern portion of the Klaza and BRX zones. These northeasterly cross-faults appears to offset the western sections of the mineralized zones approximately 80 m to the south; however, the exact sense of motion is uncertain. Systematic detailed exploration work has not been conducted on the western side of the most westerly cross-fault, and displacement across this structure has not been determined. The western-most cross fault; however, appears to be the stronger of the two structures. The relative timing of movement on these faults has not yet been determined, but they are thought to be coeval to, or slightly younger than, the vein structures. Strongly mineralized sections of vein-hosting structures occur in what may be dilatant zones immediately east of the cross-faults. Drill holes and trenches are aligned subparallel to the orientation of the cross-faults; therefore, only a few holes have intersected them. Fragments and clasts of mineralized vein material are reported in holes that intersected the northeast trending faults, but the extent to which they are mineralized is not yet known.

At the Klaza Zone, the northeasterly trending cross-faults mark a sharp change in mineralogy, with increasing arsenopyrite and sulphosalt contents coupled with higher silver:gold ratios in the Western Klaza Zone relative to the Central Klaza Zone. At the BRX Zone, the same cross-fault separates bonanza-grade rhodochrosite-facies mineralization in the Western BRX Zone from lower-grade, iron-carbonate facies mineralization in the Central BRX Zone. Recent work shows that these Western segments have significant faulting and structural preparation, which allows for greater fluid transport and mineral precipitation. Syn- to post-mineralizing structures in these

Western segments have also been found to readily remobilize and liberate gold from refractory pyrite, into bonanza-grade areas of mineralization (Lee et al., In prep.).

Mineralization outside of the KVS

Historical work on the property has identified other mineralized trends that require further investigation. The most noteworthy of these veins are found in Work Areas 2, 3, 4, and 6, and are described below.

Work Area 2

Veining on the Vic, JCS, and VG claims consists of grey-white quartz veins ranging from 3 cm to 2 m wide. The dominant vein system trends east-west, dips to the south, and is hosted in a syenite porphyry (Ellemers and Stroshein, 2005). Geophysical and geochemical data suggests that more veins may be discovered to the northeast and southwest of the KVS, which is discussed in further detail in the Soil Geochemical Sampling and Geophysical Surveys sections of this report.

Work Area 3

Mineralization on the Dade claims is hosted in two, sinusoidal zones of quartz veining and stockwork veinlets (V1 and V2 veins). These veins are believed to strike about 040° and dip 60°-75° to the north. They cut coarse-grained hornblende-quartz granodiorite and diorite gneiss (Burrell, 2013a). The V1 (formerly the Grizzly Vein) and V2 veins exhibit pervasive silicification, calcification and moderate to strong clay alteration. In 2011, trenching exposed the V1 vein over widths of 9 to 20 m along a 175 m strike length and the V2 vein over widths of 2 to 12 m along a 125 m strike length (Burrell, 2013a). Where mineralized, the veins comprise white to grey quartz with boxwork limonite and 1-3% disseminated arsenopyrite and pyrite. The best diamond drill intersect graded 2.44 g/t gold and 21.3 g/t silver over 1.2 m. The best RC drill result came from a hole located 400 m west of the known veins and assayed 5.32 g/t gold over 1.53 m.

Work Area 4

On the Val claims, mineralization is found in a fault-controlled zone hosting quartz veins and breccias (Turner, 2014). The zone ranges from 10 to 20 m wide and features sheeted veins and veinlets. Arsenopyrite, pyrite, galena and sphalerite occur as disseminations and stringers within quartz and carbonate gangue. Assays from trench exposures have mostly been disappointing.

Mineralization on the Queen claims is hosted by metamorphic rocks thought to be part of the Simpson Range Suite. Crystalline and chalcedonic quartz veins and veinlets containing disseminated pyrite and trace, fine-grained galena and arsenopyrite are reported in numerous locations. This type of mineralization is commonly accompanied by quartz-feldspar porphyry dykes. Quartz-chalcedony-stibnite breccia vein float has been discovered near old placer workings. Float samples taken near Montgomery Creek have graded up to 15.67 g/t gold. The source of this float is thought to be nearby but has not yet been discovered. Only limited

bulldozer trenching has been done on targets on the Queen claims and none of the targets have been drilled. A rock sample of rusty fractured quartz float collected from a shallow (<1 m) trench returned 8.74 g/t gold and 57.6 g/t silver.

Work Area 6

Mineralization on the Sked/Desk claims occurs in three zones that range from four to thirty metres wide. These zones reportedly strike about 120° and dip between 60 and 65° to the southwest. The eastern extension of the mineralization may be truncated, or offset, by a small cross-fault, or could extend as a blind zone beneath Mount Nansen volcanic rocks. Quartz breccias and intense deformation have been reported in diamond drill holes. The best drill intersects graded 10.2 g/t gold over 1.5 m and 6.64 g/t gold over 5.9 m. The Sked claims also host limestone formations that may have economic implication for tailings treatment should mine development occur at the KVS deposit.

The J. Bill, Rat, and Bull claims host two types of vein mineralization that cut volcanic rocks near a silicified porphyry stock. One type consists of pyrite, arsenopyrite, galena and sphalerite in quartz, while the other type is finely disseminated molybdenite and chalcopyrite with minor pyrite and pyrrhotite. These veins have not been drilled, and limited bulldozer trenching was ineffective (YGS Minfile 115I 096).

Mineralization Paragenesis in the KVS

Interpretation of vein paragenesis is based on observations made from drill intersections from the area of the KVS (Lee et al., In prep.). The general sequence of mineralizing events for the veins is postulated as follows:

Phase I: Early quartz±pyrite veining. This phase is associated with potassic (K-feldspar, biotite) and phyllic (quartz-pyrite-sericite) alteration of the host granodiorite.

Phase II a: High temperature milky quartz veining with semi-massive to massive pyrite, arsenopyrite and sphalerite ± electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase II b: Smoky and euhedral quartz veining hosting semi-massive to massive pyrite, arsenopyrite and sphalerite ± electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase II c: Lower temperature quartz veining hosting banded to semi-massive sphalerite, galena, tetrahedrite, silver-bearing sulphides and sulphosalts (acanthite, pyrargyrite, freibergite, busmuthinite) and chalcopyrite ± trace electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase III: Fe-, Mn- and Mg-rich carbonate (ankerite, rhodochrosite, siderite) and barite phase accompanied by galena mineralization. This phase is associated with

carbonate (dolomite-siderite-calcite) alteration, which can overprint Phase I and Phase II alteration.

Phase IV: Single to multi-stage brecciation of veining by post-mineralizing hydrothermal fluids. Carbonate alteration can be present from this phase.

Mineral assemblages and precious metal abundance associated with the four phases varies based on the spatial relationships of each zone to the primary heat source and the localized structural controls involved in vein emplacement. The following paragraphs describe the paragenetic features observed in the Western and Central BRX and Klaza zones, which comprise the majority of the current mineral resource.

The Western BRX Zone hosts mineralization styles that appear to be relatively consistent over the entire 500 m strike length and 520 m of down-dip vertical extent. Mineralizing phases include grey to white quartz phase +/- pyrite (Phase I and Phase II a) followed by smoky quartz veining that hosts pyrite and arsenopyrite, with local sulphosalts and chalcopyrite (Phase II b, c). These phases are cut and locally brecciated by Phase III ankerite, rhodochrosite and associated galena. The final phase, Phase IV, commonly brecciates the sulphide veins, which produces breccia veinlets and micro-fractures. Paragenetic phases observed in drill core from the Western BRX Zone are shown in Plate 1.

KL-14-156, 114.20 m

Plate 1: Western BRX Zone. Milky quartz with disseminated pyrite (Phase II a) overprinted by smoky quartz hosting pyrite, arsenopyrite, sphalerite and minor galena (Phase II b and Phase II c). Ankerite with minor galena mineralization overprints previous phases (Phase III). All phases are crosscut by end phase brecciating fluids (Phase IV) and subsequent faulting.

Veins within the Central BRX Zone are mainly dominated by quartz and pyrite, with locally abundant sphalerite and galena. These veins host the same mineralizing phases observed in the Western BRX Zone, except that ankerite is the dominant carbonate facies mineral instead of rhodochrosite. Arsenopyrite and sulphosalts are also less abundant. Gold:silver ratios in this zone are generally lower than in the Western BRX Zone. A typical vein intersect from the Central BRX Zone is shown in Plate 2.

KL-14-197, 79.97 m

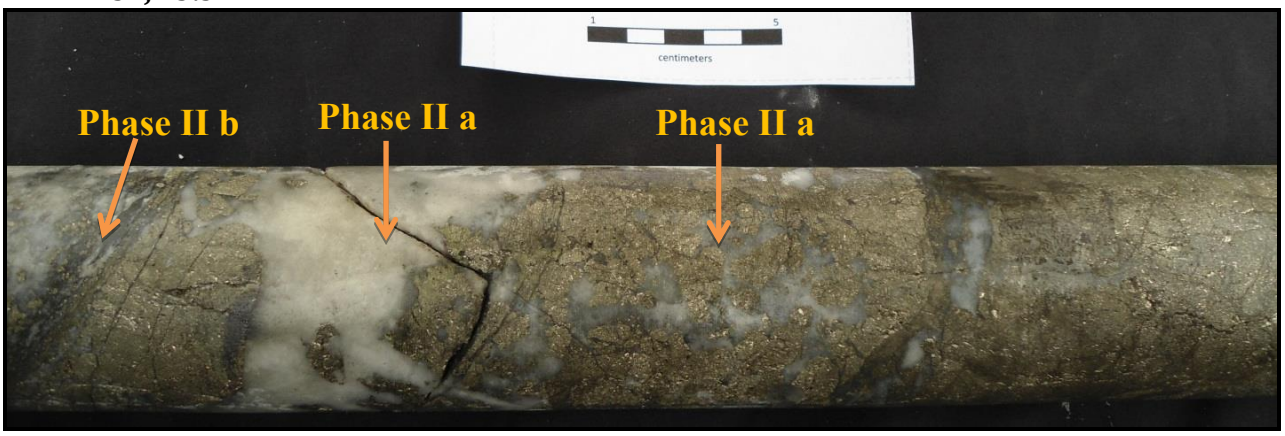


Plate 2: Central BRX Zone. Milky quartz hosting massive pyrite (Phase II a), with minor bands of smokey quartz hosting disseminated pyrite (Phase II b).

Veins in the Western Klaza Zone generally host the highest grade silver in the KVS. Initial alteration of the host granodiorite is a result of early grey to white quartz veining (Phase I). This is followed by up to two phases: smoky quartz veining hosting pyrite and arsenopyrite, and smoky quartz hosting acicular sulphosalt minerals (Phase II b and Phase II c). These two events are typically observed together in the Western Klaza Zone, but can occur individually. Ankerite and associated galena (Phase III) infill syn-mineralizing breccias and fractures cutting earlier phases. Representative vein intersects from the Western Klaza Zone are shown in Plates 3 and 4.

KL-14-182, 184.20 m

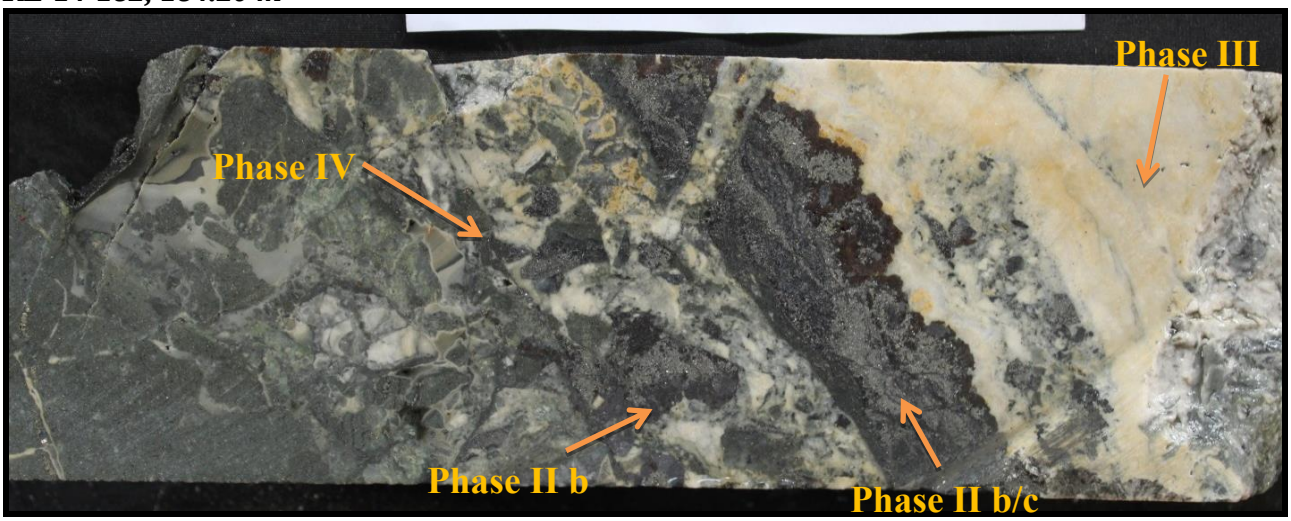


Plate 3: Western Klaza Zone. Banded, fine grained pyrite-arsenopyrite-sphalerite veining (Phase II b and c) crosscut by white to tan carbonate/ankerite (Phase III). End-phase hydrothermal brecciation occurs on left side, with fragments of Phase II b arsenopyrite-sphalerite±sulphosalts and Phase III ankerite in fragmental breccia matrix. Grey to brown laminated and banded chalcedony present as breccia infill.

KL-14-178, 96.50 m

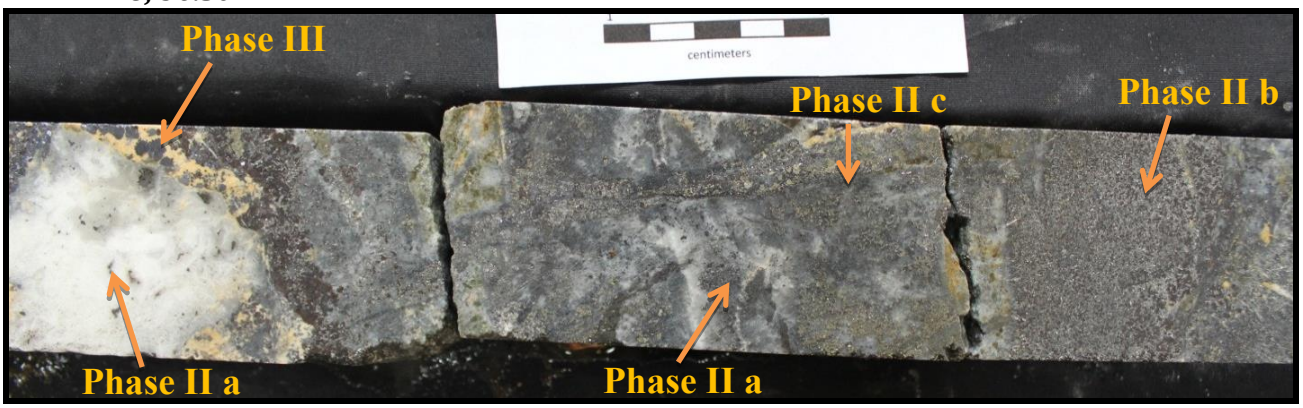


Plate 4: Western Klaza Zone. Milky quartz (Phase II a) rimmed by ankerite-galena (Phase III) [left]. Milky quartz veining hosting pyrite (Phase II a) overprinted by smoky quartz hosting pyrite-arsenopyrite-sphalerite±sulphosalts (Phase II b, c) [right].

The Central Klaza Zone is a sheeted vein complex hosted in a feldspar porphyry dyke swarm. The strongest veins are often found along the selvedges of, but are not limited to, dyke contacts. Mineralized veins locally cross-cut these dykes, indicating multiple vein and dyke fluid phases. Typical vein composition in Central Klaza Zone consists of milky quartz veining (Phase II a), smoky quartz-pyrite-arsenopyrite-galena-sphalerite-sulphosalt veining (Phase II b and c) and subsequent brecciation by ankerite with associated galena (Phase III) and end-stage hydrothermal fluids (Phase IV), as shown on Plate 5.

KL-11-28, 254.05 m

Plate 5: Central Klaza Zone. Banded sphalerite-galena veins (Phase II c) with overprinting banded ankerite (Phase III), which is all crosscut by end-stage brecciation and faulting (Phase IV). Remnant pyrite-arsenopyrite (Phase II b) found in breccia matrix of Phase IV.

Alteration Facies in the KVS

Alteration facies described in this section are developed around veins in the KVS. Where only a few veins are present, or they are widely separated, the alteration zones can be discrete and are surrounded by unaltered granodiorite wallrock. Where a mineralized zone consists of multiple, closely spaced veins, the areas of alteration can coalesce. Extensive areas of pervasive alteration characterize the Central and Eastern Klaza zones and the Eastern Zones. This widespread,

pervasive alteration appears to increase towards the southeast as the zones get increasingly closer to the porphyry centres of the MNPC.

Four significant alteration facies are observed in drill core and trench exposures. These phases are propylitic, argillic, phyllic and potassic alteration. The alteration facies and intensities vary, based principally on the spatial relationships of each zone with respect to the primary heat source. Further controls on alteration include proximity to feldspar porphyry dykes and the presence of multiple phases of mineralization. Generally, propylitic alteration represents the most distal alteration facies, followed by weak and advanced argillic alteration, phyllic alteration and finally, the most proximal, potassic alteration. The following paragraphs describe the alteration facies observed in drill core from the KVS.

Propylitic facies alteration in the host granodiorite is mainly represented by the presence of calcite, chlorite and sericite. Chloritization of feldspar grains imparts a dark greenish grey colour to the granodiorite. Calcite usually develops as coatings along microfractures. Chlorite content is modest at about 3 to 5% of the rock. Epidote, another propylitic index mineral, is rarely observed. Representative alteration intersections from drill core are shown in Plates 6 and 7

KL-14-228, 144.00 m

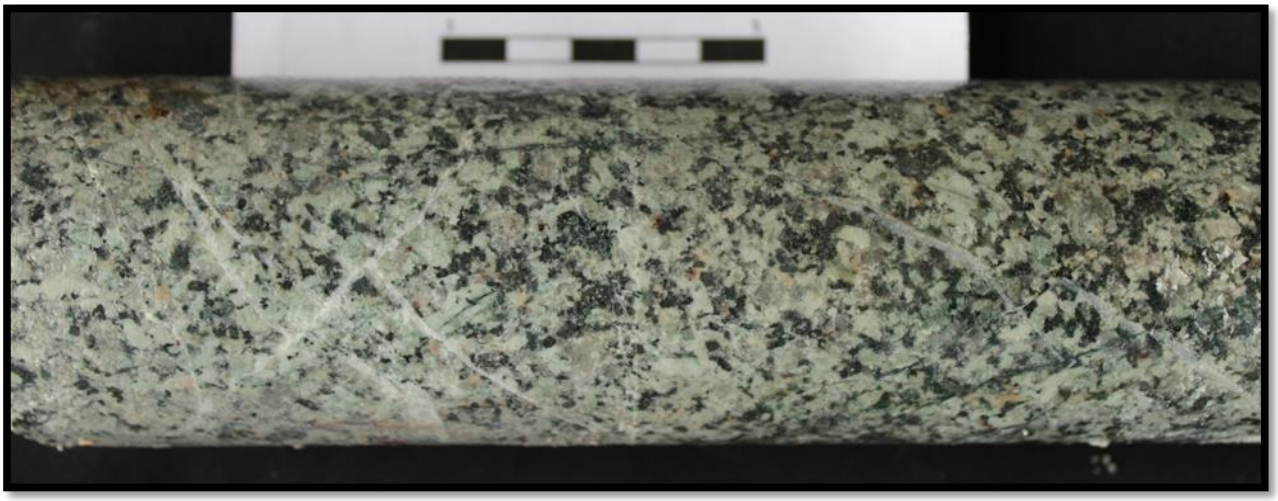


Plate 6: Moderate propylitic alteration.

KL-14-231, 190.6 m

Plate 7: Strong propylitic alteration with weak potassic overprinting.

Argillic facies alteration occurs more proximal to mineralized zones than the propylitic facies and can be present within 50 cm of mineralized veins. This alteration is divided into two sub-facies: argillic (montmorillonite) and advanced argillic (kaolinite). Each sub-facies is defined by the type of clay replacing plagioclase feldspar.

Argillic alteration is characterized by a pale green colour that develops when clay altered plagioclase oxidizes on exposure to air. Montmorillonite altered grains in the groundmass swell when the clays absorb water, making them highly friable, as seen in Plate 8. This sub-facies is generally less than 50 m wide and occurs outward of the advanced argillic sub-facies.

KL-14-138, 138.86 – 142 m

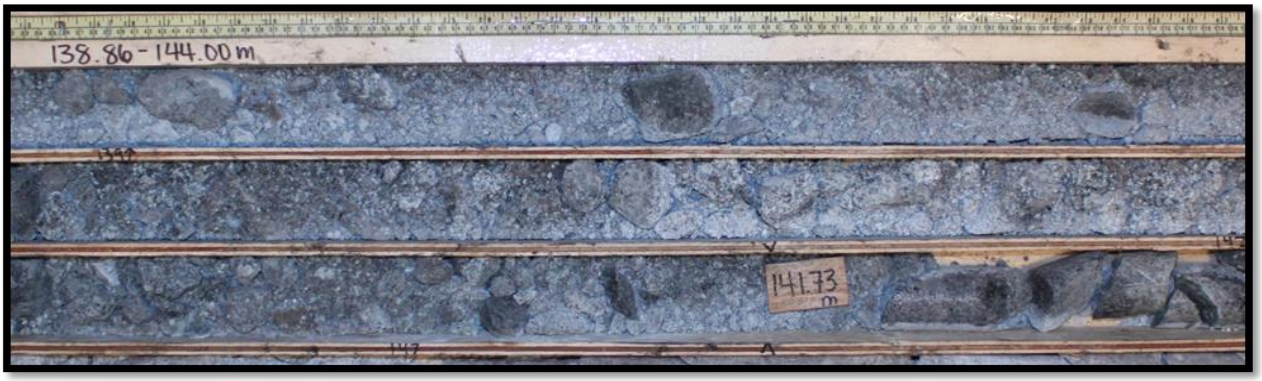


Plate 8: Highly friable montmorillonite alteration.

Advanced argillic alteration has a strong bleached appearance and is often cut by narrow sericite veinlets with minor overprinting alteration envelopes. Typical kaolinite alteration grades to phyllic alteration, as sericite dominates over kaolinite. The advanced argillic sub-facies has been classified into weak, moderate and strong, dependant on the presence or absence of biotite, K-

feldspar, calcite, sericite, pyrite and hematite. The contacts of these three classifications are generally gradational. The classification of the three phases of advanced argillic alteration is described below.

<u>*Weak advanced argillic*</u> alteration is characterized by plagioclase feldspar and hornblende altering to chalky and/or dull white clay (Plate 9). Biotite is present as fresh to weakly altered grains. K-feldspar may also be present. Calcite is rarely observed. Magnetite is generally oxidized to hematite, and disseminated pyrite is usually absent.

KL-14-220, 182.30 m

Plate 9: Weak advanced argillic alteration.

<u>*Moderate advanced argillic*</u> alteration is characterized by the destruction of biotite, calcite and K-feldspar as the intensity of alteration increases (Plate 10). Pale green sericite becomes common; however, it is not pervasive. Hematite is locally present and chlorite, a relic of biotite alteration, may be present. Pyrite is generally absent or very weak.

KL-14-234, 63.10 m

Plate 10: Moderate advanced argillic alteration.

Strong advanced argillic alteration occurs where kaolinite is largely replaced by white to pale green sericite (Plate 11). Pyrite veinlets up to 1 mm are common and wider veinlets sometimes have narrow white, intense sericite envelopes. The presence of pyrite is a result of the sulphidization of hematite.

KL-14-235, 89.10 m

Plate 11: Strong advanced argillic alteration.

Phyllic facies alteration is characterized by sericite, quartz and pyrite and is seen immediately adjacent to mineralized zones inside the propylitic and argillic alteration halos (Plate 12). Typical phyllic alteration consists of quartz±sulphide veinlets enveloped by pervasive sericite and pyrite. In areas of increased vein density, the original rock texture is typically destroyed and replaced to a dark gray, very fine-grained mixture of sericite, pyrite and quartz. This quartz accumulates as blebs or migrates to form additional veinlets and veins. The strongest phyllic alteration observed to date is within the Klaza Zone. Breccias that are typically found in the Klaza Zone often contain strongly phyllic altered clasts.

KL-14-229, 310.70 m

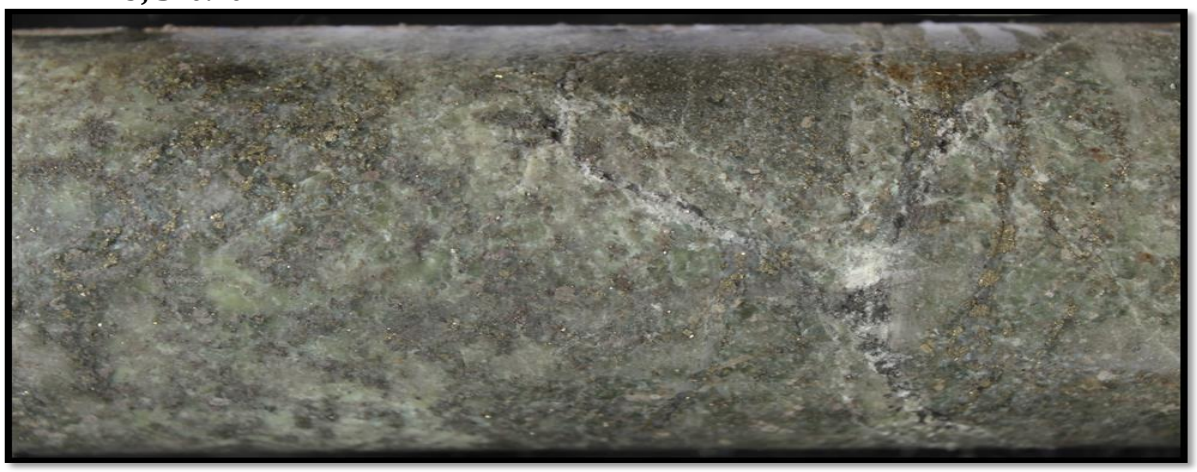


Plate 12: Strong phyllic alteration.

Potassic facies alteration features fine-grained interstitial white to pink feldspars and euhedral books of biotite. Besides the diagnostic alteration minerals: biotite and K-feldspar, this facies may contain secondary magnetite, anhydrite or tourmaline. Representative alteration intersects from drill core are shown on Plates 13 and 14.

KL-14-220, 182.30 m

Plate 13: Moderate potassic alteration with secondary biotite.

KL-14-231, 191.55 m

Plate 14: Moderate potassic alteration in sharp contact with weak phyllic alteration.

Carbonate Gangue Facies in the KVS

Gold-silver mineralization within the KVS occurs in veins containing quartz, carbonate minerals (notably rhodochrosite, ankerite and siderite) and iron and base metal sulphide minerals. The gold-rich Western BRX Zone has the highest abundance of manganiferous carbonate (rhodochrosite) discovered to date on the property. Dominantly iron-rich carbonates (ankerite and siderite) with lesser rhodochrosite are found in the remainder of the BRX Zone and in the Klaza Zone.

Deposit Style Classification

Recent research shows the veins of the KVS overprint earlier phyllic alteration related to the Kelly porphyry system (76 Ma), part of the MNPC (Lee et al., In prep.). Based on the inferred location of the Kelly porphyry, the property encompasses the entire porphyry to epithermal transition system.

Textures and mineralogy observed in the KVS share a number of key characteristics with Intermediate Sulphidation (IS) epithermal deposits. IS epithermal deposits can occur in magmatic arc environments (and locally in extensional settings) and have mainly been discovered around the Pacific Rim (Circum Pacific Belt). This deposit type includes multi-million ounce gold deposits such as the Comstock Lode (Walker Lane, Nevada), Fruita Del Norte (Suarez pull-apart basin, Ecuador) and the Marmato (Middle Cauca Belt, Columbia Marmato) deposits.

IS epithermal deposits are formed from ascending hydrothermal fluids that undergo rapid boiling, liquid-vapour phase separation and rapid cooling, resulting in the precipitation of bisulphide-complexed metals (Wang, 2019). These deposits typically exhibit high Ag:Au ratios, have a significant base metal component, and are spatially related to porphyry copper-gold systems. Mineralization styles are highly zoned, depending on the crustal level of the system.

Characteristic zonation of carbonate compositions develop when upwelling mineralizing fluids are progressively cooled as they mix with descending groundwater. These carbonate compositions vary from proximal (hot) calcium-rich (calcite) and manganese-rich (rhodochrosite) to distal (cool) iron-rich (ankerite) facies. Gold mineralization can be preferentially distributed within veins containing Mn/Mg carbonate facies. Key diagnostic features of IS epithermal deposits are compared to features observed in the Klaza mineralized zones in Table 10:

Table 10: IS Epithermal Comparison with Klaza Vein System

Diagnostic Features of IS epithermal Deposits	Diagnostic Features of KVS Mineralization
Mineralization occurs as veins and breccias	Mineralization occurs as veins and breccias
Extent of veining up to several km long and up to 800 m depth	Large lateral (>2000 m) and vertical (520 m and open to depth) extent of mineralization
Vein textures: crustiform banding, symmetric banding, vugs, cockade and comb texture	Vein textures: crustiform banding, symmetric banding, vugs, cockade and comb texture
Multi-stage mineralizing phases	Four mineralizing phases identified to date on the KVS (Phase I to IV, see above)
Typical mineralogy: pyrite, sphalerite, galena, electrum, Ag sulphides (acanthite, argentite), Ag-sulphosalts, Ag tellurides, rare arsenopyrite	Typically mineralogy: pyrite, arsenopyrite, sphalerite, galena, acanthite, Ag-sulphosalts, tetrahedrite, electrum
Gangue minerals: quartz, local barite, Mn-carbonates (rhodochrosite), Fe-carbonates (ankerite)	Gangue minerals: quartz, local barite, Mn-carbonates (rhodochrosite), Fe-carbonates (ankerite)
Clay alteration assemblage transitions outwards to propylitic alteration	Clay alteration assemblage transitions outwards to propylitic alteration
Coeval or pre-mineralizing dykes present	Coeval or pre-mineralizing quartz-feldspar porphyry dykes present

Arsenopyrite, which is extensively present in veins from the KVS, is a mineral typically found in Low Sulphidation (LS) epithermal deposits rather than IS deposits. Many IS deposits, however, display transitional IS to LS characteristics due to the rapidly changing sulphidation state of hydrothermal fluids and vapours as they react with wallrock buffer material. This change in sulphidation state can introduce minerals, such as arsenopyrite, which are typically seen in LS systems into what are typically classified as IS systems, and vice versa.

SOIL GEOCHEMISTRY

From 1966 to 2017, both reconnaissance and grid soil geochemical samples were collected at varying densities within Work Areas 1 to 6. No soil sampling was conducted in 2019. The following descriptions focus on Work Area 2, which encompasses the most important mineralization found to date on the property. Sample Handling and Analytical Procedures are described in Appendix III.

Work Area 2

Early soil sampling in Work Area 2 identified linear gold±silver±lead anomalies, which correspond to some of the known mineralized zones in the KVS, and a large (2,000 by 3,000 m) area of moderately to strongly anomalous copper-in-soil response, which partially defines the Kelly Zone porphyry.

From 2010 to 2012, Rockhaven expanded grid sample coverage to the west and north of the earlier grids, and collected samples on a few contour-controlled lines in the northwestern part of Work Area 2. No soil sampling was done in 2014. In 2015, 609 samples were collected on grid lines east and northeast of the KVS. These samples were analyzed in 2016. In 2016, 68 grid soil samples were taken to the west and east of the KVS. No soil sampling was completed in Work Area 2 from 2017 to 2019.

Effectiveness of soil sampling is often limited by thick layers of organic material, overburden, and in many areas, permafrost. Despite these limitations, soil sampling has been one of the most effective surface exploration techniques for identifying trenching or drilling targets.

Results for gold, silver, arsenic, lead and copper from historical programs and soil programs conducted by Rockhaven in the area of the KVS are illustrated in Figures 9 to 13, respectively. Table 11 lists the anomalous thresholds and peak values from soil surveys for these elements.

Table 11: Geochemical Data for Soil Samples

	Anomalous Thresholds			Peak Values
Element	**Weak**	**Moderate**	**Strong**	
Gold (ppb)	≥ 5 < 10	≥ 10 < 20	≥ 20	920
Silver (ppm)	≥ 0.5 < 1	≥ 1 < 2	≥ 2	61.3
Lead (ppm)	≥ 10 < 20	≥ 20 < 50	≥ 50	722
Copper (ppm)	≥ 20 < 50	≥ 50 < 100	≥ 100	1,870
Arsenic (ppm)	≥ 10 < 20	≥ 20 < 50	≥ 50	1,700

In general, gold, silver and arsenic soil geochemical results from samples taken in the area of the KVS show strong correlation with known veins in the area of the KVS. These elements also highlight strong linear trends in unexplored parts of Work Area 2.

Elevated gold, silver, lead and arsenic values form strong, typically northwesterly trending linears in the area of the KVS, which strongly correlate with the twelve known veins in the area. These geochemical anomalies also highlight strongly elevated, multi-element linear trends in unexplored parts of Work Area 2.

Soil geochemical results also highlight a distinct copper zonation in the KVS, from southeast to northwest, which is associated with proximity to the Kelly porphyry system. Response across the remainder of the gridded area is more subdued. The more southerly BRX, AEX, Dickson and Chevron zones have weakly elevated copper-in-soil signatures, while the other zones, further to the north, show only background copper response.

Along strike to the northwest of the known mineralized zones, elevated soil values occur as isolated samples or in small clusters. The lack of continuity in soil geochemical results to the northwest is likely due to increasing overburden and permafrost with decreasing elevation, resulting in poor soil sample quality.

Work Areas 1, 3, 4, 5 and 6

Reconnaissance-scale soil geochemical programs and localized grid soil sampling have been conducted intermittently in Work Areas 1, 3, 4, 5 and 6. To date, the most significant values have come from the BBB, Dade, Sked and Val and Rusk claim groups.

At Work Area 4, a total of 20 soil samples were collected in 2015 to the east of the Bear occurrence. These samples were analyzed in 2016.

At Work Area 3, a total of 68 soil samples were collected in 2016 on two grids near the Dade and Grizzly occurrences. Samples taken from undrilled areas of the Dade claims returned values up to 166 ppb gold. Samples collected from soil near bedrock on trench floors yielded values up to 7,260 ppb gold.

At Work Area 6, a total of 186 contour soil samples were collected in 2016 to the north of the Rusk occurrence. These samples outlined a 1,500 by 1,800 m gold, arsenic and silver anomaly with values up to 147 ppb, 16 ppm and 1,900 ppm, respectively. In 2017 a total of 140 contour-style soil samples were taken. Figures 14 to 17 show gold, arsenic, lead and copper values for the soils taken from the Rusk target.

Soil samples collected from the Sked/Desk claims returned anomalous gold, arsenic and silver values up to 1,100 ppb, 1,100 ppm and 4.4 ppm, respectively.

The Val claims host multiple anomalous zones containing elevated gold, silver, lead and zinc results, with peak values of 154 ppb, 13.9 ppm, 671 ppm, and 511 ppm, respectively.

Results from soil geochemical programs conducted by various operators are summarized in: Cathro and Culbert, 1969; Cathro, 1974 and 1976; Main, 1987; Mann and Slack, 1996; Chung, 2011; Burrell, 2014; Smith, 2010 and 2011; Galambos, 1988; Schmidt, 1996 and 1997; Carlyle, 1997; McClintock, 1986; Heberlein and Lyons, 1986; Stroshein, 2001, 2003, 2004, and 2008.

ROCK GEOCHEMISTRY AND HAND TRENCHING

Prospecting, rock sampling and hand trenching programs have been conducted by various operators throughout the MNGC since work originally began in the area. Prospecting on the property, however, is largely inhibited by lack of outcrop except for the uppermost portions of ridges and hilltops. Recent prospecting and hand trenching work on the property is summarized below. Sample Handling and Analytical Procedures are described in Appendix III. Certificates of Analysis are found in Appendix IV.

Work Area 2

In 2016, six rock samples were collected to the east of the KVS, at the Victoria target, located approximately three kilometres to the east of the KVS. Samples from two separate areas returned up to 3.41 g/t gold, 537 g/t silver and 1.29% lead, and 4.09 g/t gold, 26.9 g/t silver, and 4.07% copper. Follow up hand trenching in the area was hindered by permafrost, but float samples from a trench, HTR-16-03, returned up to 10 g/t gold and 217 g/t silver.

In 2017, a total of 38 rock samples were collected to the east, west and south of the KVS. The best rock sample taken from the Victoria target returned 35.3 g/t gold and 1,145 g/t silver, with other samples returning up to12.10 g/t gold, 2,360 g/t silver and 7.6% lead.

In 2019, a single rock sample was collected while constructing a drill pad targeting the Eastern Chevron Zone. This vein is likely the surface exposure of the Eastern Dickson Vein. The sample, a composite of mineralized vein and altered wallrock material, returned 4.07 g/t gold, 74.1 g/t silver, 1.7% lead and 3.38% zinc. The location of this rock sample is shown on Figure 18. Rock sample descriptions appear in Appendix V.

Work Areas 3 and 6

At Work Area 3, a rock sample taken from the Dade occurrence in 2017 returned up 1.22 g/t gold and 6.4 g/t silver.

At Work Area 6, eight rock samples were collected in 2016 from the Sked occurrence. Eight samples were collected from historical trenches in order to evaluate a potential local limestone source for use during tailings treatment. Oxidized samples taken from these trenches returned elevated values for arsenic (1,165 ppm), copper (244 ppm) and zinc (449 ppm). One additional rock sample was collected from the area in 2017.

GEOPHYSICAL SURVEYS

Work Area 2

To date, four types of geophysical surveys have been completed within Work Area 2: (1) SJ Geophysics Ltd. (SJ Geophysics) of Delta, British Columbia conducted two ground-based VLF-EM and magnetic surveys on behalf of BYG Natural Resources in 1996 (Visser et al., 1996) and Rockhaven in 2014 and a Volterra 3D IP survey in 2016; (2) Aurora Geosciences Ltd. of Whitehorse, Yukon conducted a gradient array induced polarization survey on behalf of Bannockburn Resources in 2006 (Wengzynowski, 2006); (3) New-Sense Geophysics Ltd. (NSG) of Markham, Ontario conducted two high sensitivity helicopter-borne magnetic and gamma-ray spectrometric surveys for Rockhaven during the 2010 (Turner and Tarswell, 2011) and 2011 (Tarswell and Turner, 2012) field seasons; and (4) Ground Truth Exploration of Dawson City, Yukon conducted high resolution induced polarization surveys along two experimental lines in the Central Klaza and Central BRX zones for Rockhaven during the 2013 field season.

The **SJ Geophysics** VLF-EM and ground-based magnetic surveys were completed during two programs and covered a total of 330 line kilometres on a 4.5 by 8 km grid in the eastern and

central parts of Work Area 2. The first survey was completed on behalf of BYG in 1996 and covered 250 line kilometres. In 2014, Rockhaven added another 80 line kilometres to the earlier survey. SJ Geophysics integrated and interpreted the data from both surveys and produced images relating to it. These surveys delineated numerous linear magnetic lows and VLF-EM conductors that coincide with known mineralized zones within the KVS. Northerly trending breaks in the VLF-EM conductors correspond to known or suspected cross-faults. Figure 19 shows the VLF-EM results overlain with the interpreted surface traces of the mineralized structural zones and their possible extensions along strike.

A Volterra-3D IP survey was completed by **SJ Geophysics** in 2016 to the east of the KVS. A total of 18.4 line kilometres were completed on a grid with seven survey lines spaced at 400 m. Survey stations along these lines were set up at 100 m intervals. The work was designed to better define the Kelly Zone, where porphyry-style mineralization had been inferred from a few widely-spaced drill holes, strong soil geochemistry and a broad magnetic low. Prior to 2016, only two trenches and one drill hole had tested the northern edge of this anomaly with the best result coming from hole KL-12-134, which averaged 0.14 g/t gold, 2.7 g/t silver, 0.15% copper, and 0.010% molybdenum over 95.15 m. This survey identified a 2,400 metre by 2,200 metre sub-circular chargeability anomaly containing greater than 40 millisecond (ms) values, as shown in Figure 20. Within this anomaly there is a 1,700 metre by 800 metre core with greater than 50 ms values. North-trending resistivity lows (less than 100 ohm-m) coincide with the core of the chargeability anomaly, as shown in Figure 21.

The gradient array and pole-dipole IP survey conducted by **Aurora Geosciences** covered a 1,800 by 1,450 m area in the eastern and central parts of the KVS. Readings were collected at 25 m intervals along lines spaced 100 m apart. This survey identified two main anomalies, both of which feature elevated chargeability with coincident low resistivity.

The most prominent IP anomaly is located in the southeastern corner of area tested by Aurora and was the focus of the more expansive SJ Geophysics survey completed in 2016. It is only partially defined and currently comprises a 1,000 m diameter, semicircular area characterized by moderate chargeability and low resistivity. This anomaly coincides with an area of elevated gold-in-soil geochemistry (25 to 100 ppb) and strong copper geochemistry (>200 ppm) as well as weak porphyry-style mineralization and alteration that are part of the Kelly Zone.

The second IP anomaly includes three northwesterly trending linear, chargeability features of weak to moderate intensity. These chargeability features are 710 to 1,200 m long and are offset 30 to 190 m to the south from parallel resistivity lows. These linear features correspond with parts of the BRX, AEX and BYG zones. The Aurora survey did not cover the Klaza Zone.

The **NSG** surveys resulted in 326 line kilometres being flown on a grid that covered most of Work Area 2. Condor Consulting, Inc. of Lakewood, Colorado was retained to ensure quality control and produced a 3D model of the total field magnetics as well as various vertical derivatives. The first vertical derivative of the magnetic results overlain with the interpreted surface traces of the eleven structural zones is shown on Figure 22.

Magnetic surveys identified several prominent, linear magnetic lows. Subsequent trenching and drilling have shown that many of the northwesterly trending lows coincide with mineralized structural zones in the KVS, while northeasterly trending breaks in the magnetic data correspond to cross-faults. These relationships are consistent with the low magnetic susceptibility results returned from core samples within the altered structural zones compared to higher values from surrounding unaltered wallrocks. Several of the magnetic lows extend outside the main areas of exploration and have not yet been tested by drilling or trenching.

Elevated potassic radioactivity is evident in the general area of the KVS, but does not specifically coincide with individual mineralized zones. Numerous porphyry dykes and frost boils containing porphyry fragments lie within this area and are the probable source of this radioactivity. The Klaza River valley, to the north of the KVS, has generally subdued radiometric response, which is likely due to thick vegetation and water saturation in the flats adjacent to the river. Elevated radioactivity that directly correlates with the river bed may be caused by exposed gravels, which include abundant potassium feldspar bearing, intrusive material.

The experimental IP survey conducted by **Ground Truth Exploration** collected dipole-dipole extended, inverse Schlumberger and strong gradient array data on section lines 10+050 mE and 10+600 mE across the Klaza and BRX zones. Each of these lines was 415 m long (a single spread length for the arrays). Transceivers were placed five metres apart along the lines, resulting in a very high signal to noise ratio and thus providing high quality resistivity data. The mineralized vein and breccia zones tested by the two lines show up as resistivity lows that coincide with chargeability highs.

Work Areas 1, 3, 4, 5 and 6

Geophysical surveys of various types have been conducted on Work Areas 1, 3, 4, 5, and 6. The surveys and their results are summarized in: Smith, 2011; Smith, 2012; Galambos, 1988; McClintock, 1986; Heberlein and Lyons, 1986; and, Dujakovic and Visser, 1996. The most recent data are magnetic and induced polarization surveys of the Rusk and Val areas, complete by **SJ Geophysics** in August 2017.

Magnetic data from the Dade claims has a strong northeasterly fabric, rather than the northwesterly orientation that characterizes the KVS. Although northwest-trending features are less common, a linear with this orientation appears to mark a fault that truncates or offsets veining identified in trenches.

The first vertical derivative evaluation of the magnetic data from the BBB claims delineates a number of northwest-trending magnetic lows akin to those that coincide with mineralized structures in the KVS.

In 2017, SJ Geophysics conducted magnetic and induced polarization surveys on the Rusk and Val claim groups. The Rusk grid surveys (seen in Figures 19-22 combined with historic Klaza Vein System geophysics) exhibit few poorly defined linears, best seen in the magnetic surveys. These linears show a weak apparent correlation with high arsenic-, gold-, and silver-in-soil

values. The Val grid surveys (Figures 23 and 24) show apparent northwest-southeast trending linears similar to those seen in the main Klaza Vein System. The final report by SJ Geophysics from work completed in 2017 can be found in the 2017 Klaza Assessment Report.

EXCAVATOR TRENCHING

Rockhaven has completed 24,231 m of excavator trenching in 101 trenches between 2010 and 2017. Chip samples are typically taken along the west rib of each trench or where bedrock was the most stable. Where bedrock was not exposed, soil samples were typically collected along the floor of trenches and rock samples were taken if any mineralized float was observed. Trenching, Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis can be found in Appendix IV.

Table 12 lists the total number and combined lengths of trenches completed in the Klaza claim group by Rockhaven each year since 2010.

Table 12: 2010 to 2017 Excavator Trenching Summary

Year	Number of Trenches	Total Length (m)
2010	21	8,000
2011	12	4,050
2012	11	4,000
2013	38	5,000
2014	5	880
2015	2	436
2016	8	1,270
2017	4	595
TOTAL	**101**	**24,231**

Work Area 2

Historically, excavator trenching in geochemically anomalous areas has been the most effective tool for identifying near surface but non-outcropping, mineralized zones. Overburden within the main areas of exploration generally consists of 5 to 20 cm of vegetation and soil organics overlying a discontinuous layer of white volcanic ash and 50 to 125 cm of loess and/or residual soil, capping decomposed bedrock.

Typical trench exposures within the mineralized vein zones exhibit strong limonite and clay alteration that is often water saturated and strongly weathered compared to surrounding wallrocks. These zones are intensely fractured and have high porosity as a result of near surface oxidation. Residual sulphide minerals are rarely present in trenches and, where seen, they are usually encapsulated in silica. The locations and orientations of lithological contacts in trenches correspond very well with those intersected in nearby drill holes, indicating little solifluction has occurred. Outside of the mineralized zones, trench exposures are dominated by blocky, weakly oxidized granodiorite.

The majority of trench locations were selected on the basis of previous trench, soil and drilling results. Where possible, trenches were excavated in areas that had previously been stripped of soil and vegetation. Trenches are typically aligned at about 030°, perpendicular to the trends of main veins and soil geochemical and geophysical anomalies.

Individual zones and their key historical trench results are discussed, from north to south, in the following paragraphs based on descriptions from Tarswell and Turner, 2014. All widths reported are sampled widths, which are considered to represent 80 to 90% of true widths.

The **Victoria Zone** is the northern-most zone of the KVS. A single excavator trench (275.56 m) was dug in 2017 following the discovery of high-grade gold- and silver-bearing rock samples. Chip sampling from these trenches returned 4.95 g/t gold and 135 g/t silver over 1.5 m and 5.43 g/t gold and 149 g/t silver over 1 m (TR-17-093).

The **Pearl Zone** was partially exposed in an excavator trench in 2011. The Central and Western Pearl Zone were delineated by drilling in 2019, but have not been exposed by trenching.

The **Klaza Zone** has been traced by closely spaced trenches for a strike length of 2,400 m, but is projected to another trenching area 1,300 m to the east, for a potential total strike length of 3,700 m. The zone is made up of numerous individual veins that range between 0.2 to 4.5 m wide. The Klaza Zone is divided into three sub-zones, which are described below.

Narrow, high-grade silver-gold enriched veins in the ***Western Klaza Zone*** are believed to represent distal mineralization. A strong vein and a nearby weaker vein, both with good lateral continuity, have been traced along this segment of the zone. These veins are not emplaced alongside a feldspar porphyry dyke, nor are they flanked by the type of sheeted veining seen elsewhere in the Klaza Zone. The Western Klaza Zone has higher proportions of arsenopyrite and sulphosalts, and higher silver:gold ratios than the Central and Eastern portions of the zone. The best trench result from the Western Klaza Zone was 16.76 g/t gold and 1,052 g/t silver over 3.03 m (TR-13-70).

Mineralization in the ***Central Klaza Zone*** is hosted within a laterally extensive complex of steeply dipping veins, breccias and sheeted veinlets that are associated with a swarm of feldspar porphyry dykes. The strongest veins are typically found along dyke margins. The best result from this part of the Klaza Zone was 5.61 g/t gold and 300 g/t silver over 18.79 m (TR-13-51).

Mineralization in the ***Eastern Klaza Zone*** comprises broad zones of quartz-pyrite stringers and veinlets hosting disseminated galena, sphalerite, chalcopyrite and rare molybdenum. Barren feldspar porphyry dykes up to 70 cm wide crosscut zones of mineralization. The strongest vein zones are typically associated with broad areas of phyllic and weak potassic alteration, which sometimes host disseminated pyrite and trace molybdenum. The best results from this part of the Klaza Zone include 0.69 g/t gold and 3.43 g/t silver over 53.95 m (TR-13-42), and 0.18 g/t gold and 2.69 g/t silver across 302.7 m (TR-12-08).

While individual mineralized exposures within the Klaza Zone are generally comparable to those at other zones in the KVS, the Central and Eastern Klaza Zones are distinguishable by the

presence of multiple subparallel veins, which are relatively closely spaced within a structural corridor that is up to 100 m wide.

In 2013, two trenches tested the projected eastern extension of the Klaza Zone, 1,300 m east of the main trenching area. The best of these trenches (TR-13-41S) yielded multiple mineralized intervals, including 1.91 m grading 2.38 g/t gold and 18.25 g/t silver. The area between this trench and the known Klaza Zone has not yet been trenched and only three holes have been drilled. The continuity between these areas has not yet been established.

The **BYG Zone** is a vein zone that splays to the south, off of the east-central part of the Klaza Zone. It has been traced by excavator trenches for 650 m and hosts veins developed along the selvages of two dyke swarms. An interval in TR-11-26 returned 2.13 g/t gold and 7.94 g/t silver across 14.68 m.

The **Herc Zone** also appears to splay off the Klaza Zone, approximately 300 m east of the BYG Zone. The Herc Zone was discovered in 2010 by following up historical soil geochemical results and has been traced over a 460 m strike length. The best exposure yielded 3.06 g/t gold and 48.66 g/t silver over 7.60 m (TR-10-12). Trenching along the projected strike to the west failed to identify significant mineralization, although strong alteration was exposed along the inferred trend.

The **Pika Zone** lies 650 m south of the Klaza Zone. It hosts up to two discrete veins that have been tested by four trenches along a 740 m strike length. This zone has a relatively weak soil geochemical signature compared to the other known zones. The best interval obtained from trenching yielded 2.94 g/t gold and 190.06 g/t silver over 3.20 m (TR-10-04).

The **BRX Zone** was the original historical discovery on KVS. The zone has been traced for a length of 2,400 m by 37 trenches. The total strike length comprises at least three fault offset segments. Mineralization within the BRX Zone is associated with a laterally extensive feldspar porphyry dykes. Veins occur on the margins of dyke and, where the dyke splays, the number of veins increases, which sometimes results in wider mineralized intervals. All of the vein exposures in this zone host abundant sulphide and quartz veinlets. The best results are from a 500 m long section, the ***Western BRX Zone***, which is situated between two northeast-trending cross-faults. Highlights from this section include 87.0 g/t gold and 768 g/t silver over 1.15 m (TR-13-47) and 71.4 g/t gold and 1,310 g/t silver over 2.25 m (TR-13-58). Highlight trench results from the ***Central BRX Zone*** include 11.65 g/t gold and 10,400 g/t silver over 1 m (TR-10-20) and 8.42 g/t gold, 548 g/t silver over 1.31 m (TR-13-49). Highlight trench results from the ***Eastern BRX Zone*** include 3.2 g/t gold and 190 g/t silver over 2.93m (TR-10-04)

The **AEX Zone**, discovered in 2012, lies 850 m south of the Klaza Zone and has been traced for 1,650 m. The best trench exposure was returned 10.90 g/t gold and 56.41 g/t silver over 1.25 m (TR-10-03).

The **Dickson Zone** was also discovered in 2012 and lies 1,050 m south of the BRX Zone. It has been exposed in two areas, located approximately 1,500 m apart within a 3,000 m long

geophysical and multi-element soil geochemical anomaly. The best exposure from this zone was returned 10.85 g/t gold and 93.60 g/t silver over 1.60 m (TR-12-02).

The **Chevron Zone** was another 2012 discovery, which is located approximately 850 m southwest of the BRX Zone. It hosts multiple vein structures that have only been tested by two trenches. The best trench results were 3.79 g/t gold and 190.48 g/t silver over 9.20 m and 6.25 g/t gold and 319 g/t silver over 4.80 m, both from TR-12-36.

The **Rex Zone** was discovered by a 2016 drill hole (KL-16-314). It has not been tested by trenching.

The **Stroshein Zone** lies approximately 100 m south of the Eastern Klaza Zone and 180 m north of the Pika Zone. Four trenches completed between 2010 and 2012 cross the zone, with the best result returning 8.41 g/t gold over 1.35 m (TR-12-39).

Table 13 lists the most significant mineralized intervals from trenching programs conducted since 2010 in the KVS.

Table 13: Significant Trench Results – Klaza Vein System

Trench	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone
TR-10-01	229.32	231.32	2.00	6.36	118.55	PIKA
TR-10-01	311.02	312.63	1.61	5.67	140.09	Eastern BRX
TR-10-01	323.89	328.89	5.00	2.91	0.60	Eastern BRX
TR-10-01	469.10	473.62	4.52	2.48	46.80	AEX
TR-10-02	92.45	97.45	5.00	1.39	28.30	Eastern BRX
TR-10-02	227.07	232.37	5.30	1.85	29.63	AEX
TR-10-02	377.20	379.09	1.89	2.78	81.88	Eastern BRX
TR-10-03	236.96	238.21	1.25	10.90	56.41	AEX
TR-10-03	356.26	356.96	0.70	5.39	88.40	Eastern BRX
TR-10-03	96.30	99.00	2.70	2.61	14.80	Eastern Klaza
TR-10-03	349.50	352.50	3.00	6.80	55.67	Eastern Klaza
TR-10-03	464.61	467.07	2.46	7.43	146.38	BYG
TR-10-03	485.91	495.91	10.00	4.22	7.90	HERC
TR-10-04	105.50	108.70	3.20	2.94	190.06	PIKA
TR-10-04	257.47	258.50	1.03	19.80	135.00	Central BRX
TR-10-04	267.17	268.45	1.28	2.26	46.00	Central BRX
TR-10-04	300.67	301.80	1.13	7.09	146.00	Central BRX
TR-10-04	314.50	316.00	1.50	12.50	237.00	Central BRX
TR-10-04	320.00	321.70	1.70	2.81	7.57	Central BRX
TR-10-06	37.90	41.90	4.00	6.40	27.48	Eastern BRX
TR-10-08	322.84	325.34	2.50	3.57	1.40	AEX
TR-10-08	441.80	446.80	5.00	1.70	1.10	Eastern BRX
TR-10-08	453.60	456.10	2.50	4.47	1.80	Eastern BRX

TR-10-09	220.67	235.52	14.85	2.55	37.83	Central Klaza
TR-10-09	346.42	347.34	0.92	1.18	178.00	BYG
TR-10-10	63.73	66.28	2.55	2.45	71.53	Central Klaza
TR-10-10	129.13	136.93	7.80	6.96	66.36	Central Klaza
TR-10-10	148.63	152.05	3.42	1.20	96.20	Central Klaza
TR-10-11	199.55	204.95	5.40	2.04	18.66	Central Klaza
TR-10-11	225.00	227.47	2.47	4.54	12.70	Central Klaza
TR-10-11	240.57	242.07	1.50	2.33	33.00	Central Klaza
TR-10-11	454.34	459.56	5.22	1.52	31.21	BYG
TR-10-12N	188.40	196.00	7.60	3.06	48.66	HERC
TR-10-12N	409.00	412.00	3.00	2.78	9.90	BYG
TR-10-12N	423.20	425.30	2.10	2.58	12.50	BYG
TR-10-12N	597.50	615.20	17.70	2.56	30.42	Central Klaza
TR-10-12N	711.00	715.00	4.00	1.01	27.20	Central Klaza
TR-10-12S	2.20	4.00	1.80	0.97	309.61	PIKA?
TR-10-12S	89.25	90.25	1.00	1.67	461.00	PIKA?
TR-10-13	301.58	303.58	2.00	2.44	5.80	Eastern Klaza
TR-10-14	240.00	241.50	1.50	2.53	133.00	AEX
TR-10-14	246.00	247.00	1.00	2.52	94.40	AEX
TR-10-14	252.00	253.50	1.50	5.60	56.90	AEX
TR-10-14	349.50	350.50	1.00	0.99	166.00	AEX
TR-10-14	361.70	362.70	1.00	9.31	996.00	Central BRX
TR-10-14	366.70	369.50	2.80	1.90	17.52	Central BRX
TR-10-15	38.90	39.90	1.00	2.32	1162.28	AEX
TR-10-15	50.40	53.45	3.05	1.96	14.02	AEX
TR-10-15	69.32	70.32	1.00	3.76	26.00	AEX
TR-10-15	121.50	126.00	4.50	2.92	140.01	Central BRX
TR-10-17	124.77	127.07	2.30	1.54	71.10	Central BRX
TR-10-17	136.87	143.87	7.00	0.96	99.00	Central BRX
TR-10-19	72.65	74.10	1.45	12.45	305.00	Central Klaza
TR-10-20	14.34	17.84	3.50	4.18	360.09	Central BRX
TR-10-21	2.18	10.86	8.68	4.01	434.87	Central BRX
TR-11-22	330.23	331.03	0.80	2.51	260.00	Eastern Klaza
TR-11-22	335.59	337.08	1.49	1.41	77.60	Eastern Klaza
TR-11-22	346.10	349.48	3.38	4.46	61.59	Eastern Klaza
TR-11-22	378.30	379.65	1.35	9.86	61.20	Eastern Klaza
TR-11-24	188.46	191.53	3.07	2.94	36.62	Western BRX
TR-11-26	165.60	180.28	14.68	2.13	7.94	BYG
includes	173.47	176.25	2.78	8.28	20.16	BYG
TR-11-26	232.00	234.00	2.00	23.90	39.70	Central Klaza
TR-11-27	62.94	64.14	1.20	0.53	155.00	Western Klaza

TR-11-28	172.19	172.94	0.75	5.19	421.00	Western Klaza
TR-11-30	62.50	63.80	1.30	4.87	634.00	Western Klaza
TR-12-01	51.00	56.00	5.00	0.31	103.00	Dickson
TR-12-01	147.50	151.82	4.32	2.51	52.92	Chevron?
TR-12-02	322.50	324.10	1.60	10.85	93.60	Dickson
TR-12-08	709.70	718.15	8.45	1.69	2.48	Eastern Klaza
TR-12-23	18.00	26.00	8.00	1.65	50.55	Central BRX
includes	22.60	26.00	3.40	3.02	72.91	Central BRX
TR-12-35	81.60	83.85	2.25	5.53	237.61	Western Klaza
TR-12-36	358.50	367.70	9.20	3.79	190.48	Chevron
includes	358.50	363.30	4.80	6.24	318.58	Chevron
TR-12-39	808.05	809.40	1.35	8.41	26.10	Stroshein
TR-13-18	24.00	26.15	2.15	1.37	44.90	Central BRX
TR-13-41N	325.77	336.49	10.72	2.85	20.04	Pearl
includes	326.97	328.22	1.25	19.75	148.00	Pearl
TR-13-41S	811.16	813.07	1.91	2.38	18.25	Far Eastern Klaza
TR-13-42	32.05	35.10	3.05	2.73	6.53	Eastern Klaza
TR-13-42	68.10	69.60	1.50	3.91	9.50	Eastern Klaza
TR-13-42	77.85	86.00	8.15	1.73	2.93	Eastern Klaza
includes	77.85	80.15	2.30	2.77	4.01	Eastern Klaza
includes	83.35	86.00	2.65	2.43	2.81	Eastern Klaza
TR-13-42	105.25	110.55	5.30	0.72	22.88	Eastern Klaza
TR-13-44	1.00	2.05	1.05	1.98	100.00	Central BRX
TR-13-44	21.30	23.80	2.50	1.15	108.00	Central BRX
TR-13-45	104.30	105.30	1.00	17.10	154.00	Western BRX
TR-13-46	263.77	266.77	3.00	1.83	16.50	Chevron
TR-13-46	304.68	317.75	13.07	1.35	12.60	Chevron
includes	304.68	310.66	5.98	2.26	22.34	Chevron
TR-13-47	30.05	31.20	1.15	87.00	768.00	Western BRX
TR-13-49	1.61	2.92	1.31	8.42	548.00	Central BRX
TR-13-51	0.00	1.00	1.00	2.68	97.30	Central Klaza
TR-13-51	11.19	12.19	1.00	0.90	2710.00	Central Klaza
TR-13-51	18.19	19.69	1.50	1.50	134.00	Central Klaza
TR-13-51	24.53	29.98	5.45	18.67	493.22	Central Klaza
includes	26.53	29.98	3.45	29.21	766.54	Central Klaza
TR-13-52	3.75	10.59	6.84	16.20	157.93	Central Klaza
includes	3.75	6.09	2.34	13.50	155.00	Central Klaza
includes	7.49	10.59	3.10	25.40	230.00	Central Klaza
TR-13-53	17.83	22.13	4.30	1.49	5.38	Far Eastern Klaza
TR-13-53	66.72	68.72	2.00	1.04	88.10	Far Eastern Klaza
TR-13-53	107.39	108.77	1.38	4.56	19.60	Far Eastern Klaza

TR-13-53	175.08	180.08	5.00	4.13	64.67	Far Eastern Klaza
TR-13-53	233.24	237.61	4.37	1.47	1.49	Far Eastern Klaza
TR-13-53	524.58	525.78	1.20	28.20	359.00	Pearl
TR-13-55	39.85	41.90	2.05	1.84	47.70	Western BRX?
TR-13-58	3.35	6.60	3.25	50.07	909.90	Western BRX
TR-13-59	8.85	15.20	6.35	1.02	61.65	Western BRX
TR-13-61	14.25	16.25	2.00	2.97	96.50	Central BRX
TR-13-62	4.85	7.85	3.00	0.95	74.80	Central BRX
TR-13-66	1.00	2.00	1.00	3.41	121.00	Central Klaza
TR-13-66	6.98	8.42	1.44	1.83	214.00	Central Klaza
TR-13-66	15.43	21.99	6.56	10.46	171.99	Central Klaza
includes	18.72	20.99	2.27	25.70	449.00	Central Klaza
TR-13-67	35.00	38.55	3.55	31.38	310.31	Western BRX
TR-13-67	43.70	48.70	5.00	3.34	80.77	Western BRX
TR-13-68	9.30	11.30	2.00	2.08	274.00	Western BRX
TR-13-68	19.75	21.25	1.50	1.42	166.00	Western BRX
TR-13-69	5.16	9.76	4.60	8.29	295.35	Western Klaza
TR-13-70	2.50	7.03	4.53	11.36	729.95	Western Klaza
includes	2.50	4.00	1.50	24.70	2000.00	Western Klaza
TR-13-71	0.00	1.80	1.80	4.82	53.92	Western Klaza
TR-13-73	1.00	6.20	5.20	15.18	300.90	Western BRX
includes	3.70	6.20	2.50	26.10	574.00	Western BRX
TR-13-74	12.45	14.70	2.25	31.20	1030.00	Western BRX
TR-13-75	4.75	6.20	1.45	11.50	1680.00	Western BRX
TR-13-75	17.24	20.24	3.00	34.70	160.00	Western BRX
TR-13-77	3.60	7.18	3.58	9.16	430.28	Western BRX
includes	5.08	7.18	2.10	14.40	729.00	Western BRX
TR-14-13	188.60	189.90	1.30	5.83	390.00	Eastern Klaza
and	226.70	227.70	1.00	3.78	9.85	Eastern Klaza
and	246.60	248.60	2.00	2.65	12.48	Eastern Klaza
and	285.70	286.60	0.90	2.64	3.23	Eastern Klaza
and	397.70	399.70	2.00	1.97	2.42	Eastern Klaza
TR-14-79	16.20	17.20	5.90	1.13	12.22	Western Klaza
includes	20.70	22.10	1.40	2.75	27	Western Klaza
TR-15-80	208.9	209.9	1.00	41.3	241	Central Klaza
and	209.9	210.9	1.00	31.9	506	Central Klaza
TR-16-84	299	302.5	3.50	3.88	25.5	Unnamed
TR-17-093	85	86	1.00	5.43	149	Victoria
TR-17-093	168	168.40	0.40	10.10	356	Victoria

Work Areas 3, 4 and 6

Various types of trenching (hand pits, bulldozer and excavator) have also been conducted within Work Areas 3, 4 and 6. The trenching programs are summarized in: Brent, 1991 and 1992; Pautler, 1994; Smith, 2011; Carlyle, 1997; Turner, 2013; and, Stroshein 2001, 2003, 2004, and 2008. Table 14 lists the most significant mineralized intervals from trenching programs conducted in these work areas.

In 2016, four historical trenches were re-trenched and sampled in Work Area 6 after float samples from the old workings returned up to 10.8 g/t gold, 179 g/t silver and 5.00% lead. These trenches intersected two roughly northwest trending veins that returned up to 4.94 g/t gold, 294 g/t silver and 11.99% lead over 6.5 m. A total of 222 chip samples were collected from the four trenches over 590 combined metres. The best intervals from these veins are listed on Table 14 below.

Table 14: Significant Trench Results – Outside of Work Area 2

Trench	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone	Work Area	Claims
TR-11-04	-	-	36	1.17	2.5	-	6	Desk
TR-11-07	4.0	15.0	11	4.88	-	V1	3	Dade
TR-11-E	67.0	99.0	32	1.71	-	V1	3	Dade
TR-16-86	45	45.5	0.5	3.56	165	Unnamed	6	J.Bill
TR-16-88	40.5	43	2.5	4.46	11.25	Unnamed	6	J.Bill

DIAMOND DRILLING

Work Area 2

This section summarizes diamond drill programs completed by Rockhaven in Work Area 2 since 2010.

In 2010, diamond drilling was contracted to Top Rank Diamond Drilling Ltd. of Ste. Rose du Lac, Manitoba, and was done with two skid-mounted, diesel-powered JKS-300 drills using NTW and BTW equipment.

In 2011, diamond drilling was contracted to three companies: Swiftsure Diamond Drilling Ltd. of Nanaimo, British Columbia; Strike Diamond Drilling of Kelowna, British Columbia; and, Elite Diamond Drilling of Vernon, British Columbia. The work was done using two skid-mounted, diesel-powered A-5 drills and one skid-mounted, diesel-powered JKS-300 drill. The A-5 drills used HQ equipment while the JKS-300 used BTW equipment.

In 2012, diamond drilling was contracted to four companies: Swiftsure, Strike, Elite, and Platinum Diamond Drilling Inc. of Winnipegosis, Manitoba. The work was done using three skid-mounted, diesel-powered A-5 drills and one skid-mounted, diesel-powered JKS-300 drill. The A-5 drills used HQ and NQ equipment while the JKS-300 used BTW equipment.

Diamond drilling in 2014 was contracted to Platinum. The work was done using two skid-mounted, diesel powered A-5 drills and one skid-mounted, diesel powered Discovery II drill. The A-5 drills used HQ and NQ equipment while the Discovery II used NQ equipment.

In 2015, diamond drilling was contracted to Platinum. The work was done using two skid-mounted, diesel-powered A-5 drills. The A-5 drills used both HQ and NQ equipment.

In 2016, diamond drilling was contracted to Platinum. Drilling was done using two skid-mounted, diesel-powered A-5 diamond drills. The A-5 drills used HQ and NQ equipment.

In 2017, diamond drilling was contracted to Platinum. Drilling was done using two skid-mounted, diesel-powered A-5 diamond drills. The A-5 drills used HQ and NQ equipment.

In 2019, diamond drilling was contracted to Kluane Drilling. Drilling was done using two skid-mounted, diesel-powered KD-1000 diamond drills. The drills used NTW and HTW equipment.

A total of 468 diamond drill holes (100,200.25 m) have been completed in and around the KVS since 2010, as summarized in Table 15. A total of 4,242 samples were collected from 5,752.14 m of drill core in 2019. Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis are in Appendix IV. Geological and Geotechnical Logs can be found in Appendix VI. Significant Drill Intersections from diamond drill programs conducted since 2010 are shown in Appendix VII.

Table 15: 2010 to 2019 Diamond Drilling Summary – Klaza Vein System

Year	Holes Drilled	Total Drilled (m)
2010	11	1,642.09
2011	52	14,067.85
2012	73	21,801.75
2013	0	0
2014	104	19,242.35
2015	55	13,345.68
2016	44	8,426.84
2017	96	15,921.55
2018	0	0
2019	33	5,752.14
TOTAL	**468**	**100,200.25**

Most diamond drill holes were collared at dips of -50° (with the exception of vertical water monitoring holes) and most of the holes had azimuths of 030° to 037° (north-northeast) as shown on Figure 27. Infill drill holes were collared along section lines spaced roughly 50 m apart in the area of the Eastern Zones.

A total of 24 drill holes completed in 2019 were part of an infill drilling program, designed to increase data and certainty in the Eastern Zones, which is not part of the current resource

estimation. Nine drill holes were completed in order to test exploration targets, with seven focused on the Pearl Zone and its western extension, and two designed to test the Eastern Chevron and Dickson zones. Figure 25 shows the location of 2019 diamond drill holes.

The diamond drill programs completed by Rockhaven since 2010 have successfully expanded zones of gold and silver mineralization identified by previous operators and discovered new zones elsewhere within the KVS. The various zones have a drill confirmed, cumulative mineralized strike length of more than ten kilometres.

Table 16 shows the drill confirmed strike length of each of the main zones, the maximum down-dip intersect depth in each zone and a highlight, gold-biased drill intersect from each of the zones.

Table 16: Drill Data for Main Mineralized Zones – Klaza Vein System

Zone	Mineralized Strike Length (m)	Maximum Down-dip Drill Intersect (m)	Highlight Drill Intersect
Western Klaza	450	250	13.75 g/t gold and 357 g/t silver over 2.11 m (KL-12-115)
Central Klaza	850	325	182.00 g/t gold and 231 g/t silver over 0.61 m (KL-17-376)
Eastern Klaza	1,100	180	34.10 g/t gold and 47.5 g/t silver over 1.00 m (KL-12-068)
Western BRX	500	520	196.00 g/t gold and 608 g/t silver over 0.91 m (KL-17-401)
Central BRX	1,900	400	11.30 g/t gold and 233 g/t silver over 1.52 m (KL-12-114)
Pika	740	250	32.52 g/t gold and 34.3 g/t silver over 3.36 m (KL-10-06)
AEX	1650	310	9.03 g/t gold and 27.7 g/t silver over 1.00 m (KL-12-125)
BYG	800	310	6.29 g/t gold and 342 g/t silver over 1.43 m (KL-11-063)
Western BYG	250	115	5.96 g/t gold and 45 g/t silver over 0.77 m (KL-15-253)
Eastern BYG	450	100	2.09 g/t gold and 5.68 g/t silver over 2.57 m (KL-14-234)
Dickson	450	100	7.08 g/t gold and 127 g/t silver over 1.00 m (KL-12-86)
HERC	460	310	3.39 g/t gold and 205 g/t silver over 2.28 m (KL-12-095)
Chevron	250	90	3.97 g/t gold and 95.4 g/t silver over 1.26 m (KL-12-120)
Stroshein	450	280	5.29 g/t gold and 10.97 g/t silver over 3.09 m (KL-16-300)
Rex	?	60	10.55 g/t gold and 44.7 g/t silver over 1.42 m (KL-16-314)
Pearl	320	270	5.28 g/t gold and 1,054 g/t silver over 1.60 m (KL-19-439)

All of the mineralized zones listed above begin at or near surface and are open to expansion along strike and to depth.

Although significant drill intersections have been obtained from twelve main mineralized zones found to date, the focus of the most diamond drilling has been the BRX and Klaza zones. Descriptions of the mineralized zones are describes below. Drill sections are included for the Western BRX, Central BRX, Eastern, Western Klaza and Central Klaza zones in Figures 26 to 31, respectively.

The **BRX Zone** has been traced for approximately 2,400 m along strike and been tested to a maximum depth of 520 m down-dip. Mineralization is associated with a laterally extensive northwest striking and moderately to steeply southwest dipping feldspar porphyry dyke. Veins occur on the margins of that dyke and, where the dyke bifurcates, the number of veins increases which sometimes results in wider mineralized intervals.

The ***Western BRX Zone*** consists of quartz veins and vein zones that contain pyrite, arsenopyrite, galena, sphalerite, chalcopyrite and sulphosalts. Carbonate gangue facies in these veins are manganiferous carbonates. Figure 26 illustrates the geometry of mineralization defining this zone. The best intersect is in KL-17-401, which returned 192.00 g/t gold and 608 g/t silver over 0.91m. When combined with adjacent minor veins, the interval becomes 94.09 g/t gold and 545 g/t silver over 0.91 m. KL-14-238 intersected multiple veins within an 18.5 m interval that averaged 2.19 g/t gold and 120 g/t silver. The best of the veins in that interval graded 16.29 g/t gold and 1435 g/t silver over 1.37 m. KL-14-238 intersected the zone 520 m down-dip from surface.

The ***Central BRX Zone*** features veins and vein zones that are dominated by quartz, pyrite and iron-rich carbonates (ankerite and siderite). Pyrite, sphalerite and galena are the main sulphide minerals, while arsenopyrite and sulphosalts are absent or present in only minor quantities. Figure 27 shows a type section depicting the geometry of the mineralized veining relative to the dyke. The best intervals from the Central BRX Zone came from KL-12-114, which graded 11.30 g/t gold and 233 g/t silver over 1.52 m and KL-14-197 which returned 6.76 g/t gold and 978 g/t silver over 0.73 m.

The ***Eastern Zones*** consist of stacked sub-parallel quartz veins and veinlets that form a broad, bulk-tonnage style vein zone. Mineralized veins typically host pyrite, arsenopyrite, galena, sphalerite ± chalcopyrite and sulphosalts. Carbonate gangue facies in these veins are a mix of manganiferous and iron-rich carbonates (rhodochrosite and ankerite). Due to widespread veining that is difficult to correlate across drill holes, the Eastern Zones are best interpreted using grade histograms, as seen on Figure 28. Highlight drill results from this area include 6.86 g/t gold and 153 g/t silver over 2.27 m, and 2.25 g/t gold and 40 g/t silver over 12.58 m (KL-12-114). Drilling in 2019 encountered bulk-tonnage style vein zones, with the best results grading 19.40 g/t gold and 240 g/t silver over 0.69 m (KL-19-460) and 0.67 g/t gold and 8.7 g/t silver over 29.40 m (KL-19-450).

The mineralogical differences between the Western BRX and Central BRX zones suggest some degree of vertical off-set along a major cross-fault, separating the two segments of the zone.

The **Klaza Zone** is located about 800 m northeast of the BRX Zone. The zone has been tested along section lines spaced approximately 50 m apart. The three sub-zones – Eastern Klaza Zone, Central Klaza Zone and Western Klaza Zone each have a distinct style of mineralization that is believed to reflect their respective distances from the hydrothermal centre. The Central and Western Klaza zones are off-set by the northeasterly trending cross-faults that separate the corresponding sections of the BRX Zone.

The ***Western Klaza Zone*** is defined by two narrow high-grade silver-gold bearing veins (extending west from section KL 9+900). Unlike other zones in the KVS, these veins are not emplaced alongside feldspar porphyry dykes and they are not flanked by the type of sheeted veining seen elsewhere in the Klaza Zone. The mineral assemblages in the Western Klaza Zone contain higher proportions of arsenopyrite and sulphosalts than are common further east in the Klaza Zone, which result in significantly higher silver:gold ratios. Highlight drill intercepts from this zone include 4.51 g/t gold and 332 g/t silver over 7.12 m, including 13.75 g/t gold and 357 g/t silver over 2.11 m (KL-12-115); and 15.38 g/t gold and 741 g/t silver across 1.46 m (KL-14-220). Figure 29 illustrates the geometry of mineralization defining this zone.

Mineralization in the ***Central Klaza Z*****one** (east of section KL 9+900 m and west of section KL 10+500 m) is hosted within a laterally extensive complex of steeply dipping veins, breccias and sheeted veinlets, which are associated with a swarm of feldspar porphyry dykes. The strongest veins are typically found along dyke margins. Pyrite, arsenopyrite, galena and sphalerite are the main sulphide minerals in this sub-zone. Drilling highlights from this zone include 182.00 g/t gold and 231 g/t silver over 0.61 m (KL-17-376) and 11.90 g/t gold and 5.23 g/t silver across 6.70 m (KL-12-133). Figures 30 and 31 show the geometry of the mineralized veining relative to the dyke

The ***Eastern Klaza Zone*** (extending east from section KL 10+500) lies closest to the hydrothermal centre and is characterized by gold-silver bearing veins forming a broad, sheeted complex. The mineral assemblages and precious metal contents in this area are distinguished from those of the Central Klaza Zone in two ways: 1) sulphide veins are dominated by pyrite with lesser galena and arsenopyrite; and 2) silver:gold ratios are lower than in the Central Klaza Zone. The best drill result from the Eastern Klaza Zone graded 1.43 g/t gold and 2.69 g/t silver over 18.03 m (KL-12-121).

The **BYG Zone**, located 125 m to the south, approximately parallels the Klaza Zone. It is divided into two parts, which are described below.

The ***Central BYG Zone*** has been traced 650 m along strike and is associated with a series of siliceous, brown coloured feldspar porphyry dykes. The Central BYG Zone is slightly discordant to the Klaza Zone, and no work has been done along its eastern projection to determine if it coalesces with the Klaza Zone or crosscuts it and continues to the east. The best intersects graded 4.57 g/t gold and 51.6 g/t silver across 3.97 m (KL-10-05), 6.29 g/t gold with 309 g/t silver across 1.43 m (KL-11-063) and 5.51 g/t gold and 141 g/t silver across 2.95 m (KL-15-265).

The ***Western BYG Zone*** parallels the Western Klaza Zone and has been traced for 250 m. It is associated with the same siliceous feldspar porphyry dykes as the Central BYG Zone. The best drill intercept graded 11.22 g/t gold with 10.6 g/t silver over 1.68 m (KL-14-224).

The **Herc Zone** has only been tested by two diamond drill holes spaced approximately 300 m apart. These holes were originally designed to intersect the Pika Zone, but were extended to reach the Herc Zone. Both holes cut vein-style mineralization, approximately 300 m down-dip of trench exposures. The best result from drilling was an interval that graded 3.39 g/t gold and 205 g/t silver over 2.28 m (KL-12-095).

The **Pika Zone** lies between the Herc Zone to the north and the BRX Zone to the south. This zone displays strong continuity across widely-spaced drill holes, over a strike length of 740 m and to a depth of 250 m. The best drill results from this zone are 2.25 g/t gold and 40 g/t silver across 12.58 m, including 9.55 g/t gold and 137 g/t silver over 1.00 m. and 11.3 g/t gold and 233 g/t silver over 1.52 m (KL-12-114).

The **AEX Zone** is located approximately 150 to 200 m south of the BRX Zone. It is one of the largest zones on the property with a drill indicated strike length of 1,650 m. The best drill intersects from the AEX Zone graded 9.03 g/t gold and 27.7 g/t silver over 1.00 m (KL-12-091) 26.9 g/t gold and 576 g/t silver over 0.42 m (KL-15-248).

The **Dickson Zone** has been tested by 10 drill holes in three areas located approximately 2,000 m apart. The deepest intersect to date, found at the ***Eastern Dickson Zone***, is 115 m down-dip of surface and returned 7.08 g/t gold and 127 g/t silver over 1.00 m (KL-12-86). Limited drilling in the ***Western Dickson Zone*** has returned up to 2.37 gold and 34.4 g/t silver over 1.23 m (KL-12-01). Only two drill holes have tested the inferred area of the ***Central Dickson Zone*** to date. The best result from this area was 3.17 g/t gold and 40 g/t silver over 0.98 m (KL-17-379). Two drill holes were drilled in the Eastern Dickson Zone in 2019. One of these holes was designed to test the Chevron Zone, but was extended to hit the Eastern Dickson Zone. The best results from these holes graded 1.53 g/t gold and 10.2 g/t silver over 7.05 m, including 11.4 g/t gold and 48.2 g/t silver over 0.30 m and 4.15 g/t gold and 23.1 g/t silver over 1.33m (KL-19-465).

The **Chevron Zone** hosts multiple vein structures that have been tested by seven diamond drill holes across the wester, central and eastern sub-zones. Two diamond drill holes have been completed in the ***Western Chevron Zone***, with the best results grading 3.97 g/t gold and 94 g/t silver over 1.26 m (KL-12-120). A total of two drill holes have also been completed in the inferred area of the ***Central Chevron Zone***. The best result from this area graded 1.56 g/t gold and 444 g/t silver over 0.5 m (KL-17-386). In the ***Eastern Chevron Zone***, five drill holes have been completed, two of which were drilled in 2019. The best result from this area was 7.08 g/t gold and 127 g/t silver over 1 m (KL-12-086).

The **Stroshein Zone**, located 100 m south of the Eastern Klaza Zone, has been tested by nine drill holes along approximately 450 m of strike length, to a down-hole depth of 281.91 m. This zone lies along a magnetic low and is supported by anomalous soil geochemical results. The best results from this zone graded

The **Rex Zone** is located approximately 1,100 m south of the Eastern BRX Zone, and represents the most southerly vein zone identified to date in the KVS. The discovery hole, KL-16-314, encountered three near surface veins with the best intersect returning 10.55 g/t gold and 44.7 g/t silver over 1.42 m. Three additional holes were drilled around the original collar to determine the orientation of the Rex veining. Hole KL-17-434 intersected three veins shallower than 45 m in depth. The best of these zones graded 9.31 g/t gold and 7 g/t silver over 0.61 m.

The **Kelly Zone** has been tested by three diamond drill holes. The best results came from hole KL-12-134, which averaged 0.14 g/t gold, 2.7 g/t silver, 0.15% copper, and 0.010% molybdenum over 95.15 m. Following favorable results from the IP survey in 2016, two additional diamond drill holes (KL-16-309 and KL-16-314) were collared 950 metres apart, to test parts of the chargeability and resistivity anomalies. Porphyry-style mineralization in these holes consists primarily of veins and veinlets hosting pyrite with lesser chalcopyrite and rare coarse-grained native arsenic. Assays from intervals within the chargeability anomaly yielded weakly elevated levels of copper and gold.

Work Areas 3, 4 and 6

Small diamond drilling programs have taken place in Work Areas 3, 4, and 6. The diamond drill programs conducted on Work Areas 3, 4 and 6 are summarized in the Exploration History Section of this report and are described in more detail in: Burrell, 2013a; Robinson, 1959; McClintock, 1986; Heberlein and Lyons, 1986; Langdon, 1992; and Stroshein, 2008. Table 17 shows significant drill results from these programs

Table 17: Significant Drill Results – Outside of Work Area 2

Hole	Type	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone	Work Area	Claims
DDH-12-02	Diamond	38.71	41.76	3.05	2.05	-	V1	3	Dade
DDH-12-09	Diamond	9.7	11.07	1.37	2.45	-	V1	3	Dade
DDH-12-14	Diamond	13.54	14.74	1.2	2.44	-	V1	3	Dade
RCH-12-21	RC	47.00	48.52	1.52	5.32	-	V1	3	Dade
DOWS-88-1	Diamond	-	-	7.5	2.43	-	-	6	Sked
DDH-96-2	Diamond	-	-	2.61	5.51	13.13	-	6	Sked
DDH-96-6	Diamond	-	-	5.9	6.64	-	-	6	Sked

PERCUSSION DRILLING

In 2011, 2,940 m of reverse circulation percussion drilling were completed in 21 widely spaced holes. Most of this drilling tested across magnetic lows located in an overburden-covered area, in the Klaza River valley, along strike to the west of the KVS. Percussion drilling was completed by Midnight Sun Drilling Ltd. of Whitehorse, Yukon. This drilling was done using a track-mounted, diesel-powered reverse circulation percussion drill. The locations of the percussion holes are shown on Figure 32 overlain by first vertical derivative magnetic results.

The best intersects from percussion drilling were from PDH-11-02 and PDH-11-03 which returned up to 0.481 g/t gold, 19.1 g/t silver and greater than 10,000 ppm lead over 1.5 m, and 0.395 g/t gold, 14.3 g/t silver and 952 ppm lead over 1.5 m, respectively. Two five-foot intervals that returned anomalous values for gold and lead were re-assayed after gold-panning the remaining percussion chips into a concentrate. Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis are in Appendix IV.

GEOTECHNICAL AND HYDROGEOLOGICAL TESTING

In 2015, five groundwater monitoring wells (KL-15-289, KL-15-290 and KL-15-292 to KL-15-294) were installed in diamond drill holes, immediately adjacent to the current deposit areas by EBA Engineering Consultants Ltd (EBA Engineering) of Whitehorse. Also in 2015, vibrating wireline piezometers (VWP) were installed in four drill holes (KL-15-252 through KL-15-255) to monitor ground water levels and a thermistor was installed in another hole (KL-15-257) to monitor seasonal frost variations. Packer tests were conducted on the VWP holes in order to determine the hydraulic conductivity of the various rock units. Surface water testing, ground water levels and thermistor readings were collected on a quarterly basis up until 2017. A summary, compiled by EBA Engineering, of packer test data and analysis can be found in Tarswell et al., 2015.

A Reflex ACT III downhole digital core orientation system was used in 2014 and 2015 to orient the core in a total of 46 holes. In 2015, 18 of the 19 oriented holes were drilled using split tubes. The use of split tubes allowed orientation measurements to be collected across incompetent intervals or intervals with poor recovery. Split tube intervals were oriented by Archer Cathro employees at the drill sites. The core tube was first aligned by the driller's helper using the ACT III tool before the split tube was extracted from the core tube. Care was taken to not shift the core during this process. A line representing the top of the hole was marked down the length of the core by the Archer Cathro employees. Structural orientation measurements within the interval were taken prior to the core being transferred to core boxes.

BASELINE WATER QUALITY AND WEATHER DATA COLLECTING

In March 2012, Rockhaven contracted J.Gibson Environmental Consulting to begin conducting baseline water quality surveys on the surface waters draining the Property from 10 sites. The baseline survey tests for routine chemistry, total and dissolved metals, total organic carbon and total cyanide, pH measurements, water temperature and flow volumes. This testing expanded to quarterly tests on the Property across 11 sites.

In June 2013, an Onset Hobo weather station was installed by J.Gibson Consulting to collect continuous weather data. The station measures wind speed, wind gusts, wind direction, solar radiation, relative humidity, temperature (minimum and maximum) and rainfall precipitation. No data has been collected since 2017.

MINERAL PROCESSING AND METALLURGICAL TESTING

Multiple advanced mineralogical and metallurgical testwork campaigns have been conducted on samples from various parts of the KVS. Initial work was conducted by SGS Canada Ltd. (SGC), with follow-up work performed by Blue Coast Research (Blue Coast). The test programs have included quantitative mineralogical examination, gravity recovery, cyanide leaching, flotation testing (both batch and locked cycle), pressure oxidation and an initial evaluation of pre-concentration methods.

In 2014, Rockhaven contracted SGS to conduct basic scoping flotation and leaching testwork on four drill core composites: two from the Klaza Zone and two from the BRX Zone.

From 2015 to 2018, Rockhaven contracted Blue Coast to conduct in-depth metallurgical testwork programs on composites prepared from representative core samples from a number of zones within the KVS. The majority of testing was focused on samples from the Eastern and Western BRX and the Central and Western Klaza zones. Drill holes that were selected for use in representative composite samples and pre-concentration testing are shown on Figure 33. Results from this work suggested that pre-concentration is a promising opportunity for the project, and further investigation is warranted (Cruz and Turner, 2017). The overall response of the project-wide composite, in terms of key metal recoveries, is shown below in Table 18 (Ross et al, 2018).

Table 18: Summary of metal recovery to dore and concentrates

	Lead	Zinc	Silver	Gold
Pb to lead concentrate	85%			
Zn to zinc concentrate		85%		
Au to doré				87%
Au to lead concentrate				4%
Au to zinc concentrate				5%
Ag to doré			11%	
Ag to lead concentrate			53%	
Ag to zinc concentrate			27%	
Total Metal Recoveries to payables products	**85%**	**85%**	**91%**	**96%**

MINERAL RESOURCE ESTIMATION

In January 2015, Rockhaven announced a maiden inferred mineral resource estimate was completed for the Western and Central Klaza, Western BRX, Central BRX and a portion of the Eastern zones (Wengzynowski et al., 2015). In December of the same year, Rockhaven released an updated mineral resource estimate for portions of the Klaza and BRX zones (Ross, 2016).

In 2018, another updated mineral resource estimate was completed for the Western and Central Klaza and BRX zone, using the results of drilling carried out on the property is shown in Tables 22 and 23, and a breakdown by mineralized zones is given in Tables 24 to Table 27. The mineral resource estimation was completed by Adrienne Ross, P. Geo (of AMC Mining

Consultants Ltd.) who is a Qualified Person (QP) and independent of Rockhaven, based on the criteria defined by National Instrument 43-101.

Table 19: Indicated Resource in Pit-Constrained and Underground

	Tonnes (kt)	Grade				
		Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Au EQ (g/t)
Pit-Constrained	2,447	5.3	90	0.7	1.00	6.7
Underground	2,010	4.2	108	0.8	0.9	5.8
Total	**4,457**	**4.8**	**98**	**0.7**	**0.9**	**6.3**
	Tonnes (kt)	**Contained Metal**				
		Au (koz)	**Ag (koz)**	**Pb (klb)**	**Zn (klb)**	**Au EQ(koz)**
Pit-Constrained	2,447	414	7,096	39,143	52,935	529
Underground	2,010	272	6,974	34,125	39,172	379
Total	**4,457**	**686**	**14,071**	**73,268**	**92,107**	**907**

Table 20: Inferred Resource in Pit-Constrained and Underground

	Tonnes (kt)	Grade				
		Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Au EQ (g/t)
Pit-Constrained	1,754	2.6	43	0.4	0.5	3.3
Underground	3,960	2.8	90	0.7	0.8	4.2
Total	**5,714**	**2.8**	**76**	**0.6**	**0.7**	**3.9**
	Tonnes (kt)	**Contained Metal**				
		Au (koz)	**Ag (koz)**	**Pb (klb)**	**Zn (klb)**	**Au EQ(koz)**
Pit-Constrained	1,754	147	2,429	14,897	18,599	187
Underground	3,960	359	11,472	62,647	70,578	538
Total	**5,714**	**507**	**13,901**	**77,554**	**89,176**	**725**

Table 21: Indicated Mineral Resources (grade) as of December 31, 2017 by Zone

Zone	PC/UG	Tonnes (kt)	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	AuEQ (g/t)
Western BRX	Pit-Constrained	759	9.5	109	0.9	1.0	11.2
	Underground	510	6.7	122	0.9	1.1	8.5
	Total	**1,269**	**8.4**	**115**	**0.9**	**1.0**	**10.1**
Central BRX	Pit-Constrained	289	2.9	150	0.8	1.3	5.1
	Underground	424	1.9	106	1.0	1.1	3.6
	Total	**713**	**2.3**	**124**	**0.9**	**1.2**	**4.2**
Western Klaza	Pit-Constrained	139	4.8	234	0.8	0.9	7.8
	Underground	361	4.0	181	0.6	0.7	6.4
	Total	**500**	**4.2**	**195**	**0.6**	**0.8**	**6.8**
Central Klaza	Pit-Constrained	1,260	3.3	49	0.6	0.9	4.3
	Underground	715	3.9	62	0.6	0.7	5.0
	Total	**1,976**	**3.5**	**54**	**0.6**	**0.9**	**4.5**

Table 22: Indicated Mineral Resources (contained metal) as of December 31, 2017 by Zone

Zone	PC/UG	Au (koz)	Ag (koz)	Pb (klb)	Zn (klb)	AuEQ (koz)
Western BRX	Pit-Constrained	232	2,671	15,312	16,201	273
	Underground	110	2,001	10,341	11,920	140
	Total	**341**	**4,672**	**25,653**	**28,120**	**414**
Central BRX	Pit-Constrained	27	1,396	5,029	8,141	47
	Underground	26	1,443	9,793	10,171	50
	Total	**53**	**2,838**	**14,822**	**18,312**	**97**
Western Klaza	Pit-Constrained	21	1,043	2,388	2,722	35
	Underground	47	2,099	4,440	5,773	74
	Total	**68**	**3,142**	**6,828**	**8,495**	**109**
Central Klaza	Pit-Constrained	133	1,987	16,414	25,871	173
	Underground	90	1,432	9,550	11,309	114
	Total	**223**	**3,419**	**25,964**	**37,180**	**288**

Table 163: Inferred Mineral Resources (grade) as of December 31, 2017 by Zone

Zone	PC/UG	Tonnes (kt)	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	AuEQ (g/t)
Western BRX	Pit-Constrained	369	4.7	54	0.5	0.6	5.6
	Underground	974	3.7	93	0.7	0.9	5.2
	Total	**1,343**	**4.0**	**82**	**0.7**	**0.8**	**5.3**
Central BRX	Pit-Constrained	238	1.9	99	0.7	0.8	3.4
	Underground	1,187	1.7	102	1.0	0.9	3.3
	Total	**1,425**	**1.7**	**102**	**1.0**	**0.9**	**3.3**
Western Klaza	Pit-Constrained	2	1.8	118	0.3	0.6	3.3
	Underground	227	3.9	170	0.5	0.8	6.1
	Total	**542**	**3.8**	**169**	**0.5**	**0.8**	**6.0**
Central Klaza	Pit-Constrained	1,145	2.1	28	0.3	0.4	2.6
	Underground	1,572	3.0	68	0.5	0.7	4.1
	Total	**2,717**	**2.6**	**51**	**0.4**	**0.6**	**3.4**

Table 24: Inferred Mineral Resources (contained metal) as of December 31, 2017 by Zone

Zone	PC/UG	Au (koz)	Ag (koz)	Pb (klb)	Zn (klb)	AuEQ (koz)
Western BRX	Pit-Constrained	56	644	3,915	4,884	67
	Underground	116	2,906	16,044	19,976	162
	Total	**172**	**3,550**	**19,958**	**24,859**	**228**
Central BRX	Pit-Constrained	15	760	3,795	3,993	26
	Underground	64	3,896	26,215	23,401	126
	Total	**79**	**4,656**	**30,010**	**27,394**	**152**
Western Klaza	Pit-Constrained	0	8	12	26	0
	Underground	28	1,240	2,440	3,817	44
	Total	**28**	**1,248**	**2,452**	**3,842**	**44**
Central Klaza	Pit-Constrained	76	1,107	7,176	9,696	94
	Underground	151	3,431	17,948	23,385	206
	Total	**227**	**4,448**	**25,124**	**33,081**	**301**

CIM definition (2014) standards were used for the Mineral Resource.
Using drilling results to December 31, 2017.
Near surface Mineral Resources are constrained by an optimized pit shell at metal prices of US$1400 oz, $19/oz Ag, $1.10/lb Pb, $1.25/lb Zn.
Cut-off grades applied to the pit-constrained and underground Resources are 1.0 g/t Au EQ and 2.3 g/t Au EQ respectively.
Gold equivalent values were calculated using the following formulas:
Central Klaza: Au EQ= 1xAu+Ag/94.40+Pb/3.38+Zn/3.21
Western Klaza: Au EQ= 1xAu+Ag/93.09+Pb/3.28+Zn/3.20
Western BRX: Au EQ= 1xAu+Ag/95.34+Pb/3.41+Zn/3.37
Central BRX: Au EQ= 1xAu+Ag/99.08+Pb/3.79+Zn/4.31
and assuming: US$1400/oz Au, US$19/oz Ag, US$1.10/lb Pb and US$1.25/lb Zn with recoveries for each metal of Au: 97%, Ag: 81%, Pb: 62% and Zn: 56%.
Numbers may not add due to rounding.
All metal prices are quoted in US$ at an exchange rate of $0.80 US to $1.00 Canadian.
Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
Source: AMC Mining Consultants (Canada) Ltd.

Grade interpolation as completed predominantly using Ordinary Kriging (OK), except for the Central Klaza Zone, where grade was interpolated using a combination of OK, Multiple Indicator Kriging (MIK), Local Multiple Indicator Kriging (LMIK) and a Restricted Ordinary Kriging (ROK). Gold, silver, lead, zinc, copper, iron and arsenic were estimated. Copper and iron were estimated to provide data for a base metal to rock density regression analysis to facilitate density modelling. Arsenic was estimated to aid metallurgical assessment. The mineral resource estimate was completed using 322 drill holes totaling 68,948 m and 27,266 assays.

Mineralized domains were constructed by Archer Cathro to constrain the continuous higher grade main structures and veins. Dyke intersections were used as a marker to help constrain the orientation and position of the mineralization. In the previous estimate, high-grade solids were built to capture only vein mineralization and often consisted of only one or two samples in a drillhole. In this estimate, the three-dimensional solids were wider and incorporated waste.

For the OK estimation, 25 of Archer Cathro's mineralization wireframes were used to constrain the interpolation.

A combination of LMIK and ROK estimation was used to model complex, splay hosted mineralization delineated by relatively limited drilling in the Central Klaza area. AMC created a new mineralization envelope for the LMIK model based on nominal 0.3 g/t AuEQ boundary and broad geological control. An intermediate MIK model incorporating change of support was used to produce a selective mining unit (SMU) model for gold and silver. ROK was used to estimate lead, zinc, copper, iron and arsenic. The MIK models were converted to simplified, localized versions of the MIK models (LMIK) to replicate recoverable panel models on the SMU block dimensions, and then incorporating the ROK modelled elements as required.

The estimations were carried out using Datamine software, with Ordinary Kriging ("OK") employed as the interpolation method. A 3D block model with sub-celling was used. The search parameters chosen for the estimations were based on the drill spacing and variography. Data density allowed for only inferred resources to be classified.

A detailed description of the methodology used to calculate the current mineral resource can be found in the technical report entitled "Technical Report Describing Updated Diamond Drilling, Metallurgical Testing and Mineral Resources on the Klaza Property, Yukon, Canada" (Ross et al., 2018)

DISCUSSION AND CONCLUSIONS

The Klaza property is situated in an active placer gold mining camp and historical hardrock gold and silver mining district, which lie within the southern portion of the Dawson Range Gold Belt. Other important areas within this belt include the prolific Klondike Goldfields, the Casino porphyry copper-gold-molybdenum deposit and the Coffee gold deposit.

The KVS hosts a significant gold-silver deposit within a 100% owned and road-accessible claim block. The current mineral resource is defined within portions of the BRX, Klaza and BYG zones, which are three of twelve main mineralized structures identified to date within the KVS. New discoveries continue to be made within the KVS, with the Stroshein and Rex Zone discoveries in 2016 and the Pearl, Victoria and Rusk zones in 2017.

Mineralization is part of a porphyry to epithermal transition model, with the Late Cretaceous aged Mount Nansen Porphyry Complex (Cyprus and Kelly porphyry systems) considered to be the primary heat source for vein mineralization on the property. Although vein mineralization is complex, the continuity of vein zones in the KVS is remarkably planar and cohesive, both laterally and vertically. Gold and silver distribution varies throughout the KVS, but the highest values for both metals are mostly clustered within the western parts of the BRX and Klaza zones.

Mineralogical work on samples of sulphide material taken from the zones comprising the mineral resource has shown that gold occurs in multiple forms: as discrete (free) grains, as electrum, and as refractory gold predominantly found in arsenopyrite and pyrite. Silver occurs primarily as tetrahedrite, but is also found as electrum and in silver-bearing sulphides. Base metal mineralogy is dominated by galena, sphalerite and chalcopyrite.

Metallurgical work completed to date includes conventional gravity separation, cyanide leaching, flotation tests (batch and locked cycle), pressure oxidation tests, and preliminary work on dense media separation. Flotation work has focused on producing lead, zinc and gold-rich bulk sulphide concentrates through sequential flotation. Locked-cycle tests have yielded promising recoveries and grades. Pressure oxidation and subsequent leaching have confirmed recovery for the refractory gold components. Overall projected recoveries to saleable products based on locked-cycle testing of the full flowsheet are 96% for gold, 91% for silver and 85% for lead and zinc.

Variability work suggests that mineralization from the central and western portions of the Klaza and BRX zones responds similarly and is represented well by the Project Wide Composite. Minimal test work has been conducted on the Eastern Zones, and follow-up work is underway to evaluate opportunities to maximize recovery from that portion of the mineral resource.

The KVS can be best categorized as an Intermediate Sulphidation epithermal deposit. This deposit type includes multi-million ounce gold deposits such as the Comstock Lode (Walker Lane, Nevada), Fruita Del Norte (Suarez pull-apart basin, Ecuador) and the Marmato (Middle Cauca Belt, Columbia Marmato) deposits. The KVS also shares some characteristics of Low Sulphidation epithermal deposits (presence of abundant arsenopyrite), indicating there is a transitional IS to LS component to mineralization. LS epithermal deposits also include multi-million ounce gold deposits, such as Barrick Gold's Porgera Mine (Papua New Guinea), Rio Tinto's formerly producing Kelian Mine (Indonesia) and Continental Gold's Buritica project (Colombia).

The KVS and known IS deposits feature multiple precious metal-rich structures that are formed on the peripheries of porphyry systems. These deposits typically have high silver:gold ratios. Structural controls, along with a significant heat source to generate and transport mineralizing

hydrothermal fluids are key factors in facilitating precious metal deposition over large vertical extents, up to one kilometre. Base metals are also common in this type of deposit.

All of the veins comprising the current mineral resource and unquantified mineralized zones elsewhere in the KVS are open for expansion along strike and to depth. The mineralized system is known to have a vertical extent of at least 520 m down-dip, and high-grade precious and base metal intercepts at depth indicate the mineralized system continues to depth. There is excellent potential to significantly increase the current mineral resource through continued low-cost drilling. In addition, many geochemical and geophysical anomalies outside of those associated with the known mineralized structures have yet to be explored.

Ongoing exploration at the KVS has largely been directed by results of airborne and ground-based geophysical surveys. Magnetic lows and VLF-EM conductors are strongly associated with known vein zones and associated porphyry dykes, while chargeability highs and resistivity lows have effectively outline the western edge of the Kelly Porphyry. These surveys have also identified numerous untested linear magnetic lows within and adjacent to the KVS, which parallel the orientation of known structural zones.

Similar magnetic low signatures are found in outside of the KVS, at the Val and Rusk targets, highlighting targets for future exploration. Both targets also have coincident arsenic- and gold-in-soil values, and warrant additional exploration.

Geophysical surveys have also been successful in outlining cross-faults, which offset mineralization. The sense of movement along these faults is poorly understood, and analysis of the geophysical data has led to a number of hypotheses in regards to displacement of the mineralized zones. Determining the exact orientations and probable offsets of these cross-faults should be a priority for future work programs.

In 2019, diamond drilling was focused on infill drilling at the Eastern Zones, and exploration drilling at the Pearl, Eastern Chevron and Eastern Dickson zones. Drilling at the Eastern Zones successfully cut high-grade vein and bulk-tonnage style mineralization, which can potentially be used for future mineral resource estimation. Exploration drilling successfully expanded distal epithermal mineralization at the Pearl Zone, which has been expanded to a strike length of 320 m and to a depth of 270 m down-dip. Limited drilling at the Eastern Chevron and Eastern Dickson zones successfully intersected near-surface gold-silver mineralization.

Further work on the property is unquestionably warranted, and should follow the following recommendations:

1) Infill drilling data from the 2019 drill program at the Eastern Zones should be assessed and, pending positive outlook, integrated into the resource calculation at the KVS.

2) Continued drilling and metallurgical work should be completed on the east side of the mineral resource area (Eastern Klaza Zone) in order to integrate this mineralization into mineral resource estimates, mine plans and process flow sheets. Taking into account the

results from the previous PEA, additional work should also be conducted to assess mineralization around the envisioned open-pits.

3) Additional drilling outside of the currently defined resource should consider the following proposed targets:

    a. Extending the bounds of the current mineral resource to greater depths. These holes should include the Western BRX and Western Klaza zones due to the tenor of mineralization in the deepest holes being well above the average deposit grades, and no indications that mineralization is waning at depth.

    b. Northwesterly extensions of the Western BRX and Western Klaza zones. A series of widely spaced holes that attempted to trace the Western BRX Zone to the northwest across a major cross-fault intersected vein zones, but it is unclear whether these zones are part of the BRX structure. More drilling warranted to the northwest of the cross-fault to assess potential for extension along strike of the BRX, Klaza and other mineralized zones.

    c. Additional drilling should be conducted to further evaluate the Pearl Zone, which returned economic gold and silver grades over widths comparable to veins already identified in the KVS.

    d. Exploration drilling should be conducted on the Rusk target to evaluate 1,800 by 1,500 m area of strongly anomalous arsenic and gold soil geochemical results. A fence of holes should be drilled across this anomaly to test for KVS-style veining.

    e. Exploration drilling should be conducted on the Victoria target, pending the completion of geological mapping in the area.

4) Geological mapping, prospecting and soil geochemical surveys should be conducted outside of the known veins at the KVS in order to generate new drilling targets. Particular emphasis should be given to the Sked, Val and Queen claim areas, where historical prospective exploration work has never been systematically followed up. First-pass contour soil sampling across untested areas in the southern half of the property would be an effective method for generating new grassroots targets.

5) An induced polarization survey across the Kelly Zone and a helicopter-borne magnetic and radiometric survey in the area of the Desk/Sked claims should be completed.

Additional work should be carried out to further the understanding of the KVS. In August 2017, a student began data and sample collection for a Masters project through Laurentian University. This study included detailed geochronology, petrographic and fluid inclusion work, and re-logging older core to reflect current conventions. In 2019, a Ph.D. program designed to research the potential for economic porphyry mineralization on the property, the overall paragenesis of the KVS and age dating of Casino Suite intrusions was initiated. Future studies should include an in-depth analysis of metal and associated element ratios within the mineralized zones in order

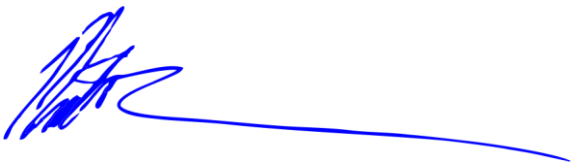
to establish vertical and lateral vectoring tools for continued deposit expansion and discovery of new mineralization elsewhere on the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

K. Willms, B.Sc., GIT.

Matthew Turner, B.Sc.



REFERENCES

Aho, A.E., Mukans, V., and Reamsbottom, S.B.
1975 Geology of the Rico Claim Group; Assessment Report by Kerr Addison Mines Limited, Assessment Report #091915.

Alexco Resources Ltd.
2019 News Release: "Alexco Reports First Quarter 2019 Results"

Archer, A, R. and Onasick, E.P.
1980 NAT Joint Venture Final Report; Internal report prepared by Archer, Cathro & Associates Ltd. for Chevron Canada Limited and Armco Mineral Exploration Ltd.

Bostock, H.S.
1936 Carmacks District, Yukon; Geological Survey of Canada, Memoir 189.

Bond, J
2014 Yukon Geological Survey; Unpublished Placer Production Statistics.

Brent, D.
1991 Assessment Report on Grizzly 1-24 claims, Whitehorse Mining Division; Prepared for E. Curley, Assessment Report #092945.

Brownlee, D.J.
1981 Assessment report on a geophysical survey on the Tawa property; Whitehorse Mining District, Yukon Territory; Report prepared for BRX Mining and Petroleum Corp.; Assessment Report # 090909.

Burrell, H.
2013a Assessment Report describing reverse circulation and diamond drilling at the Dade Property; Prepared by Archer, Cathro & Associates (1981) Ltd for Strategic Metals Ltd., Assessment Report #096434.
2013b Assessment Report on the BBB property; Prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
2014 Assessment Report on the BBB property; Prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.

Campbell, D.D. and Guardia, F.
1969 Summary report on the May group claims; Whitehorse Mining District, Yukon Territory; Report prepared for Esansee Explorations Limited, Assessment Report #060737.

Carlson, G.G.
1987 Geology of Mount Nansen (115I/3) and Stoddart Creek (115I/6) map areas, Dawson Range, central Yukon; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1987-2.

Carlyle, L.W.
1997 Trench mapping and sampling report on Ang 1-20 claims; report prepared by L.W. Carlyle for E. Curley.

Cathro, R.J.
1974 Regional Exploration in the Dawson Range District, Yukon for Klotassin Joint Venture; Internal report prepared by Archer, Cathro & Associates Ltd.

Cathro, R.J. and Culbert, R.E.
1969 Summary report on the 1969 field program; Dawson Range Joint Venture Project, Yukon Territory.
1976 1975 Regional Exploration in the Dawson Range District, Yukon for Klotassin Joint Venture; Internal report prepared by Archer, Cathro & Associates Ltd.

Chung, C.
2011 Assessment Report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.

Colpron, M and Nelson, J.L.
2006 Paleozoic evolution and metallogeny of pericratonic terranes at the ancient Pacific margin of North America, Canadian and Alaskan Cordillera; Special Paper: Geological Association of Canada, 45, page 523.
2011 A digital atlas of terranes for the Northern Cordillera; Yukon Geological Survey and BC Geology Survey, BCGS GeoFile 2011-11 http://www.geology.gov.yk.ca/pdf/CanCord_terranes_2011.pdf

Corbett, G.J. and Leach, T.M.
1998 Southwest Pacific Rim gold-copper systems: Structure, alteration and mineralization; Economic Geology, Special Publication 6, 238 p., Society of Economic Geologists.

Curley, E.
1987 Prospecting and Exploration Report on the Jam Claims; Assessment Report #092515.

Dadson, P. and Amy, C.
2012 Assessment report on the 2011 trenching, diamond drilling and soil sampling program on the Etzel Property, Whitehorse Mining District, Yukon Territory; Report prepared for Great Bear Resources Ltd.

Deklerk, R. (compiler)
2004 Yukon MINFILE – A database of mineral occurrences. Yukon Geological Survey, CD-ROM (http://data.geology.gov.yk.ca)

Deklerk R. and Traynor S.
2005 Yukon MINFILE – A database of mineral occurrences. Yukon Geological Survey, CD-ROM.

Dickinson, R.A. and Jilson, J.G.
1973 Drill hole logs filed for assessment work; Assessment report by Area Exploration Company; Assessment Report #091327.

Dickinson, R.A., and Lewis, P.F.
1973 Assessment report on percussion drilling on the Mount Nansen Property; Report prepared by Area Exploration Company.

Dumala, M., Tarswell, J. and Turner, M.
2015 Assessment report describing diamond drilling, excavator trenching, and geotechnical work at the Klaza Property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

Dujakovic, Z., Visser, S. and Ewen, E.
1996 Assessment report describing Magnetometers, VLF-EM, and Geochem Surveys on the KR 1-238 Claims; Report prepared for BYG Natural Resources Inc. by SJV Consultants Ltd., Assessment Report #093516.

Dujakovic, Z. and Visser, S.
1996 Magnetometer and VLF-EM Survey on the Cow Claims 1-64; Report prepared for Conquest Yellowknife Resources Ltd. By Dujakovic, Z and Visser, S., Assessment Report #093541.

Eaton, W.D.
1986 Assessment report on geology, geochemistry, geophysics and bulldozer trenching on the Tawa property, Whitehorse Mining District, Yukon Territory; Report prepared for Freegold Venture, Assessment Report #091889.
1989 Tawa Property – 1989 Final Report; Report prepared for Chevron Minerals Ltd.

Eaton, W.D., and Walls, M.J.
1987 Assessment report on road construction and trenching on the Tawa property, Whitehorse Mining District, Yukon Territory; Report prepared for Chevron Minerals Ltd. and BYG Natural Resources Inc.; Assessment Report #092083.
1987 Nansen Project Final Report; Assessment Report #092122
1988 Assessment report on the Tawa property, Whitehorse Mining District, Yukon Territory; Report prepared for Chevron Minerals Ltd. and BYG Natural Resources Inc.; Assessment Report #092585.

Ellemers, M. and Stroshein, R.
2005 Assessment Report on diamond drilling on the Vic mineral claims, Discovery Creek Project; Report prepared for Aurchem Exploration Ltd., Assessment Report #095593.

Environment Canada
2015 http://climate.weather.gc.ca/climate_normals/results_1961_1990_e.html?stnID=1509&prov=YT&lang=e&province=YT&provBut=Go&month1=0&month2=12

Friske, P.W.B., Hornbrook, E.H.W., Lynch, J.J., McCurdy, M.W., Gross, H., Galletta, A.C. and Durham, C.C.
1985 Regional stream sediment and water geochemical reconnaissance data (115I); Geological Survey of Canada, Open File 1220.

Galambos, K.D.
1988 Geological, Geochemical & Geophysical Report 1988 on the DOWS 1-118 Claims; Assessment Report #092576.
1989 Diamond Drilling Report 1988 on the DOWS 1-16, 49,60 and 65-68 Claims; Assessment Report #092697.

Gibson, J.
2016 Baseline Water Quality / Hydrology Survey. January 2016. Report prepared by J.Gibson Environmental Consulting for Rockhaven Resources Ltd.
2016 Baseline Water Quality / Hydrology Survey. May 2016. Report prepared by J.Gibson Environmental Consulting for Rockhaven Resources Ltd.
2016 Baseline Water Quality / Hydrology Survey. September 2016. Report prepared by J.Gibson Environmental Consulting for Rockhaven Resources Ltd.
2016 Weather Data. Report prepared by J.Gibson Environmental Consulting for Rockhaven Resources Ltd.
2017 Baseline Water Quality / Hydrology Survey. January 2017. Report prepared by J.Gibson Environmental Consulting for Rockhaven Resources Ltd.

Gordey, S.P., and Makepeace, A.J.
2000 Yukon Digital Geology, 2 CD-ROM set; Geological Survey of Canada, Open File D3826 for Exploration and Geological Services Division (EGSD), Yukon Region, Indian and Northern Affairs Canada (DIAND) EGSD, Open File 1999-1(D).

Great Bear Resource Ltd.
2012a January 26, 2012 News Release; Retrieved from http://www.sedar.com

2012b October 10, 2012 News Release; Retrieved from http://www.sedar.com

Grexton, L.
1988 Trenching on the Only Claims; Report prepared for Kerr Adison Mines Ltd. Assessment Report #092584.

Heberlein, K.
1985 Assessment report on geological, geochemical and geophysical surveys on the Dic 1-63 claims, Yukon; Report prepared by Kerr Addision Mines Limited., Assessment Report #091915.

Heberlein, K. and Lyons, L.
1986 Assessment Report on geological, geophysical, geochemical, and drilling on the Vic and VG claims; prepared for G. Dickson and Kerr Addison Mines Ltd., Assessment Report #091907.

Hulstein, R.
1988 Assessment Report on geological and geochemical work on the McDade Property, Whitehorse Mining District, Yukon Territory; Prepared for G. Dickson, Assessment Report #092599.

Hulstein, R.
2003 Assessment Report on geological and geochemical work on the JRW 1-4 claims, Whitehorse Mining District, Yukon Territory; Prepared for J. Dickson, Assessment Report #094425.

Langdon, M.
1992 Assessment Report on reverse circulation drilling on Wedge 5-7, 10, Bull 6, Ras 1-2, Discovery Creek Project; Report prepared for Aurchem Exploration Ltd., Assessment Report #093059.

Lee, W-S.
2020 Finding a Porphyry in a Core Stack: Cu-Au Porphyry Potential at the Klaza Epithermal Deposit, Yukon; Ph.D. poster; Laurentian University.

Lee, W-S. et al.
2019 Yukon Exploration and Geology 2019

Mac Gearailt, D.
2012 Report on the Klaza property: 2011 prospecting and sampling program. Whitehorse Mining District, Yukon, Canada; Report prepared on behalf of Goldstrike Resources Ltd, Assessment Report # 096082.

Main, C.A.
1987 Geological and Geochemical Program on the Toast Property; Assessment Report #091973.

Mann, W.D. and Slack, J.
1996 Report on Diamond Drill Program at the Dows Gold Project, Yukon; Report prepared for Conquest Yellowknife Resources Ltd, Assessment Report # 093564.

McClintock, J.
1986 Geological and geochemical report on the Etzel and Wedge claims, Whitehorse Mining District, Yukon Territory; Report prepared for Pearl Resources Ltd., Assessment Report #091870.

Methven, G., Ross, A.A., Lebleu, P., Hughes, W., Martin, C.J., Borntraeger, B.,
2016 Technical Report and PEA for the Klaza Au-Ag Deposit, Yukon, Canada for Rockhaven Resources Ltd." prepared by AMC Mining Consultants (Canada) Ltd.

Mortensen, J.K., Hart, C.J.R., Tarswell, J., and Allan, M.M.
2016 U-Pb zircon age and Pb isotopic constraints on the age and origin of porphyry and epithermal vein mineralization in the eastern Dawson Range, Yukon.

Parker, A.
1968 Assessment report on the May claim group, Whitehorse Mining District, Yukon Territory; Report prepared for Esansee Explorations Limited, Assessment Report #019090.

Pautler, J.
1986 Geological, Geochemical and Geophysical Report, Only 1-30 Claims; Report prepared for Kerr Adison Mines Ltd. Assessment Report #091917.
1994 Assessment Report on Grizzly property; Prepared for E. Curley, Assessment Report #093229.

Payne, J. G.
2012 Petrographic Report; Report prepared for Rockhaven Resources Ltd.; Assessment Report #120320.

Piercey, S.J., Nelson, J.L., Colpron, M., Dusel-Bacon, C., Simard, R.-L., and Roots, C.F.
2006 Paleozoic magmatism and crustal recycling along the ancient Pacific margin of North America, northern Cordillera; *in* Colpron, M. and Nelson, J.L. Eds., Paleozoic Evolution and Metallogeny of Pericratonic Terranes at the Ancient Pacific Margin of North America, Canadian and Alaskan Cordillera; Geological Association of Canada Special Paper 45, p. 281-322.

Richards, J.
2014 Personal communication

Robinson, E.G.
1959 Dickson Gold option, Carmacks, Yukon, Billy Claim group; Asbestos Corporation (Exploration) Ltd.; Assessment Report No. 092505.

Ross, A.A., Martin, C.J., and Dumala, M.R.
2016 Updated Diamond Drilling, Metallurgical Testing, and Mineral Resources on the Klaza Property, Yukon, Canada. Technical Report prepared for Rockhaven Resources Ltd.

Ross, A., Kirchner, I., Martin, C., Dumala, M., Methven, G., Molavi, M., Lebleu, P., Borntraeger, B.,
2018 Technical Report Describing Updated Diamond Drilling, Metallurgical Testing and Mineral Resources on the Klaza Property, Yukon, Canada. Technical Report prepared for Rockhaven Resources Ltd

Ryan, J.J., Westberg, E.E., Williams, S.P. and Chapman, J.B.
2016 Geology, Mount Nansen-Nisling River area, Yukon. Geological Survey of Canada, Canadian Geoscience Map 292 (preliminary).

Sanchez, M.G., Allan, M.M., Hart, C.J.R., Mortensen, J.K.
2014 Extracting ore-deposit-controlling structures from aeromagnetic, gravimetric, topographic, and regional geological data in western Yukon and eastern Alaska; Interpretation, Vol. 2, No. 4; p. SJ75-SJ102, 15 FIGS.

Saunders, C.R.
1980a Assessment report on the Tawa Property, Whitehorse Mining District, Yukon Territory; Report prepared for BRX Mining & Petroleum Corp., Assessment Report #090692.
1980b Assessment report on the Tawa Property, Whitehorse Mining District, Yukon Territory; Report prepared for BRX Mining & Petroleum Corp. Assessment Report #062050.

Sawyer, J.P.B., and Dickinson, R.A.
1976 Mount Nansen, Porphyry Copper and Copper-Molybdenum Deposits of the Calc-Alkaline Suite, Paper 34; *In* Porphyry Deposits of the Canadian Cordillera, CIM Special Volume 15, p. 336 - 343.

Schmidt, U.
1996 Report on 1995 Trenching and Sampling of the DOWS Property; Assessment Report #093472.

Smith, H.
2010 Assessment Report on Dade Property prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
2011 Assessment Report on Dade Property prepared for Wolverine Minerals Corporation by Archer, Cathro & Associates (1981) Limited.
2012 Assessment report describing geochemical sampling, prospecting, and geophysical surveys at the BBB Property; Prepared for Wolvering Minerals Corp and Strategic Metals Ltd.

2012 Assessment report describing geochemical sampling at the Sked property. Report prepared by Archer, Cathro & Associates (1981) Limited for Strategic Metals Ltd.

Smuk, K.A.
1999 Metallogeny of Epithermal Gold and Base Metal Veins of the Southern Dawson Range, Yukon; Masters Thesis; Department of Earth Planetary Sciences, McGill University Retrieved from http://www.collectionscanada.gc.ca/obj/s4/f2/dsk1/tape8/PQDD_0023/MQ50883.pdf

Stroshein, R.
1999 Exploration report for the overburden stripping and diamond drilling program on the Tawa-Klaza project, Whitehorse Mining District, Yukon Territory; Assessment Report # 093948.
2001 Assessment Report on geology, geochemistry, and trenching on the Vic, Wedge 12, and Bull 4 mineral claims, Discovery Creek Project; Prepared for Aurchem Exploration Ltd., Assessment Report #094238.
2003 Assessment Report on geology, geochemistry, and trenching on the Vic mineral claims, Discovery Creek Project; Prepared for Aurchem Exploration Ltd., Assessment Report #094400.
2004 Exploration report for 2003 geological, geochemical and trenching on the Discovery Creek Project in the Whitehorse Mining District, Yukon Territory; Assessment Report #094450.
2008 Assessment Report on trenching and sampling on the Vic 30, Bull 4, and J. Bill 16 mineral claims, Discovery Creek Project; Prepared for Aurchem Exploration Ltd., Assessment Report #094989.

Sutherland, K.S.
1988 Assessment report on stream sediment sample and prospecting on the Dic property. Report prepared for Chesbar Resources Inc., Assessment Report #092533.

Turner, M. and Cruz, T.
2017 Assessment report describing geology, mineralization, soil geochemistry, rock geochemistry, geophysical surveys, excavator and hand trenching, diamond drilling, metallurgical testing and preliminary economics at the Klaza property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

Tarswell, J. and Turner, M.
2012 Assessment report describing diamond and reverse circulation percussion drilling, excavator trenching, soil sampling and geophysical and air photo surveys at the Klaza property, Whitehorse Mining District, Yukon Territory; Assessment report prepared for Rockhaven Resources Ltd.
2013 Assessment report describing diamond drilling, excavator trenching, soil sampling, mineralogical studies and metallurgical tests at the Klaza property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

2014 Assessment report describing Excavator trenching, geophysical surveys, and metallurgical tests at the Klaza Property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

Tarswell, J., Walsh, D., and Cruz, T.
2015 Assessment report describing geology, mineralization, geophysical surveys, excavator and hand trenching, diamond drilling, soil sampling, metallurgical testing and preliminary economics; Report prepared for Rockhaven Resources Ltd. by Archer, Cathro & Associates (1981) Limited.

Turner, M.
2014 Assessment report describing excavator trenching at the Val Property; report prepared for Rockhaven Resources Ltd. by Archer, Cathro & Associates (1981) Limited.

Turner, M. and Tarswell, J.
2011 Assessment report describing diamond drilling, excavator trenching, soil sampling and geophysical surveys at the Klaza property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

Turner, M. and Willms, K.
2016 Assessment report describing geology, mineralization, soil geochemistry, rock geochemistry, geophysical surveys, excavator and hand trenching, diamond drilling, metallurgical testing and preliminary economics at the Klaza property, Whitehorse Mining District, Yukon Territory; Report prepared for Rockhaven Resources Ltd.

Visser, S., Dujokovic, Z., and Ewen E.
1996 Assessment report on the magnetometer, VLT-EM and geochemical survey on the KR 1 to 238 claims, Whitehorse Mining District, Yukon Territory, Report prepared for BYG Natural Resources Inc., Assessment Report #093516.

Wang, L., Qin, K., Song, G., and Li, G.
2019 A review of Intermediate Sulphidation epithermal deposits and subclassifications; Available from Ore Geology Reviews 107 (2019), 434-456 p. Https://doi.org/10.1016/j.oregeorev.2019.02.023

Wengzynowski, W.A.
2006 Assessment report describing line cutting and induced polarization surveys at the Klaza Property, Whitehorse Mining District, Yukon Territory; Report prepared for Bannockburn Resources Limited and ATAC Resources Ltd.

Yukon Geological Survey
2012 Mount Nansen Mineral Occurrence; Yukon Geological Survey's Integrated Data System, Occurrence Number 115I 065. Available at: http://data.geology.gov.yk.ca/Occurrence/14297

2012 Ang Mineral Occurrence; Yukon Geological Survey's Integrated Data System, Occurrence Number 115I 123. Available at: http://data.geology.gov.yk.ca/Occurrence/14351

2013 Yukon Geological Survey's Integrated Data System, Occurrence Number 115I 096. Available at: http://data.geology.gov.yk.ca/Occurrence/14325

APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Kelson Willms, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Vernon, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2017 with a B.Sc in Earth and Environmental Sciences.

2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia, Canada, and in the United States of America and Mexico.

3. I have personally participated in and supervised the field work reported herein and have interpreted all data resulting from this work.

K. Willms, B.Sc.

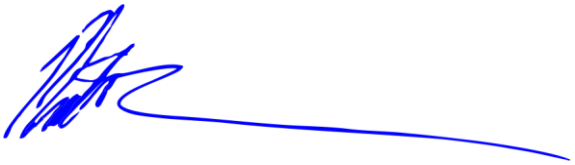
STATEMENT OF QUALIFICATIONS

I, Matthew Turner, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2002 with a B.Sc. majoring in Earth and Ocean Sciences.

2. From 2002 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia, Yukon Territory and Northwest Territories

3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Matthew Turner, B.Sc.

APPENDIX II

STATEMENT OF EXPENDITURES

Statement of Expenditures
Klaza Group 1 - HW07676
November 29, 2019

Labour

Employee		Hours*	Time Period	Rate/hr	Total
Allison Matthews	Office Assistant	4.5	September 1 - September 30, 2019	$ 48.00	$ 216.00
Andrew Carne	Sr. Engineer	5	September 1 - September 30, 2019	$ 96.00	$ 480.00
Bradley Laviolette	General Labour, expeditor	44	September 1 - September 30, 2019	$ 74.00	$ 3,256.00
Byron Sam-Barrett	General Labour	64	September 1 - September 30, 2019	$ 49.00	$ 3,136.00
Diego Uribe	Geologist	120	September 1 - September 30, 2019	$ 72.00	$ 8,640.00
Doug Eaton	Sr. Geologist	0	September 1 - September 30, 2019	$ 120.00	$ -
Dylan Blackjack	General Labour	120	September 1 - September 30, 2019	$ 53.00	$ 6,360.00
Evan Hall	Geologist	44	September 1 - September 30, 2019	$ 64.00	$ 2,816.00
Gail Tulk	Head Cook	112	September 1 - September 30, 2019	$ 74.00	$ 8,288.00
Jamie Cochrane	General Labour	108	September 1 - September 30, 2019	$ 51.00	$ 5,508.00
Kelson Willms	Geologist	120	September 1 - September 30, 2019	$ 85.00	$ 10,200.00
Kyle Garvis	General Labour	112	September 1 - September 30, 2019	$ 55.00	$ 6,160.00
Manuelle Racine	Geologist	120	September 1 - September 30, 2019	$ 62.00	$ 7,440.00
Matt Van Loon	Camp Maintenance	120	September 1 - September 30, 2019	$ 80.00	$ 9,600.00
Matthew Dumala	Project Manager	39.25	September 1 - September 30, 2019	$ 113.00	$ 4,435.25
Ryan Burke	Geologist	80	September 1 - September 30, 2019	$ 74.00	$ 5,920.00
Sarah Shoniker	Geologist	0	September 1 - September 30, 2019	$ 53.00	$ -
Scott Newman	Mapper	1	September 1 - September 30, 2019	$ 71.00	$ 71.00
Sharon Silverfox	Bull Cook	112	September 1 - September 30, 2019	$ 58.00	$ 6,496.00
Spencer Postmas	Geologist	84	September 1 - September 30, 2019	$ 56.00	$ 4,704.00
Tyson Brulotte	General Labour	15	September 1 - September 30, 2019	$ 55.00	$ 825.00
Wayne Schneider	Maintenance	47.5	September 1 - September 30, 2019	$ 99.00	$ 4,702.50
					$ 99,253.75

* 50% of hours billed in September

Expenses

Field room and board	290.5 mandays (50% of September mandays) $100/day	$ 29,050.00
Whitehorse room and board	9 mandays (50% of September room and board days) $180.00/day	$ 1,620.00
Kubtoa RTV Rental		$ 2,000.00
Kubtoa RTV with Tracks Rental		$ 3,000.00
Bobcat Rental		$ 2,500.00
Kluane Drilling		$ 136,618.22
15317 Yukon Inc, as attached 50% of invoice		$ 19,062.50
Pacesetter Petroleum, as attached, for 33% of fuel purchased		$ 20,728.40
Career Industries, as attached		$ 2,830.20
		$ 217,409.32

Total 2019 expenditures $ 316,663.07

Statement of Expenditures
Klaza Group 2 -HW07677
November 29, 2019

Expenses

Kluane Drilling, invoices attached	$ 330,259.20
Total 2019 drilling expenditures	$ 330,259.20

APPENDIX III

SAMPLE HANDLING AND ANALYTICAL PROCEDURES

SAMPLING METHODS AND APPROACH

Soil Sampling

Historical samples were taken on baseline-controlled grids established using a hip-chain and compass. Baselines were marked with one metre high wooden lath and sample sites were marked with 0.5 m wooden lath. Most of these stakes are no longer standing.

Soil samples collected in 1986 and 1998 were taken from a 1,400 by 2,500 m northwest trending grid that covers most of the southeastern part of the property. Soil samples were collected at 50 m intervals on lines spaced 100 m apart using two northwest trending base lines for grid control. The base lines are approximately 800 m apart and marked at 50 m intervals with one metre high wooden lath, while the sample sites on cross lines were marked with 0.5 m lath. All lath bear aluminum tags inscribed with the grid coordinates and sample numbers. The grids were established with hip-chain and compass, but later survey control was provided by hard-chain and transit. The soil samples were taken 20 to 50 cm below surface from B horizon material. They were placed in pre-numbered heavy gauge paper bags. A total of 1,405 soil samples were collected in 1986 and 776 in 1998.

Soil samples collected in 2010 and 2017 were taken using soil augers, between 30 cm and 130 cm below surface. Soil samples were collected at 50 m intervals along lines spaced between 100 to 200 m apart. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were placed into individually pre-numbered Kraft paper bags. All soil sample locations were recorded using hand-held GPS units. Sampling was often hindered by permafrost on moss-covered, north-facing slopes. Samples were not collected from locations with poor sample quality.

Rock Sampling

Rock samples were collected from areas across the property as float samples and where possible, bedrock samples. Rock samples were collected from old workings, trenches that did not reach bedrock, and prospective areas of the property. After collection, samples were bagged in 6 mm clear plastic bags along with pre-numbered sample tags. The samples were then placed in white fiberglass bags and sealed, after the addition of one standard and one blank, with a metal clasp with sample numbers were written on the outside of that bag with permanent felt pen. Security tags placed on the fiberglass bags ensured chain of custody was followed during transport.

Trenching

Excavator trenching on the property was performed using a Hitachi 450 excavator, leased by Rockhaven from 15317 Yukon Ltd. of Whitehorse and operated by Archer Cathro personnel.

Chip and/or channel samples have been collected from bulldozer and excavator trenches in several parts of the Property during programs conducted between 1986 and 1989 and from 2010 to 2017. Bedrock exposed in trenches is typically sampled on a continuous basis. The collection protocol for these samples was as follows:

1) Trenches were excavated.
2) The walls of trenches were cleaned, where necessary, with a shovel.
3) Trenches were mapped and sample intervals marked at geological breaks or at 1 to 10 m intervals depending on the intensity of alteration and mineralization.
4) Continuous chip samples were collected along one wall of the trench as close to the floor of the trench as slumping would allow using a geological hammer. The chips were collected either in a tub or on a sample sheet. Sample sizes averaged approximately two kilograms per linear metre sampled for intervals containing veins and about 7 kg per sample for intervals comprised primarily of altered wallrock.
5) Samples were placed in doubled 6 mm plastic bags along with a pre-numbered sample tag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen.
6) From 2011 to 2017, one blank and one standard samples were randomly inserted into every batch. No quality control samples were inserted into batches in 2010.
7) In 2013, samples collected from trenches within the core of the BRX and Klaza Zones were divided into batches comprising 31 trench samples plus one blank sample, one assay standard and one coarse reject duplicate sample.
8) In the event that bedrock could not be reached and chip samples could not be collected, representative float samples were collected from vein material. These float samples follow the same procedures as standard chip sampling.

Diamond Drilling

Geotechnical and geological logging was performed on all drill core from the 2010 to 2015 programs. A geotechnical log was filled out prior to geological logging of drill core and included the conversion of drill marker blocks from imperial to metric plus determinations of core, rock quality designations (RQD), hardness and weathering. Wetted core photographs were taken and catalogued prior to logging. Magnetic susceptibility measurements were taken at one metre intervals along core from each hole.

Geological logging involved designating general and detailed intervals, based on lithologic breaks or significant chemical differences. Sample intervals were created after geological logging, for specific sampling between lithologic boundaries and mineralized zones.

All 2010-2014 logging data was recorded as a hardcopy during the day and transcribed to digital format during the evenings. Beginning in 2015, logging data entered directly into the company database.

During the 2010 to 2012 programs, core recovery was good, averaging 97%. The holes from these programs were mostly sampled top to bottom (about 99% of core was sampled). In 2014, core recoveries averaged approximately 94%, excluding the near surface portions of the holes where core recovery was poor. Only vein zones and associated peripheral alteration were sampled in 2014 and 2015. Care was taken during all drill programs to ensure that the sample split was not biased to sulphide content and, therefore, the sampling should be reliable and representative of the mineralization.

Drill core samples were collected using the following procedures:

1) Core was reassembled, lightly washed and measured.
2) Core was wet photographed.
3) Core was geotechnically logged.
4) Core was tested for magnetic susceptibility.
5) Core was geologically logged and sample intervals were designated. Sample intervals were set at geological boundaries, drill blocks or sharp changes in sulphide content.
6) Core recovery was calculated for each sample interval.
7) From 2010 and 2011, visually promising core intervals were sawn in half using a rock saw and the remainder of the core was split with an impact core splitter. In 2012, all visually promising core intervals were saw in half using a rock saw, while selected specimens of altered country rock were split using an impact core splitter. In 2014 and 2015 all marked samples were cut using a rock saw. In each case, one half of the core sampled and the remaining half was placed back in the core box.
8) All samples were double bagged in 6 mm plastic bags, a pre-numbered sample tag was placed in each sample bag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen. In 2012, 2014, and 2015 the fibreglass bag was sealed with a numbered security tag.
8) Two blank and two assay standard samples were randomly included in every batch of 30 or 31 core samples (in 2012, 2014 and 2015, batches comprised 30 core samples).
9) One duplicate sample consisting of quarter-split core was included in every batch of 30 or 31 core samples (in 2012 and 2015 batches comprised 30 core samples).
10) In 2012, 2014 and 2015 one coarse reject duplicate sample was also included in every batch of 30 core samples.

Re-sampling of percussion holes in 2016 followed the following procedures:

1) Percussion chip bags representing 5 foot intervals were opened and their contents transferred to 6 mm plastic sample bags. The whole contents of the bag were used due to the strong clay content of the chips.
2) Sample bags were taken to a local creek and gold-panned until a concentrate large enough to sample was collected, weighing between 40 and 80 grams.
4) Concentrate samples were double bagged in 6 mm plastic sample bags and a pre-numbered sample tag was placed in each sample bag. The samples were then placed in fiberglass bags sealed with a metal clasp and labelled with respective sample numbers in felt pen.
5) QAQC procedures were followed as per the sample techniques used during rock sampling.

Density measurements were systematically taken on core, throughout the 2011, 2012, 2014, and 2015 drill programs with a total of 1,823 density measurements from a variety of holes and lithologies. Measurements are mostly from vein, porphyry dyke, fresh granodiorite and mineralized granodiorite but also include aplite and mafic dyke material. Sample densities were

determined by cutting a 10 cm long section of core and then determining its weight dry and its weight in water. That data was applied to the following formula to establish the density of each of these samples:

Density = weight in air ÷ [Pi x (diameter of core ÷ 2)^2 x length of core]

For samples that could not be cut, a graduated cylinder (filled with water) was used to calculate the volume of the core sample and in turn the sample's density. Employing this technique, each sample was first weighed in air, and then its displacement was calculated using a volumetric cylinder. A second formula was then used to determine the density of each sample:

Density = weight in air ÷ (Final Volume – Initial Volume)

In addition to density, the specific gravity was calculated using the following formula for each sample wherever possible. As a cross check, density and specific gravity values were compared. Any significant discrepancies were investigated and corrected.

Specific Gravity = weight in air ÷ (weight in air – weight in water)

ORIENTED CORE SURVEYS

A Reflex ACT III downhole digital core orientation system was used in 2014 and 2015 to orient the core in a total of 46 holes.

In 2015, 18 of the 19 oriented holes were drilled using split tubes. The use of split tubes allowed orientation measurements to be collected across incompetent intervals or intervals with poor recovery.

Split tube intervals were oriented by Archer Cathro employees at the drill site. The core tube was first aligned by the driller's helper using the ACT III tool before the split tube was extracted from the core tube. Care was taken to not shift the core during this process. A line representing the top of the hole was marked down the length of the core by the Archer Cathro employees. Structural orientation measurements within the interval were taken prior to the core being transferred to core boxes.

HISTORICAL SAMPLE PREPARATION, ANALYSIS AND SECURITY

This section describes the sample handling procedures followed during the 1986 to 1989 and 2010 to 2012 exploration programs managed by Archer Cathro and the 1998 program conducted by BYG. The procedures followed during earlier exploration programs are not known.

During the 1986 to 1989 programs all samples were transported from the Property to Whitehorse by truck, escorted by a member of the geological crew, and then shipped via Canadian Airlines or a commercial trucking company to Chemex Labs (now ALS Minerals) in North Vancouver, B.C. Soil geochemical samples were dry sieved through a -35 mesh screen and ring pulverized to approximately -100 mesh before being analyzed for gold by neutron activation and inductively

coupled plasma (ICP) analyses. Channel samples were fire assayed for gold and silver. The 1988 drill core samples were also fire assayed for gold and silver.

Drill core samples collected in 1998 were shipped directly from the site by company vehicle to the laboratory operated by Little Salmon Analytical in Carmacks. That laboratory was primarily established to process samples from the former Mount Nansen mine. The samples were assayed for gold and silver. The analyses were by the one ton fire assay method.

Samples collected in 2006 were submitted to ALS Chemex in North Vancouver, B.C. Analyses were done using industry-standard fire assay and ICP techniques. The ALS Chemex (now ALS Minerals) laboratory in North Vancouver carries ISO 9001:2000 registration and is accredited to ISO 17025 by Standards Council of Canada for a number of specific test procedures including fire assay Au by AA, ICP and gravimetric finish, and multi-element ICP and AA assays for Ag, Cu, Pb and Zn.

SAMPLE SECURITY

In 2010, all drill core was trucked to the Archer Cathro yard in Whitehorse for logging and splitting. In 2011, 2012 and 2014, drill core was logged and sawn or split at a processing facility on the Property. Chip samples taken between 2010 and 2015 were collected and labelled at the trenches on the Property.

In 2010, Archer Cathro personnel were responsible for transporting all samples from Archer Cathro's Whitehorse yard to ALS Minerals' Whitehorse preparation facility. In 2011, 2012-2015, Archer Cathro personnel were responsible for transporting all samples from the Property by truck to ALS Minerals' facility in Whitehorse for preparation. ALS Minerals was responsible for shipping the prepared sample splits from Whitehorse to its North Vancouver laboratory, where they were analyzed. All samples were controlled by employees of Archer Cathro until they were delivered directly to ALS Minerals in Whitehorse.

In 2012, 2014, and 2015, Archer Cathro ensured that a Chain of Custody form accompanied all batches of drill core during transportation from the Property to the preparation facility. A unique security tag was attached to each individual fibreglass bag when the bag was sealed. The bags and security tags had to be intact in order to be delivered to ALS Minerals. If a security tag arrived at the laboratory damaged, an investigation into the sample bag was undertaken by ALS Minerals and Archer Cathro and any affected samples were not processed until a resolution had been reached on the security of the samples.

SAMPLE PREPARATION AND ANALYSIS

All samples were sent to ALS Minerals' laboratory in Whitehorse for preparation and then on to its laboratory in North Vancouver for analysis. ALS Minerals, a wholly owned subsidiary of ALS Limited, is an independent commercial laboratory specializing in analytical geochemistry services. Both ALS Minerals' Whitehorse and North Vancouver laboratories are individually certified to standards within ISO 9001:2008.

All 2010 to 2012 soil samples were dried and screened to -180 microns. All 2010 to 2015 rock, core and trench samples were dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. In 2014 and 2015, visually mineralized intervals and adjoining samples were prepared using a technique designed for coarse gold and silver. The sample is dried and crushed to better than 90% passing 2 mm. A 1,000 g split is then taken and pulverized to better than 95% passing 106 microns.

In 2010 and 2011, all core and trench samples were initially analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 35 other elements by inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). Overlimit values for gold were determined by fire assay and gravimetric finish (Au-GRA22) and silver values were determined using Ag-OG46. Sample pulps from mineralized intervals of drill core from 2011 were later reanalyzed for lead and zinc as well as 46 other elements using four acid digestion followed by inductively coupled plasma-atomic emission spectrometry (ME-MS61). Overlimit values for silver, lead and zinc were determined by inductively coupled plasma-atomic emission spectroscopy (Ag/Pb/Zn-OG62).

In 2012, 2014 and 2015, rock samples were routinely analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 48 other elements by four acid digestion (ME-MS61). All overlimit values were determined for gold by fire assay and gravimetric finish (Au-GRA22) and similarly for silver using Ag-OG62.

Soil samples collected in 2010 were analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21) and for 35 other elements using aqua regia digestion and inductively coupled plasma-atomic emission spectrometry. Soil samples collected in 2011 and 2012, were analysed for gold by fire assay fusion and atomic absorption spectroscopy (Au-AA24) and for 35 other elements using aqua regia digestion and inductively coupled plasma-atomic emission spectrometry.

All 2010 to 2015 assay standard, blank and duplicate samples passed QA/QC reviews. It is the Author's opinion that the sample preparation, security and analytical procedures used for this project are adequate.

DATA VERIFICATION

Database

Prior to 2014, geological and geotechnical logging was initially recorded as a hardcopy and then transcribed into MS Excel®. In 2014, logging was recorded as hardcopy and then entered into a MS-SQL Server® database (the Database). In 2015, drill logs were entered directly into the Database. All of the pre-2014 data has been transferred to the Database.

Algorithms within the database automatically check all data as it is entered to ensure accuracy and consistency. These checks include interval checks that alert the user if overlapping or missing intervals are detected. Alerts are also generated if a downhole depth has been entered that is greater than the final hole depth. Drop down menus and internal libraries ensure

consistency between users by requiring the use of pre-approved lithological units, minerals and other logging codes.

Visual comparison of hardcopy data and digital data were conducted on select holes to ensure accuracy. Any discrepancies identified by this process were investigated, by examining the core stored on the Property, and corrected.

Collar Location

All drill hole collars were re-surveyed in 2012 using a Trimble RTK GPS system and, where necessary, survey data collected in previous years was corrected. The differences between this most recent survey and the earlier surveys can be explained by the poorer accuracy of the hand held GPS devices used in previous years.

Elevation data obtained during the RTK GPS survey was compared to elevation data calculated from low level orthophotos. Any discrepancies identified were investigated and corrected, if possible. If no resolution to a discrepancy was immediately apparent, an additional survey was conducted.

Down-hole Orientation

Prior to 2011, no down-hole azimuth measurements were made and dip deviations were measured using an acid test at the bottom of each hole. This practice does not follow industry standards, but due to the limited number of holes (11), shallow depths (up to 273.12 m) and good ground conditions, this is not considered to be a significant issue.

Original 2011, 2012, 2014, and 2015 survey data was obtained from the survey tools in CSV format and was visually inspected. Erroneous data was not used during the interpretation process.

Assays

Digital assay certificates, for all of the drilling completed between 2010 and 2015, were obtained from ALS Minerals in CSV format and imported directly into the Database.

Internal algorithms built into the Database ensure that the correct assay data is matched with the correct sampling data. Errors detected by the Database were inspected and corrected. Spot checking of data within the Database to hard copy certificates issued by ALS Minerals was also implemented and did not revealed any issues.

Samples from the 2010 to 2015 diamond drilling programs were subjected to a quality assurance and quality control ("QA/QC") program designed by Archer Cathro for Rockhaven. The QA/QC program consisted of:

1) Sequentially pre-numbered sample tags: to identify each sample with a unique number to minimize the possibility of sample numbering errors and to ensure uniform collection of sample data.
2) Sealed, doubled sample bags: to secure individual sample bags in order to reduce the possibility of sample contamination, spilling or tampering.
3) Chain of custody: samples were stored in a secure preparation area and delivered to the laboratory directly by Archer Cathro personnel. A chain of custody form, signed by each person who transported the samples, was attached to each sample shipment. These forms have been retained in case any discrepancy is ever identified.
4) Sample duplicates: select samples were quartered and re-submitted for assay. In addition, duplicates of coarse reject material of select 2012 samples were re-submitted for assay.
5) Sample blanks: commercial samples were purchased and inserted in the sample sequence. to test for "smear effect" during the sample preparation process. These blanks were assigned unique sample numbers within the sample sequence and were randomly inserted into each batch, so as to be "blind" to the laboratory.
6) Reference standard samples: commercially available assay standard samples for gold and silver were purchased for the 2010 and 2011 drill program. Six project specific assay standards were prepared from coarse reject material from the 2011 and 2012 core samples for use during the 2012 through 2015 programs. These assay standards were prepared, homogenized and packaged by CDN Resource Laboratories Ltd. of Delta, British Columbia. All assay standards were certified by Smee & Associates Consulting Ltd. of North Vancouver, British Columbia assay standards were assigned a unique sample number within the sample sequence and were randomly inserted into each batch.
7) Sample weight: Once split and bagged, individual samples are weighed. This weight is compared to the received weight recorded by ALS to monitor for possible sample switches or other issues arising during transport or preparation. Any significant discrepancies between these weights are investigated and necessary corrections made.
8) Referee samples: In October 2015, 140 core samples analyzed in 2015 by ALS Minerals were randomly selected for check analysis. These samples represent approximately 3% of the samples analyzed in 2015. Pulp rejects from these samples were submitted to SGS Minerals Services ("SGS") in Burnaby BC to be analyzed for gold by fire assay followed by atomic absorption (GE FAA313) and 33 elements by four acid digestion followed by inductively coupled plasma-atomic emission spectrometry (GE ICP40B). Results from the SGS analysis are consistent with the analysis completed by ALS Minerals.

All of the samples have passed this quality assurance and quality control program.

APPENDIX IV

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239261

Project: Klaza

P.O. No.: 19-016

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239261

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603162		2.59			2.47	6.60	58.4	2130	1.46	2.91	1.93	0.52	38.9	5.0	7	13.20
W603163		2.82			2.76	6.33	57.1	1270	1.43	8.82	1.78	0.37	32.3	4.7	8	13.50
W603164		3.13			0.14	7.87	7.7	1890	1.28	0.10	0.60	0.12	39.7	4.5	7	15.25
W603165		3.10			0.12	6.92	36.1	1590	1.05	0.10	1.51	0.44	34.2	4.4	15	11.35
W603166		3.59			0.08	7.32	9.2	2090	1.32	0.12	2.04	0.11	41.8	5.9	7	10.70
W603167		3.40			0.43	6.65	36.3	1160	1.72	0.25	2.64	3.37	58.5	3.7	9	9.54
W603168		<0.02			0.38	7.24	33.8	1160	1.67	0.23	2.68	3.20	71.5	3.7	9	9.98
W603169		3.44			0.34	6.25	37.7	760	1.48	0.32	2.87	1.35	158.0	1.8	7	7.80
W603170		2.54			6.71	5.40	777	1220	1.56	0.88	3.28	31.3	64.0	4.9	6	12.15
W603171		2.72			0.41	7.96	67.2	2200	1.63	0.27	2.04	2.92	55.5	4.2	7	18.55
W603172		5.72			0.09	7.87	12.1	2330	1.74	0.07	2.19	0.45	44.8	5.6	8	10.15
W603173		3.45			0.10	7.09	14.0	1150	1.61	0.19	3.17	0.40	48.3	7.3	8	7.65
W603174		0.17	105	1.015	>100	5.66	251	550	0.67	5.11	1.48	25.6	20.4	11.7	63	0.90
W603175		3.26			0.22	7.94	44.2	1030	1.40	0.12	1.24	0.74	61.1	3.9	6	9.29
W603176		2.83			0.09	7.21	24.7	1530	1.42	0.11	1.72	0.51	28.6	3.2	7	10.10
W603177		1.26			0.11	5.17	26.8	990	1.53	0.17	4.81	0.54	41.6	2.0	5	9.82
W603178		4.52			0.09	7.82	17.7	1370	1.61	0.14	2.81	0.29	58.9	4.8	7	8.65
W603179		2.66			0.09	7.69	22.4	2150	1.62	0.09	2.16	0.29	43.4	4.9	7	8.53
W603180		1.33			0.51	5.26	184.0	1140	1.59	0.15	3.95	1.41	32.5	9.2	6	10.95
W603181		4.01			0.15	7.40	30.9	1110	1.61	0.21	3.49	0.45	43.4	8.8	7	8.48
W603182		1.42			0.23	7.34	13.5	1590	1.57	0.38	3.20	0.21	29.8	5.9	7	5.07
W603183		1.36			0.23	7.41	18.8	1700	1.44	0.38	3.31	0.31	41.1	9.6	7	5.78
W603184		3.31			0.30	6.73	80.9	4560	1.46	0.39	1.81	1.89	48.8	5.7	7	10.35
W603185		3.09			0.58	7.38	65.9	2980	1.52	0.76	1.81	1.66	49.6	4.0	7	22.6
W603186		3.39			1.95	6.46	175.0	1000	1.66	0.81	3.27	0.85	86.8	19.2	4	36.0
W603187		4.00			0.97	6.67	145.0	1330	1.54	0.80	2.17	0.99	78.2	12.0	5	23.2
W603188		3.56			2.29	7.25	161.0	2110	1.16	0.52	1.08	6.28	53.5	9.5	6	17.90
W603189		4.97			0.01	0.08	0.3	20	0.06	0.01	33.3	0.03	1.03	1.2	1	0.11
W603190		3.47			0.34	7.80	137.0	2320	1.30	0.17	1.31	5.89	65.2	4.0	7	14.75
W603191		3.91			0.08	8.07	81.2	2500	1.15	0.10	1.28	0.29	58.7	3.2	6	9.40
W603192		2.92			0.31	6.95	53.9	1590	1.37	0.27	1.64	0.36	44.9	4.2	6	24.1
W603193		3.05			0.62	5.13	47.5	1570	1.04	0.31	2.02	0.54	30.8	11.3	6	9.16
W603194		4.34			0.71	7.72	54.7	2040	1.44	0.53	2.29	1.87	49.6	7.5	6	11.15
W603195		1.31			0.93	5.74	31.0	1560	1.24	0.25	2.41	4.82	34.9	5.8	8	7.63
W603196		3.74			0.38	6.96	32.2	2250	1.62	0.29	3.72	0.57	41.1	11.3	6	10.50
W603197		0.17			37.9	5.83	2610	1140	1.17	33.7	1.71	44.2	38.7	14.8	21	9.17
W603198		3.79			0.16	7.34	21.6	4210	1.69	0.23	2.68	0.28	47.6	2.9	6	12.75
W603199		4.23			0.16	7.39	29.8	2220	1.66	0.17	2.45	0.20	51.1	3.1	8	16.70
W603200		3.09			0.17	6.40	31.6	2760	1.43	0.08	2.77	0.15	42.8	3.8	6	20.0
W603201		2.91			0.40	7.20	112.0	2710	1.94	0.17	2.30	0.27	52.1	6.5	7	30.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239261

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603162		162.0	2.64	14.70	0.11	1.7	0.118	3.24	19.7	36.9	0.57	1330	1.84	0.09	8.4	2.1
W603163		166.5	2.52	15.00	0.08	1.3	0.091	2.51	15.8	74.2	0.38	1060	1.98	0.04	7.6	2.1
W603164		24.8	2.62	16.65	0.11	1.5	0.046	2.93	20.3	54.9	0.22	608	1.27	0.08	8.6	1.7
W603165		14.9	2.52	14.30	0.09	1.2	0.047	2.60	17.4	46.1	0.24	712	1.25	0.42	7.2	2.9
W603166		5.1	2.75	15.65	0.11	1.4	0.044	2.90	22.0	25.0	0.50	582	0.79	1.57	8.0	2.2
W603167		9.5	2.96	17.10	0.11	1.4	0.398	2.98	34.2	20.0	0.35	1460	2.47	0.60	8.7	2.3
W603168		7.9	2.91	17.15	0.13	1.5	0.381	2.99	43.6	20.2	0.38	1440	2.44	0.60	8.7	2.3
W603169		8.6	2.33	17.45	0.12	1.1	0.313	3.20	103.5	15.3	0.41	1780	9.43	0.05	7.8	2.0
W603170		33.3	3.80	14.95	0.09	1.0	0.670	3.05	37.9	13.2	0.28	6550	7.36	0.03	6.8	1.8
W603171		3.4	3.04	17.10	0.11	1.1	0.141	2.29	32.5	22.7	0.54	989	1.24	1.48	8.6	2.7
W603172		2.1	2.88	16.60	0.11	1.2	0.047	2.79	23.5	14.5	0.72	521	0.51	2.58	8.6	2.5
W603173		1.7	2.99	16.15	0.10	1.2	0.129	1.55	29.4	12.8	0.51	803	2.42	2.06	8.1	2.1
W603174		6280	5.85	12.50	0.07	1.5	0.457	1.14	9.1	12.4	1.13	1760	21.7	1.65	3.4	28.2
W603175		3.8	2.37	16.10	0.09	1.5	0.082	1.82	37.2	24.6	0.19	756	2.38	0.72	8.2	1.5
W603176		2.8	2.75	17.70	0.08	1.1	0.074	2.23	14.5	32.7	0.13	748	2.11	0.59	8.4	1.9
W603177		1.7	2.60	15.70	0.10	0.8	0.332	2.45	24.6	18.6	0.16	1420	26.1	0.31	7.3	1.3
W603178		1.8	2.91	16.65	0.11	1.1	0.087	1.62	34.8	16.2	0.62	687	1.92	2.07	8.4	2.2
W603179		2.5	2.85	16.45	0.09	1.0	0.062	2.56	23.8	14.4	0.60	535	1.54	2.19	8.4	2.3
W603180		4.7	3.02	15.35	0.09	1.0	0.106	2.05	18.7	80.2	0.17	3240	7.12	0.31	7.4	2.3
W603181		1.4	3.11	16.45	0.09	1.0	0.154	1.95	25.8	15.5	0.42	1090	2.81	1.64	7.8	2.1
W603182		3.7	3.03	15.35	0.09	0.9	0.077	1.80	15.6	9.1	0.69	785	3.83	2.10	8.0	1.8
W603183		5.2	2.87	15.35	0.15	1.0	0.103	1.85	23.2	10.0	0.65	767	3.09	2.07	7.8	3.7
W603184		4.4	2.77	13.00	0.14	1.0	0.040	2.95	26.9	14.8	0.64	820	0.65	1.29	6.5	2.0
W603185		5.4	2.61	15.40	0.13	1.2	0.044	2.79	25.8	34.3	0.41	1000	1.54	0.04	7.1	1.9
W603186		15.3	6.44	20.5	0.16	0.7	0.146	2.65	60.8	18.3	0.98	2220	4.05	0.04	5.2	3.3
W603187		17.2	5.46	17.55	0.13	0.8	0.154	2.00	51.4	49.4	0.82	2030	5.29	0.02	5.4	2.8
W603188		5.5	3.44	14.55	0.10	1.0	0.111	2.01	30.8	91.2	0.51	1160	0.66	0.03	7.0	2.2
W603189		2.3	0.14	0.23	0.09	<0.1	<0.005	0.02	1.1	1.2	1.94	118	0.07	0.03	0.1	0.2
W603190		2.6	2.60	16.20	0.17	1.2	0.058	2.30	36.7	74.2	0.51	1450	2.39	0.04	7.9	2.2
W603191		2.5	2.82	15.65	0.15	1.1	0.052	2.50	34.3	44.5	0.43	807	0.87	0.07	7.7	2.0
W603192		2.1	2.71	12.95	0.12	0.9	0.098	2.47	25.2	41.3	0.61	1020	0.84	0.05	5.9	2.4
W603193		3.1	2.85	9.64	0.11	0.6	0.142	2.00	15.2	29.3	0.76	1560	0.91	0.03	4.3	3.0
W603194		4.8	3.04	13.70	0.14	1.0	0.148	3.63	27.8	18.5	0.83	1820	1.70	0.04	6.6	2.8
W603195		47.3	2.21	10.75	0.14	0.8	0.139	2.73	18.3	11.1	0.79	1580	1.15	0.03	4.4	2.0
W603196		2.3	3.05	14.10	0.15	1.0	0.180	3.24	22.3	14.5	1.20	2160	6.41	0.04	5.7	2.5
W603197		1170	9.07	12.30	0.14	0.9	1.510	2.65	20.2	16.3	0.68	2250	15.45	0.06	4.3	13.4
W603198		1.9	2.31	13.85	0.13	1.0	0.115	3.47	26.4	19.6	0.93	980	0.97	0.05	7.0	1.5
W603199		1.7	2.58	15.40	0.14	1.2	0.072	3.28	26.5	71.2	0.74	937	1.85	0.08	7.8	2.0
W603200		2.1	2.44	13.20	0.14	1.0	0.042	2.66	21.2	69.0	0.81	937	0.96	0.05	6.8	2.0
W603201		3.0	2.74	14.25	0.13	1.5	0.071	2.80	29.0	42.7	0.82	1080	1.76	0.03	7.1	4.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239261

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603162		530	26.0	123.0	<0.002	0.43	67.7	8.1	<1	1.6	140.0	0.93	<0.05	11.75	0.221	1.95
W603163		510	23.3	95.1	<0.002	0.18	47.6	7.7	<1	1.4	122.0	0.61	<0.05	10.20	0.220	1.72
W603164		610	12.3	119.0	<0.002	0.01	23.6	9.9	<1	1.4	93.4	0.69	<0.05	13.80	0.265	1.26
W603165		570	16.1	92.4	<0.002	0.04	24.8	8.1	<1	1.4	128.5	0.57	<0.05	10.55	0.238	1.07
W603166		570	14.1	105.5	<0.002	0.11	5.94	9.4	<1	1.6	227	0.61	<0.05	11.80	0.248	1.35
W603167		600	100.5	130.5	<0.002	0.05	6.40	9.7	<1	2.2	125.5	0.71	<0.05	9.53	0.253	2.40
W603168		620	98.7	148.0	<0.002	0.05	6.32	10.7	<1	2.2	127.5	0.71	<0.05	12.20	0.255	2.53
W603169		620	24.4	156.5	<0.002	0.04	7.71	8.2	<1	2.1	57.6	0.64	<0.05	10.35	0.226	2.92
W603170		450	453	153.0	<0.002	0.25	26.1	7.2	1	3.0	93.7	0.54	0.06	7.90	0.198	2.58
W603171		650	26.5	105.5	<0.002	0.04	12.45	9.7	<1	2.0	204	0.62	<0.05	11.80	0.276	1.49
W603172		630	16.4	93.6	<0.002	<0.01	3.80	9.7	<1	1.4	439	0.66	<0.05	11.40	0.275	1.10
W603173		570	11.1	60.1	<0.002	0.05	3.23	9.1	<1	2.0	287	0.65	<0.05	9.93	0.250	1.21
W603174		450	>10000	28.7	0.011	2.40	462	11.5	2	1.9	197.5	0.22	1.44	2.10	0.248	0.50
W603175		530	13.1	84.4	<0.002	0.01	12.00	8.9	1	1.6	76.3	0.78	<0.05	18.55	0.222	1.09
W603176		590	14.1	89.5	<0.002	<0.01	16.15	9.2	<1	1.8	95.3	0.62	<0.05	7.78	0.266	1.17
W603177		330	6.2	89.0	<0.002	0.01	6.42	6.0	<1	2.2	131.5	0.54	<0.05	6.47	0.225	2.06
W603178		640	15.1	65.7	<0.002	0.02	3.48	10.0	<1	1.9	333	0.65	<0.05	11.65	0.268	1.05
W603179		620	15.6	96.1	<0.002	<0.01	3.33	9.5	<1	1.7	322	0.62	<0.05	10.70	0.270	1.15
W603180		510	21.0	73.7	<0.002	0.03	14.45	7.2	<1	1.8	182.0	0.57	0.08	6.97	0.228	1.54
W603181		570	9.5	85.9	<0.002	0.11	3.82	9.2	<1	2.0	233	0.58	<0.05	10.85	0.246	1.57
W603182		550	10.2	78.3	<0.002	0.06	2.21	9.1	1	1.9	286	0.61	<0.05	11.85	0.240	1.25
W603183		600	13.1	76.0	<0.002	0.05	3.01	8.6	<1	2.4	286	0.62	0.05	10.85	0.256	1.39
W603184		500	53.2	127.0	<0.002	0.22	5.61	8.0	<1	1.4	268	0.55	<0.05	12.15	0.215	1.71
W603185		600	51.3	138.5	<0.002	0.24	9.08	9.2	<1	1.6	100.5	0.60	<0.05	13.45	0.244	2.44
W603186		410	83.3	148.0	<0.002	2.09	24.0	6.6	<1	2.0	112.0	0.44	0.08	9.93	0.175	3.80
W603187		490	39.3	120.5	<0.002	0.70	22.2	7.4	<1	2.0	151.0	0.48	0.05	10.90	0.203	2.75
W603188		590	195.5	135.5	<0.002	0.25	18.30	9.4	<1	2.2	152.5	0.62	<0.05	13.30	0.248	2.00
W603189		70	0.6	0.7	<0.002	0.01	0.12	0.2	<1	<0.2	73.8	<0.05	<0.05	0.11	0.005	0.02
W603190		630	47.6	114.5	<0.002	0.36	32.5	9.5	<1	2.1	125.0	0.67	<0.05	15.35	0.265	1.95
W603191		610	18.0	112.5	<0.002	0.03	27.9	9.5	<1	1.7	100.5	0.62	<0.05	13.80	0.259	1.35
W603192		510	12.0	115.5	<0.002	0.24	22.5	8.2	1	1.6	72.4	0.50	<0.05	11.95	0.213	1.69
W603193		320	18.7	96.8	<0.002	0.45	13.20	5.8	1	1.6	56.7	0.35	<0.05	8.36	0.143	1.58
W603194		610	144.0	164.5	<0.002	1.04	7.91	9.2	1	2.1	59.3	0.58	<0.05	12.50	0.246	2.81
W603195		410	186.0	132.5	<0.002	0.39	13.55	6.4	<1	1.6	66.0	0.39	<0.05	10.15	0.158	2.25
W603196		490	20.0	161.0	<0.002	0.58	6.48	8.5	1	2.3	100.0	0.48	<0.05	12.20	0.196	2.68
W603197		460	1680	147.5	0.004	7.87	106.5	7.1	1	10.9	61.0	0.36	0.69	9.23	0.170	2.21
W603198		560	9.8	151.0	<0.002	0.21	6.41	8.3	<1	2.0	119.0	0.58	<0.05	12.00	0.230	2.70
W603199		610	14.0	131.0	0.002	0.24	12.65	9.1	<1	1.8	153.0	0.68	<0.05	12.60	0.261	2.60
W603200		560	13.4	95.3	<0.002	0.21	13.65	8.0	<1	1.5	173.0	0.57	<0.05	10.10	0.242	2.19
W603201		600	19.0	136.5	<0.002	0.40	19.45	8.3	<1	1.8	183.0	0.58	<0.05	11.40	0.247	2.93

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239261

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603162		4.7	58	2.3	14.4	88	43.7	0.026
W603163		4.2	58	2.6	12.1	64	36.6	0.387
W603164		2.7	67	4.0	13.8	47	41.7	<0.005
W603165		2.4	59	2.9	12.4	72	33.9	0.009
W603166		2.8	67	1.9	15.0	51	37.6	<0.005
W603167		3.6	73	1.7	14.4	413	39.8	0.016
W603168		4.0	73	1.8	16.5	401	39.5	0.022
W603169		2.9	61	1.6	14.3	197	29.1	0.035
W603170		3.4	60	3.8	13.0	1860	27.7	0.277
W603171		2.5	72	2.5	14.8	558	32.8	0.007
W603172		2.0	69	1.2	15.8	80	34.1	<0.005
W603173		2.0	70	1.2	14.0	81	33.5	<0.005
W603174		1.3	82	0.6	14.9	5240	50.3	0.257
W603175		2.4	60	2.4	16.0	117	40.1	<0.005
W603176		2.3	71	3.0	12.1	80	32.3	<0.005
W603177		2.3	47	1.4	11.4	85	22.8	<0.005
W603178		1.9	73	1.2	15.0	79	28.3	<0.005
W603179		2.0	69	1.5	14.6	65	29.9	<0.005
W603180		3.7	64	2.2	15.9	173	27.7	0.041
W603181		2.5	70	1.4	15.1	112	27.3	0.007
W603182		2.0	61	1.4	13.9	63	25.4	<0.005
W603183		1.7	62	1.5	13.8	80	23.7	<0.005
W603184		2.9	55	1.3	14.9	149	23.8	0.009
W603185		4.3	73	2.1	15.6	137	29.2	0.009
W603186		8.2	110	4.3	16.2	105	19.6	0.043
W603187		6.6	106	4.2	14.5	120	18.0	0.017
W603188		2.3	68	2.9	15.9	775	22.1	0.093
W603189		0.1	2	<0.1	1.8	7	1.3	<0.005
W603190		3.4	63	3.4	15.4	1640	30.6	0.015
W603191		2.2	65	4.4	17.0	103	29.9	<0.005
W603192		2.2	61	3.8	14.1	102	21.4	<0.005
W603193		2.4	45	4.6	11.6	110	14.0	0.006
W603194		2.7	69	2.3	14.1	206	20.7	0.116
W603195		2.6	47	1.5	10.4	427	17.3	0.031
W603196		3.3	62	2.3	16.6	99	23.1	0.008
W603197		5.1	56	7.7	8.4	3350	21.3	1.665
W603198		3.1	57	1.7	14.7	74	23.8	<0.005
W603199		3.5	67	1.6	15.3	76	30.1	<0.005
W603200		3.6	63	2.4	14.3	49	27.2	<0.005
W603201		4.5	67	4.9	14.3	66	44.5	0.023

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239261

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239268

Project: Klaza

P.O. No.: 19-018

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239268

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W604194		2.34			8.33	3.53	517	150	0.92	7.97	3.33	131.0	23.2	5.9	4	6.56
W604195		1.29			1.23	6.56	130.5	660	1.25	2.13	1.29	8.32	49.9	7.9	7	9.74
W604196		1.44			0.48	7.54	23.0	1830	1.88	1.06	2.02	5.21	51.9	6.8	7	21.2
W604197		1.82			0.47	7.65	24.9	920	1.65	1.39	2.15	1.98	56.6	7.6	8	20.7
W604198		4.18			0.24	7.55	25.9	1930	1.60	0.95	1.69	4.15	53.5	6.1	7	18.25
W604199		<0.02			0.25	7.49	27.5	1910	1.70	0.95	1.66	4.22	54.9	6.3	7	19.85
W604200		5.79			0.56	7.96	14.8	2290	1.86	0.89	2.81	8.75	49.2	6.8	8	23.3
W604201		5.16			0.09	7.48	9.6	2320	1.72	0.35	2.41	0.58	45.3	6.6	10	13.35
W604202		5.13			0.12	7.25	15.4	2250	1.52	0.60	2.60	0.90	44.8	6.8	8	11.80
W604203		4.59			0.06	7.47	10.8	2450	1.75	0.18	2.57	0.68	42.3	6.0	9	10.20
W604204		4.46			0.12	7.39	10.4	2280	1.74	0.34	2.55	0.22	48.9	6.3	10	9.84
W604205		0.26	102	1.010	>100	5.73	260	630	0.75	5.18	1.52	25.6	18.60	10.9	63	0.88
W604206		2.71			0.16	7.50	9.2	2320	1.75	0.40	2.71	0.15	48.1	6.6	9	10.05
W604207		1.31			0.17	7.08	11.9	2920	1.61	0.69	2.68	0.09	42.6	5.9	8	16.90
W604208		2.22			0.12	7.78	8.5	2270	1.73	0.40	2.77	1.31	51.1	5.9	9	10.35
W604209		2.53			0.77	7.93	129.5	1370	2.24	0.89	0.99	21.7	64.0	7.4	8	25.7
W604210		5.37			<0.01	0.13	0.4	30	0.08	0.02	35.0	0.06	1.41	1.3	1	0.09
W604211		3.47			1.07	6.30	147.5	530	1.42	1.29	2.79	6.46	46.7	11.5	9	18.00
W604212		5.00			0.12	7.42	13.3	2310	1.67	0.29	2.08	2.55	46.0	7.4	9	23.2
W604213		4.61			0.06	7.90	10.9	2230	1.34	0.10	1.75	2.45	51.3	6.5	8	25.4
W604214		4.39			0.05	7.59	7.1	2350	1.63	0.10	2.85	0.11	44.0	6.7	10	16.75
W604215		4.78			0.11	7.31	12.8	2410	1.61	0.23	2.55	0.12	46.5	6.8	10	23.0
W604216		1.61			0.13	8.04	21.4	2910	1.23	0.20	1.00	0.14	61.9	6.9	8	35.4
W604217		1.72			0.10	8.07	19.5	3750	1.22	0.20	0.84	0.13	57.0	6.4	7	34.0
W604218		1.97			0.09	7.56	24.7	4730	1.26	0.18	1.03	0.91	58.0	6.5	8	22.2
W604219		4.08			0.08	7.60	11.8	2130	1.58	0.16	2.17	0.20	45.4	6.6	9	33.5
W604220		5.34			0.06	7.59	9.7	2420	1.71	0.11	2.57	0.14	46.2	7.1	12	22.3
W604221		5.28			0.07	7.69	9.9	2490	1.64	0.14	2.76	0.12	46.9	7.4	11	17.90
W604222		5.50			0.04	7.51	6.2	2340	1.78	0.07	2.64	0.14	48.4	7.3	11	18.85
W604223		2.79			0.11	7.54	7.7	2230	1.90	0.21	2.67	0.10	46.8	6.9	10	21.6
W604224		1.47			0.06	7.19	11.6	2330	1.15	0.21	2.46	0.17	38.4	8.2	8	42.0
W604225		0.28			40.8	5.89	2670	420	1.27	37.1	1.72	47.5	35.7	17.2	23	9.83
W604226		3.30			0.13	8.49	8.7	2430	1.68	0.16	0.94	0.17	52.9	7.2	8	19.45
W604227		2.16			0.23	7.51	10.5	1310	1.51	0.30	0.46	0.42	70.9	3.5	5	11.85
W604228		2.67			0.23	8.84	19.7	2560	1.53	0.14	0.30	0.07	49.6	7.4	8	11.10
W604229		4.35			0.25	8.62	44.0	2360	1.45	0.17	0.61	0.24	59.4	6.3	9	18.90
W604230		3.60			0.30	7.29	60.1	1810	1.64	0.57	2.46	0.40	49.2	7.7	9	22.0
W604231		2.99			0.68	7.35	74.4	1560	1.61	1.49	2.37	0.31	49.9	13.2	10	15.35
W604232		1.74			0.98	5.96	149.0	960	1.45	2.28	4.37	0.34	49.7	28.9	7	7.94
W604233		3.67			0.14	7.87	11.3	2310	1.55	0.44	1.70	0.10	46.8	6.4	9	13.45

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239268

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W604194		234	7.03	8.97	0.09	0.7	2.79	1.65	10.4	19.0	1.18	17400	3.33	0.02	3.3	2.6
W604195		11.6	6.21	13.50	0.11	0.9	0.307	3.26	27.0	8.9	0.65	2640	3.76	0.03	6.3	4.0
W604196		13.3	3.78	14.35	0.13	1.1	0.183	3.41	28.9	9.2	0.83	2390	1.28	0.03	6.5	2.4
W604197		7.8	4.00	15.60	0.13	1.1	0.151	3.12	32.6	34.2	0.78	1480	1.28	0.05	7.3	2.5
W604198		13.6	2.77	13.60	0.13	1.4	0.108	3.43	29.2	19.5	0.62	819	1.41	0.48	6.9	1.8
W604199		14.4	2.75	14.15	0.14	1.5	0.109	3.38	30.7	19.9	0.61	805	2.26	0.47	7.1	2.0
W604200		12.4	3.43	16.15	0.14	1.3	0.416	3.30	25.3	15.8	0.84	824	1.54	1.53	7.8	2.5
W604201		8.6	2.93	15.00	0.14	1.3	0.077	2.75	22.7	14.8	0.76	615	1.15	1.77	7.4	2.2
W604202		12.4	3.00	14.25	0.12	1.3	0.108	2.82	22.4	16.0	0.72	746	1.01	1.45	6.9	2.2
W604203		9.3	2.90	14.95	0.14	1.2	0.066	2.72	20.6	12.4	0.77	598	1.51	2.22	7.2	2.2
W604204		12.8	3.24	15.00	0.13	1.3	0.062	2.75	25.5	14.6	0.81	697	1.91	2.08	7.5	2.2
W604205		6360	5.92	11.30	0.12	2.0	0.458	1.18	8.7	14.8	1.15	1780	20.2	1.67	3.1	27.3
W604206		14.9	3.23	15.05	0.13	1.4	0.071	2.73	24.7	12.3	0.84	749	1.77	2.15	7.5	2.3
W604207		7.2	2.99	14.45	0.13	1.2	0.094	2.92	22.4	14.2	0.71	745	1.71	1.60	6.5	2.1
W604208		11.8	3.02	14.60	0.14	1.3	0.078	2.83	26.2	12.2	0.81	688	1.80	2.31	7.2	2.2
W604209		80.8	3.66	16.45	0.14	1.4	0.444	3.35	34.3	31.4	0.45	1720	2.12	0.11	8.3	2.6
W604210		2.5	0.13	0.39	0.15	0.1	0.005	0.04	1.3	1.1	1.80	125	0.05	0.05	0.2	0.2
W604211		18.6	4.30	13.75	0.11	1.0	0.154	2.65	24.7	20.3	1.02	1520	2.86	0.03	6.2	2.3
W604212		6.4	2.99	16.15	0.10	1.3	0.068	2.77	23.8	50.7	0.57	789	1.05	1.17	8.1	2.3
W604213		8.7	2.99	16.00	0.09	1.3	0.044	2.78	27.3	52.2	0.54	748	0.90	0.97	7.9	2.1
W604214		5.7	2.93	16.65	0.13	1.2	0.054	2.72	22.4	15.6	0.79	665	1.15	2.31	8.0	2.3
W604215		9.8	2.85	16.15	0.12	1.2	0.084	2.68	23.9	28.0	0.64	772	1.08	1.61	8.0	2.2
W604216		9.5	2.95	17.10	0.11	1.1	0.074	1.59	34.1	81.2	0.43	832	1.35	0.05	8.5	2.6
W604217		8.8	2.82	17.55	0.11	1.1	0.070	1.64	32.0	79.3	0.39	765	1.20	0.05	8.3	2.5
W604218		6.2	2.69	15.45	0.10	1.0	0.050	1.93	32.0	76.0	0.46	902	1.78	0.04	7.6	2.4
W604219		5.4	2.98	16.55	0.11	1.2	0.049	2.81	22.7	34.1	0.61	647	1.28	1.75	8.0	2.3
W604220		6.5	2.88	16.75	0.13	1.2	0.041	2.75	24.6	21.9	0.79	572	1.39	2.53	8.1	2.3
W604221		7.5	2.89	16.90	0.14	1.1	0.047	2.81	23.8	18.3	0.76	652	1.00	2.34	8.1	2.9
W604222		5.9	2.89	17.10	0.15	1.3	0.045	2.79	24.9	21.0	0.80	573	0.99	2.47	8.5	2.8
W604223		8.6	2.91	17.25	0.15	1.3	0.045	2.81	24.5	15.0	0.68	581	1.19	2.18	8.5	2.5
W604224		13.6	2.73	16.55	0.13	1.2	0.047	2.74	19.9	52.4	0.63	451	1.02	0.20	8.1	2.3
W604225		1230	9.26	14.60	0.15	0.8	1.575	2.68	18.6	16.7	0.69	2350	16.20	0.06	4.8	14.8
W604226		8.1	3.07	17.90	0.14	1.5	0.048	3.09	27.5	38.0	0.67	332	1.28	0.41	9.5	2.7
W604227		7.4	1.69	14.55	0.15	2.2	0.037	3.54	38.5	38.8	0.31	215	1.91	0.11	9.1	1.7
W604228		17.2	2.25	17.05	0.13	1.6	0.052	3.18	25.3	44.8	0.45	228	1.34	0.10	12.1	2.8
W604229		8.6	2.65	17.35	0.13	1.1	0.065	3.07	33.4	66.8	0.46	335	1.63	0.09	9.5	2.7
W604230		8.7	3.20	17.10	0.15	0.9	0.157	2.84	26.1	35.7	0.75	1020	1.79	0.05	7.9	2.5
W604231		6.1	3.68	16.25	0.14	0.9	0.316	3.07	27.6	20.5	0.84	1200	1.48	0.04	7.0	2.9
W604232		6.5	5.07	14.20	0.13	0.7	0.421	2.97	28.4	12.2	1.54	1640	2.68	0.04	5.7	3.2
W604233		3.7	3.22	18.10	0.14	1.0	0.077	3.06	24.8	18.9	0.81	558	1.58	0.91	8.6	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239268

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W604194		300	805	105.0	<0.002	4.65	53.7	4.3	<1	5.8	60.4	0.36	0.34	9.79	0.098	1.50
W604195		540	127.5	232	<0.002	3.78	12.50	9.3	1	4.9	22.7	0.48	0.51	11.20	0.235	3.36
W604196		590	119.0	219	<0.002	1.14	9.25	8.9	<1	2.6	71.4	0.52	0.27	12.85	0.245	3.44
W604197		590	21.4	179.0	<0.002	1.82	11.30	9.9	1	3.0	91.2	0.58	0.37	14.20	0.253	2.61
W604198		500	29.1	133.0	<0.002	0.37	8.84	7.4	<1	3.0	107.0	0.72	0.22	16.70	0.215	1.93
W604199		510	31.2	137.0	<0.002	0.37	9.32	7.4	<1	3.0	110.0	0.76	0.22	17.80	0.211	2.03
W604200		650	89.8	116.5	<0.002	0.31	4.11	9.4	<1	2.9	296	0.67	0.18	12.25	0.281	1.94
W604201		590	17.2	97.0	<0.002	0.14	3.52	8.7	<1	2.1	300	0.60	0.07	10.90	0.264	1.35
W604202		590	15.0	96.2	<0.002	0.36	4.39	8.6	<1	2.1	251	0.64	0.11	10.75	0.255	1.60
W604203		600	19.5	92.0	<0.002	0.04	1.79	8.6	<1	1.7	377	0.62	<0.05	11.10	0.261	1.08
W604204		600	17.6	94.1	<0.002	0.16	1.26	8.8	<1	2.2	363	0.64	0.05	11.45	0.266	1.23
W604205		470	>10000	28.6	0.009	2.42	473	10.6	1	2.1	199.5	0.21	1.17	2.05	0.255	0.54
W604206		590	21.0	102.0	<0.002	0.10	1.53	9.7	<1	2.2	360	0.68	0.05	12.30	0.269	1.32
W604207		550	17.1	109.0	<0.002	0.37	1.94	8.1	<1	2.0	321	0.59	0.18	11.20	0.236	1.65
W604208		600	28.5	98.0	<0.002	0.18	1.82	8.6	<1	1.8	378	0.62	0.08	12.55	0.267	1.28
W604209		570	223	180.5	<0.002	1.34	14.25	12.0	<1	4.8	80.5	0.68	0.09	15.05	0.279	2.84
W604210		70	0.9	1.4	<0.002	0.01	0.09	0.2	<1	<0.2	82.2	<0.05	<0.05	0.19	0.006	0.02
W604211		460	128.5	144.5	<0.002	2.74	21.3	8.6	1	2.8	66.4	0.46	0.30	10.70	0.200	2.20
W604212		610	18.5	110.5	<0.002	0.14	16.15	9.7	<1	1.6	231	0.67	<0.05	12.70	0.260	1.50
W604213		630	17.4	101.0	<0.002	0.02	23.6	9.8	<1	1.7	221	0.63	<0.05	12.65	0.266	1.21
W604214		610	17.3	96.7	<0.002	0.03	1.66	10.0	1	1.7	390	0.64	<0.05	10.90	0.262	1.18
W604215		590	16.3	98.0	<0.002	0.13	7.47	9.5	<1	2.0	289	0.67	<0.05	11.10	0.258	1.32
W604216		650	19.5	77.8	<0.002	0.19	41.9	11.2	<1	1.9	172.0	0.63	<0.05	14.00	0.274	0.97
W604217		640	19.8	77.1	<0.002	0.19	41.6	10.9	<1	1.9	174.5	0.64	<0.05	14.00	0.272	1.05
W604218		620	18.2	87.5	<0.002	0.21	47.9	10.0	<1	1.7	162.5	0.60	<0.05	13.35	0.251	1.13
W604219		630	16.3	107.5	<0.002	0.02	11.60	9.9	<1	1.7	299	0.65	<0.05	11.50	0.267	1.26
W604220		610	16.0	100.0	<0.002	0.01	1.51	10.0	<1	1.4	403	0.64	<0.05	11.90	0.265	1.11
W604221		620	18.0	102.0	<0.002	0.10	1.22	10.2	<1	1.4	368	0.65	<0.05	12.35	0.269	1.27
W604222		610	17.2	102.5	<0.002	0.01	0.86	10.2	<1	1.5	386	0.73	<0.05	12.90	0.266	1.10
W604223		630	18.4	102.0	<0.002	0.16	3.98	10.1	<1	1.7	344	0.70	<0.05	13.15	0.272	1.16
W604224		600	16.9	90.8	<0.002	0.14	24.4	9.7	<1	1.9	123.5	0.65	<0.05	10.95	0.258	1.35
W604225		460	1705	147.0	0.002	8.02	102.5	8.0	1	10.8	62.0	0.42	0.69	9.23	0.173	2.29
W604226		670	20.4	132.0	<0.002	0.02	11.00	10.8	1	2.0	119.5	0.84	<0.05	15.10	0.285	1.33
W604227		370	22.0	181.5	<0.002	0.06	16.80	6.8	<1	1.7	51.7	1.50	0.11	27.1	0.156	1.59
W604228		750	19.4	146.5	0.002	0.04	12.15	10.5	<1	3.4	64.2	1.18	<0.05	16.05	0.317	1.38
W604229		710	22.6	136.5	<0.002	0.06	19.20	12.1	1	2.3	72.0	0.75	<0.05	14.45	0.306	1.47
W604230		610	29.4	125.5	<0.002	0.74	10.65	11.0	<1	2.3	71.8	0.62	0.12	11.60	0.259	2.00
W604231		560	26.1	178.0	<0.002	1.48	8.35	9.8	1	3.0	68.9	0.55	0.38	11.90	0.229	2.40
W604232		480	21.2	191.5	<0.002	3.29	5.29	9.4	<1	4.4	87.0	0.45	0.73	8.91	0.175	2.52
W604233		660	17.1	126.0	<0.002	0.32	6.16	10.6	<1	2.1	168.5	0.76	0.05	12.25	0.278	1.38

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239268

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W604194		4.0	31	5.5	8.5	7060	14.9	3.66
W604195		3.2	64	7.9	8.5	1700	21.3	0.111
W604196		3.7	66	5.4	12.2	535	26.4	0.019
W604197		4.0	69	4.2	15.5	306	28.1	0.021
W604198		4.7	57	3.0	14.2	471	33.1	0.006
W604199		4.8	57	3.2	14.8	476	35.2	0.006
W604200		3.7	74	2.4	16.7	602	36.0	0.006
W604201		3.0	69	3.3	15.8	72	31.7	<0.005
W604202		3.3	71	2.4	15.2	102	29.5	0.007
W604203		3.0	68	1.5	15.0	117	31.2	<0.005
W604204		3.4	70	1.4	16.5	56	31.8	0.010
W604205		1.4	83	0.6	14.2	5310	56.9	0.270
W604206		3.6	74	2.0	17.7	57	32.7	0.008
W604207		3.6	64	1.6	14.0	48	27.8	0.020
W604208		2.7	70	1.6	16.4	62	30.0	0.005
W604209		4.3	80	3.8	18.4	814	33.6	0.021
W604210		0.1	1	0.1	2.2	8	2.2	<0.005
W604211		5.9	58	5.3	12.0	429	25.4	0.227
W604212		4.0	69	2.5	15.2	241	30.9	0.010
W604213		2.5	69	6.3	16.6	235	32.0	<0.005
W604214		3.5	69	1.5	16.5	55	31.3	<0.005
W604215		3.7	69	3.0	16.5	62	29.7	0.006
W604216		4.1	72	7.7	16.9	57	29.1	0.008
W604217		4.0	71	7.7	16.0	55	28.6	0.006
W604218		5.7	64	5.6	15.3	130	26.2	0.007
W604219		3.7	73	2.5	16.3	62	29.6	<0.005
W604220		3.1	71	1.6	16.5	49	30.8	<0.005
W604221		3.4	72	1.7	16.7	51	29.7	<0.005
W604222		3.9	69	1.2	17.2	46	35.3	<0.005
W604223		3.9	72	1.6	16.7	49	34.7	<0.005
W604224		2.2	73	7.2	15.5	69	31.2	0.008
W604225		5.5	57	7.9	9.2	3430	23.5	1.800
W604226		3.1	72	11.4	16.1	85	36.7	<0.005
W604227		5.9	37	11.1	15.9	96	44.8	0.005
W604228		3.3	72	36.4	14.1	77	38.9	<0.005
W604229		2.4	76	18.4	16.4	104	29.2	<0.005
W604230		3.9	71	4.2	15.9	132	23.8	0.045
W604231		3.4	67	2.7	14.0	79	22.1	0.124
W604232		6.1	62	2.0	14.9	52	16.7	0.124
W604233		4.1	75	5.1	16.3	64	25.2	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239268

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239273

Project: Klaza

P.O. No.: 19-019

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239273

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W603202		3.54		1.20	6.96	96.9	3270	1.82	2.15	2.18	0.48	48.9	4.5	7	30.5	4.2
W603203		3.56		0.24	7.09	43.4	500	1.78	0.12	2.23	0.27	58.9	7.2	23	22.9	14.3
W603204		4.61		0.19	7.05	44.6	370	1.96	0.16	2.48	0.35	56.8	7.7	24	25.9	14.5
W603205		1.69		11.45	6.66	120.5	2010	1.71	0.40	3.27	13.35	34.0	21.2	8	17.90	35.4
W603206		3.72		0.13	7.30	17.7	2460	1.59	0.11	2.53	0.29	39.2	3.1	8	12.55	2.5
W603207		2.33		0.12	7.43	16.7	2550	1.56	0.15	2.23	0.26	36.9	2.4	9	9.09	1.5
W603208		1.75		0.11	7.57	18.2	2020	1.72	0.18	1.94	0.19	46.2	3.2	9	9.03	2.1
W603209		1.86		0.09	7.22	8.8	1840	1.48	0.13	2.84	0.15	38.7	3.5	9	9.21	1.5
W603210		1.47		0.09	7.37	9.3	2060	1.51	0.16	2.85	0.16	41.2	3.8	11	9.63	1.9
W603211		3.51		0.07	7.29	8.3	2090	1.62	0.09	2.40	0.13	43.5	4.1	9	9.29	2.3
W603212		2.71		1.86	7.07	399	2180	1.46	0.27	2.23	6.88	48.5	3.8	7	12.50	13.8
W603213		2.77		0.89	6.59	118.0	1070	1.47	0.19	2.31	3.96	44.5	3.4	7	17.05	10.4
W603214		1.78		1.24	6.81	475	2470	1.58	0.15	1.16	3.16	47.1	4.4	9	16.15	8.6
W603215		1.72		60.7	4.22	1005	130	1.08	14.55	3.35	15.65	28.4	85.1	6	7.65	1270
W603216		5.06		0.08	0.21	1.7	30	0.13	0.03	32.4	0.04	1.01	0.5	1	0.07	5.3
W603217		3.23		0.25	7.25	18.8	2410	1.44	0.12	2.68	0.46	40.6	5.6	9	15.10	4.8
W603218		3.61		0.09	7.14	10.4	2850	1.42	0.09	2.92	0.12	34.7	4.9	10	12.15	2.8
W603219		2.59		0.13	7.13	7.0	2560	1.37	0.17	2.15	0.13	45.7	7.2	7	9.61	3.6
W603220		2.91		0.08	7.39	5.9	2380	1.56	0.07	2.91	0.09	40.8	5.0	9	10.85	2.3
W603221		1.68		0.10	5.83	10.2	1640	1.32	0.23	4.09	0.14	32.4	6.4	7	10.35	3.2
W603222		1.75		0.20	6.29	24.5	990	1.57	0.20	2.77	0.19	43.0	10.1	6	17.10	7.2
W603223		2.65		0.04	7.29	7.3	2280	1.35	0.12	1.89	0.07	40.1	3.8	6	15.05	3.1
W603224		<0.02		0.06	7.10	8.1	2230	1.36	0.11	1.84	0.07	40.3	4.0	7	14.80	3.3
W603225		3.77		0.08	6.98	8.8	2490	1.55	0.10	2.53	0.13	40.1	4.4	8	11.60	3.7
W603226		4.61		0.15	6.83	11.3	1980	1.44	0.07	2.20	0.14	43.3	5.8	7	15.00	3.7
W603227		0.26	102	>100	5.23	245	480	0.63	4.67	1.38	25.0	18.40	11.3	60	0.86	5720
W603228		2.60		0.24	7.03	5.3	2030	1.33	0.08	2.50	0.29	44.5	6.3	8	8.11	5.1
W603229		3.05		0.86	6.62	55.3	1400	1.52	0.23	4.70	6.22	47.6	8.8	7	10.70	12.4
W603230		1.57		0.23	7.53	4.7	2240	1.28	0.06	2.17	0.16	46.8	5.5	8	9.75	3.5
W603231		5.26		0.14	7.32	6.6	2670	1.59	0.17	3.13	0.10	41.8	5.8	10	8.21	4.8
W603232		2.75		0.11	6.87	18.6	2340	1.57	0.15	2.91	0.09	35.0	4.6	9	8.62	3.3
W603233		3.45		0.20	7.60	9.9	5000	1.42	0.44	2.73	0.12	40.5	11.0	9	8.55	6.1
W603234		2.14		0.58	6.84	141.5	1070	1.76	0.52	2.84	1.39	42.9	12.0	6	26.8	4.4
W603235		3.61		0.76	6.69	8.4	1920	1.39	0.16	2.30	0.12	36.5	5.7	8	12.35	4.4
W603236		3.00		0.47	5.74	25.9	2500	1.26	0.13	2.99	0.21	35.2	4.5	6	20.8	3.1
W603237		3.11		0.49	6.57	7.4	2420	1.36	0.16	2.90	0.18	37.8	8.4	6	18.85	7.1
W603238		3.76		0.33	5.82	7.6	1920	1.67	0.34	3.56	0.08	20.5	7.5	6	15.65	2.1
W603239		3.74		0.22	5.96	8.5	1260	1.88	0.28	4.39	0.08	17.30	11.0	6	24.9	1.2
W603240		3.25		0.25	6.39	7.6	1430	1.26	0.13	3.64	0.06	33.2	2.9	8	8.23	2.1
W603241		0.26		40.1	5.85	2650	230	1.18	31.4	1.72	48.8	37.7	16.5	23	9.70	1170

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239273

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W603202		2.53	14.95	0.13	1.8	0.079	2.81	26.2	29.5	0.75	1300	2.19	0.04	7.4	3.9	610
W603203		2.65	18.30	0.14	4.6	0.029	1.24	28.8	319	0.73	710	2.64	0.04	10.8	9.4	1340
W603204		2.65	20.2	0.12	5.1	0.032	1.30	28.2	276	0.70	744	1.69	0.04	11.1	9.7	1360
W603205		3.69	16.60	0.15	1.4	0.112	2.98	15.7	21.6	0.74	2260	1.14	1.31	8.2	2.7	610
W603206		2.75	16.95	0.14	1.3	0.073	2.67	21.1	15.0	0.47	521	0.84	2.23	8.1	2.3	590
W603207		2.67	15.95	0.14	1.2	0.069	2.53	19.6	14.2	0.70	535	0.60	2.66	8.1	2.1	610
W603208		3.14	16.70	0.16	1.3	0.098	1.91	25.9	19.9	0.88	791	0.39	2.89	8.9	2.5	610
W603209		2.77	15.90	0.15	1.1	0.054	2.21	19.7	13.4	0.69	843	0.49	2.59	8.1	2.1	600
W603210		2.96	16.30	0.18	1.1	0.070	2.31	21.0	13.8	0.75	905	0.51	2.64	8.3	2.4	620
W603211		2.70	16.90	0.16	1.2	0.051	2.75	23.5	13.3	0.69	555	0.66	2.13	8.2	2.4	570
W603212		3.32	16.50	0.15	1.1	0.207	2.85	27.5	51.1	0.63	3010	2.30	0.06	7.6	2.2	560
W603213		2.70	16.30	0.15	1.1	0.121	2.55	23.7	87.0	0.71	2830	1.78	0.03	7.3	2.0	520
W603214		2.87	15.35	0.14	1.0	0.092	2.58	27.7	63.3	0.42	2990	4.16	0.03	7.2	2.4	530
W603215		7.42	10.05	0.11	0.6	2.17	1.96	17.2	23.5	1.11	6970	9.65	0.02	4.0	3.6	280
W603216		0.13	0.68	0.08	0.1	<0.005	0.07	1.1	1.4	1.59	123	0.10	0.11	0.5	0.4	60
W603217		2.70	17.30	0.20	1.3	0.044	2.75	20.6	16.4	0.68	1040	0.66	2.29	8.3	2.4	590
W603218		2.71	16.95	0.18	1.2	0.052	2.81	18.0	17.1	0.72	654	0.77	2.18	8.0	2.4	610
W603219		2.73	15.50	0.19	1.0	0.055	2.66	24.7	23.6	0.77	503	2.51	2.24	7.7	2.2	560
W603220		2.82	17.15	0.16	1.2	0.045	2.71	22.3	18.1	0.67	526	1.30	2.19	8.2	2.2	580
W603221		1.94	15.10	0.16	1.0	0.111	2.48	15.4	56.0	0.34	685	0.80	1.41	7.3	1.7	490
W603222		2.55	14.75	0.15	1.1	0.131	2.60	23.2	80.8	0.78	1400	1.52	0.13	7.0	2.1	490
W603223		2.51	16.50	0.16	1.2	0.086	2.88	21.3	47.0	0.42	660	1.21	0.99	8.1	1.7	550
W603224		2.46	16.10	0.17	1.1	0.089	2.80	21.4	45.6	0.40	641	1.04	0.96	8.0	1.6	540
W603225		2.58	16.25	0.18	1.2	0.044	2.88	21.3	12.5	0.59	539	1.15	2.19	8.0	2.1	540
W603226		2.51	15.75	0.18	1.2	0.038	2.93	23.5	20.4	0.56	601	0.72	1.57	7.7	2.2	500
W603227		5.46	12.10	0.11	1.4	0.425	1.06	8.1	13.4	1.05	1660	23.1	1.54	3.2	27.1	430
W603228		2.62	14.95	0.19	1.2	0.034	2.71	23.7	20.8	0.65	604	0.60	1.78	7.7	2.2	550
W603229		2.96	15.00	0.17	1.2	0.282	2.87	26.9	18.7	0.61	2520	0.70	0.66	6.9	2.0	510
W603230		2.64	15.85	0.16	1.3	0.040	2.98	25.5	23.7	0.63	586	0.64	1.51	8.1	2.3	570
W603231		2.89	17.05	0.17	1.2	0.057	3.12	21.1	14.2	0.68	825	1.13	1.68	8.4	2.4	590
W603232		2.92	16.45	0.17	1.2	0.059	2.83	17.3	14.2	0.65	654	0.53	1.90	8.0	2.1	580
W603233		4.53	17.90	0.20	1.1	0.073	3.61	20.5	18.8	0.67	667	0.26	1.99	8.7	2.9	630
W603234		3.39	18.10	0.15	1.2	0.129	2.65	22.1	54.1	0.75	2440	2.75	0.19	7.7	2.5	550
W603235		2.58	16.20	0.19	1.2	0.059	2.89	18.1	37.7	0.49	672	0.79	1.09	8.0	2.3	550
W603236		2.07	14.65	0.16	1.2	0.046	2.91	17.6	32.9	0.50	1420	0.55	0.41	7.2	2.1	490
W603237		2.79	15.75	0.18	1.2	0.049	2.37	19.6	42.6	0.68	560	1.41	0.98	8.0	2.6	560
W603238		2.66	15.45	0.15	0.9	0.273	2.00	9.7	39.9	0.66	918	0.24	0.56	6.8	2.8	500
W603239		2.70	15.40	0.15	0.9	0.262	1.91	8.2	37.4	0.59	1140	0.23	0.49	7.0	2.0	530
W603240		2.58	14.20	0.09	1.1	0.098	1.64	14.7	15.3	0.64	859	0.69	1.79	6.6	2.5	520
W603241		9.32	13.30	0.12	0.9	1.675	2.64	17.4	16.5	0.68	2320	18.40	0.06	4.5	15.0	460

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239273

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W603202		43.2	133.5	<0.002	0.40	14.75	9.4	1	1.4	206	0.58	<0.05	11.65	0.242	2.95	4.7
W603203		16.9	37.4	<0.002	0.05	21.6	5.9	<1	1.4	528	0.68	<0.05	8.01	0.352	0.99	4.7
W603204		17.6	37.6	<0.002	0.03	17.25	5.6	1	1.4	448	0.71	<0.05	7.74	0.359	0.96	4.7
W603205		338	115.5	<0.002	1.21	22.8	9.4	1	2.2	284	0.63	0.31	9.10	0.256	2.06	2.7
W603206		18.8	101.0	<0.002	0.03	3.73	9.1	1	1.8	356	0.59	<0.05	10.20	0.251	1.28	2.2
W603207		17.4	88.8	<0.002	0.01	3.49	9.1	<1	1.9	391	0.60	<0.05	11.35	0.259	1.14	2.3
W603208		15.1	80.9	<0.002	0.01	4.91	9.3	<1	2.3	290	0.70	<0.05	12.10	0.267	0.97	2.4
W603209		15.3	77.3	<0.002	0.05	2.71	9.1	1	1.8	356	0.61	<0.05	9.70	0.257	1.11	2.3
W603210		16.2	77.3	<0.002	0.06	2.90	9.8	1	2.1	364	0.60	<0.05	10.35	0.272	1.17	2.5
W603211		15.8	116.0	<0.002	0.02	3.47	9.7	<1	1.8	317	0.62	<0.05	12.20	0.248	1.49	2.3
W603212		383	154.5	0.002	0.95	15.80	9.0	1	3.0	121.0	0.59	<0.05	12.15	0.233	2.72	4.8
W603213		339	116.5	<0.002	0.52	13.75	8.9	<1	3.0	150.5	0.58	<0.05	10.35	0.225	2.88	4.1
W603214		154.0	151.5	<0.002	0.84	35.5	8.4	1	2.7	101.0	0.54	<0.05	12.25	0.221	2.55	5.1
W603215		733	122.0	0.002	6.82	351	4.9	1	3.0	45.4	0.32	0.97	6.49	0.127	1.80	2.6
W603216		1.9	1.9	<0.002	0.01	0.54	0.2	1	<0.2	77.3	0.06	<0.05	0.20	0.005	0.02	0.2
W603217		41.3	101.5	<0.002	0.17	4.04	9.4	<1	1.6	379	0.63	<0.05	10.00	0.253	1.43	3.6
W603218		14.3	101.5	<0.002	0.04	3.39	9.6	1	1.5	368	0.58	<0.05	8.75	0.261	1.32	3.0
W603219		15.5	100.5	<0.002	0.08	2.40	9.1	1	1.8	354	0.55	<0.05	11.00	0.249	0.97	3.2
W603220		13.2	97.2	<0.002	0.02	2.53	9.5	1	1.7	373	0.63	<0.05	10.90	0.254	0.97	3.2
W603221		10.5	89.7	<0.002	0.15	6.63	7.4	<1	2.0	264	0.56	<0.05	8.74	0.223	1.23	4.8
W603222		13.6	108.5	<0.002	0.33	11.70	8.1	1	2.3	107.0	0.54	0.06	10.30	0.210	2.11	5.0
W603223		11.3	113.5	<0.002	0.04	11.95	8.8	1	1.8	162.5	0.64	<0.05	10.75	0.239	1.33	2.9
W603224		11.7	112.0	<0.002	0.04	11.85	8.9	1	1.9	159.0	0.63	<0.05	11.15	0.235	1.34	3.0
W603225		14.9	105.0	<0.002	0.02	3.29	8.9	1	1.7	332	0.60	<0.05	10.80	0.239	1.15	3.0
W603226		15.3	118.0	0.002	0.16	4.75	8.4	<1	1.2	260	0.61	<0.05	11.45	0.226	1.65	3.1
W603227		9580	26.3	0.011	2.22	431	11.0	2	1.9	183.0	0.20	1.19	1.84	0.231	0.47	1.3
W603228		30.7	102.0	<0.002	0.02	4.79	8.4	<1	1.2	285	0.60	<0.05	11.65	0.236	1.17	2.4
W603229		277	140.5	<0.002	0.76	6.88	8.4	1	1.6	261	0.57	0.13	12.00	0.209	1.78	6.8
W603230		16.9	108.0	<0.002	0.02	3.27	8.6	1	1.4	223	0.62	<0.05	12.75	0.243	1.22	2.4
W603231		14.7	121.0	<0.002	0.09	3.29	9.9	1	1.6	292	0.65	<0.05	12.20	0.254	1.56	3.5
W603232		12.0	96.3	<0.002	0.11	3.19	8.6	<1	1.8	304	0.63	<0.05	9.67	0.249	1.33	3.3
W603233		16.8	102.5	<0.002	0.32	3.08	9.7	<1	2.3	426	0.62	<0.05	10.35	0.270	1.48	3.8
W603234		32.6	103.0	<0.002	0.90	11.55	8.6	1	2.3	142.5	0.61	<0.05	10.35	0.236	2.32	5.9
W603235		15.0	106.0	<0.002	0.11	5.75	8.6	1	1.6	198.0	0.62	<0.05	9.80	0.236	1.58	2.3
W603236		16.8	107.0	<0.002	0.33	7.53	8.0	<1	1.8	198.5	0.57	<0.05	9.38	0.214	2.10	4.4
W603237		22.8	75.5	<0.002	0.11	4.92	8.9	1	1.7	268	0.60	<0.05	9.57	0.245	1.15	3.9
W603238		6.3	76.8	<0.002	0.44	3.30	7.3	1	1.7	198.5	0.54	<0.05	8.84	0.203	1.57	3.2
W603239		5.4	70.3	<0.002	0.33	3.68	8.5	1	1.9	243	0.48	<0.05	7.42	0.220	1.54	5.2
W603240		13.3	52.0	<0.002	0.05	2.87	7.4	<1	1.8	292	0.53	<0.05	7.83	0.225	1.22	1.7
W603241		1650	146.0	<0.002	7.97	110.5	8.1	1	11.2	63.6	0.34	0.80	9.05	0.167	2.23	5.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239273

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W603202		65	2.8	13.4	104	58.4	0.049
W603203		62	1.6	10.3	95	195.0	<0.005
W603204		63	1.7	10.6	113	204	<0.005
W603205		65	2.0	12.9	1340	40.2	1.910
W603206		64	1.4	14.2	60	37.1	0.005
W603207		64	1.4	13.5	69	31.8	0.011
W603208		64	1.7	14.5	79	33.5	<0.005
W603209		65	1.0	14.9	56	31.1	<0.005
W603210		69	1.0	16.5	59	30.0	<0.005
W603211		64	1.0	15.0	47	31.6	<0.005
W603212		61	2.8	14.0	736	30.3	0.106
W603213		61	1.9	12.8	430	27.6	0.025
W603214		58	5.3	14.4	425	27.2	0.065
W603215		35	2.7	8.2	1430	14.9	1.485
W603216		1	<0.1	2.4	7	1.8	<0.005
W603217		67	1.0	15.8	79	33.3	<0.005
W603218		68	1.5	14.8	47	30.3	<0.005
W603219		63	1.3	13.7	49	25.7	<0.005
W603220		64	1.8	15.6	44	30.4	<0.005
W603221		57	1.3	12.7	48	26.6	<0.005
W603222		55	1.8	14.6	42	27.0	0.006
W603223		62	1.7	13.1	44	28.7	<0.005
W603224		61	1.6	13.2	43	30.3	<0.005
W603225		60	1.5	14.1	44	29.6	<0.005
W603226		59	1.4	13.9	40	30.6	<0.005
W603227		76	0.6	12.9	4880	64.1	0.275
W603228		60	2.9	14.5	57	31.6	<0.005
W603229		56	1.6	17.5	522	29.4	0.027
W603230		58	3.7	15.1	44	34.4	<0.005
W603231		67	1.4	15.1	52	31.8	<0.005
W603232		65	1.2	13.8	47	32.4	<0.005
W603233		67	2.1	14.9	60	29.8	<0.005
W603234		72	3.5	13.6	140	30.6	0.024
W603235		61	2.7	12.3	45	32.4	<0.005
W603236		54	2.7	12.1	36	29.7	<0.005
W603237		62	4.8	13.9	52	31.9	<0.005
W603238		47	2.1	11.8	55	25.4	<0.005
W603239		51	2.7	12.3	64	24.1	<0.005
W603240		58	2.8	10.3	53	30.5	<0.005
W603241		56	7.4	8.7	3350	22.0	1.660

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239273

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239275

Project: Klaza

P.O. No.: 19-020

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239275

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W603651		3.48		0.14	7.00	10.5	2890	1.61	0.56	2.47	0.06	36.0	7.4	10	6.77	5.3
W603652		1.46		0.64	6.82	136.0	950	1.60	0.80	2.49	1.39	46.3	9.6	8	11.60	3.3
W603653		4.28		0.38	6.89	44.3	1990	1.49	0.69	2.45	0.14	43.3	5.4	10	8.86	3.3
W603654		3.79		0.49	7.44	11.6	3040	1.43	0.32	1.62	0.18	54.9	13.4	8	6.48	57.3
W603655		2.37		0.69	6.46	32.5	1840	1.29	0.36	1.87	4.22	58.5	12.0	7	7.51	22.5
W603656		3.63		0.39	6.65	26.6	2370	1.35	0.24	2.02	0.19	40.4	7.1	9	7.24	37.2
W603657		3.72		0.12	6.76	16.5	2600	1.44	0.20	2.40	0.11	39.8	9.1	10	8.08	3.8
W603658		5.09		<0.01	0.13	<0.2	30	0.08	0.01	31.9	0.02	1.15	1.2	1	0.06	2.6
W603659		3.84		0.20	6.79	19.6	2560	1.38	0.17	2.06	0.09	46.2	5.3	12	8.58	3.7
W603660		2.60		0.40	6.32	57.4	1840	1.40	0.11	3.01	0.44	38.7	3.4	10	11.85	3.4
W603661		2.91		0.22	6.69	26.8	2580	1.40	0.11	2.08	0.08	36.8	3.0	9	11.05	2.7
W603662		3.58		0.19	6.51	20.9	2740	1.42	0.14	2.69	0.14	40.8	2.5	10	11.70	6.2
W603663		4.10		0.19	6.69	15.8	2400	1.56	0.23	2.55	0.04	34.8	5.7	8	10.10	13.3
W603664		3.62		0.38	6.86	31.3	2080	1.51	0.19	2.08	0.11	43.4	3.8	8	9.93	38.3
W603665		0.26	98	>100	5.42	252	600	0.64	4.64	1.43	24.8	17.85	10.9	63	0.85	5990
W603666		3.43		1.44	7.18	84.5	1710	1.65	0.17	2.47	0.72	51.5	3.4	8	11.45	160.0
W603667		2.23		0.18	6.86	15.7	2640	1.43	0.18	2.20	0.10	44.5	8.4	8	9.60	4.2
W603668		2.50		4.35	6.76	121.0	2110	1.70	0.15	1.87	14.10	47.7	3.2	7	29.6	84.5
W603669		4.37		1.25	6.91	36.8	1630	1.62	0.16	2.03	3.89	43.8	2.9	8	10.65	84.5
W603670		2.90		0.23	6.94	8.8	2690	1.57	0.22	2.38	0.12	41.4	2.8	11	7.95	20.7
W603671		1.09		2.20	6.90	48.4	2710	1.42	0.11	2.22	2.75	46.4	3.6	10	9.06	22.1
W603672		1.10		0.89	7.05	28.3	2410	1.42	0.10	2.07	1.84	47.1	3.5	10	9.41	21.6
W603673		2.84		0.39	6.93	53.2	3510	1.48	0.28	1.98	0.28	44.4	13.8	8	9.83	12.2
W603674		3.76		44.6	6.67	85.1	740	1.75	0.29	3.05	26.5	58.6	10.3	7	16.75	51.6
W603675		4.14		0.24	6.71	15.0	2790	1.37	0.28	2.78	0.09	35.6	5.0	10	9.99	11.3
W603676		2.88		0.24	7.12	6.6	2620	1.58	0.27	2.07	0.08	36.6	4.9	10	8.83	5.5
W603677		3.92		0.71	7.12	13.0	2340	1.64	0.52	2.55	0.39	44.0	6.3	11	9.54	9.1
W603678		1.77		0.22	6.89	16.5	2250	1.59	0.20	2.37	0.14	41.0	2.9	9	10.85	16.3
W603679		1.73		0.64	6.64	108.5	1810	1.65	0.21	2.41	1.50	42.1	4.5	10	9.47	21.7
W603680		0.26		39.8	5.63	2530	260	1.18	32.3	1.67	46.3	36.6	16.6	23	9.08	1140
W603681		3.18		0.17	6.87	8.8	2860	1.43	0.30	1.93	0.08	44.8	6.1	9	6.72	7.9
W603682		3.34		10.60	6.60	29.3	4290	1.51	0.16	2.99	5.71	47.0	6.6	9	12.35	16.4
W603683		1.06		71.6	5.17	82.3	880	1.30	0.26	4.89	27.9	41.9	13.2	5	11.65	94.1
W603684		<0.02		73.5	5.21	80.7	1040	1.37	0.27	4.85	27.0	42.7	12.6	5	11.65	92.5
W603685		3.73		0.23	7.28	10.6	2690	1.54	0.29	1.84	0.13	44.4	8.3	9	7.16	6.1
W603686		1.64		0.76	6.51	32.0	2220	1.43	0.18	2.97	4.20	38.3	3.6	13	14.40	7.0
W603687		2.86		0.28	7.10	11.3	2930	1.46	0.33	1.95	0.14	42.6	5.0	10	7.10	11.6
W603688		3.39		4.03	7.16	12.7	2850	1.42	0.50	2.00	0.19	40.9	16.0	10	5.49	273
W603689		3.41		0.22	7.11	11.0	2910	1.41	0.32	2.09	0.06	35.8	8.7	11	5.45	2.9
W603700		1.97		0.21	7.34	17.0	2990	1.49	0.33	1.34	0.12	41.1	12.9	12	7.22	7.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239275

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W603651		3.15	14.25	0.12	1.3	0.185	3.30	16.0	10.0	0.51	787	0.74	1.30	7.2	2.1	560
W603652		3.20	13.45	0.12	1.7	0.116	3.15	24.2	18.1	0.78	1340	1.77	0.04	6.7	2.4	450
W603653		2.70	13.40	0.13	1.5	0.134	3.45	22.2	11.5	0.50	847	1.81	0.85	7.2	1.8	460
W603654		3.94	14.55	0.14	1.3	0.395	3.40	30.1	21.7	0.76	1470	0.43	1.20	7.0	2.2	510
W603655		4.01	11.95	0.13	1.3	0.378	3.23	31.3	34.8	0.79	2080	0.47	0.28	6.0	2.0	400
W603656		3.56	13.35	0.10	1.2	0.271	3.46	20.6	18.8	0.77	1610	0.45	0.89	6.7	1.9	510
W603657		3.38	13.95	0.12	1.4	0.100	3.37	19.9	21.7	0.65	964	1.09	1.41	7.1	2.3	560
W603658		0.13	0.39	0.10	0.1	<0.005	0.04	1.2	1.0	1.77	119	0.05	0.06	0.2	0.2	60
W603659		3.41	14.05	0.18	1.4	0.120	3.51	24.1	23.3	0.57	1500	1.08	1.07	7.2	2.2	540
W603660		2.82	13.55	0.15	1.3	0.066	3.59	19.1	38.7	0.81	2610	1.29	0.22	6.5	1.9	490
W603661		2.56	13.75	0.14	1.6	0.072	3.80	18.1	22.5	0.53	1200	0.86	0.86	6.9	1.9	540
W603662		2.94	13.05	0.14	1.5	0.085	3.51	18.7	39.4	0.63	2480	0.78	0.71	6.9	1.7	490
W603663		3.15	14.20	0.12	1.2	0.132	3.63	16.6	10.1	0.82	1540	0.93	0.54	7.1	2.3	490
W603664		2.96	14.55	0.15	1.6	0.126	3.91	21.7	18.2	0.63	1960	1.15	0.66	7.6	1.9	530
W603665		5.63	10.95	0.12	1.7	0.432	1.12	8.2	12.8	1.09	1720	21.1	1.59	2.9	26.5	450
W603666		3.87	14.35	0.12	1.4	0.154	3.64	26.5	40.8	0.91	4730	1.25	0.06	7.2	2.2	580
W603667		3.31	13.40	0.12	1.5	0.178	3.64	22.6	47.2	0.81	1460	0.96	0.07	7.0	1.7	510
W603668		3.87	13.95	0.13	1.3	0.241	2.92	26.0	63.2	0.75	4620	2.51	0.04	6.6	2.6	510
W603669		3.59	14.95	0.12	1.2	0.222	3.29	20.0	54.1	0.69	3330	1.48	0.65	7.5	2.3	570
W603670		3.06	14.45	0.14	1.3	0.137	3.32	19.4	9.4	0.62	1010	1.34	1.88	7.3	2.1	570
W603671		3.63	14.40	0.14	1.4	0.182	3.58	23.5	19.0	0.67	2590	1.41	1.04	6.6	2.3	530
W603672		3.43	14.35	0.14	1.3	0.157	3.52	24.3	17.1	0.63	1940	1.26	1.25	7.0	2.1	520
W603673		4.36	14.10	0.14	1.2	0.231	3.78	22.1	20.4	0.77	2830	1.56	0.79	7.3	2.2	530
W603674		3.57	14.70	0.15	1.1	0.197	3.19	30.1	46.2	0.89	3140	1.44	0.03	6.5	2.2	480
W603675		3.11	13.40	0.14	1.2	0.120	3.67	14.9	29.7	0.67	1280	1.40	0.83	6.5	1.7	510
W603676		3.26	14.45	0.13	1.2	0.112	3.66	17.9	21.7	0.60	880	1.24	1.25	7.2	1.9	570
W603677		3.45	14.90	0.15	1.3	0.145	3.20	21.3	15.1	0.69	1460	1.34	1.80	7.2	2.5	570
W603678		3.41	14.45	0.14	1.2	0.153	3.33	20.0	22.4	0.68	1240	0.88	1.29	7.3	2.1	570
W603679		3.24	13.45	0.13	1.5	0.147	3.66	21.1	17.4	0.73	1390	1.82	0.87	6.7	1.7	440
W603680		9.02	12.65	0.14	0.9	1.600	2.58	17.1	16.5	0.66	2290	16.90	0.06	4.3	14.0	440
W603681		3.12	13.80	0.13	1.3	0.163	3.17	22.5	12.4	0.64	782	1.39	1.88	6.9	2.1	550
W603682		3.16	13.50	0.13	1.4	0.092	3.23	23.6	74.4	0.84	1500	0.92	0.45	6.9	2.0	520
W603683		3.06	10.45	0.12	1.0	0.131	1.90	24.3	64.4	1.35	2380	0.87	0.04	5.0	2.1	340
W603684		2.96	10.25	0.11	1.0	0.131	1.88	24.4	65.3	1.34	2340	0.86	0.04	4.9	2.1	350
W603685		3.16	16.10	0.12	1.4	0.064	2.88	22.7	9.6	0.66	600	0.73	2.30	8.4	2.9	550
W603686		2.80	14.50	0.13	1.3	0.066	3.12	18.7	17.6	0.92	1540	0.57	0.64	7.8	2.0	520
W603687		3.10	15.50	0.15	1.2	0.093	3.12	21.0	10.7	0.60	820	0.70	1.92	8.1	1.8	530
W603688		3.35	15.55	0.12	1.3	0.123	2.93	21.6	10.6	0.67	693	0.56	2.01	7.9	2.5	520
W603689		3.15	15.25	0.12	1.1	0.085	2.61	18.4	9.4	0.61	686	0.53	2.35	7.8	2.1	540
W603700		3.30	14.70	0.13	1.4	0.081	2.78	21.6	14.2	0.58	786	0.27	2.07	7.9	2.5	560

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239275

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W603651		6.7	107.5	<0.002	0.53	3.63	8.5	<1	1.8	187.5	0.58	<0.05	11.75	0.236	1.59	3.6
W603652		32.5	146.5	<0.002	2.01	9.58	7.5	<1	1.8	76.5	0.65	0.10	15.15	0.192	2.09	4.3
W603653		13.7	130.0	<0.002	0.90	4.76	7.8	<1	1.7	141.5	0.63	0.08	14.35	0.204	1.84	4.6
W603654		77.0	139.0	<0.002	0.60	9.12	8.6	<1	2.0	135.0	0.60	0.05	14.40	0.221	2.15	2.8
W603655		169.0	144.5	<0.002	0.96	10.70	7.1	<1	1.9	118.5	0.63	0.10	15.40	0.172	2.18	6.1
W603656		20.0	123.0	<0.002	0.49	8.02	7.8	<1	1.7	142.5	0.58	<0.05	11.45	0.223	2.21	4.6
W603657		19.1	116.5	<0.002	0.53	3.68	8.3	<1	1.9	267	0.60	<0.05	10.90	0.234	1.79	3.8
W603658		0.5	1.3	<0.002	<0.01	0.12	0.2	<1	<0.2	73.3	<0.05	<0.05	0.14	0.006	0.02	0.2
W603659		13.5	135.5	<0.002	0.35	5.48	9.2	<1	1.9	187.0	0.58	<0.05	13.00	0.236	2.15	5.1
W603660		23.7	135.0	<0.002	0.41	10.10	7.9	<1	1.7	138.0	0.52	<0.05	10.45	0.219	2.59	6.5
W603661		14.1	139.5	<0.002	0.16	5.72	8.3	<1	1.8	179.5	0.57	<0.05	10.70	0.235	2.59	5.8
W603662		19.2	126.5	<0.002	0.17	8.10	7.5	<1	1.7	165.5	0.63	<0.05	11.95	0.212	2.34	5.1
W603663		4.9	138.0	<0.002	0.15	6.36	7.7	<1	1.7	109.5	0.60	<0.05	11.25	0.217	2.78	4.9
W603664		11.3	152.5	<0.002	0.23	17.90	8.4	<1	1.9	124.0	0.67	<0.05	12.10	0.233	2.69	6.3
W603665		9950	27.4	0.009	2.28	437	11.0	2	1.9	187.0	0.18	1.17	2.09	0.242	0.51	1.2
W603666		74.3	154.5	<0.002	0.37	55.9	9.1	<1	2.2	112.0	0.60	<0.05	13.45	0.242	2.66	5.9
W603667		14.2	139.5	<0.002	0.32	8.22	8.1	<1	2.2	133.5	0.63	<0.05	13.30	0.228	2.47	5.8
W603668		669	148.0	<0.002	1.12	34.8	8.8	<1	3.6	125.0	0.55	<0.05	12.50	0.226	2.23	7.3
W603669		151.5	133.0	<0.002	0.28	29.6	10.0	<1	2.4	151.5	0.56	<0.05	10.30	0.257	2.41	3.8
W603670		17.2	117.5	<0.002	0.03	7.11	8.7	<1	2.4	279	0.60	<0.05	10.45	0.253	1.88	2.6
W603671		126.0	140.5	<0.002	0.43	8.98	8.5	<1	2.4	193.5	0.55	<0.05	11.60	0.229	2.16	4.3
W603672		54.5	144.0	<0.002	0.26	7.39	8.6	<1	2.3	210	0.58	<0.05	12.35	0.231	2.12	3.8
W603673		21.8	142.5	<0.002	0.60	8.01	9.1	<1	2.3	164.0	0.59	<0.05	11.90	0.235	2.34	6.1
W603674		795	143.5	<0.002	1.53	47.1	8.3	<1	2.1	142.5	0.52	<0.05	10.10	0.210	2.86	6.8
W603675		14.4	126.0	<0.002	0.45	8.41	7.9	<1	1.9	196.5	0.52	0.05	8.99	0.223	2.25	3.0
W603676		13.0	127.5	<0.002	0.41	4.93	8.6	<1	2.1	199.5	0.55	<0.05	9.73	0.245	2.06	2.9
W603677		45.6	116.0	<0.002	0.41	4.65	8.7	<1	2.4	275	0.53	0.08	9.96	0.249	1.84	4.1
W603678		10.3	129.5	<0.002	0.21	8.50	8.3	<1	2.1	186.0	0.56	<0.05	9.63	0.242	2.19	3.3
W603679		83.9	145.0	<0.002	0.80	10.20	7.1	<1	2.0	181.5	0.69	<0.05	14.00	0.193	2.23	6.3
W603680		1590	139.5	0.002	7.75	108.5	7.4	1	10.7	61.2	0.35	0.81	8.94	0.164	2.32	5.2
W603681		16.5	114.5	<0.002	0.19	4.06	8.7	<1	2.0	238	0.57	<0.05	11.60	0.231	1.68	2.5
W603682		547	113.5	<0.002	0.36	20.1	8.2	<1	2.3	224	0.59	<0.05	11.75	0.226	2.05	3.2
W603683		2460	93.5	<0.002	0.74	89.2	6.2	<1	3.0	252	0.43	<0.05	9.09	0.158	1.54	6.6
W603684		2300	95.3	<0.002	0.74	90.4	6.2	<1	3.0	250	0.45	<0.05	9.73	0.158	1.56	6.9
W603685		24.8	113.0	<0.002	0.10	4.16	9.0	1	1.8	311	0.72	<0.05	12.05	0.230	1.41	3.6
W603686		188.0	118.0	<0.002	0.33	8.31	8.1	<1	1.7	210	0.70	<0.05	10.20	0.219	2.48	6.3
W603687		24.7	113.5	<0.002	0.20	4.38	8.5	1	1.8	284	0.71	0.05	11.45	0.224	1.62	4.1
W603688		19.6	107.5	<0.002	0.62	7.07	8.8	<1	1.9	338	0.67	0.09	12.25	0.220	1.37	4.0
W603689		13.7	91.3	<0.002	0.18	5.87	8.2	<1	1.7	293	0.71	<0.05	11.20	0.221	1.34	3.8
W603700		15.6	111.0	<0.002	0.20	6.54	8.9	<1	1.7	237	0.69	<0.05	11.85	0.231	1.38	3.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239275

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W603651		60	6.2	13.7	50	33.7	0.011
W603652		50	3.4	14.7	145	39.4	0.047
W603653		52	2.9	13.6	43	40.2	0.007
W603654		61	6.7	14.6	79	30.6	0.012
W603655		49	11.4	13.6	285	28.9	0.015
W603656		57	8.0	12.6	78	27.8	0.005
W603657		62	3.9	12.9	55	34.3	<0.005
W603658		1	0.1	1.9	4	1.8	<0.005
W603659		61	3.7	13.0	60	35.4	0.005
W603660		56	2.8	12.7	86	35.2	0.022
W603661		60	2.4	11.1	56	37.7	0.006
W603662		55	2.4	12.8	66	36.5	<0.005
W603663		58	2.5	12.6	67	33.2	<0.005
W603664		60	4.2	13.1	65	37.6	0.005
W603665		79	0.6	13.5	5040	52.6	0.287
W603666		65	10.7	14.6	145	37.0	0.012
W603667		59	11.4	12.5	72	35.2	0.005
W603668		60	9.6	11.7	1520	32.1	0.041
W603669		71	7.4	13.7	463	33.0	0.013
W603670		65	1.9	13.4	67	32.2	<0.005
W603671		60	4.2	14.2	378	33.0	0.010
W603672		60	3.4	13.6	267	34.0	0.006
W603673		64	5.5	14.1	80	35.8	0.012
W603674		58	5.0	14.9	1660	31.3	0.029
W603675		59	2.4	11.2	54	30.4	<0.005
W603676		63	2.4	11.8	56	33.1	<0.005
W603677		64	1.8	13.6	98	33.7	<0.005
W603678		62	2.3	11.3	68	30.9	<0.005
W603679		51	3.4	13.0	165	36.1	0.038
W603680		54	7.2	8.4	3270	20.5	1.630
W603681		60	2.8	12.1	62	32.3	<0.005
W603682		59	2.3	13.5	391	34.2	0.009
W603683		42	1.5	14.2	1600	24.1	0.048
W603684		42	1.5	14.8	1550	22.0	0.040
W603685		62	1.5	13.4	65	38.5	<0.005
W603686		57	2.0	12.2	403	35.6	0.007
W603687		59	2.2	11.7	67	34.5	<0.005
W603688		60	1.7	12.5	62	34.6	0.005
W603689		56	1.8	12.2	56	30.5	<0.005
W603700		61	2.0	12.5	69	37.2	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239275

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239277

Project: Klaza

P.O. No.: 19-021

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239277

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W604234		4.38	0.06	7.47	4.8	2400	1.49	0.11	2.71	0.10	43.1	6.7	11	7.89	5.1	2.97
W604235		3.15	0.07	7.42	6.5	2360	1.62	0.16	2.53	0.11	45.5	6.7	13	8.90	2.9	2.85
W604236		3.88	0.10	7.81	4.9	2280	1.09	0.16	1.58	0.08	44.4	6.7	9	9.35	5.0	3.07
W604237		4.81	0.10	7.57	7.1	2310	1.50	0.18	2.50	0.12	45.4	7.5	9	9.19	8.8	2.94
W604238		4.57	0.13	7.63	6.6	2450	1.49	0.19	2.53	0.11	45.6	6.9	12	7.80	4.5	2.97
W604239		4.21	0.06	7.73	5.9	2460	1.46	0.19	2.43	0.11	43.4	6.9	14	7.94	3.5	2.90
W604240		4.66	0.16	7.50	7.7	2070	1.59	0.25	2.02	0.27	45.8	6.0	11	11.00	6.7	2.72
W604241		1.12	0.67	7.34	22.6	1830	1.37	0.58	2.51	5.84	44.4	10.3	11	10.15	11.9	3.97
W604242		5.05	0.01	0.10	0.9	30	0.39	0.02	28.3	0.04	1.06	0.7	1	0.17	1.1	0.24
W604243		2.78	0.06	7.84	4.9	2400	1.28	0.09	2.61	0.09	44.6	6.5	9	9.76	7.0	2.89
W604244		2.18	0.16	7.65	8.9	2340	1.38	0.27	2.86	0.16	41.5	6.5	10	9.48	5.2	2.91
W604245		5.07	0.09	7.63	7.6	2430	1.42	0.18	2.50	0.41	45.1	6.4	12	8.41	5.1	2.89
W604246		1.93	0.19	7.25	696	2120	1.46	0.37	2.47	0.18	44.8	6.0	11	10.20	5.6	2.92
W604247		4.74	0.10	7.52	10.2	2420	1.41	0.23	2.22	0.17	45.0	5.7	11	10.40	8.7	2.82
W604248		<0.02	0.09	7.66	10.1	2460	1.60	0.24	2.24	0.15	50.2	6.4	10	11.40	7.5	2.86
W604249		1.78	1.32	7.80	224	1320	1.73	0.86	1.89	7.83	53.3	6.2	9	20.2	48.4	4.03
W604250		2.30	3.09	7.23	5410	380	1.54	3.03	0.69	26.7	50.8	11.1	9	9.91	43.5	6.12
W604251		3.17	1.56	7.31	87.4	1550	1.47	2.69	2.38	1.28	52.8	7.4	10	10.40	88.0	3.59
W604252		1.75	0.09	7.28	19.8	2350	1.60	0.28	2.57	0.13	41.3	6.3	11	13.50	8.0	2.90
W604253		1.62	0.08	7.74	16.1	2460	1.65	0.24	2.61	0.13	45.6	6.5	9	13.35	6.2	2.97
W604254		3.00	0.27	7.69	29.1	2360	1.55	0.80	2.58	0.90	45.3	6.0	11	11.90	10.0	3.07
W604255		3.29	0.18	7.47	65.1	2400	1.56	0.30	2.57	0.21	45.6	7.3	12	11.15	11.0	3.00
W604256		1.25	0.23	6.56	169.0	2270	1.26	0.34	2.25	0.48	27.4	6.5	8	15.95	6.4	2.46
W604257		3.13	0.13	6.90	21.3	1970	1.56	0.26	2.19	0.17	37.9	6.5	9	26.1	4.2	2.92
W604258		2.31	0.19	6.95	18.5	1990	1.64	1.96	2.55	0.11	33.4	5.9	10	26.4	8.0	2.98
W604259		0.27	99.4	5.46	251	580	0.66	4.83	1.42	23.3	18.85	11.5	62	0.85	5960	5.53
W604260		1.03	5.21	6.18	5730	710	1.34	4.89	2.73	41.9	45.5	9.9	7	11.50	201	5.60
W604261		2.77	0.19	7.80	27.4	2420	1.43	0.65	2.01	0.17	49.6	6.0	9	17.10	20.1	2.87
W604262		1.04	1.11	7.62	95.7	1250	1.66	1.55	1.58	4.77	43.7	7.8	9	17.70	11.1	4.04
W604263		1.19	3.57	7.53	294	360	1.49	5.83	0.34	18.70	56.0	5.6	8	9.34	56.3	5.15
W604264		3.28	0.89	7.53	30.6	2250	1.59	1.30	2.09	4.77	50.6	7.6	11	13.20	8.3	3.41
W604265		3.49	0.08	7.25	9.2	2220	1.51	0.21	2.62	0.17	48.0	5.7	13	10.15	3.8	2.71
W604266		5.21	0.07	7.54	11.3	2540	1.59	0.17	2.53	0.18	46.9	6.3	10	13.60	3.5	2.86
W604267		0.28	38.8	5.68	2550	1130	1.22	33.1	1.64	46.1	35.9	16.1	22	9.70	1160	8.80
W604268		4.43	0.08	7.26	7.5	2230	1.63	0.19	2.65	0.16	44.4	6.3	11	11.55	6.2	2.78
W604269		1.78	0.19	7.24	14.9	1990	1.41	0.37	1.85	0.28	41.2	6.3	8	18.60	8.8	2.55
W604270		2.17	7.74	5.41	326	750	1.30	11.05	0.42	8.38	45.7	15.3	8	15.05	105.0	7.21
W604271		3.65	1.12	7.46	126.5	1610	1.63	1.26	1.71	10.75	56.2	6.4	10	14.80	19.9	3.80
W604272		1.67	0.62	6.60	54.9	1870	1.50	1.10	2.50	3.00	39.7	7.5	10	13.20	5.4	3.67
W604273		3.52	0.20	7.31	15.2	2490	1.69	0.22	2.38	1.32	45.7	5.8	9	12.95	7.3	2.84

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W604234		16.30	0.13	1.0	0.042	2.61	21.0	11.1	0.82	584	1.38	2.27	8.1	2.4	610	16.1
W604235		17.40	0.14	1.0	0.049	2.58	23.1	11.9	0.79	578	1.22	2.40	8.5	2.5	580	15.7
W604236		15.80	0.13	1.0	0.040	2.68	23.6	23.1	0.88	475	1.05	0.67	8.4	2.2	650	16.3
W604237		17.00	0.13	1.0	0.047	2.62	23.2	17.7	0.79	574	1.42	1.89	8.6	2.3	610	16.9
W604238		15.65	0.14	1.0	0.047	2.73	23.8	12.5	0.80	612	1.06	2.27	7.7	2.3	590	15.7
W604239		15.65	0.13	1.0	0.039	2.65	22.5	10.9	0.83	569	1.04	2.40	7.8	2.1	590	15.5
W604240		16.00	0.14	1.3	0.053	2.86	24.0	14.2	0.65	555	1.28	1.59	8.7	2.1	510	91.2
W604241		15.60	0.13	0.9	0.133	2.78	23.7	22.8	0.83	1140	1.06	0.55	7.5	2.3	570	464
W604242		0.25	0.09	<0.1	<0.005	0.02	0.9	0.8	6.12	150	<0.05	0.03	0.1	1.0	110	1.4
W604243		16.65	0.14	1.0	0.038	2.66	22.8	10.6	0.77	544	1.17	2.36	7.9	2.1	600	16.1
W604244		18.15	0.12	1.1	0.066	2.80	20.7	14.7	0.67	683	1.28	1.82	8.4	2.5	610	18.6
W604245		16.40	0.13	1.1	0.068	2.73	22.7	8.8	0.83	637	1.17	2.32	8.0	2.2	590	20.1
W604246		16.70	0.12	1.1	0.067	2.85	22.7	11.1	0.68	845	1.20	1.72	7.8	2.2	550	29.0
W604247		15.50	0.13	1.0	0.050	2.95	24.2	14.4	0.78	634	1.10	2.15	7.6	2.1	570	18.3
W604248		16.90	0.13	1.1	0.056	2.98	27.1	15.7	0.79	640	1.12	2.22	8.2	2.2	580	18.2
W604249		17.20	0.13	1.1	0.238	3.66	28.1	15.4	0.66	2460	1.32	0.22	7.7	2.1	560	474
W604250		16.35	0.11	0.9	0.444	3.35	27.7	11.0	0.54	1880	1.90	0.04	6.5	2.1	530	1365
W604251		15.95	0.11	1.0	0.290	3.45	29.6	23.1	0.57	1320	1.84	0.17	7.4	2.1	550	103.0
W604252		16.90	0.12	1.3	0.046	2.72	21.0	9.9	0.77	613	1.36	2.25	8.8	2.3	590	17.3
W604253		16.55	0.15	1.2	0.042	2.80	23.4	9.9	0.79	617	1.31	2.24	8.7	2.3	610	16.8
W604254		17.25	0.13	1.0	0.079	2.86	24.0	11.1	0.78	733	1.58	2.05	8.1	2.4	610	81.9
W604255		16.85	0.13	1.1	0.053	2.84	22.6	11.5	0.78	652	1.21	2.25	8.6	2.4	590	33.6
W604256		15.40	0.12	1.0	0.058	2.95	12.9	25.6	0.36	647	0.96	0.72	7.7	2.1	530	38.2
W604257		17.00	0.13	1.0	0.057	2.84	18.0	52.4	0.47	664	1.08	0.83	8.5	2.1	590	23.9
W604258		15.95	0.13	1.0	0.063	2.88	15.9	14.2	0.59	786	1.45	1.45	7.7	2.3	600	16.2
W604259		12.10	0.10	1.6	0.409	1.07	8.5	12.5	1.08	1680	21.9	1.56	3.4	27.3	460	9910
W604260		13.20	0.12	0.7	0.890	2.95	25.3	14.0	0.93	2310	1.94	0.04	4.8	2.6	470	989
W604261		17.50	0.13	1.2	0.072	3.33	25.6	20.1	0.54	690	1.08	0.70	8.5	2.1	610	18.3
W604262		16.15	0.13	0.9	0.237	3.60	24.4	11.1	0.79	1200	2.15	0.05	6.5	2.2	570	335
W604263		17.40	0.13	0.9	0.491	3.70	31.3	5.8	0.45	1030	0.96	0.04	6.9	2.9	580	634
W604264		16.25	0.15	1.2	0.127	3.01	28.1	10.5	0.74	987	0.90	1.71	7.7	2.6	530	272
W604265		16.15	0.16	1.4	0.044	2.75	24.5	8.5	0.69	654	1.18	2.19	7.9	2.4	550	18.3
W604266		16.40	0.16	1.4	0.043	2.90	23.6	14.5	0.71	552	1.19	2.45	8.5	2.4	570	18.2
W604267		13.90	0.14	0.8	1.615	2.57	17.6	16.1	0.65	2220	16.70	0.06	4.8	14.7	430	1615
W604268		16.00	0.15	1.4	0.044	2.81	22.3	11.8	0.71	587	1.15	2.23	8.1	2.3	570	18.7
W604269		16.45	0.15	1.4	0.048	3.24	20.5	24.3	0.38	806	1.26	0.21	8.3	1.7	560	23.1
W604270		12.10	0.14	0.9	0.315	2.51	24.6	14.6	0.31	831	2.46	0.03	4.8	3.5	270	331
W604271		16.10	0.14	1.3	0.352	3.29	30.9	15.8	0.61	991	1.12	0.70	8.0	2.1	550	344
W604272		14.95	0.14	1.1	0.143	3.99	18.9	13.9	0.51	1260	1.29	0.23	7.2	2.3	530	244
W604273		15.90	0.17	1.4	0.048	3.15	23.1	11.6	0.70	606	1.55	1.76	8.3	2.2	580	85.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W604234		87.2	<0.002	0.01	2.54	9.4	<1	1.5	395	0.60	<0.05	9.93	0.262	1.00	2.8	70
W604235		96.5	<0.002	0.04	2.44	10.1	<1	1.8	377	0.64	<0.05	10.95	0.250	1.04	3.3	67
W604236		101.0	<0.002	0.03	7.04	9.9	<1	2.0	124.0	0.62	<0.05	11.40	0.273	1.05	2.9	76
W604237		98.1	<0.002	0.07	4.17	10.3	<1	2.4	308	0.64	<0.05	11.80	0.258	1.02	3.3	70
W604238		98.2	<0.002	0.06	3.21	9.4	<1	2.1	359	0.60	<0.05	11.00	0.256	1.01	2.8	68
W604239		94.2	<0.002	0.01	1.59	9.5	<1	2.0	389	0.61	0.06	10.70	0.254	0.90	3.0	68
W604240		115.5	<0.002	0.16	3.29	8.8	1	1.9	230	0.84	<0.05	14.95	0.224	1.20	4.6	61
W604241		126.5	<0.002	0.69	5.22	9.5	<1	3.0	112.0	0.58	0.12	11.25	0.237	1.51	6.9	66
W604242		1.0	<0.002	<0.01	0.08	0.2	1	<0.2	65.7	<0.05	<0.05	0.11	<0.005	<0.02	0.2	1
W604243		92.1	<0.002	0.01	1.78	9.0	<1	1.8	385	0.61	<0.05	11.20	0.258	0.99	3.0	69
W604244		92.7	<0.002	0.18	3.45	9.9	<1	2.0	298	0.67	0.05	10.40	0.261	1.22	3.3	72
W604245		93.1	<0.002	0.08	1.41	9.6	<1	1.6	378	0.63	<0.05	11.25	0.249	1.04	3.7	68
W604246		121.0	<0.002	0.23	3.47	9.2	<1	2.7	269	0.64	0.05	11.70	0.232	1.34	3.6	62
W604247		105.0	<0.002	0.10	2.78	9.0	<1	1.8	340	0.60	<0.05	11.60	0.247	1.16	3.2	66
W604248		112.0	<0.002	0.10	2.89	9.7	<1	1.9	348	0.63	<0.05	12.65	0.248	1.22	3.5	67
W604249		196.0	<0.002	0.92	7.94	9.9	<1	4.8	89.6	0.62	0.08	13.05	0.234	2.56	6.5	65
W604250		227	<0.002	3.76	13.45	9.3	1	9.3	22.2	0.53	0.50	11.05	0.209	2.68	4.1	62
W604251		188.0	<0.002	1.32	9.14	9.6	<1	5.0	93.6	0.63	0.32	11.90	0.226	2.36	5.6	66
W604252		96.8	<0.002	0.11	2.52	9.5	<1	1.9	359	0.76	0.08	10.30	0.254	1.24	3.6	68
W604253		106.5	<0.002	0.12	2.52	10.2	1	1.9	368	0.73	0.06	11.65	0.261	1.22	3.8	71
W604254		118.5	<0.002	0.29	2.80	10.3	1	1.9	336	0.61	0.06	11.60	0.254	1.45	3.7	70
W604255		107.0	<0.002	0.13	2.09	10.2	1	1.9	367	0.66	<0.05	11.75	0.262	1.25	3.4	71
W604256		103.0	<0.002	0.22	7.44	7.9	<1	2.0	163.0	0.65	<0.05	8.51	0.231	1.46	3.0	63
W604257		106.0	<0.002	0.16	9.40	9.5	<1	2.0	198.5	0.62	<0.05	9.64	0.254	1.54	3.4	70
W604258		102.0	<0.002	0.26	4.84	8.9	<1	1.8	258	0.56	1.00	8.55	0.252	1.57	2.9	70
W604259		26.6	0.009	2.24	435	11.3	1	1.9	187.5	0.21	1.19	1.84	0.234	0.47	1.4	78
W604260		190.5	<0.002	3.49	20.9	7.6	1	3.5	79.2	0.39	0.26	10.10	0.158	2.48	3.6	55
W604261		139.5	<0.002	0.37	8.48	10.7	<1	2.0	183.5	0.67	0.12	13.00	0.254	1.68	3.2	72
W604262		233	<0.002	1.69	6.04	9.6	<1	2.2	49.6	0.49	0.26	12.35	0.213	2.68	5.0	65
W604263		246	<0.002	3.73	6.27	9.4	<1	4.9	10.6	0.54	0.33	11.55	0.217	2.93	2.5	64
W604264		144.5	0.002	0.45	2.75	10.1	<1	2.0	283	0.63	0.09	12.60	0.234	1.75	4.0	63
W604265		109.5	<0.002	0.08	1.77	10.1	<1	1.5	344	0.65	<0.05	12.30	0.243	1.26	3.8	64
W604266		108.0	<0.002	0.09	1.89	10.2	<1	1.6	375	0.74	<0.05	12.25	0.258	1.15	3.2	68
W604267		149.5	0.002	7.62	106.0	8.2	2	11.3	62.5	0.39	0.73	8.51	0.161	2.18	5.1	54
W604268		102.5	<0.002	0.05	1.68	9.8	<1	1.7	338	0.66	<0.05	11.90	0.249	1.33	3.5	66
W604269		127.5	<0.002	0.20	11.60	9.3	<1	1.9	104.0	0.74	0.06	10.80	0.248	1.90	3.6	67
W604270		135.5	0.002	6.58	33.3	6.6	2	4.8	21.3	0.43	0.69	8.12	0.149	2.32	3.9	48
W604271		164.0	<0.002	1.35	6.55	10.3	<1	3.2	148.0	0.68	0.12	14.30	0.245	2.51	4.6	69
W604272		178.5	<0.002	1.72	5.04	8.6	1	2.5	120.5	0.62	0.19	11.05	0.226	2.75	5.2	65
W604273		114.0	<0.002	0.13	3.89	9.3	<1	2.1	303	0.71	<0.05	12.55	0.250	1.61	3.4	68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W604234		3.6	15.3	41	25.7	<0.005
W604235		1.8	16.2	40	26.6	<0.005
W604236		4.5	14.9	53	23.2	<0.005
W604237		4.1	15.8	42	25.7	<0.005
W604238		3.2	14.9	42	24.9	<0.005
W604239		2.0	15.2	39	26.6	<0.005
W604240		2.6	15.1	58	30.7	<0.005
W604241		3.6	13.5	486	23.9	0.017
W604242		<0.1	1.5	8	1.2	<0.005
W604243		1.4	14.2	40	27.5	<0.005
W604244		2.0	15.8	47	28.7	<0.005
W604245		1.1	15.9	66	27.0	<0.005
W604246		1.6	14.6	54	28.2	0.047
W604247		1.2	14.5	54	26.8	<0.005
W604248		1.3	15.6	52	28.1	<0.005
W604249		4.7	14.0	744	28.8	0.050
W604250		5.1	8.6	2230	23.9	0.505
W604251		2.0	14.6	166	26.2	0.017
W604252		1.4	15.5	46	30.3	0.007
W604253		1.3	16.5	47	30.1	<0.005
W604254		1.2	16.2	110	28.2	0.010
W604255		1.2	16.4	50	29.4	0.024
W604256		2.5	11.2	73	24.3	0.037
W604257		1.8	12.7	56	27.4	0.007
W604258		1.5	12.0	48	26.4	0.035
W604259		0.6	13.7	4900	53.8	0.263
W604260		3.5	8.6	3180	18.7	0.826
W604261		2.2	15.2	57	29.4	0.009
W604262		3.1	11.3	446	24.8	0.039
W604263		5.5	7.2	1520	24.3	0.098
W604264		2.5	15.6	383	30.4	0.017
W604265		1.1	16.1	48	31.9	0.007
W604266		1.3	16.2	52	34.2	<0.005
W604267		7.3	9.2	3250	23.1	1.800
W604268		1.6	16.4	47	34.2	<0.005
W604269		2.5	15.0	80	35.7	<0.005
W604270		4.3	10.1	779	18.9	1.600
W604271		3.3	13.3	873	30.1	0.046
W604272		2.1	11.7	267	29.2	0.021
W604273		1.9	15.5	132	35.2	0.010

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239277

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239280

Project: Klaza

P.O. No.: 19-022

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239280

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W604274		3.83			0.81	7.82	76.3	1760	1.63	1.19	1.49	3.38	53.4	8.3	8	13.35
W604275		1.18			4.25	5.78	332	530	1.05	6.65	0.08	5.55	18.30	8.9	7	19.90
W604276		1.37			7.35	6.88	334	300	1.40	11.75	0.31	17.75	37.1	9.3	9	10.30
W604277		3.09			0.35	7.79	53.9	1890	1.48	0.66	1.65	15.40	52.3	5.7	9	21.5
W604278		2.40			0.54	7.33	33.0	1800	1.82	2.15	2.43	0.90	50.8	5.9	8	21.3
W604279		1.34			1.50	6.95	81.6	1010	1.61	2.92	1.60	7.45	83.2	10.5	8	10.60
W604280		5.08			0.01	0.24	<0.2	30	0.12	0.03	35.0	0.03	1.37	1.1	2	0.11
W604281		3.52			0.14	8.71	22.1	2510	0.92	0.31	0.91	5.73	52.9	6.0	9	15.35
W604282		2.23			0.45	7.86	34.2	4850	1.33	1.10	1.37	21.5	56.0	9.5	9	14.50
W604283		1.45			3.97	7.54	265	1510	1.47	7.79	1.55	6.03	56.5	6.0	8	14.85
W604284		3.34			0.10	7.86	9.9	2270	1.42	0.33	1.98	0.29	51.1	5.7	10	12.50
W604285		1.45			0.10	7.42	8.8	2460	1.64	0.30	2.35	0.25	43.1	5.3	9	12.60
W604286		1.34			0.09	7.67	9.9	2560	1.71	0.29	2.40	0.24	46.5	5.6	10	13.25
W604287		1.38			0.17	7.28	8.0	3000	1.75	0.46	2.52	0.74	33.2	5.8	9	14.45
W604288		2.03			0.14	8.04	8.9	3160	1.63	0.63	1.67	0.13	49.7	6.1	8	13.75
W604289		3.60			0.27	7.62	24.9	1860	1.59	0.97	2.31	0.27	53.8	8.4	8	21.8
W604290		1.67			0.22	7.55	17.2	1410	1.55	0.67	2.19	0.23	32.8	9.0	8	15.60
W604291		1.31			0.54	7.70	32.8	1670	1.49	1.16	1.38	0.37	32.0	66.8	9	17.80
W604292		1.11			0.20	6.49	17.6	2160	1.41	0.42	3.16	1.18	21.3	4.9	8	17.40
W604293		0.26	102	1.015	>100	5.89	269	650	0.70	5.55	1.55	26.8	21.9	12.4	67	0.99
W604294		3.85			0.22	7.28	11.7	3160	1.72	0.54	2.56	0.30	51.5	8.8	10	13.35
W604295		2.95			0.22	7.35	22.9	2280	1.75	0.60	2.37	0.25	45.1	9.7	9	18.80
W604296		3.81			0.26	7.94	11.0	2650	1.83	1.80	2.18	0.25	58.8	7.0	12	13.20
W604297		1.67			0.28	6.72	11.1	3890	1.22	0.63	1.92	1.13	28.5	9.9	10	10.15
W604298		1.77			0.23	7.26	9.3	3310	1.40	0.52	1.74	0.61	51.2	7.9	11	12.50
W604299		<0.02			0.20	7.06	9.6	3240	1.33	0.55	1.68	0.58	48.7	8.2	10	12.25
W604300		2.36			0.24	6.91	24.0	4630	1.24	1.06	2.32	0.39	41.7	6.3	8	15.05
W604301		3.73			0.16	8.39	10.3	2520	1.29	0.49	0.76	0.36	49.0	5.9	9	13.05
W604302		3.57			0.23	8.34	13.4	3620	1.37	0.78	1.04	1.08	54.0	8.2	9	13.70
W604303		1.68			0.18	8.19	13.9	2510	1.43	0.57	0.79	0.54	50.6	5.6	9	13.05
W604304		1.75			0.88	7.54	25.7	2570	1.75	2.50	1.87	1.75	29.6	24.7	8	14.55
W604305		2.28			0.42	8.33	10.5	2410	1.84	2.50	1.92	0.42	35.6	11.6	8	13.55
W604306		0.26			43.0	6.07	2780	1210	1.28	40.1	1.77	48.2	41.3	17.2	24	10.30
W604307		2.15			0.42	7.97	11.9	3060	1.62	1.38	1.75	0.29	30.9	10.7	9	12.35
W604308		2.91			0.34	7.93	21.5	3110	1.64	1.17	2.22	0.19	43.6	6.6	9	14.00
W604309		2.42			0.22	6.39	15.5	2380	1.60	0.48	2.71	0.37	39.1	9.6	13	11.30
W604310		3.75			0.11	7.51	9.6	2820	1.64	0.36	2.44	0.17	50.8	5.6	11	11.10
W604311		3.51			0.10	6.98	7.0	2120	1.74	0.35	2.94	0.15	41.3	3.9	11	13.05
W604312		1.48			0.39	6.14	20.1	1560	1.56	1.48	2.47	0.71	52.4	13.8	12	8.79
W604313		4.19			0.10	7.79	8.8	2530	1.77	0.51	2.64	0.15	51.7	5.9	12	10.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W604274		22.5	3.95	16.15	0.14	1.1	0.176	3.35	28.6	28.6	0.60	826	1.59	0.28	8.1	2.6
W604275		20.4	9.83	14.55	0.13	0.9	0.203	2.58	8.7	13.4	0.17	67	2.80	0.03	6.0	2.0
W604276		264	8.75	15.15	0.13	0.9	0.570	3.28	17.0	4.6	0.30	383	1.03	0.04	6.7	2.2
W604277		15.5	3.07	16.45	0.14	1.1	0.101	2.83	27.6	54.9	0.64	1260	0.91	0.05	7.7	1.9
W604278		10.3	3.22	15.55	0.12	1.0	0.173	3.15	26.0	29.4	0.89	1200	0.72	0.05	7.1	2.2
W604279		11.1	4.93	15.15	0.16	0.9	0.488	3.33	48.2	12.4	0.76	1360	0.87	0.04	6.3	2.2
W604280		2.7	0.14	0.75	0.12	0.1	0.008	0.09	1.3	1.2	1.62	116	0.08	0.12	0.3	0.7
W604281		7.7	3.37	17.15	0.21	1.3	0.054	3.20	29.2	26.0	0.37	1040	1.21	0.09	8.6	1.8
W604282		24.0	4.09	16.90	0.14	1.1	0.113	2.74	32.8	19.2	0.63	1830	1.00	0.04	7.5	3.0
W604283		19.4	5.27	15.95	0.15	1.1	0.238	3.35	29.8	9.2	0.78	1400	1.61	0.04	6.5	2.6
W604284		4.6	3.20	16.10	0.13	1.3	0.048	3.09	26.6	18.6	0.65	662	0.95	1.22	8.2	2.2
W604285		2.9	2.94	16.10	0.14	1.2	0.036	2.85	22.0	10.5	0.74	538	1.30	2.30	7.7	2.5
W604286		3.6	2.97	16.30	0.16	1.1	0.035	2.93	24.1	11.2	0.75	541	1.43	2.35	7.8	2.3
W604287		5.2	2.14	16.95	0.16	1.1	0.026	3.37	16.3	14.5	0.70	579	5.90	1.50	7.6	2.4
W604288		7.2	3.15	17.35	0.14	1.1	0.052	3.51	26.1	20.9	0.64	583	2.87	0.55	7.1	2.5
W604289		18.5	2.82	17.10	0.14	1.1	0.077	2.87	29.1	35.6	0.79	847	1.83	0.06	7.3	2.5
W604290		2.2	2.54	15.90	0.12	1.1	0.085	2.78	15.7	41.9	0.82	801	3.87	0.04	7.8	2.3
W604291		4.3	2.76	16.60	0.13	1.0	0.086	2.88	15.9	39.3	0.60	554	0.89	0.05	7.2	3.0
W604292		3.6	2.50	15.00	0.14	1.0	0.025	2.97	9.5	15.6	0.72	785	0.84	0.58	5.4	2.3
W604293		6590	6.06	13.10	0.11	1.7	0.468	1.18	9.5	12.6	1.18	1840	24.1	1.71	3.4	30.6
W604294		13.1	2.52	16.80	0.15	1.1	0.048	3.56	25.2	11.4	0.54	572	0.91	1.77	7.4	2.3
W604295		8.8	2.42	16.40	0.14	1.2	0.049	2.92	22.9	22.1	0.58	479	0.67	1.34	7.9	2.3
W604296		25.4	2.77	17.10	0.18	1.3	0.071	3.18	30.4	15.5	0.68	548	1.11	1.53	8.3	2.6
W604297		20.2	1.69	15.10	0.15	1.3	0.056	3.77	14.9	17.5	0.78	535	39.0	0.11	5.9	2.3
W604298		13.7	1.71	15.75	0.16	1.2	0.035	3.57	28.6	19.7	0.66	509	13.30	0.24	6.9	2.0
W604299		14.4	1.69	15.60	0.16	1.2	0.033	3.48	27.0	19.2	0.64	494	13.15	0.23	6.7	2.1
W604300		30.1	2.55	16.10	0.17	1.1	0.119	2.96	20.7	26.8	0.44	879	0.82	0.09	7.1	2.5
W604301		15.6	2.87	17.80	0.13	1.5	0.046	2.62	24.8	33.7	0.41	712	1.46	0.07	9.0	2.3
W604302		16.2	2.79	17.45	0.16	1.2	0.057	3.49	28.3	25.9	0.47	757	1.38	0.10	8.1	2.0
W604303		13.0	2.71	17.80	0.14	1.2	0.048	3.06	25.4	31.5	0.40	688	2.80	0.08	9.1	1.9
W604304		30.3	2.96	16.00	0.13	1.1	0.107	2.54	15.0	30.1	0.78	932	2.60	0.04	6.2	3.8
W604305		6.9	2.45	17.00	0.15	1.1	0.179	3.13	18.2	21.8	0.79	771	4.45	0.05	6.3	2.2
W604306		1240	9.43	14.35	0.14	0.9	1.610	2.69	20.8	17.4	0.71	2400	17.20	0.06	4.7	15.6
W604307		7.3	2.30	18.40	0.13	1.0	0.168	2.82	15.1	19.6	0.87	600	6.19	0.11	6.3	2.2
W604308		17.0	2.78	17.30	0.15	1.1	0.066	3.23	21.4	24.2	0.52	651	0.88	0.78	7.6	2.5
W604309		10.0	2.12	14.55	0.15	1.0	0.032	2.58	20.3	17.1	0.56	596	8.35	1.33	5.8	2.8
W604310		3.7	2.85	16.45	0.16	1.2	0.034	3.11	25.8	11.9	0.76	610	1.42	2.16	7.6	2.6
W604311		3.0	2.31	16.25	0.14	1.1	0.051	3.06	20.4	17.7	0.72	691	0.91	1.28	7.4	2.1
W604312		139.0	2.30	12.45	0.15	1.1	0.113	2.44	30.4	30.3	0.66	660	3.14	0.33	4.1	2.4
W604313		8.0	3.01	16.60	0.14	1.3	0.056	2.96	27.5	13.1	0.77	619	1.37	2.15	7.6	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W604274		620	115.5	169.0	<0.002	1.58	11.80	10.3	1	3.5	92.1	0.64	0.13	14.35	0.263	2.14
W604275		240	187.0	126.0	<0.002	>10.0	11.45	8.0	3	7.5	34.2	0.50	1.00	10.75	0.193	1.77
W604276		510	191.0	161.0	<0.002	8.90	18.45	9.3	1	7.4	11.9	0.53	1.38	10.50	0.224	2.86
W604277		630	43.3	131.5	<0.002	0.32	15.75	10.2	1	2.1	148.0	0.63	0.07	14.15	0.263	1.96
W604278		590	21.0	115.0	<0.002	0.48	10.50	9.1	<1	2.3	90.7	0.56	0.06	11.70	0.248	2.17
W604279		510	165.5	175.0	<0.002	2.37	10.85	9.8	1	3.1	32.0	0.48	0.42	12.85	0.210	2.66
W604280		70	0.9	2.6	<0.002	0.01	0.06	0.2	1	<0.2	82.7	<0.05	<0.05	0.24	0.006	<0.02
W604281		690	18.3	129.0	<0.002	0.10	19.50	11.4	1	2.3	72.9	0.66	<0.05	16.25	0.300	1.48
W604282		610	51.0	136.5	<0.002	0.43	19.70	11.3	1	2.1	61.5	0.60	<0.05	14.65	0.254	1.81
W604283		550	262	158.5	<0.002	2.71	9.42	10.2	1	4.2	42.9	0.52	0.48	14.20	0.226	2.69
W604284		630	16.3	107.0	<0.002	0.09	8.64	10.3	1	2.0	220	0.67	<0.05	13.95	0.280	1.27
W604285		580	18.3	103.5	<0.002	0.06	3.17	10.1	<1	1.6	364	0.63	<0.05	11.85	0.258	1.13
W604286		600	17.8	107.0	<0.002	0.06	3.33	10.4	<1	1.8	376	0.64	<0.05	12.40	0.265	1.14
W604287		560	31.2	128.0	<0.002	0.12	4.86	9.8	<1	1.7	278	0.63	<0.05	10.80	0.243	1.66
W604288		610	14.2	135.5	<0.002	0.19	6.64	10.1	<1	2.1	149.0	0.64	<0.05	13.55	0.234	1.63
W604289		580	14.1	108.5	<0.002	0.43	18.50	9.8	<1	2.1	122.5	0.63	0.11	11.95	0.250	1.89
W604290		570	17.3	116.5	<0.002	0.38	14.15	8.8	<1	1.7	89.1	0.66	0.08	11.15	0.259	2.08
W604291		620	24.1	135.0	<0.002	1.15	15.75	9.3	<1	1.6	88.2	0.60	0.21	12.45	0.242	1.95
W604292		520	20.0	107.5	<0.002	0.21	6.62	8.0	<1	1.4	159.5	0.52	<0.05	9.99	0.195	1.84
W604293		480	>10000	31.1	0.012	2.47	486	12.3	1	2.1	206	0.23	1.30	2.11	0.255	0.51
W604294		590	28.5	122.5	<0.002	0.29	4.35	9.4	<1	1.6	322	0.63	0.05	10.80	0.243	1.72
W604295		580	21.4	106.0	<0.002	0.33	6.90	9.3	1	1.6	233	0.71	0.07	11.70	0.244	1.36
W604296		630	23.6	121.0	<0.002	0.18	7.36	10.2	<1	2.4	288	0.76	0.08	13.80	0.261	1.25
W604297		490	38.1	141.0	0.004	0.36	21.0	8.1	1	1.4	152.5	0.52	<0.05	12.00	0.176	1.80
W604298		550	27.1	138.0	0.003	0.26	14.75	9.0	<1	2.5	139.5	0.63	<0.05	13.10	0.208	1.64
W604299		530	25.9	137.0	0.004	0.27	14.25	8.9	<1	2.6	135.5	0.64	<0.05	12.80	0.203	1.67
W604300		530	20.5	97.6	<0.002	0.35	26.5	9.0	1	2.7	106.5	0.65	0.06	10.05	0.233	1.45
W604301		650	15.8	109.5	<0.002	0.29	19.70	11.7	<1	2.6	61.3	0.83	0.05	14.60	0.279	1.16
W604302		670	24.2	130.0	<0.002	0.30	19.60	11.2	<1	2.4	97.9	0.68	0.08	14.95	0.272	1.45
W604303		780	16.1	119.5	<0.002	0.26	25.9	11.3	<1	2.5	75.9	0.71	0.08	13.70	0.311	1.28
W604304		610	89.1	104.0	<0.002	1.00	37.1	9.9	<1	2.3	68.2	0.53	0.30	12.70	0.215	1.53
W604305		580	27.8	128.5	<0.002	0.40	12.45	9.4	<1	2.5	67.8	0.55	0.20	14.60	0.211	2.00
W604306		470	1750	159.5	0.002	8.28	107.5	8.5	1	11.3	67.5	0.40	0.77	9.47	0.171	2.25
W604307		580	28.0	120.5	<0.002	0.34	10.45	11.0	<1	2.9	93.9	0.52	0.12	14.20	0.210	1.74
W604308		640	23.1	115.0	<0.002	0.39	9.69	10.6	1	2.3	185.0	0.60	0.10	12.10	0.262	1.41
W604309		470	26.0	97.9	0.004	0.34	7.41	8.1	<1	1.6	263	0.51	0.06	10.25	0.200	1.25
W604310		610	18.7	108.0	<0.002	0.21	2.83	9.9	<1	2.0	370	0.61	0.06	12.00	0.251	1.21
W604311		550	14.9	113.0	<0.002	0.09	4.20	9.7	<1	2.0	205	0.62	<0.05	10.80	0.235	1.58
W604312		470	26.1	121.5	<0.002	0.49	19.15	7.5	<1	1.5	105.0	0.38	0.08	10.35	0.145	1.54
W604313		620	14.8	113.0	<0.002	0.14	3.19	10.5	<1	1.8	370	0.67	<0.05	12.65	0.257	1.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W604274		5.3	72	4.5	14.9	435	30.0	0.031
W604275		2.2	54	6.1	8.9	154	23.1	1.830
W604276		3.0	57	5.8	9.8	1110	22.8	0.314
W604277		4.4	69	2.7	15.7	1300	30.0	0.020
W604278		6.9	68	3.2	14.0	210	24.9	0.009
W604279		4.1	59	3.0	12.0	633	22.6	0.068
W604280		0.2	1	<0.1	2.6	5	2.1	<0.005
W604281		2.5	75	6.3	16.8	901	31.3	<0.005
W604282		3.2	76	3.1	16.1	1900	26.5	0.040
W604283		5.6	69	4.2	10.4	707	26.9	0.298
W604284		3.8	74	2.5	17.2	79	32.9	<0.005
W604285		3.6	69	1.2	16.3	52	32.0	<0.005
W604286		3.8	70	1.4	16.4	50	31.8	<0.005
W604287		3.3	69	1.5	14.0	76	29.3	<0.005
W604288		4.2	70	2.8	14.8	80	31.2	<0.005
W604289		4.0	74	2.3	15.8	112	30.6	0.008
W604290		3.0	63	2.0	13.3	86	29.3	0.008
W604291		9.9	68	2.5	11.6	74	28.8	0.018
W604292		6.9	65	2.0	12.0	135	27.1	0.006
W604293		1.3	85	0.6	16.2	5440	58.7	0.287
W604294		5.3	70	0.8	14.4	79	32.0	<0.005
W604295		5.0	68	2.4	14.2	54	33.6	0.009
W604296		4.5	70	1.6	17.4	63	33.8	<0.005
W604297		6.4	63	4.6	12.3	95	32.9	<0.005
W604298		7.9	65	3.1	14.4	71	31.3	<0.005
W604299		7.8	64	3.1	14.2	68	31.9	<0.005
W604300		3.5	65	3.1	13.6	94	30.3	<0.005
W604301		6.0	74	3.9	15.9	69	37.1	<0.005
W604302		3.1	74	2.5	16.9	130	31.3	<0.005
W604303		3.0	77	4.3	15.9	80	33.8	<0.005
W604304		9.4	77	1.9	13.5	150	26.4	0.028
W604305		6.0	67	1.4	12.6	83	29.1	<0.005
W604306		5.4	59	7.3	9.9	3490	23.6	1.790
W604307		6.4	88	1.1	12.6	66	26.5	<0.005
W604308		4.3	73	2.0	15.8	60	31.7	0.005
W604309		5.1	66	1.1	12.9	68	23.1	<0.005
W604310		3.8	68	1.0	15.9	63	31.8	<0.005
W604311		3.9	71	1.2	15.5	66	28.1	<0.005
W604312		4.7	55	0.9	10.7	83	21.5	0.006
W604313		4.1	70	0.9	17.5	51	32.9	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239280

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239282

Project: Klaza

P.O. No.: 19-023

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239282

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W604314		2.62			0.10	6.99	12.3	2170	1.63	0.46	2.84	0.13	44.3	7.0	9	13.70
W604315		2.20			1.68	7.92	391	2330	1.66	2.79	1.70	3.50	60.2	7.8	10	10.70
W604316		3.50			4.64	7.65	256	3300	1.46	5.43	0.24	10.60	48.1	15.9	8	12.60
W604317		4.30			0.77	7.97	67.2	2120	1.66	0.92	1.88	3.02	51.4	11.8	8	19.35
W604318		1.88			1.49	6.95	81.9	1850	1.55	0.87	3.38	10.35	49.7	6.7	7	27.4
W604319		1.29			0.24	6.96	13.0	2190	1.78	0.41	2.56	1.06	41.8	7.1	8	17.00
W604320		1.41			0.34	6.96	15.3	2180	1.65	0.36	2.57	0.93	39.4	5.9	8	17.75
W604321		1.38			4.66	7.21	93.2	1280	1.65	4.89	1.57	25.0	49.1	9.5	7	21.1
W604322		2.14			4.60	7.08	99.3	1230	1.84	4.79	1.02	38.2	54.8	10.1	7	27.6
W604323		1.44			1.60	7.87	78.6	4210	2.51	1.04	1.58	12.95	75.0	13.2	13	22.7
W604324		3.34			0.11	6.06	22.5	1650	2.18	0.20	4.43	6.11	51.9	3.5	12	25.9
W604325		4.28			0.10	6.67	13.4	1930	2.30	0.17	3.61	0.75	57.1	3.9	13	33.1
W604326		5.12			0.01	0.09	<0.2	90	0.08	0.03	21.0	0.09	1.42	1.0	<1	0.28
W604327		2.29			0.84	8.03	48.4	1190	1.83	0.47	1.86	91.5	52.8	10.6	8	36.0
W604328		2.02			13.65	6.84	374	3230	1.39	9.89	0.14	34.5	42.1	2.0	7	27.6
W604329		2.28			0.32	8.58	14.3	2790	1.46	0.28	0.51	17.10	51.0	10.2	7	14.60
W604330		3.03			1.03	7.91	40.6	2950	1.47	1.55	1.09	3.82	42.4	8.6	8	12.50
W604331		1.50			0.81	7.62	28.2	2800	1.31	1.10	1.45	3.33	44.9	5.4	2	14.45
W604332		3.33			0.61	7.68	31.3	1840	1.58	0.62	1.54	7.39	41.5	7.1	8	23.0
W604333		0.27	101	1.000	>100	5.64	260	610	0.72	4.83	1.48	25.6	19.80	11.5	65	0.92
W604334		1.89			2.51	6.30	156.5	670	1.62	1.55	2.64	24.9	35.2	6.8	6	16.20
W604335		4.60			0.46	7.03	26.4	2170	1.50	0.47	2.34	2.83	41.4	5.1	7	15.40
W604336		2.91			0.28	6.89	36.3	1310	1.48	0.28	2.98	0.64	45.7	4.3	7	23.8
W604337		1.27			2.37	6.55	210	840	1.57	2.12	3.65	21.6	60.9	10.8	7	18.55
W604338		1.82			0.13	7.71	18.2	1440	1.18	0.20	1.45	1.68	49.5	3.8	8	20.3
W604339		1.56			0.60	6.46	68.6	1170	1.42	0.20	4.53	2.02	44.7	6.0	44	24.6
W604340		2.20			0.82	6.76	105.5	1380	1.76	0.83	4.39	1.45	25.5	26.3	308	21.1
W604341		1.51			0.58	6.65	56.3	1460	1.68	0.20	4.92	1.93	29.2	18.9	288	18.20
W604342		2.16			0.25	6.32	24.8	1980	1.35	0.15	5.16	0.47	31.7	11.3	118	14.10
W604343		0.25	102	1.015	>100	5.43	251	600	0.75	4.94	1.43	26.0	18.95	11.5	62	0.89
W604344		2.06			2.35	6.77	40.9	990	1.41	1.01	2.19	51.3	35.9	7.9	60	10.80
W604345		3.51			1.67	6.49	69.3	600	1.39	0.23	0.44	38.3	34.3	7.9	54	9.76
W604346		<0.02			1.63	6.41	69.1	580	1.36	0.20	0.43	38.3	34.1	7.8	51	9.30
W604347		2.63			4.46	6.79	64.1	800	1.55	0.29	1.10	65.4	40.7	7.5	51	9.00
W604348		3.14			0.57	6.83	48.1	740	1.63	0.17	4.14	7.31	33.2	11.0	120	14.35
W604349		1.06			0.63	5.70	64.3	2560	1.50	0.09	8.33	0.76	29.1	12.4	105	21.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W604314		14.9	2.87	16.50	0.14	1.4	0.080	2.95	21.9	17.0	0.64	642	0.91	1.47	7.8	2.6
W604315		56.9	3.56	16.80	0.15	1.2	0.134	3.05	32.9	12.0	0.55	922	2.35	1.84	8.4	3.5
W604316		137.5	4.59	16.20	0.16	1.2	0.545	3.39	26.8	12.1	0.28	1460	2.50	0.09	7.0	2.3
W604317		76.3	3.71	16.85	0.15	1.5	0.146	3.38	28.2	14.9	0.51	1160	1.75	1.10	8.7	2.3
W604318		27.0	3.75	15.05	0.16	1.2	0.197	2.96	26.6	18.2	1.00	2060	2.42	0.17	7.3	2.2
W604319		36.1	2.82	15.50	0.16	1.3	0.072	2.93	20.3	11.9	0.51	790	1.18	1.70	8.3	2.1
W604320		38.4	2.84	15.70	0.15	1.3	0.081	2.98	18.9	12.1	0.48	807	1.78	1.67	8.1	2.0
W604321		136.0	4.95	15.20	0.16	1.2	0.383	3.29	26.8	9.9	0.59	2430	1.42	0.08	7.3	2.2
W604322		78.4	4.70	15.80	0.15	1.1	1.405	3.05	31.1	12.6	0.55	1320	4.17	0.06	7.4	2.8
W604323		53.3	3.12	18.70	0.15	2.9	0.563	2.76	37.9	24.1	0.41	1240	2.35	0.05	12.2	3.2
W604324		6.3	2.36	17.40	0.14	2.6	0.032	2.35	25.9	24.2	0.47	844	1.12	0.12	11.7	2.4
W604325		5.3	2.29	18.60	0.17	2.8	0.036	2.49	27.3	27.8	0.74	708	1.16	0.49	12.9	2.6
W604326		2.1	0.49	0.32	0.16	<0.1	0.008	0.04	0.7	1.1	12.60	211	0.13	0.01	0.2	1.8
W604327		39.2	4.57	17.55	0.18	1.2	0.541	3.06	27.5	21.2	0.85	3040	4.56	0.07	9.0	3.5
W604328		159.5	6.87	15.20	0.15	1.0	5.19	2.97	24.5	11.5	0.25	280	4.03	0.04	6.9	1.4
W604329		34.9	3.43	17.55	0.17	1.2	0.184	3.48	26.0	24.9	0.22	1440	5.07	0.10	8.7	2.7
W604330		41.0	3.27	16.65	0.16	0.9	0.188	3.42	22.3	17.4	0.37	983	4.05	0.08	7.7	2.4
W604331		15.1	3.51	15.80	0.14	1.4	0.155	3.32	22.3	20.7	0.44	1180	3.29	0.08	7.4	1.6
W604332		36.9	3.52	15.90	0.12	1.0	0.142	3.06	21.3	19.0	0.60	1880	11.85	0.06	7.9	2.5
W604333		6300	5.84	12.10	0.12	1.7	0.452	1.16	8.8	13.6	1.13	1750	21.3	1.64	3.4	28.4
W604334		43.1	4.61	13.60	0.14	0.8	0.568	2.84	20.5	13.7	0.89	2520	1.91	0.03	5.9	2.7
W604335		10.7	2.72	15.15	0.14	1.2	0.112	3.03	21.1	20.0	0.46	1080	1.49	0.84	7.5	2.3
W604336		12.0	2.44	14.85	0.16	1.4	0.052	2.69	23.8	25.5	0.91	1010	2.49	0.57	8.0	2.6
W604337		28.9	4.13	13.60	0.15	1.1	0.211	2.71	35.0	16.6	1.01	2600	5.13	0.04	6.1	4.5
W604338		11.5	2.37	15.60	0.15	1.3	0.061	2.68	27.1	27.4	0.53	721	1.65	0.08	8.2	3.6
W604339		19.0	2.86	12.95	0.14	1.1	0.076	2.39	24.3	19.2	1.63	2670	3.38	0.05	6.1	14.7
W604340		36.3	4.37	14.00	0.10	1.6	0.079	2.03	11.6	45.0	1.40	2400	2.78	0.04	5.6	74.3
W604341		73.9	3.49	13.10	0.10	1.7	0.049	1.30	14.1	57.7	1.54	1880	3.62	0.04	5.6	59.4
W604342		10.7	3.32	13.85	0.10	1.5	0.038	2.03	15.3	36.2	1.95	2190	1.06	0.05	5.3	34.3
W604343		6110	5.61	11.85	0.10	1.5	0.450	1.11	8.7	12.8	1.09	1720	22.5	1.58	3.2	27.6
W604344		29.9	4.20	14.95	0.11	1.5	1.070	2.93	18.6	120.0	1.31	3400	0.60	0.05	4.3	20.4
W604345		7.2	7.23	13.70	0.11	1.4	1.515	2.72	15.9	106.0	0.99	5000	0.41	0.05	3.7	18.6
W604346		6.9	7.03	14.15	0.12	1.4	1.540	2.68	15.9	111.0	0.96	4910	0.37	0.04	3.5	18.4
W604347		23.5	6.29	14.60	0.13	1.5	1.530	3.07	22.1	60.6	1.00	5970	0.47	0.04	4.5	17.4
W604348		7.6	3.69	15.15	0.11	1.6	0.182	2.72	16.3	65.0	1.54	2770	6.90	0.05	5.5	33.6
W604349		17.8	3.92	12.05	0.10	1.5	0.040	2.25	15.2	17.8	2.66	4720	2.08	0.04	5.3	40.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W604314		600	15.8	97.0	<0.002	0.19	4.66	9.3	<1	2.0	265	0.62	<0.05	10.05	0.253	1.61
W604315		680	94.3	132.0	0.002	0.10	5.68	11.0	<1	2.8	297	0.66	0.26	13.90	0.284	1.70
W604316		530	474	201	<0.002	0.62	19.40	10.0	1	3.9	39.6	0.57	0.82	14.30	0.206	2.93
W604317		600	82.3	155.5	<0.002	0.51	5.29	10.2	<1	3.1	206	0.73	0.15	15.95	0.259	2.15
W604318		510	667	131.0	<0.002	1.02	6.01	8.9	1	3.6	114.5	0.61	0.10	12.20	0.224	2.41
W604319		570	31.6	105.5	<0.002	0.12	4.06	8.8	1	2.7	306	0.72	0.14	11.60	0.247	1.47
W604320		560	43.0	107.5	<0.002	0.15	4.35	8.7	<1	3.1	304	0.71	0.07	11.15	0.243	1.39
W604321		530	1275	169.5	<0.002	1.80	12.45	8.8	<1	4.5	51.5	0.62	0.41	12.40	0.218	2.64
W604322		520	501	165.0	0.002	1.46	11.45	8.4	<1	4.7	55.6	0.66	0.48	12.50	0.216	2.55
W604323		920	270	95.9	<0.002	0.18	8.69	6.4	<1	2.5	119.0	0.81	0.14	12.85	0.277	1.41
W604324		870	48.9	58.2	<0.002	0.03	5.36	4.5	<1	2.0	279	0.76	<0.05	6.90	0.252	1.15
W604325		920	26.3	65.5	<0.002	0.03	6.77	5.3	<1	1.9	408	0.80	<0.05	7.86	0.264	1.38
W604326		190	1.8	1.5	<0.002	0.01	0.05	0.2	1	<0.2	53.0	<0.05	<0.05	0.13	<0.005	<0.02
W604327		660	173.5	150.5	0.002	0.10	8.68	10.7	<1	3.2	78.5	0.69	0.05	12.05	0.267	2.32
W604328		610	1190	173.0	<0.002	0.20	24.0	8.6	<1	6.5	49.9	0.56	0.67	13.45	0.208	2.93
W604329		620	23.7	153.5	0.002	0.06	11.65	11.7	<1	2.7	69.8	0.70	0.05	12.85	0.269	1.86
W604330		590	46.7	161.0	<0.002	0.74	17.00	10.5	<1	3.0	64.0	0.51	0.41	10.05	0.249	2.14
W604331		830	66.2	128.0	0.002	0.45	18.40	8.2	<1	2.7	75.4	0.71	0.28	16.45	0.262	1.83
W604332		640	159.5	131.0	0.010	0.33	22.0	9.9	<1	2.6	68.6	0.61	0.14	10.15	0.263	2.01
W604333		470	>10000	28.8	0.013	2.37	464	12.0	2	2.1	196.0	0.23	1.16	1.93	0.246	0.55
W604334		450	626	160.0	<0.002	1.97	15.80	7.7	<1	3.3	61.2	0.48	0.17	10.40	0.182	2.72
W604335		560	40.6	107.0	<0.002	0.30	9.35	8.0	<1	2.5	152.0	0.62	0.08	12.20	0.232	2.06
W604336		570	17.8	84.5	<0.002	0.26	9.25	8.5	<1	2.2	168.0	0.71	0.05	12.70	0.245	1.81
W604337		510	1665	148.5	<0.002	1.79	17.00	8.2	1	2.7	81.1	0.51	0.37	13.45	0.185	2.68
W604338		570	18.2	102.5	<0.002	0.11	14.10	9.2	<1	2.2	108.5	0.69	<0.05	15.05	0.250	1.54
W604339		460	53.5	113.0	<0.002	0.47	18.65	9.5	<1	1.8	117.5	0.52	<0.05	11.40	0.212	2.05
W604340		560	83.4	74.8	<0.002	0.50	22.3	21.8	<1	1.2	136.5	0.40	0.25	4.57	0.336	1.71
W604341		470	44.8	57.7	<0.002	0.06	36.7	20.9	<1	0.9	248	0.38	<0.05	4.17	0.329	1.15
W604342		550	93.5	108.0	<0.002	0.28	11.55	11.6	<1	0.8	256	0.41	<0.05	7.18	0.223	1.63
W604343		450	>10000	29.5	0.012	2.29	458	11.6	1	2.2	189.5	0.21	1.28	1.98	0.238	0.53
W604344		610	1010	168.0	<0.002	0.69	6.75	8.2	<1	1.8	75.7	0.34	<0.05	9.51	0.162	2.87
W604345		580	742	181.0	<0.002	0.82	8.55	7.8	<1	2.9	26.5	0.26	<0.05	9.04	0.139	2.76
W604346		580	699	181.5	<0.002	0.81	8.52	7.8	<1	3.0	25.3	0.25	<0.05	9.00	0.134	2.70
W604347		600	1955	211	<0.002	0.97	7.73	8.1	<1	2.9	35.9	0.36	<0.05	9.64	0.162	2.94
W604348		650	177.5	116.0	<0.002	0.61	8.64	11.0	<1	1.2	102.0	0.43	<0.05	7.76	0.232	2.59
W604349		500	49.7	112.0	<0.002	0.67	9.75	11.1	<1	0.9	234	0.44	<0.05	6.67	0.225	2.63

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W604314		4.6	70	1.2	14.8	59	33.8	<0.005
W604315		3.9	80	1.6	17.2	261	30.8	0.096
W604316		5.9	67	2.3	12.4	689	27.8	0.038
W604317		4.3	70	2.4	16.4	354	30.4	0.034
W604318		4.4	63	4.4	14.6	738	26.8	0.127
W604319		3.6	66	1.2	14.2	128	30.6	<0.005
W604320		3.9	66	1.3	13.6	138	29.4	0.006
W604321		4.2	60	2.5	12.6	1580	26.8	0.082
W604322		5.4	61	3.8	10.3	2580	25.5	0.095
W604323		8.2	56	2.7	18.2	1080	93.3	0.021
W604324		5.2	51	1.5	14.3	395	89.0	<0.005
W604325		4.1	53	1.7	12.2	165	92.9	<0.005
W604326		0.7	2	0.1	0.9	20	0.6	<0.005
W604327		3.7	72	3.6	17.5	5180	33.1	0.015
W604328		5.4	60	7.3	5.0	1950	24.1	0.577
W604329		3.4	75	2.8	18.0	1140	29.2	0.005
W604330		2.8	69	2.4	14.2	305	22.7	0.034
W604331		5.3	42	3.7	15.7	243	37.0	0.029
W604332		3.1	69	3.3	14.2	639	23.0	0.007
W604333		1.3	82	0.6	14.6	5180	51.9	0.254
W604334		3.4	52	3.4	9.4	1680	21.4	0.315
W604335		3.6	62	2.2	12.6	265	30.9	0.016
W604336		3.7	65	3.1	13.3	94	32.4	0.025
W604337		5.7	56	2.6	14.7	1300	25.7	0.090
W604338		5.0	67	3.1	13.9	84	32.6	0.009
W604339		4.4	70	3.1	15.6	250	28.8	0.157
W604340		4.2	151	5.4	16.3	380	50.5	0.022
W604341		4.7	136	5.4	16.2	309	55.2	0.005
W604342		4.4	94	2.4	13.0	152	48.0	0.013
W604343		1.4	81	0.6	14.3	5040	60.1	0.275
W604344		4.4	73	2.1	8.5	3420	43.6	0.140
W604345		3.3	69	3.7	5.1	2580	42.1	0.052
W604346		3.2	67	3.5	5.2	2580	42.7	0.048
W604347		4.1	70	2.9	7.2	4600	44.8	0.041
W604348		4.2	97	2.5	10.5	653	48.6	0.043
W604349		3.6	87	7.5	12.5	150	42.3	0.124

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239291

Project: Klaza

P.O. No.: 19-024

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239291

Sample Description	Method	WEI-21	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W604350		1.98		0.39	7.80	24.1	1470	1.64	0.53	5.45	0.44	31.3	21.8	338	19.75	44.1
W604351		3.77		0.48	6.91	74.8	5290	1.61	0.42	3.00	2.34	37.2	6.7	8	20.9	17.7
W604352		2.48		0.18	7.63	25.3	2810	1.73	0.35	2.30	0.56	52.7	7.2	11	13.95	9.0
W604353		0.93		0.38	6.70	73.6	4650	1.49	0.41	1.80	1.22	46.6	10.9	8	13.00	42.2
W604354		4.40		1.17	8.23	99.6	2470	1.77	0.82	0.96	21.2	57.4	5.7	9	19.95	27.3
W604355		3.52		2.22	7.50	166.5	1760	1.49	2.14	0.14	6.04	38.8	7.7	12	11.20	24.5
W604356		4.73		1.23	7.53	51.3	1770	1.87	1.49	1.27	24.4	30.6	12.5	13	10.45	20.5
W604357		0.32	1.000	99.0	5.44	238	600	0.62	4.66	1.43	23.8	19.40	11.7	62	0.88	6040
W604358		1.99		5.47	7.54	414	1810	1.52	5.19	0.08	7.50	40.3	4.3	143	20.5	62.7
W604359		3.03		0.74	7.86	176.5	950	1.92	0.76	0.98	143.0	67.5	7.1	12	25.5	88.2
W604360		3.98		1.28	7.51	209	1680	1.96	2.03	1.61	62.8	54.7	8.6	11	19.80	102.5
W604361		1.13		4.15	7.31	383	810	1.82	4.73	0.72	102.0	69.0	5.1	10	15.70	279
W604362		3.71		0.27	7.67	46.0	1940	1.74	0.24	1.56	21.8	59.7	8.4	11	16.75	18.7
W604363		5.07		0.03	0.07	0.5	70	0.05	0.03	21.4	0.24	1.19	0.9	1	0.21	3.5
W604364		1.45		0.76	7.79	894	1840	1.59	0.36	1.27	27.3	60.5	9.5	8	19.15	20.5
W604365		4.38		0.27	7.63	79.4	2130	1.62	0.34	1.85	9.82	50.9	7.0	9	13.15	30.8
W604366		2.85		0.26	7.74	55.6	2170	1.53	0.50	1.82	10.00	57.7	9.0	9	12.10	28.4
W604367		2.67		0.20	7.57	36.7	2070	1.51	0.29	2.02	3.14	58.6	5.8	8	14.90	21.0
W604368		0.93		0.44	6.62	21.6	4680	1.65	0.76	2.68	2.16	28.9	13.7	9	10.30	30.4
W604369		1.10		0.32	6.65	17.7	4040	1.65	0.50	2.50	1.66	30.4	11.6	8	10.25	17.4
W604370		4.50		0.20	7.49	30.0	1970	1.71	0.40	2.18	2.85	39.8	6.4	10	13.75	29.6
W604371		4.60		0.08	7.49	12.6	2170	1.77	0.19	2.38	0.33	39.8	5.9	12	10.95	3.9
W604372		3.84		0.52	7.37	42.0	2490	1.59	0.64	2.19	2.22	45.2	4.4	10	13.95	31.7
W604373		3.97		0.21	7.89	19.3	2570	1.51	0.36	2.10	0.28	46.0	5.6	10	13.50	16.4
W604374		5.12		0.15	7.64	14.6	2360	1.66	0.30	2.26	0.33	44.7	4.9	10	16.30	13.0
W604375		0.26		38.6	5.72	2550	1010	1.19	35.8	1.67	44.4	34.2	16.4	23	9.93	1170
W604376		2.43		0.34	6.98	22.3	2190	1.36	0.47	1.90	1.21	42.1	7.5	9	14.40	42.5
W604377		2.59		0.22	6.80	13.7	2150	1.28	0.37	2.37	0.42	37.9	5.9	9	14.80	10.5
W604378		0.91		0.82	6.29	25.8	830	1.75	2.18	2.79	0.53	49.0	11.6	7	21.3	24.0
W604379		3.57		0.20	7.53	23.8	1680	1.61	0.68	2.26	0.22	47.9	7.1	9	20.9	19.4
W604380		4.41		0.26	7.00	28.7	1750	1.54	0.72	2.34	0.12	48.9	5.4	10	17.45	27.6
W604381		<0.02		0.26	7.00	28.0	1750	1.49	0.64	2.27	0.11	53.3	4.9	8	16.90	26.9
W604382		4.53		0.13	7.41	13.7	2460	1.36	0.26	2.71	0.20	37.7	5.7	12	10.80	5.4
W604383		3.85		0.17	7.39	18.6	2590	1.49	0.43	2.52	0.24	42.1	6.4	10	11.25	13.3
W604384		1.73		0.15	7.30	19.5	2230	1.57	0.47	2.71	0.13	38.4	7.2	11	9.45	14.8
W604385		2.89		0.22	7.03	21.7	2400	1.38	0.54	2.46	0.25	36.8	5.4	10	9.97	10.9
W604386		3.14		0.16	7.18	14.2	2220	1.52	0.35	2.55	0.30	48.3	6.0	10	9.91	6.3
W604387		2.98		0.17	7.44	13.6	2510	1.50	0.24	2.65	0.45	43.9	7.0	12	10.05	7.6
W604388		5.13		0.07	7.76	10.2	2500	1.53	0.12	2.43	0.17	53.4	7.0	11	11.85	5.6
W604389		3.41		0.13	7.65	9.6	2390	1.58	0.30	2.42	0.21	51.8	6.7	13	11.45	6.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239291

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W604350		4.61	15.80	0.12	1.8	0.053	1.51	16.5	35.7	2.05	1370	1.54	0.45	6.1	85.2	670
W604351		3.18	15.95	0.15	1.1	0.063	2.84	18.5	26.4	0.79	2250	1.52	0.24	7.3	7.1	560
W604352		2.78	16.85	0.16	1.2	0.044	3.31	27.4	16.7	0.47	718	1.06	1.17	7.6	4.3	590
W604353		3.18	15.60	0.18	1.0	0.041	3.46	24.8	32.0	0.20	615	2.91	0.09	6.7	5.0	530
W604354		3.44	17.00	0.17	1.1	0.411	3.66	32.0	19.9	0.34	864	1.35	0.07	7.3	3.7	580
W604355		4.51	15.75	0.14	1.1	0.447	3.54	23.7	8.9	0.27	270	1.73	0.04	6.0	2.2	390
W604356		3.73	14.85	0.13	1.1	0.458	3.61	16.6	8.3	0.63	2140	1.13	0.04	6.5	3.9	560
W604357		5.63	11.50	0.11	1.5	0.428	1.10	8.8	11.6	1.09	1700	21.5	1.59	3.1	28.8	460
W604358		5.86	18.10	0.13	1.3	1.355	3.52	25.2	9.3	0.30	228	4.15	0.04	6.0	11.4	510
W604359		3.87	17.10	0.14	1.0	0.957	3.19	38.8	17.8	0.51	1560	1.48	0.04	7.1	4.3	580
W604360		4.37	15.15	0.13	1.0	0.534	3.01	29.4	22.6	0.63	1410	1.28	0.05	7.0	4.8	600
W604361		5.09	17.20	0.14	1.0	2.39	3.31	40.5	9.5	0.38	553	1.23	0.04	7.2	2.8	540
W604362		3.61	15.50	0.15	1.1	0.098	3.10	33.9	13.0	0.63	1190	0.78	1.47	7.7	3.1	580
W604363		0.47	0.23	0.10	0.1	0.010	0.03	0.6	0.9	13.00	205	0.16	0.01	0.2	1.7	180
W604364		4.39	15.85	0.15	1.1	0.100	3.97	34.6	11.5	0.49	2620	1.09	0.32	7.5	3.4	580
W604365		3.11	16.50	0.17	1.1	0.075	3.31	27.4	21.5	0.55	1060	0.85	0.90	7.9	2.8	580
W604366		2.89	16.05	0.16	1.1	0.068	3.25	32.4	23.8	0.50	899	0.96	0.99	7.9	2.9	600
W604367		2.24	15.90	0.17	1.2	0.051	3.00	32.3	27.5	0.38	550	1.57	1.02	8.1	2.6	560
W604368		2.04	12.85	0.16	1.0	0.113	3.05	16.7	8.2	0.97	865	2.61	0.05	5.4	2.2	410
W604369		1.97	13.10	0.17	1.0	0.106	3.01	17.3	8.4	0.93	841	3.14	0.07	5.6	2.2	390
W604370		2.49	15.40	0.17	1.3	0.091	2.88	20.8	21.3	0.67	697	5.32	0.73	7.8	2.6	550
W604371		2.72	16.10	0.17	1.2	0.046	2.59	21.0	12.5	0.68	498	1.46	2.35	8.5	2.6	590
W604372		2.23	15.80	0.15	1.0	0.100	2.80	23.9	16.8	0.72	896	1.67	0.53	7.1	2.2	560
W604373		2.62	16.60	0.13	1.1	0.071	2.55	25.0	26.4	0.48	513	1.27	1.25	8.6	2.6	620
W604374		2.71	16.00	0.15	1.1	0.060	2.75	23.9	16.9	0.54	593	1.02	1.61	8.2	2.3	580
W604375		8.90	13.50	0.15	0.8	1.525	2.57	17.8	16.6	0.66	2260	16.65	0.06	4.6	14.7	430
W604376		3.08	15.20	0.13	1.0	0.085	2.61	22.5	26.9	0.60	1000	2.91	0.15	7.2	2.6	560
W604377		2.78	16.65	0.15	1.1	0.062	2.92	19.1	26.7	0.29	710	2.23	0.21	8.4	2.1	580
W604378		3.67	13.55	0.14	0.9	0.081	2.56	29.4	20.4	0.94	1180	1.95	0.05	6.1	2.7	520
W604379		2.72	15.75	0.14	1.0	0.106	2.63	26.4	29.5	0.60	826	1.98	0.28	7.7	2.6	570
W604380		2.54	15.10	0.14	0.9	0.113	2.23	27.6	13.3	0.36	734	1.18	1.33	6.6	2.2	540
W604381		2.44	14.90	0.14	0.9	0.112	2.19	30.4	13.2	0.36	714	1.20	1.30	6.5	2.0	530
W604382		2.83	15.45	0.15	0.9	0.067	2.58	20.5	11.0	0.67	643	1.99	2.07	7.3	2.3	580
W604383		3.13	15.85	0.12	1.0	0.078	2.67	22.4	13.6	0.69	744	1.23	2.12	7.9	2.2	610
W604384		3.09	15.50	0.15	0.9	0.086	2.62	20.3	14.6	0.73	787	1.79	1.73	7.4	2.3	610
W604385		2.80	15.25	0.12	0.9	0.105	2.92	18.9	35.0	0.71	674	1.73	1.33	7.5	1.9	600
W604386		2.81	15.75	0.16	1.0	0.108	2.79	24.9	20.5	0.79	626	1.82	1.85	7.7	2.1	600
W604387		2.99	15.90	0.14	1.0	0.079	3.03	22.3	12.6	0.81	720	1.92	1.94	7.4	2.6	600
W604388		2.94	16.15	0.17	1.0	0.042	2.77	28.6	15.7	0.90	535	1.24	2.46	8.0	2.4	600
W604389		2.94	16.00	0.18	1.1	0.045	2.83	28.5	14.9	0.84	595	1.65	2.49	8.2	2.4	610

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239291

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W604350		28.0	71.5	<0.002	0.15	22.3	23.4	<1	1.0	269	0.45	<0.05	5.10	0.375	1.27	2.5
W604351		64.9	98.1	<0.002	0.56	9.23	9.5	<1	2.6	170.5	0.60	<0.05	10.00	0.242	2.11	3.3
W604352		18.9	131.0	<0.002	0.19	5.86	10.3	<1	2.4	250	0.63	<0.05	12.70	0.255	1.76	2.5
W604353		26.4	145.5	<0.002	0.40	78.2	8.1	<1	1.5	154.0	0.50	0.05	9.38	0.226	2.30	2.5
W604354		570	186.5	<0.002	0.36	11.15	10.5	1	2.2	86.4	0.58	<0.05	14.35	0.244	2.74	3.8
W604355		774	225	<0.002	0.55	5.51	8.6	<1	9.2	28.9	0.54	0.36	10.40	0.196	2.91	3.1
W604356		362	245	<0.002	1.05	5.68	9.0	<1	3.5	42.2	0.61	0.13	14.80	0.208	3.16	3.8
W604357		>10000	27.3	0.010	2.31	437	11.3	2	1.9	189.0	0.19	1.10	2.02	0.235	0.47	1.8
W604358		973	218	<0.002	0.41	9.52	13.8	1	5.1	33.0	0.46	1.87	10.20	0.247	3.31	5.1
W604359		220	186.0	<0.002	0.42	8.71	9.8	<1	3.7	66.6	0.55	0.12	14.85	0.231	2.73	4.7
W604360		149.0	148.5	<0.002	1.40	9.31	9.8	1	2.5	80.8	0.58	0.28	13.60	0.225	2.24	5.6
W604361		506	210	<0.002	2.88	11.30	9.2	<1	6.3	42.9	0.62	0.16	14.40	0.215	3.37	6.1
W604362		119.5	136.5	<0.002	0.14	3.57	9.5	<1	2.4	235	0.66	<0.05	16.80	0.244	1.61	3.0
W604363		2.7	1.3	<0.002	0.01	0.06	0.2	1	<0.2	54.3	<0.05	<0.05	0.13	<0.005	0.02	0.6
W604364		262	210	<0.002	0.40	10.40	9.9	<1	2.8	81.3	0.61	<0.05	14.95	0.233	2.33	4.2
W604365		50.5	152.0	<0.002	0.14	10.35	9.8	<1	2.4	173.5	0.65	<0.05	14.90	0.240	1.75	2.7
W604366		26.3	139.5	<0.002	0.20	5.93	9.4	<1	2.6	177.0	0.67	<0.05	18.05	0.237	1.59	2.5
W604367		20.2	121.5	<0.002	0.12	3.38	9.2	<1	2.8	193.5	0.67	<0.05	17.35	0.229	1.46	3.5
W604368		20.4	173.0	<0.002	0.40	5.92	7.0	1	2.6	109.5	0.38	0.10	13.25	0.170	2.39	8.5
W604369		13.0	164.0	<0.002	0.34	5.99	7.3	<1	2.6	99.4	0.43	0.12	13.60	0.177	2.26	8.4
W604370		14.5	127.5	0.002	0.21	3.93	9.4	<1	3.0	157.0	0.67	0.05	13.65	0.231	1.73	4.6
W604371		16.3	99.4	<0.002	0.05	2.39	10.0	<1	2.9	357	0.71	<0.05	11.90	0.254	1.04	3.3
W604372		40.9	118.0	<0.002	0.24	6.07	9.2	<1	3.1	105.5	0.56	0.06	11.60	0.228	1.77	2.5
W604373		22.7	103.0	<0.002	0.10	4.46	11.1	1	4.2	212	0.66	0.07	13.00	0.266	1.15	3.3
W604374		19.0	101.0	<0.002	0.15	3.99	10.3	<1	3.0	257	0.67	0.06	13.15	0.251	1.21	3.3
W604375		1655	139.5	0.002	7.74	106.0	8.0	2	10.6	62.5	0.37	0.76	8.58	0.162	2.09	5.0
W604376		14.2	109.5	<0.002	0.47	36.8	9.3	<1	2.6	72.9	0.55	0.08	11.80	0.214	1.57	4.3
W604377		32.9	100.5	<0.002	0.35	9.39	8.9	<1	3.1	105.0	0.69	<0.05	10.05	0.253	1.37	2.2
W604378		60.2	139.5	<0.002	1.57	19.55	8.7	1	2.6	81.8	0.51	0.41	12.00	0.188	1.78	5.6
W604379		13.2	111.0	<0.002	0.47	8.97	9.8	<1	2.9	100.5	0.60	0.11	12.50	0.238	1.70	4.7
W604380		11.6	92.8	<0.002	0.30	5.75	8.8	<1	3.1	181.5	0.51	0.09	10.05	0.220	1.54	4.9
W604381		10.9	93.0	<0.002	0.28	5.57	9.0	<1	3.1	178.0	0.48	0.09	10.75	0.215	1.47	5.0
W604382		15.4	93.5	<0.002	0.16	2.53	10.1	1	3.2	356	0.50	0.05	9.78	0.252	1.11	2.8
W604383		18.3	89.9	<0.002	0.37	2.69	10.4	1	3.7	345	0.56	0.09	10.20	0.261	1.07	2.9
W604384		12.8	97.5	<0.002	0.53	3.26	10.0	<1	3.5	292	0.50	0.11	11.65	0.246	1.26	3.9
W604385		20.5	92.1	<0.002	0.43	3.55	9.5	<1	3.6	257	0.54	0.10	9.61	0.247	1.34	3.7
W604386		18.0	99.3	<0.002	0.32	2.56	9.8	<1	3.4	323	0.57	0.07	10.00	0.250	1.33	3.7
W604387		45.7	114.5	<0.002	0.26	2.19	10.4	1	2.7	332	0.53	0.05	9.83	0.257	1.35	3.3
W604388		19.1	104.0	<0.002	0.03	1.47	10.7	<1	2.2	401	0.60	<0.05	12.70	0.266	1.10	2.5
W604389		18.8	109.0	<0.002	0.14	1.81	10.3	<1	2.1	367	0.63	<0.05	13.10	0.259	1.14	3.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239291

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W604350		162	2.9	17.1	167	67.7	<0.005
W604351		66	2.4	14.7	362	27.5	0.235
W604352		70	1.6	15.0	160	29.8	<0.005
W604353		61	1.6	9.5	264	25.1	0.010
W604354		67	3.3	15.6	1640	28.8	0.036
W604355		61	3.6	5.1	856	25.5	0.034
W604356		56	2.8	11.4	1270	28.1	0.023
W604357		78	0.5	14.3	4970	59.9	0.235
W604358		96	8.0	8.2	1450	40.2	0.856
W604359		65	3.3	12.2	7230	24.4	0.038
W604360		65	3.7	14.2	2160	25.7	0.036
W604361		61	5.4	7.8	2620	25.1	0.428
W604362		64	1.7	16.6	2370	28.9	<0.005
W604363		2	0.1	0.8	25	<0.5	<0.005
W604364		63	3.1	19.7	3090	30.1	0.109
W604365		65	1.5	16.4	1050	31.8	0.010
W604366		63	1.1	15.9	1140	30.1	0.005
W604367		61	1.1	15.3	359	32.6	<0.005
W604368		46	2.7	14.8	117	25.9	0.398
W604369		48	2.3	13.5	108	25.7	0.039
W604370		61	1.2	14.5	311	31.7	0.005
W604371		66	1.8	16.7	76	32.5	<0.005
W604372		63	2.2	13.7	218	26.5	0.007
W604373		70	3.9	16.8	99	30.1	0.019
W604374		67	1.6	14.9	78	28.9	<0.005
W604375		55	7.0	8.9	3250	22.2	1.645
W604376		62	1.6	15.2	180	26.5	<0.005
W604377		69	1.7	13.8	118	29.7	<0.005
W604378		56	1.7	17.0	103	21.7	0.010
W604379		62	1.8	13.5	82	26.0	0.012
W604380		63	1.8	12.5	64	21.2	<0.005
W604381		61	1.7	12.5	61	22.9	<0.005
W604382		67	1.3	14.8	66	23.2	<0.005
W604383		72	1.6	15.3	74	24.5	0.005
W604384		70	1.2	14.6	62	23.1	<0.005
W604385		70	2.4	14.2	72	25.9	0.005
W604386		69	1.3	15.5	65	25.8	<0.005
W604387		71	1.2	16.2	76	25.5	<0.005
W604388		70	1.2	17.7	46	23.7	<0.005
W604389		68	0.9	17.1	48	30.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239291

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239296

Project: Klaza

P.O. No.: 19-025

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239296

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603690		3.03			1.28	7.17	34.2	2590	1.52	0.30	2.26	6.42	42.3	9.3	9	8.20
W603691		3.50			0.20	7.32	28.2	3150	1.61	0.26	2.31	0.09	44.1	9.0	9	9.49
W603692		3.61			0.97	7.22	217	1770	1.57	0.32	2.49	0.83	64.6	11.6	6	14.85
W603693		2.14			0.18	6.85	11.4	2240	1.43	0.16	2.20	0.26	29.6	2.8	8	12.85
W603694		3.78			0.13	7.26	8.1	2440	1.55	0.15	2.47	0.13	43.2	3.5	11	10.20
W603695		6.77			0.12	6.98	24.5	2850	1.64	0.26	1.64	0.14	40.2	8.2	7	10.35
W603696		1.19			1.11	6.39	133.5	440	1.27	0.96	1.88	0.74	23.3	53.4	7	6.74
W603697		1.58			0.58	7.22	17.3	1590	1.73	0.85	1.22	0.79	22.8	28.5	8	10.40
W603698		1.47			0.48	7.16	20.3	2450	1.69	0.61	1.19	0.71	28.3	28.7	7	10.30
W603699		2.92			1.24	7.07	27.2	1100	1.62	2.43	1.44	0.18	28.8	67.6	8	13.95
W603701		6.67			0.22	7.61	10.7	2740	1.53	0.59	1.39	0.07	39.8	17.0	9	11.00
W603702		5.14			0.01	0.30	1.2	30	0.16	0.02	33.2	<0.02	1.49	1.1	4	0.09
W603703		3.26			0.40	7.35	25.1	3430	1.60	1.35	2.18	0.14	44.8	25.2	6	15.70
W603704		3.33			0.45	7.74	19.2	3670	1.73	0.98	1.74	0.07	57.5	18.0	6	12.05
W603705		2.78			0.26	6.42	11.4	3350	1.71	0.48	1.78	0.17	56.5	8.9	6	11.20
W603706		7.93			0.18	7.43	17.0	2170	1.55	0.27	2.23	0.35	43.8	4.7	10	12.40
W603707		2.15			2.07	7.25	360	730	1.71	0.49	2.56	2.45	46.6	7.8	7	17.60
W603708		3.04			0.16	8.01	10.3	1980	1.41	0.25	0.96	0.12	47.8	4.9	8	10.10
W603709		4.35			0.25	7.21	16.8	1890	1.48	0.18	2.22	0.34	38.3	5.6	8	23.1
W603710		0.26			36.4	5.51	2490	810	1.10	32.5	1.59	43.6	34.0	15.6	20	9.64
W603711		2.52			2.01	5.92	315	2210	1.30	0.30	3.20	4.05	35.8	9.1	8	12.40
W603712		3.80			1.59	6.82	472	2060	1.31	0.26	2.32	1.01	50.7	4.8	7	14.15
W603713		3.51			0.39	7.61	43.4	2390	1.53	0.24	1.86	0.28	40.8	3.5	8	15.40
W603714		3.98			0.27	6.93	25.8	2360	1.49	0.28	2.43	0.31	35.9	4.2	9	18.65
W603715		3.01			0.74	6.97	44.7	1850	1.50	0.18	2.68	0.66	45.6	5.4	7	21.7
W603716		5.36			0.25	7.30	19.2	3010	1.53	0.25	2.61	0.23	45.6	5.7	10	22.0
W603717		2.93			0.45	7.23	13.6	3060	1.56	0.33	2.65	0.15	45.7	6.7	13	13.35
W603718		0.26	102	1.045	>100	5.66	252	630	0.68	4.95	1.48	25.0	19.95	11.6	62	0.91
W603719		2.27			0.26	7.30	17.2	2050	1.72	0.32	2.64	0.12	31.3	10.1	10	11.25
W603720		2.39			1.88	6.60	509	1980	1.47	0.24	3.31	6.87	37.0	2.9	8	13.60
W603721		3.99			0.58	7.05	343	1400	1.52	0.27	3.27	2.32	42.2	4.8	8	15.00
W603722		<0.02			0.58	6.69	341	1350	1.46	0.25	3.19	2.13	39.5	4.3	7	14.05
W603723		3.16			0.26	7.34	11.6	2340	1.56	0.25	2.59	0.26	38.4	6.2	11	13.10
W603724		6.45			0.19	7.33	8.3	2300	1.55	0.22	2.59	0.19	41.0	5.3	13	13.65
W603725		1.06			0.76	6.63	114.5	1590	1.42	0.26	3.09	2.70	49.0	8.2	9	15.15
W603726		4.66			0.21	7.35	24.2	2100	1.74	0.17	2.27	0.28	40.9	4.3	10	16.95
W603727		1.94			0.47	6.96	71.6	2380	1.57	0.25	1.89	0.81	38.8	4.9	14	14.95
W603728		3.39			0.32	7.19	15.4	2590	1.64	0.25	2.03	0.33	42.8	2.6	8	14.45
W603729		3.06			0.86	7.14	19.1	1710	1.67	0.43	2.04	21.4	46.9	16.5	8	10.65
W603730		3.63			0.53	7.08	20.3	2960	1.60	0.68	1.67	0.31	46.3	4.3	9	18.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239296

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603690		17.7	3.57	15.15	0.16	1.1	0.177	3.17	22.9	20.0	0.72	1150	0.84	1.18	7.8	2.7
W603691		2.7	3.73	15.70	0.15	1.2	0.148	3.23	24.5	36.0	0.65	1260	0.23	1.50	8.3	2.2
W603692		4.2	4.03	16.70	0.18	1.1	0.082	3.40	36.0	22.0	0.84	3080	1.64	0.03	6.9	3.1
W603693		30.6	2.70	14.80	0.13	1.1	0.069	3.56	14.6	41.5	0.61	704	1.33	0.49	7.7	2.5
W603694		15.5	2.91	15.90	0.15	1.1	0.077	3.08	21.6	8.7	0.67	695	1.18	2.02	7.9	2.5
W603695		5.4	3.22	15.05	0.12	1.5	0.086	2.87	21.5	84.1	0.72	1050	0.43	0.06	7.5	2.0
W603696		10.1	5.89	12.65	0.09	1.1	0.192	3.11	12.5	13.0	0.67	2420	1.25	0.03	6.2	1.7
W603697		14.0	4.08	14.45	0.09	1.1	0.114	2.93	12.6	129.5	0.72	1680	0.90	0.03	6.7	2.0
W603698		12.8	3.90	14.65	0.08	1.1	0.132	3.02	15.4	99.5	0.69	1640	0.97	0.03	7.0	1.8
W603699		14.5	5.20	14.70	0.09	1.2	0.133	3.04	15.9	120.5	0.74	1620	0.80	0.04	7.5	2.7
W603701		7.5	4.00	16.25	0.12	1.2	0.111	3.59	21.8	59.6	0.76	809	1.04	0.75	8.0	2.1
W603702		1.6	0.21	1.00	0.06	0.1	<0.005	0.06	1.4	1.7	1.72	122	0.09	0.14	0.4	0.9
W603703		9.9	4.80	14.85	0.10	1.2	0.064	2.83	23.5	134.0	0.88	1290	0.80	0.43	7.6	3.3
W603704		9.8	3.27	15.85	0.13	1.8	0.069	2.98	30.3	30.5	0.66	651	1.80	1.44	8.0	2.9
W603705		9.2	2.26	12.85	0.13	1.8	0.067	2.34	31.9	194.0	0.67	875	2.03	0.11	6.7	1.6
W603706		33.2	2.93	15.85	0.13	1.3	0.087	3.15	22.7	20.4	0.67	665	2.05	1.80	8.3	2.1
W603707		28.0	3.64	16.00	0.13	1.3	0.086	3.67	24.2	29.1	0.85	2640	2.73	0.21	8.3	2.6
W603708		14.7	2.92	16.00	0.12	1.3	0.074	3.22	25.5	32.4	0.66	659	1.81	1.24	8.3	2.0
W603709		52.8	2.67	15.40	0.12	1.4	0.054	2.95	19.2	142.0	0.63	860	1.91	0.99	7.9	2.2
W603710		1110	8.47	13.10	0.10	0.8	1.445	2.44	17.7	14.8	0.63	2130	16.15	0.06	4.4	13.6
W603711		28.4	2.97	11.70	0.11	1.1	0.080	2.71	20.1	31.6	1.18	2620	2.44	0.03	6.1	2.3
W603712		68.5	2.54	13.80	0.11	1.4	0.060	3.16	28.2	15.9	0.83	2010	2.52	0.03	7.2	2.1
W603713		77.1	3.31	16.15	0.11	1.3	0.083	3.57	21.1	43.3	0.68	863	3.78	0.80	8.1	2.0
W603714		62.7	2.80	15.85	0.11	1.2	0.089	3.30	17.6	58.3	0.61	819	3.06	1.05	8.0	1.9
W603715		48.5	2.70	15.10	0.12	1.2	0.054	3.16	22.9	85.3	0.92	1860	4.75	0.04	7.5	2.2
W603716		51.4	3.25	16.60	0.12	1.3	0.081	3.28	23.1	53.0	0.64	853	3.04	1.28	8.4	2.2
W603717		82.1	3.07	15.65	0.12	1.2	0.086	3.34	23.0	10.8	0.58	683	2.40	1.71	7.9	2.0
W603718		6290	5.79	11.85	0.08	1.7	0.438	1.13	9.2	12.6	1.13	1740	21.5	1.63	3.2	27.2
W603719		13.3	2.97	14.50	0.10	1.2	0.093	3.60	15.3	38.1	0.69	960	2.15	0.28	7.6	1.9
W603720		22.1	3.27	14.25	0.11	1.1	0.124	2.90	21.2	44.2	1.07	3680	1.71	0.03	6.8	2.3
W603721		17.3	2.95	14.85	0.12	1.2	0.122	3.54	21.1	105.5	0.93	4170	1.77	0.05	7.4	1.9
W603722		17.8	2.83	14.40	0.11	1.2	0.111	3.40	20.7	97.7	0.90	4110	1.71	0.05	7.2	1.8
W603723		20.9	2.69	16.00	0.13	1.3	0.077	3.34	19.0	14.3	0.61	905	1.93	1.83	8.1	2.4
W603724		33.4	2.79	15.55	0.12	1.3	0.063	3.04	20.6	15.8	0.67	663	1.84	2.19	8.1	2.1
W603725		23.0	3.05	14.75	0.13	1.2	0.111	3.68	26.7	29.4	1.00	4040	2.03	0.33	7.2	2.2
W603726		26.0	2.70	16.20	0.12	1.3	0.073	3.27	21.0	117.5	0.62	804	1.56	1.23	8.4	2.1
W603727		11.1	3.20	15.35	0.11	1.1	0.184	3.59	19.9	116.0	0.73	1480	1.40	0.09	7.5	2.2
W603728		10.4	2.99	15.70	0.11	1.2	0.159	3.49	21.9	61.8	0.83	1110	1.16	0.17	7.9	2.4
W603729		27.6	3.65	14.75	0.11	1.1	0.601	3.04	26.1	92.3	0.90	1410	1.36	0.04	7.8	2.0
W603730		85.1	3.01	15.85	0.10	1.1	0.193	2.48	24.8	108.5	0.66	950	0.94	0.86	7.9	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239296

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603690		530	559	130.5	<0.002	0.54	11.35	9.0	<1	1.8	213	0.66	<0.05	13.55	0.229	1.84
W603691		580	10.9	126.5	<0.002	0.43	10.25	10.0	<1	2.1	265	0.68	<0.05	13.50	0.249	1.83
W603692		480	44.7	190.5	<0.002	2.40	20.3	8.9	1	1.8	84.8	0.57	<0.05	11.90	0.209	2.61
W603693		550	26.9	123.5	<0.002	0.07	20.3	7.9	<1	1.6	163.0	0.65	<0.05	8.96	0.240	2.03
W603694		570	19.0	109.5	<0.002	0.05	4.53	9.0	<1	1.7	366	0.66	<0.05	10.20	0.244	1.36
W603695		450	10.9	117.0	<0.002	0.28	17.85	7.5	<1	1.6	97.8	0.81	<0.05	14.65	0.197	1.98
W603696		460	47.1	187.5	<0.002	3.98	19.50	7.3	<1	2.3	43.1	0.54	0.73	10.90	0.189	2.57
W603697		520	35.2	170.0	<0.002	0.72	31.0	8.1	<1	1.8	92.2	0.57	0.06	12.30	0.217	2.35
W603698		520	30.7	172.5	<0.002	0.66	29.3	8.3	<1	2.0	98.6	0.59	0.05	12.10	0.218	2.51
W603699		510	20.2	169.5	<0.002	2.09	22.2	8.6	1	2.1	103.5	0.64	1.40	12.40	0.225	2.45
W603701		580	11.3	153.5	<0.002	0.62	9.81	9.7	1	2.4	149.0	0.64	0.15	12.90	0.242	2.09
W603702		60	<0.5	2.0	<0.002	0.01	0.13	0.5	1	<0.2	79.7	0.06	<0.05	0.19	0.011	0.03
W603703		490	10.9	95.9	<0.002	0.97	20.3	7.2	<1	1.8	186.0	0.79	0.15	13.20	0.211	1.85
W603704		410	16.9	109.0	<0.002	0.78	7.44	7.5	1	1.7	209	1.06	0.12	19.85	0.185	1.75
W603705		330	13.9	113.0	<0.002	0.45	31.0	5.6	1	1.5	149.5	0.96	0.08	21.8	0.132	1.59
W603706		580	37.3	125.0	<0.002	0.13	6.69	9.4	<1	2.4	289	0.75	<0.05	13.10	0.239	1.83
W603707		620	89.5	170.0	<0.002	2.23	32.4	11.3	1	3.1	133.5	0.72	0.07	12.20	0.259	2.89
W603708		620	21.2	139.5	<0.002	0.15	6.55	10.2	<1	2.4	175.5	0.70	<0.05	15.20	0.252	1.83
W603709		570	30.3	106.0	<0.002	0.12	23.2	8.6	<1	2.4	282	0.70	<0.05	10.60	0.240	1.77
W603710		430	1535	139.0	0.002	7.36	95.6	7.7	1	10.1	60.7	0.36	0.66	8.13	0.153	2.09
W603711		370	101.0	153.0	<0.002	0.82	45.7	6.9	1	1.7	109.5	0.52	<0.05	10.80	0.179	2.38
W603712		500	56.8	166.0	<0.002	0.88	53.5	7.9	<1	1.9	96.0	0.71	<0.05	12.65	0.205	2.81
W603713		580	25.5	145.5	<0.002	0.33	25.6	9.5	<1	2.6	210	0.70	<0.05	11.35	0.248	2.10
W603714		560	24.7	122.0	<0.002	0.12	17.35	8.7	<1	2.5	269	0.66	<0.05	9.89	0.239	2.12
W603715		520	41.0	123.0	<0.002	0.38	30.0	8.9	1	2.4	178.0	0.60	<0.05	11.05	0.232	3.12
W603716		600	24.3	123.0	<0.002	0.13	12.30	10.8	1	2.8	310	0.67	<0.05	10.10	0.268	2.07
W603717		570	27.3	128.5	<0.002	0.10	9.00	8.9	<1	2.4	296	0.64	<0.05	10.30	0.244	1.99
W603718		470	>10000	28.5	0.009	2.34	453	11.6	2	1.9	198.0	0.21	1.13	1.94	0.244	0.50
W603719		580	15.6	143.5	<0.002	0.19	18.40	8.0	<1	2.3	123.0	0.65	<0.05	10.45	0.242	2.63
W603720		440	138.5	163.0	<0.002	1.25	37.9	7.7	<1	2.1	134.5	0.59	<0.05	11.55	0.188	2.51
W603721		560	56.8	134.0	<0.002	1.15	26.4	8.6	<1	3.4	189.0	0.59	<0.05	10.90	0.238	2.67
W603722		550	55.8	126.0	<0.002	1.11	26.3	8.2	<1	3.4	181.5	0.57	<0.05	10.55	0.229	2.51
W603723		570	25.5	128.5	<0.002	0.10	5.44	9.0	<1	3.5	326	0.65	<0.05	10.45	0.251	1.84
W603724		570	26.0	116.0	<0.002	0.03	3.90	8.9	<1	3.0	379	0.67	<0.05	11.75	0.247	1.49
W603725		490	97.2	160.0	<0.002	1.01	19.55	8.5	<1	2.5	174.0	0.63	0.05	12.50	0.209	2.57
W603726		570	27.2	129.0	<0.002	0.07	14.70	9.2	<1	2.7	297	0.70	<0.05	11.40	0.244	1.83
W603727		520	35.2	153.5	<0.002	0.42	25.5	8.9	<1	2.4	149.0	0.61	<0.05	11.20	0.228	2.64
W603728		540	22.9	140.0	<0.002	0.14	13.20	8.6	<1	2.5	141.5	0.67	<0.05	11.10	0.236	2.63
W603729		560	100.5	149.0	<0.002	0.50	16.85	9.0	<1	3.0	114.5	0.62	0.08	12.15	0.230	2.43
W603730		560	30.4	115.0	<0.002	0.16	32.2	9.4	<1	4.2	202	0.64	<0.05	11.90	0.231	1.88

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239296

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603690		4.3	60	2.3	13.8	709	30.9	0.023
W603691		3.0	65	2.1	14.1	55	32.7	0.010
W603692		7.0	63	2.4	12.1	146	25.4	0.074
W603693		4.1	62	2.2	11.3	73	28.8	<0.005
W603694		3.5	65	1.7	13.7	58	31.8	<0.005
W603695		8.7	60	3.1	12.4	62	39.1	<0.005
W603696		10.3	49	6.7	9.7	108	26.4	0.313
W603697		10.3	58	3.7	11.7	129	29.9	0.007
W603698		9.6	57	3.9	12.9	109	29.8	0.010
W603699		4.5	56	5.4	11.8	54	32.7	1.655
W603701		3.0	64	3.2	13.0	58	32.6	0.021
W603702		0.2	3	<0.1	3.0	5	3.1	0.005
W603703		10.3	66	3.3	12.5	86	32.2	0.012
W603704		6.1	60	2.5	13.1	58	44.2	0.006
W603705		8.0	40	2.9	12.6	45	43.6	0.008
W603706		4.3	64	2.7	15.3	70	36.7	<0.005
W603707		5.0	75	4.3	16.3	203	35.4	0.068
W603708		4.7	67	3.0	14.4	61	39.6	<0.005
W603709		4.8	64	3.3	13.4	67	40.1	0.006
W603710		5.0	53	6.7	9.2	3110	21.5	1.795
W603711		7.9	50	3.4	10.7	361	31.0	0.054
W603712		5.8	55	3.2	16.8	150	37.3	0.043
W603713		5.2	67	3.3	13.7	77	36.9	0.012
W603714		3.6	65	3.1	12.5	75	33.7	0.007
W603715		5.6	62	3.4	13.0	99	35.4	0.011
W603716		4.3	80	3.0	14.3	74	35.5	0.006
W603717		4.0	65	2.9	13.6	64	34.0	0.007
W603718		1.5	83	0.6	14.6	5100	68.0	0.262
W603719		4.4	64	3.5	11.3	57	34.6	0.011
W603720		4.8	57	3.4	12.8	452	31.4	0.085
W603721		4.7	63	2.9	13.1	204	34.2	0.056
W603722		4.5	60	2.8	13.4	190	34.1	0.058
W603723		4.4	68	1.8	13.8	67	37.7	0.005
W603724		4.0	65	2.2	14.8	60	35.3	<0.005
W603725		6.0	56	4.0	15.1	217	33.0	0.052
W603726		4.5	65	2.5	14.5	61	37.4	<0.005
W603727		4.1	62	3.4	12.4	105	31.4	0.013
W603728		5.3	64	2.8	14.0	90	33.8	<0.005
W603729		5.7	59	4.0	13.8	1700	32.2	0.033
W603730		2.9	64	3.4	12.7	93	32.7	0.011

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239296

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239309

Project: Klaza

P.O. No.: 19-026

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239309

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	As-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
W604390		3.48					0.22	7.01	12.8	2670	1.52	0.43	2.39	0.32	46.4	6.4
W604391		2.57					0.13	7.33	10.4	2560	1.60	0.32	2.62	0.12	42.3	7.0
W604392		1.58					0.08	7.31	5.5	2340	1.52	0.20	2.50	0.09	51.2	6.9
W604393		2.30					1.68	7.32	123.5	720	1.64	2.24	1.16	4.28	43.9	5.0
W604394		2.09					1.37	7.60	203	1210	1.70	1.30	2.09	10.90	53.4	6.6
W604395		5.10					0.01	0.14	0.8	230	0.09	0.02	33.1	0.03	1.20	0.6
W604396		1.32					3.62	6.25	158.0	790	1.31	0.81	2.65	35.1	43.4	4.1
W604397		1.96					1.24	7.44	177.0	870	1.56	0.73	1.46	26.1	68.8	6.0
W604398		2.12				1.600	39.4	5.73	>10000	470	1.22	67.0	1.08	66.6	27.0	9.0
W604399		2.91					1.10	7.01	155.0	930	1.59	1.17	1.65	8.42	58.9	6.0
W604400		0.92			3.54		21.5	5.30	254	320	1.23	15.45	2.17	469	40.2	5.1
W604401		1.55					0.27	8.05	31.7	2310	1.48	0.24	1.08	1.16	53.6	6.3
W604402		1.31					0.39	7.81	35.1	1930	1.56	0.25	1.22	3.69	58.8	5.6
W604403		1.72					0.64	7.04	45.8	2270	1.66	0.33	1.02	3.17	46.2	7.4
W604404		4.97					0.16	8.25	24.3	2410	1.37	0.14	1.03	0.45	54.9	5.8
W604405		1.83					0.54	7.40	78.9	2260	1.63	0.16	0.89	7.40	52.8	6.7
W604406		1.05					0.16	7.55	21.4	750	1.20	0.12	0.78	0.59	55.7	6.8
W604407		3.51					0.07	8.06	21.9	2010	1.13	0.10	0.88	0.78	52.3	6.5
W604408		0.26	102	1.010			>100	5.54	253	620	0.79	4.92	1.42	24.9	19.15	12.2
W604409		4.57					0.36	7.46	21.2	1790	1.52	0.22	1.90	1.39	47.3	7.1
W604410		5.05					0.11	7.58	11.3	2400	1.79	0.12	2.56	0.35	44.1	6.5
W604411		4.16					0.10	7.28	14.9	2070	1.67	0.14	1.87	0.15	45.2	6.0
W604412		2.82					0.12	7.30	20.1	2070	1.43	0.23	1.53	0.12	41.5	6.8
W604413		3.74					0.15	7.67	23.4	2070	1.57	0.37	1.24	0.10	55.2	6.2
W604414		<0.02					0.14	7.55	21.7	2040	1.45	0.36	1.20	0.11	52.8	5.8
W604415		2.11					0.43	6.89	42.9	4080	1.58	0.73	2.30	0.29	43.5	7.0
W604416		2.14					0.48	6.58	49.2	7850	1.58	0.36	3.03	3.14	42.6	5.7
W604417		2.14					0.11	7.21	15.8	750	1.55	0.19	2.09	0.30	41.0	4.7
W604418		2.22					2.07	6.38	167.5	1180	1.63	1.05	2.33	28.0	42.3	7.0
W604419		2.79					0.44	7.40	61.7	950	1.68	0.35	2.27	2.10	48.9	7.4
W604420		1.90					0.85	6.82	84.9	1280	1.65	1.12	3.15	3.49	50.2	6.3
W604421		1.49					0.98	6.84	1690	620	1.56	1.52	0.63	5.70	54.2	5.8
W604422		4.86					0.13	7.22	17.7	2170	1.61	0.25	2.41	0.31	45.7	6.1
W604423		0.26					38.2	5.56	2540	280	1.17	34.8	1.60	46.2	34.8	17.8
W604424		4.93					0.29	7.13	20.7	2320	1.68	0.53	2.35	0.25	43.6	6.3
W604425		5.17					0.14	7.42	12.1	2630	1.54	0.20	2.59	0.25	47.1	5.6
W604426		5.34					0.16	7.30	14.4	2580	1.46	0.46	2.61	0.19	45.4	4.6
W604427		1.74					2.35	7.45	309	900	1.44	3.66	2.16	3.19	50.4	5.1
W604428		1.73					1.96	7.37	868	740	1.53	3.08	1.42	5.35	66.1	7.7
W604429		3.10					0.21	7.28	27.9	2530	1.50	0.48	2.19	0.44	39.9	5.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239309

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W604390		12	12.70	11.3	3.05	15.65	0.12	1.2	0.066	2.89	24.6	10.1	0.72	687	1.37	1.98
W604391		13	13.25	12.0	3.00	15.70	0.11	1.0	0.049	2.79	21.9	9.1	0.80	668	0.93	2.09
W604392		13	14.00	9.4	2.75	15.50	0.12	1.2	0.034	2.66	27.7	8.9	0.75	551	1.03	2.16
W604393		9	14.95	39.6	3.91	14.75	0.11	1.1	0.252	3.44	24.6	9.9	0.50	890	2.33	0.06
W604394		9	18.35	16.6	3.75	16.60	0.14	1.2	0.335	3.31	30.0	11.1	0.86	2680	1.29	0.03
W604395		2	0.07	1.5	0.10	0.41	0.05	0.1	<0.005	0.05	1.3	1.1	1.52	115	<0.05	0.06
W604396		6	16.30	53.4	3.74	12.95	0.09	1.1	0.411	2.80	25.3	9.7	0.92	3020	1.61	0.02
W604397		8	19.30	24.4	3.88	15.45	0.10	1.0	0.608	3.29	39.6	10.9	0.74	1940	3.90	0.04
W604398		9	4.57	514	8.34	11.90	0.10	0.9	1.810	2.75	14.0	7.2	0.51	847	2.48	0.04
W604399		8	13.25	14.3	4.35	14.90	0.10	1.0	0.375	3.25	33.4	10.0	0.83	2210	4.60	0.03
W604400		9	13.70	347	5.87	12.80	0.10	0.7	7.17	2.30	21.0	13.2	0.88	2910	2.20	0.02
W604401		9	23.6	25.5	2.99	16.65	0.10	1.1	0.068	2.20	29.4	122.5	0.52	1060	1.18	0.04
W604402		9	23.7	33.3	3.02	16.75	0.11	1.1	0.080	2.28	32.6	114.5	0.56	1090	1.53	0.04
W604403		10	17.90	30.2	2.97	15.30	0.11	1.0	0.131	3.23	25.4	20.5	0.57	1480	2.34	0.03
W604404		10	24.3	7.0	3.28	16.80	0.10	1.1	0.051	2.09	30.1	64.0	0.50	930	0.95	0.04
W604405		14	22.8	10.9	4.88	15.85	0.11	0.9	0.195	2.54	29.7	41.7	0.67	1820	1.33	0.03
W604406		10	21.5	6.4	2.39	16.10	0.09	1.1	0.039	1.78	31.2	97.3	0.38	927	0.87	0.03
W604407		9	23.8	4.8	3.04	16.20	0.09	1.0	0.040	0.93	28.1	99.2	0.38	820	1.10	0.02
W604408		65	0.91	6310	5.67	11.70	0.08	1.7	0.433	1.11	8.6	13.5	1.09	1760	21.7	1.59
W604409		10	23.8	17.2	2.91	16.40	0.09	1.1	0.071	2.31	24.7	59.1	0.62	841	1.22	0.32
W604410		11	16.80	5.0	3.06	15.95	0.10	1.1	0.045	2.82	23.4	12.3	0.72	694	1.84	2.10
W604411		10	22.1	5.6	2.57	15.80	0.10	1.5	0.037	2.67	23.6	83.5	0.44	681	1.47	0.73
W604412		10	25.4	7.1	2.65	16.60	0.09	1.2	0.052	1.84	21.9	105.0	0.36	846	1.17	0.04
W604413		11	19.45	19.1	2.74	16.75	0.11	1.2	0.078	2.09	29.5	79.8	0.53	778	1.79	0.05
W604414		10	19.50	17.2	2.70	16.00	0.11	1.2	0.069	2.06	29.3	77.8	0.52	762	2.06	0.04
W604415		10	15.75	39.2	3.03	15.30	0.11	0.9	0.120	2.54	22.7	33.1	0.85	1100	3.90	0.03
W604416		9	22.5	28.4	3.13	14.55	0.10	0.8	0.072	2.57	23.1	22.2	1.05	1560	2.59	0.02
W604417		9	11.10	6.5	2.32	15.35	0.09	1.1	0.049	1.55	20.5	65.9	0.71	885	6.45	0.02
W604418		7	18.00	25.8	4.23	14.35	0.10	1.1	0.257	2.83	23.8	16.7	0.91	3790	2.44	0.03
W604419		11	21.6	10.1	2.90	16.45	0.10	1.0	0.098	2.45	26.7	40.2	0.82	1210	2.32	0.04
W604420		9	13.90	9.1	3.74	14.35	0.11	0.9	0.237	3.10	28.3	10.1	1.20	2040	2.00	0.03
W604421		12	14.35	14.6	7.88	15.55	0.10	0.9	0.328	3.12	31.3	10.5	0.76	2020	1.15	0.03
W604422		10	24.2	10.0	2.80	15.95	0.11	1.1	0.071	2.90	23.8	21.3	0.58	678	1.02	1.33
W604423		24	10.05	1145	8.74	14.10	0.09	0.9	1.560	2.49	17.7	16.9	0.63	2270	16.80	0.06
W604424		11	18.50	20.3	2.75	15.70	0.11	1.1	0.072	2.80	23.0	15.3	0.53	620	1.27	1.83
W604425		13	13.75	13.2	3.04	16.40	0.12	1.0	0.049	2.77	24.5	12.8	0.78	576	1.56	2.43
W604426		12	17.30	16.4	2.98	15.80	0.11	0.9	0.071	3.05	23.3	20.6	0.64	733	0.91	1.60
W604427		8	17.90	18.1	5.10	15.75	0.13	0.9	0.322	3.19	28.6	17.1	0.85	1900	1.02	0.04
W604428		9	15.60	47.9	6.44	15.65	0.12	0.9	0.546	3.49	37.5	10.4	0.79	2350	0.89	0.04
W604429		10	15.15	10.2	3.04	16.10	0.12	1.0	0.077	3.35	20.6	20.0	0.59	543	1.17	1.43

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239309

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W604390		7.8	2.4	580	36.4	109.5	<0.002	0.33	1.96	9.8	<1	1.9	333	0.64	0.05	11.15
W604391		7.8	2.2	600	18.7	105.0	<0.002	0.20	1.79	10.3	<1	1.8	355	0.55	<0.05	10.10
W604392		8.0	2.3	590	16.4	101.0	<0.002	0.02	1.41	10.1	<1	1.7	378	0.65	<0.05	12.85
W604393		7.0	1.8	440	202	211	<0.002	2.57	10.30	8.3	1	3.2	50.9	0.66	0.32	15.85
W604394		8.4	2.1	560	398	194.5	<0.002	1.96	6.51	10.5	<1	3.4	73.5	0.68	0.12	13.65
W604395		0.2	0.5	60	1.4	1.6	<0.002	0.01	0.13	0.2	2	<0.2	81.1	<0.05	<0.05	0.14
W604396		6.2	1.6	380	501	176.5	<0.002	2.38	22.0	6.8	<1	4.2	61.1	0.66	<0.05	14.20
W604397		7.1	2.1	570	436	205	<0.002	1.39	7.95	9.8	<1	3.8	49.7	0.54	<0.05	11.85
W604398		5.2	2.0	460	925	187.0	<0.002	7.63	190.0	7.3	1	7.9	21.0	0.44	0.71	9.91
W604399		6.8	2.0	520	445	218	<0.002	1.89	9.96	9.3	1	4.0	44.6	0.55	0.15	13.45
W604400		4.9	2.0	390	1360	133.5	<0.002	4.79	24.4	7.2	1	12.6	60.9	0.36	<0.05	8.51
W604401		7.9	2.0	630	37.3	118.0	<0.002	0.28	35.3	11.1	<1	2.2	126.0	0.61	<0.05	13.80
W604402		8.1	2.0	630	56.2	122.0	<0.002	0.29	36.2	11.5	<1	2.6	114.0	0.62	<0.05	14.65
W604403		6.6	2.6	480	104.0	186.0	<0.002	0.41	36.4	9.5	<1	2.7	49.0	0.49	0.06	11.05
W604404		8.3	2.1	630	17.5	105.5	<0.002	0.20	23.3	11.1	<1	2.3	126.5	0.58	<0.05	13.35
W604405		7.2	2.3	570	180.5	142.0	<0.002	0.77	27.5	10.5	1	3.7	135.5	0.50	<0.05	11.15
W604406		8.2	2.3	560	25.9	90.4	<0.002	0.09	40.3	11.0	<1	1.7	161.0	0.60	<0.05	12.80
W604407		8.2	1.9	650	10.2	59.9	<0.002	0.12	37.0	11.4	<1	1.8	226	0.58	<0.05	12.95
W604408		3.3	27.9	470	>10000	28.8	0.012	2.31	462	11.8	2	1.9	194.0	0.21	1.17	1.92
W604409		8.4	2.2	630	110.0	95.9	<0.002	0.21	24.4	11.5	<1	2.1	160.0	0.61	<0.05	10.70
W604410		8.2	2.3	620	33.8	108.5	<0.002	0.08	4.11	10.6	<1	1.9	353	0.63	<0.05	11.70
W604411		8.9	2.0	520	17.1	116.0	<0.002	0.09	18.95	9.0	<1	1.8	171.5	0.84	<0.05	16.95
W604412		8.6	2.3	580	16.3	86.2	<0.002	0.23	34.8	10.1	<1	1.7	141.5	0.75	<0.05	10.70
W604413		8.9	2.1	600	11.6	118.0	<0.002	0.28	33.6	11.4	<1	1.9	129.5	0.79	<0.05	13.50
W604414		8.4	2.0	580	10.9	114.5	<0.002	0.26	32.1	10.6	<1	1.8	125.5	0.77	0.05	12.75
W604415		6.8	2.0	560	23.5	121.0	<0.002	0.63	27.2	9.9	1	2.0	107.0	0.52	0.11	9.92
W604416		7.0	2.4	500	117.5	108.5	<0.002	0.51	15.00	9.6	<1	1.7	134.0	0.51	<0.05	8.91
W604417		8.4	1.7	570	10.5	65.4	<0.002	0.16	12.90	9.8	<1	1.9	125.5	0.72	<0.05	11.00
W604418		6.3	2.6	460	993	190.5	<0.002	1.67	15.00	8.6	1	3.3	67.5	0.61	0.11	12.30
W604419		8.3	2.3	560	114.5	119.5	<0.002	0.57	9.65	10.6	1	2.2	108.5	0.64	<0.05	12.75
W604420		6.4	2.3	500	155.0	209	<0.002	1.20	5.60	9.5	1	2.8	105.5	0.50	0.16	11.70
W604421		6.8	2.2	510	141.5	210	<0.002	3.28	8.40	9.6	<1	5.9	21.2	0.53	0.16	11.85
W604422		8.3	2.3	590	28.2	120.0	<0.002	0.14	5.06	10.5	<1	2.1	262	0.63	<0.05	11.45
W604423		4.9	14.8	450	1625	142.5	0.002	7.59	103.5	8.4	2	10.6	63.1	0.39	0.69	8.33
W604424		8.0	2.4	580	22.6	107.0	<0.002	0.25	3.36	9.9	<1	1.9	313	0.62	0.10	11.20
W604425		7.7	3.6	580	19.3	93.5	<0.002	0.11	2.59	9.7	<1	2.0	416	0.60	<0.05	10.10
W604426		7.5	2.1	580	17.8	108.0	<0.002	0.22	5.61	9.4	<1	2.2	326	0.57	0.06	9.95
W604427		6.8	2.0	550	317	188.0	<0.002	2.51	6.41	9.6	1	3.4	86.5	0.53	1.01	11.80
W604428		6.8	2.3	560	380	228	<0.002	3.11	9.42	9.9	1	4.5	58.5	0.52	0.41	11.90
W604429		7.5	2.3	540	75.7	125.0	<0.002	0.21	3.69	9.8	<1	2.3	285	0.60	0.05	10.25

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239309

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W604390		0.246	1.38	3.9	66	1.1	15.4	61	29.9	0.005
W604391		0.259	1.34	3.2	71	1.0	15.9	44	26.9	<0.005
W604392		0.249	1.12	3.4	65	0.8	17.0	38	30.3	<0.005
W604393		0.183	2.67	5.5	50	2.5	10.3	370	25.1	0.039
W604394		0.238	3.27	6.7	63	5.2	13.5	962	30.8	0.138
W604395		0.005	0.02	0.2	1	0.1	2.3	5	1.7	<0.005
W604396		0.161	3.18	3.9	43	4.4	9.9	2480	25.7	0.159
W604397		0.225	3.03	3.3	64	4.7	10.5	2180	25.8	0.072
W604398		0.153	2.17	1.8	47	3.2	6.0	5070	19.5	3.52
W604399		0.204	2.97	4.0	60	4.3	8.9	740	25.8	0.097
W604400		0.157	2.52	3.3	45	10.4	8.3	>10000	17.6	0.256
W604401		0.253	1.67	3.7	69	4.3	15.6	170	27.2	0.005
W604402		0.250	1.82	4.1	70	4.0	16.2	403	27.4	0.008
W604403		0.207	2.85	7.5	59	2.7	10.4	415	26.7	0.029
W604404		0.270	1.43	3.1	70	8.2	16.0	126	28.6	0.006
W604405		0.236	2.24	3.6	66	7.6	12.2	631	23.9	0.077
W604406		0.261	1.15	4.8	71	4.9	13.6	107	26.7	0.006
W604407		0.276	0.71	1.8	72	7.3	16.3	139	26.5	<0.005
W604408		0.242	0.50	1.6	81	0.6	15.4	5180	54.6	0.275
W604409		0.262	1.41	3.4	70	4.4	16.1	168	26.5	<0.005
W604410		0.260	1.28	3.5	70	2.2	16.2	75	25.2	0.013
W604411		0.221	1.26	5.3	58	3.8	16.8	63	34.0	<0.005
W604412		0.243	1.19	3.2	62	6.2	15.7	55	28.4	<0.005
W604413		0.248	1.40	3.6	67	6.3	17.4	55	29.4	0.005
W604414		0.242	1.32	3.3	66	6.1	16.3	53	27.5	0.006
W604415		0.220	2.00	5.9	63	2.8	13.1	84	20.7	0.011
W604416		0.228	2.31	5.0	65	6.4	14.7	313	21.2	0.017
W604417		0.247	1.42	2.7	65	5.1	13.5	73	27.3	<0.005
W604418		0.183	2.86	4.1	54	4.2	11.9	1960	24.4	0.227
W604419		0.244	2.11	4.5	66	4.2	16.3	212	28.0	0.047
W604420		0.198	2.92	9.8	58	2.9	14.2	321	23.1	0.072
W604421		0.204	2.81	6.4	56	7.9	8.1	519	22.9	0.087
W604422		0.253	1.67	3.9	69	1.8	15.3	75	29.4	0.005
W604423		0.159	2.22	5.2	54	7.2	9.2	3260	25.0	1.725
W604424		0.241	1.31	3.4	64	1.4	14.5	62	30.4	0.007
W604425		0.258	1.16	3.2	71	1.2	15.2	51	27.4	<0.005
W604426		0.256	1.48	3.4	70	1.3	13.8	58	25.2	<0.005
W604427		0.225	2.40	5.2	64	4.0	11.5	305	23.2	0.082
W604428		0.225	2.82	3.8	62	4.4	11.5	642	25.6	0.130
W604429		0.233	1.50	3.2	65	1.5	15.0	93	27.5	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239309

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Pb-OG62	Zn-OG62	

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239315

Project: Klaza

P.O. No.: 19-027

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239315

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W604430		1.02			0.20	6.71	21.9	2600	1.28	2.16	2.37	0.10	43.8	5.1	13	12.10
W604431		3.46			0.12	6.88	10.9	2580	1.51	0.35	2.53	0.15	43.3	3.8	13	10.70
W604432		2.20			0.92	6.72	38.6	200	1.57	4.27	2.32	0.57	37.4	7.8	11	13.70
W604433		3.75			0.15	7.26	9.2	2600	1.56	0.57	2.41	0.21	49.3	3.9	11	10.90
W604434		2.53			0.44	7.07	30.4	1780	1.57	3.22	1.86	0.15	43.1	9.9	9	12.40
W604435		<0.02			0.47	7.41	31.5	1820	1.64	3.13	1.90	0.15	49.6	10.5	9	13.45
W604436		1.53			2.00	5.65	83.3	210	1.64	4.83	3.31	1.91	65.3	14.5	5	21.5
W604437		3.42			0.81	6.36	38.4	1930	1.75	2.08	2.51	0.39	36.4	7.4	8	13.50
W604438		3.13			0.38	6.83	34.3	4050	1.61	0.73	4.23	0.29	53.3	4.7	8	13.00
W604439		3.04			0.16	7.75	15.1	2640	1.58	0.65	1.91	0.11	48.2	5.0	9	12.45
W604440		2.81			0.20	7.41	15.1	2710	1.88	1.20	2.38	0.15	44.1	5.5	10	14.25
W604441		5.10			0.01	0.11	<0.2	30	0.07	0.01	32.7	<0.02	1.14	1.0	1	0.09
W604442		4.27			0.13	7.77	13.1	2540	1.20	0.39	0.91	0.32	45.2	4.2	8	11.60
W604443		1.92			0.67	6.53	28.7	2230	1.27	1.52	1.32	1.02	23.9	3.7	10	12.75
W604444		2.49			1.37	5.63	52.1	1830	1.15	3.89	2.22	2.33	33.3	7.9	8	6.43
W604445		0.26			40.2	5.45	2570	90	1.16	32.4	1.65	47.3	33.0	16.9	22	9.66
W604446		2.32			1.09	7.22	49.7	1670	1.50	2.30	1.38	2.86	51.4	8.1	8	8.48
W604447		2.75			3.06	5.10	125.0	490	1.40	10.10	1.99	6.01	33.1	11.1	6	8.99
W604448		3.42			4.43	5.86	89.3	1120	1.12	9.56	1.94	9.41	11.85	5.7	7	8.96
W604449		1.98			1.49	5.53	33.9	2120	1.07	2.75	1.82	2.17	13.40	4.5	8	16.30
W604450		1.27			2.70	6.78	78.8	1130	1.51	6.36	0.95	5.46	17.75	6.3	7	5.15
W604451		2.57			3.78	6.76	62.6	520	1.73	12.55	1.06	3.65	54.1	18.9	7	14.10
W604452		1.10			1.90	7.07	45.6	1670	2.04	4.42	1.48	1.27	73.1	14.2	8	6.33
W604453		0.97			0.33	7.64	26.2	2070	1.53	1.25	1.40	0.48	60.2	3.7	9	17.30
W604454		1.06			0.35	7.41	24.9	2010	1.50	1.22	1.11	0.31	57.7	3.7	8	17.60
W604455		2.94			0.11	7.45	17.2	2650	1.45	0.26	1.48	0.19	48.3	5.1	9	21.9
W604456		4.84			0.24	7.00	22.9	2330	1.43	0.73	2.32	0.49	38.0	6.5	9	13.05
W604457		1.74			0.40	6.46	17.1	2310	1.72	1.30	3.48	1.09	23.2	7.9	8	7.43
W604458		1.32			0.19	5.42	8.7	1690	1.29	0.85	2.07	0.36	26.1	3.3	10	6.76
W604459		1.98			0.11	7.21	11.8	2960	1.60	0.28	2.87	0.22	52.1	3.8	11	9.77
W604460		3.47			0.11	7.36	11.8	2290	1.77	0.39	2.83	0.22	57.3	3.9	11	11.05
W604461		4.96			0.18	6.81	14.5	3040	1.62	0.58	3.22	0.19	51.8	8.8	10	10.55
W604462		4.71			0.12	7.20	10.8	2520	1.60	0.22	2.66	0.16	41.9	5.2	12	11.20
W604463		0.27	102	1.015	>100	5.45	245	600	0.69	4.87	1.44	25.1	21.2	11.7	62	0.90
W604464		2.16			0.18	7.09	9.7	2670	1.55	0.22	2.51	0.17	45.0	4.7	9	13.55
W604465		2.15			0.22	5.34	12.5	1650	1.28	0.29	2.06	0.25	31.4	9.1	13	7.67
W604466		2.28			0.16	7.41	11.1	2060	1.68	0.29	2.61	0.12	40.2	5.6	9	6.67
W604467		1.79			0.10	8.27	14.6	2140	1.40	0.35	1.00	0.17	72.1	5.3	10	13.45
W604468		2.33			0.11	7.53	20.2	1830	1.37	0.28	1.77	0.21	60.4	10.1	12	10.05
W604469		3.92			0.08	8.03	11.6	2500	1.24	0.22	1.22	0.11	57.1	4.3	12	16.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239315

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W604430		4.4	3.33	14.70	0.12	0.9	0.139	3.30	22.9	10.3	0.58	835	0.98	1.54	6.9	2.2
W604431		4.8	2.98	15.05	0.13	1.0	0.079	3.00	21.4	10.2	0.65	763	1.39	1.95	7.1	2.0
W604432		12.2	5.58	14.10	0.13	0.8	0.081	2.99	18.4	32.5	0.45	768	0.85	0.35	6.7	2.0
W604433		5.6	2.69	14.90	0.14	1.0	0.041	3.18	27.0	14.1	0.59	609	0.87	1.82	7.1	1.9
W604434		8.9	3.18	14.60	0.11	1.0	0.214	3.03	22.7	21.9	0.61	890	1.59	0.10	6.3	2.2
W604435		9.8	3.22	15.10	0.14	1.2	0.215	3.09	28.2	24.0	0.64	894	1.20	0.10	6.7	2.4
W604436		27.4	4.43	13.65	0.12	0.8	0.234	2.42	40.6	16.6	1.28	1510	6.74	0.06	4.1	3.1
W604437		29.4	2.70	13.95	0.11	1.4	0.167	2.81	18.9	28.8	0.60	1020	2.57	0.05	6.1	2.0
W604438		8.1	2.87	15.05	0.11	1.1	0.077	2.33	29.4	89.6	1.12	1040	1.09	0.06	7.5	2.0
W604439		7.6	3.00	16.60	0.14	1.2	0.060	3.09	24.9	21.8	0.58	479	0.99	1.18	8.4	2.3
W604440		9.8	3.41	15.60	0.15	1.1	0.080	3.06	22.4	13.9	0.62	576	1.15	1.63	8.0	2.4
W604441		3.2	0.14	0.35	0.10	0.1	<0.005	0.03	1.2	1.0	1.97	123	0.08	0.04	0.2	0.6
W604442		7.3	2.51	16.30	0.16	1.1	0.067	2.94	22.7	31.3	0.41	652	1.80	0.08	8.3	1.8
W604443		28.8	1.95	14.05	0.16	1.0	0.124	2.95	11.9	12.8	0.64	787	9.09	0.04	4.7	1.6
W604444		15.2	3.40	12.30	0.12	0.9	0.462	2.65	19.5	9.5	0.76	1260	25.3	0.05	4.0	1.8
W604445		1150	8.85	13.50	0.13	0.8	1.585	2.55	15.0	15.5	0.64	2250	17.15	0.06	4.5	14.2
W604446		6.9	4.53	15.25	0.14	0.9	0.662	3.44	33.5	8.3	0.79	1620	1.24	0.05	5.0	2.1
W604447		41.6	3.47	11.35	0.11	0.9	0.396	2.32	20.2	36.7	0.36	736	2.11	0.05	3.8	2.3
W604448		40.2	2.71	11.00	0.11	0.9	0.453	2.47	5.4	22.6	0.82	786	1.09	0.08	4.9	1.1
W604449		8.8	2.34	12.85	0.11	0.8	0.416	1.90	6.7	34.8	0.97	827	0.75	0.13	4.1	1.2
W604450		12.0	3.82	14.75	0.12	0.9	0.540	2.97	9.2	9.0	0.69	990	0.83	0.10	5.5	1.2
W604451		34.7	4.98	15.80	0.12	0.8	0.594	3.15	33.4	15.6	0.65	1520	3.10	0.04	4.8	4.1
W604452		19.1	3.58	15.60	0.15	0.9	0.680	3.56	43.0	7.0	0.63	1120	0.83	0.05	6.1	2.7
W604453		29.3	2.79	16.30	0.10	1.1	0.154	3.15	34.7	34.1	0.60	1030	1.04	0.07	7.9	1.6
W604454		20.9	2.72	16.00	0.09	1.1	0.134	3.02	33.2	32.1	0.51	911	1.00	0.07	7.6	1.5
W604455		5.9	2.80	16.85	0.10	1.2	0.047	2.95	24.4	37.2	0.39	664	1.22	0.09	8.5	1.9
W604456		7.5	2.73	17.10	0.09	0.9	0.115	3.02	18.6	30.9	0.41	717	0.79	0.09	8.1	2.4
W604457		24.9	1.90	15.95	0.10	0.9	0.114	2.87	10.3	16.4	0.52	944	2.85	0.07	5.8	2.4
W604458		3.2	1.05	12.55	0.10	0.6	0.045	2.41	12.8	11.7	0.38	467	27.4	0.13	3.7	1.2
W604459		3.7	2.42	16.75	0.10	1.0	0.057	2.94	27.0	11.3	0.55	690	0.80	1.93	7.7	1.9
W604460		4.1	2.28	17.05	0.13	1.0	0.056	2.89	29.0	48.4	0.53	549	0.81	1.21	7.8	2.5
W604461		7.7	2.85	15.55	0.12	0.9	0.101	2.70	28.3	32.6	0.96	762	0.75	0.80	6.9	2.2
W604462		7.3	2.92	16.65	0.11	1.0	0.036	2.74	20.5	15.3	0.71	522	1.30	1.93	8.2	2.3
W604463		6110	5.62	12.40	0.07	1.5	0.426	1.13	9.1	12.9	1.09	1700	22.5	1.59	3.4	28.5
W604464		8.2	2.65	16.30	0.12	1.0	0.031	2.80	23.2	20.3	0.62	527	1.17	1.49	7.6	2.2
W604465		7.3	1.39	12.20	0.08	0.7	0.018	2.14	16.6	24.4	0.68	425	6.38	0.06	4.0	1.7
W604466		3.5	1.82	16.75	0.10	1.0	0.034	3.02	19.4	33.6	0.94	564	0.75	0.06	6.7	1.7
W604467		3.6	2.32	18.50	0.10	1.2	0.033	2.67	41.0	78.9	0.47	675	0.39	0.06	8.7	2.4
W604468		3.6	2.33	16.75	0.11	1.1	0.032	2.66	31.8	65.9	0.64	718	0.98	0.07	8.0	2.3
W604469		3.9	2.61	17.25	0.11	1.2	0.034	2.92	32.1	41.4	0.46	542	0.86	0.16	8.6	1.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239315

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W604430		570	14.3	134.0	<0.002	1.09	2.76	9.1	1	2.5	273	0.50	0.45	10.75	0.227	1.78
W604431		570	18.8	106.0	<0.002	0.12	2.89	8.8	<1	2.3	341	0.55	<0.05	10.75	0.239	1.43
W604432		500	49.9	120.0	<0.002	4.48	4.86	8.5	4	2.9	159.0	0.47	1.26	10.75	0.225	1.70
W604433		530	21.8	123.0	<0.002	0.12	3.20	9.0	1	1.9	313	0.53	0.05	12.95	0.232	1.35
W604434		590	13.7	118.0	<0.002	1.16	6.72	8.4	1	2.8	96.7	0.47	0.29	13.10	0.210	1.91
W604435		590	13.4	130.0	<0.002	1.18	7.04	8.7	<1	3.2	98.8	0.48	0.28	14.00	0.215	2.02
W604436		340	185.5	129.5	<0.002	2.56	12.95	7.0	1	5.0	93.3	0.33	0.79	9.81	0.132	1.92
W604437		470	33.1	98.4	<0.002	0.51	7.80	7.2	<1	3.0	83.6	0.63	0.15	14.55	0.177	2.13
W604438		570	25.2	67.5	<0.002	0.38	7.08	9.2	<1	2.4	269	0.58	0.21	12.45	0.238	1.29
W604439		620	18.2	113.0	<0.002	0.30	6.41	9.9	<1	3.0	214	0.67	0.12	13.95	0.275	1.35
W604440		610	17.6	108.5	<0.002	0.43	5.02	9.7	<1	2.2	308	0.60	0.15	12.55	0.257	1.26
W604441		60	0.7	1.1	<0.002	0.01	0.09	0.2	1	<0.2	75.9	<0.05	<0.05	0.15	0.005	0.02
W604442		610	17.9	122.0	<0.002	0.12	16.05	10.2	<1	2.4	68.2	0.67	0.05	14.10	0.259	1.37
W604443		470	22.4	135.5	<0.002	0.28	20.5	7.7	1	1.5	44.0	0.47	0.12	12.80	0.136	1.95
W604444		380	72.5	144.5	0.005	1.41	12.65	6.8	1	2.8	39.2	0.38	0.61	11.25	0.131	1.89
W604445		440	1640	138.5	<0.002	7.72	106.5	7.9	1	11.2	59.6	0.36	0.71	8.36	0.160	2.18
W604446		550	122.0	186.5	<0.002	1.38	6.76	9.3	<1	5.6	29.5	0.41	0.43	12.30	0.176	2.44
W604447		350	230	136.0	<0.002	2.60	48.6	6.1	1	6.3	41.7	0.32	4.04	15.70	0.119	1.71
W604448		420	331	130.5	<0.002	1.65	25.2	5.0	<1	5.5	40.0	0.51	0.84	11.05	0.140	1.94
W604449		560	102.0	102.5	<0.002	0.68	37.4	8.1	<1	4.2	76.9	0.34	0.44	10.65	0.143	1.42
W604450		450	251	180.5	<0.002	1.87	8.68	8.0	1	6.4	39.9	0.45	0.50	12.55	0.177	2.25
W604451		530	197.5	174.5	<0.002	2.51	14.55	8.2	<1	5.7	31.3	0.41	1.05	11.50	0.170	2.39
W604452		560	94.5	192.0	<0.002	1.69	6.41	7.5	<1	3.7	52.3	0.47	0.51	13.25	0.186	2.61
W604453		590	30.6	146.5	<0.002	0.35	17.55	10.4	1	2.3	99.7	0.66	0.06	14.20	0.236	1.74
W604454		570	21.3	139.5	<0.002	0.34	18.15	9.8	<1	2.2	87.5	0.68	0.06	14.85	0.233	1.67
W604455		580	16.0	120.5	<0.002	0.15	19.70	10.9	<1	2.1	99.1	0.74	<0.05	12.65	0.263	1.34
W604456		610	25.7	98.9	<0.002	0.50	12.40	10.1	<1	2.5	106.5	0.62	0.10	9.27	0.259	1.48
W604457		570	22.7	89.7	<0.002	0.38	15.20	8.4	<1	1.9	104.0	0.44	0.12	8.49	0.198	1.70
W604458		360	14.1	112.5	0.011	0.10	8.92	6.5	1	1.0	78.7	0.28	0.38	7.86	0.126	1.25
W604459		610	15.7	101.5	<0.002	0.20	2.92	10.1	<1	2.1	364	0.58	0.05	11.10	0.254	1.29
W604460		620	18.5	97.4	<0.002	0.25	4.81	10.4	<1	2.1	322	0.59	0.07	10.25	0.260	1.26
W604461		550	17.5	92.5	<0.002	0.39	6.89	9.7	<1	2.0	278	0.51	0.07	10.00	0.235	1.29
W604462		620	18.7	93.6	<0.002	0.08	2.91	10.8	1	2.1	376	0.58	<0.05	9.97	0.275	1.03
W604463		450	>10000	30.3	0.010	2.30	453	12.2	2	2.2	191.0	0.21	1.24	2.00	0.245	0.49
W604464		560	23.7	98.0	<0.002	0.11	6.62	10.0	<1	2.0	320	0.55	<0.05	10.15	0.252	1.08
W604465		350	12.8	113.5	0.002	0.19	14.00	6.9	<1	1.1	91.3	0.30	0.05	8.08	0.140	1.15
W604466		630	9.5	115.5	<0.002	0.19	12.10	10.5	<1	1.7	130.5	0.48	0.07	11.05	0.224	1.67
W604467		700	11.7	133.5	<0.002	0.20	26.0	12.1	<1	2.1	156.0	0.67	<0.05	14.75	0.287	1.31
W604468		610	12.7	117.0	<0.002	0.23	19.05	11.5	1	1.9	130.5	0.60	<0.05	13.10	0.262	1.31
W604469		610	15.1	121.0	<0.002	0.09	19.65	11.1	<1	2.2	139.5	0.71	<0.05	15.00	0.274	1.15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239315

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W604430		5.1	64	1.3	12.1	58	23.8	0.007
W604431		3.7	66	1.1	13.6	59	24.5	<0.005
W604432		3.5	61	2.8	11.3	71	21.1	0.019
W604433		3.9	62	0.9	15.2	52	24.8	<0.005
W604434		5.0	63	1.7	11.6	57	27.0	0.014
W604435		5.5	63	1.8	12.3	58	27.9	0.016
W604436		16.9	61	2.9	11.1	144	19.2	0.076
W604437		9.2	59	2.2	10.5	80	29.2	0.010
W604438		4.5	69	2.6	18.2	89	25.3	0.007
W604439		5.4	71	2.9	15.2	57	28.9	<0.005
W604440		6.5	71	1.5	14.4	72	27.7	0.005
W604441		0.1	1	0.2	2.1	3	1.6	<0.005
W604442		3.1	68	6.5	13.5	73	26.8	<0.005
W604443		5.9	64	3.7	9.4	148	22.2	0.006
W604444		5.5	61	2.7	9.2	207	18.8	0.052
W604445		5.4	55	7.1	8.4	3300	21.9	1.695
W604446		2.7	67	2.7	9.0	306	21.5	0.021
W604447		5.8	54	2.3	8.9	442	25.8	0.123
W604448		4.9	43	2.7	9.3	660	19.2	0.079
W604449		2.7	72	2.0	8.4	185	17.3	0.024
W604450		2.4	58	3.3	7.7	447	19.0	0.047
W604451		2.9	75	3.3	8.0	311	17.6	0.151
W604452		3.0	55	3.1	12.0	155	23.0	0.034
W604453		5.9	63	1.8	14.8	135	26.2	0.005
W604454		5.6	63	2.0	13.6	92	27.8	0.009
W604455		5.0	72	3.3	15.4	83	27.9	<0.005
W604456		2.7	72	1.9	11.3	91	24.1	<0.005
W604457		4.5	65	1.3	9.2	131	21.5	<0.005
W604458		5.7	65	1.4	8.0	67	15.2	0.008
W604459		4.1	70	1.0	13.5	68	25.7	<0.005
W604460		3.5	71	1.1	14.4	65	23.6	<0.005
W604461		4.3	65	1.1	14.7	65	21.1	<0.005
W604462		2.8	74	1.1	15.5	66	25.6	<0.005
W604463		2.4	79	0.5	14.9	5090	54.8	0.260
W604464		4.3	67	1.0	15.4	77	24.7	<0.005
W604465		8.0	55	1.2	9.7	63	15.9	0.007
W604466		18.6	69	1.1	13.1	54	26.6	<0.005
W604467		4.0	76	2.9	16.1	103	27.5	<0.005
W604468		3.5	71	1.9	16.5	86	28.1	<0.005
W604469		3.2	69	3.9	17.0	77	30.4	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239315

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239317

Project: Klaza

P.O. No.: 19-028

This report is for 39 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239317

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593151		4.44			0.74	7.65	11.0	2220	1.80	1.69	2.39	1.14	47.4	8.0	11	10.50
W593152		0.26			38.9	5.77	2620	500	1.17	35.7	1.70	45.8	37.7	16.3	22	9.73
W593153		3.22			0.13	7.51	8.2	2140	1.79	0.22	2.13	1.14	48.8	6.0	10	13.30
W593154		4.32			0.21	7.45	8.1	1950	1.72	0.63	2.44	0.85	48.5	7.0	11	11.15
W593155		3.41			0.10	7.15	4.0	2130	1.66	0.16	2.87	0.20	41.3	6.6	11	9.80
W593156		3.72			0.08	7.45	4.3	2200	1.86	0.18	2.25	0.42	49.3	6.3	9	13.45
W593157		5.61			0.11	7.01	6.3	2180	1.59	0.33	2.73	0.35	45.3	7.6	11	10.45
W593158		4.52			0.17	7.65	9.8	2450	1.66	0.41	2.44	0.59	56.1	7.3	10	9.14
W593159		5.22			0.12	7.12	6.9	2330	1.65	0.69	2.47	0.25	48.2	6.6	12	7.04
W604470		2.05			0.11	7.08	12.3	1860	1.37	0.21	2.05	0.15	43.0	6.0	8	17.90
W604471		5.21			0.09	7.43	12.9	2260	1.81	0.21	2.44	0.12	48.3	5.7	11	20.1
W604472		3.38			0.08	7.18	11.2	2450	1.62	0.17	2.39	0.10	48.0	5.3	13	18.30
W604473		2.27			0.11	6.89	10.2	2720	1.49	0.23	2.32	0.13	46.4	6.7	9	11.00
W604474		4.25			0.11	7.15	11.0	2860	1.59	0.21	2.42	0.15	49.1	4.6	11	12.00
W604476		2.83			0.08	7.11	7.7	2400	1.56	0.16	2.57	0.12	47.1	6.3	12	9.92
W604477		2.09			0.11	6.65	10.6	2530	1.51	0.27	2.85	0.29	46.9	20.5	10	10.20
W604478		2.77			0.17	5.98	14.1	1920	1.19	0.31	2.09	0.33	22.2	23.9	13	7.52
W604479		2.29			0.17	5.85	12.6	2010	1.12	0.28	1.98	0.25	17.85	26.6	12	6.88
W604480		2.82			0.34	6.52	14.0	3280	1.41	0.65	1.23	0.28	19.20	6.8	9	23.1
W604481		2.22			0.27	6.98	17.9	2150	1.26	0.70	2.45	0.24	26.0	11.1	11	5.74
W604482		5.14			0.23	7.22	16.1	1750	1.77	0.68	2.79	0.22	47.8	5.3	9	12.20
W604483		4.13			0.71	7.26	18.0	2390	1.59	1.25	2.21	0.86	29.3	7.3	9	7.53
W604484		<0.02			0.72	7.63	19.4	2430	1.64	1.22	2.28	0.88	32.2	7.4	9	8.03
W604485		1.78			0.51	7.13	17.7	2680	1.48	0.81	1.31	1.10	36.6	7.3	9	6.65
W604486		4.06			0.34	7.13	13.3	2070	1.63	0.45	1.89	5.03	36.8	11.4	10	10.20
W604487		5.05			0.52	7.48	10.3	2220	1.80	0.27	2.35	13.10	55.2	4.5	10	13.70
W604488		3.47			0.18	7.57	15.5	3110	1.71	0.18	1.58	1.76	49.1	5.6	10	19.10
W604489		4.81			0.12	7.10	8.1	2320	1.64	0.20	2.71	0.30	43.3	4.4	14	10.10
W604490		2.93			0.20	6.75	13.3	2880	1.52	0.35	2.86	0.54	44.0	5.6	10	9.43
W604491		5.11			<0.01	0.12	0.3	30	0.09	0.02	34.4	0.02	1.27	0.9	2	0.07
W604492		3.75			0.13	6.62	9.0	2100	1.46	0.30	2.89	0.50	37.0	6.5	14	10.30
W604493		4.83			0.18	7.78	12.4	2340	1.86	0.39	1.84	2.00	49.7	6.7	13	11.10
W604494		4.25			0.11	7.53	18.3	2570	1.61	0.28	2.34	1.26	43.7	6.9	12	9.30
W604495		0.26	102	1.010	>100	5.60	247	630	0.69	5.28	1.47	25.3	20.5	11.8	65	0.90
W604496		2.20			0.14	7.24	12.8	2510	1.61	0.36	2.31	1.20	40.1	6.2	12	8.90
W604497		1.76			0.56	7.90	32.4	2180	1.49	6.89	1.27	2.80	51.8	11.3	9	14.45
W604498		2.27			0.16	8.04	21.6	1390	1.63	0.86	1.18	4.36	57.1	14.6	10	13.60
W604499		2.80			0.29	6.12	16.0	1050	1.66	1.25	0.51	5.62	117.0	15.7	9	19.90
W604500		4.44			0.39	7.30	21.0	1570	1.63	2.50	2.22	1.47	39.7	8.9	9	13.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239317

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593151		36.5	3.27	17.30	0.10	1.2	0.098	2.68	23.3	10.7	0.76	656	6.85	2.20	9.0	2.6
W593152		1175	9.06	14.30	0.10	0.8	1.510	2.65	18.9	15.9	0.67	2300	17.00	0.06	4.8	14.2
W593153		9.9	2.98	17.00	0.08	1.2	0.048	2.51	24.9	15.3	0.75	512	1.95	2.26	8.5	2.6
W593154		26.9	2.96	16.50	0.12	1.1	0.060	2.40	24.5	12.6	0.76	643	1.86	2.07	8.4	2.6
W593155		8.4	2.73	16.20	0.11	1.3	0.040	2.48	21.1	13.5	0.65	547	2.64	2.00	8.5	2.4
W593156		8.1	2.89	16.40	0.10	1.2	0.049	2.52	25.4	16.3	0.70	545	1.97	2.10	8.6	2.4
W593157		6.1	3.14	15.95	0.09	0.9	0.043	2.37	22.8	15.8	0.75	605	3.93	2.28	8.0	2.6
W593158		25.4	2.93	16.55	0.10	1.0	0.103	2.78	28.9	13.5	0.76	621	2.64	2.22	8.5	2.5
W593159		11.7	2.81	16.15	0.11	1.1	0.060	2.68	23.5	11.9	0.83	557	3.13	2.31	8.2	2.3
W604470		4.8	2.54	15.55	0.09	1.1	0.029	2.66	22.1	30.6	0.54	455	0.76	0.45	8.2	2.4
W604471		3.9	3.09	16.75	0.13	1.1	0.037	2.65	24.2	18.8	0.86	552	1.07	2.49	8.9	2.4
W604472		3.0	2.89	16.65	0.11	1.1	0.034	2.74	24.2	18.5	0.79	505	0.98	2.45	8.2	2.2
W604473		4.3	2.47	15.50	0.11	1.0	0.026	2.84	24.5	11.8	0.71	469	2.28	2.18	7.5	2.1
W604474		3.7	2.69	15.85	0.10	1.2	0.030	2.88	26.3	13.7	0.75	489	1.15	2.29	7.8	2.1
W604476		3.9	2.64	16.55	0.10	1.1	0.032	2.78	23.5	13.6	0.70	482	1.54	2.24	7.7	2.2
W604477		4.9	2.37	16.60	0.10	1.0	0.025	3.01	25.0	15.4	0.73	565	7.36	1.29	6.5	1.9
W604478		6.3	1.39	13.80	0.08	0.8	0.026	2.56	11.2	18.0	0.54	380	40.7	0.40	4.6	1.9
W604479		8.9	1.38	13.40	0.08	0.9	0.011	2.56	8.8	17.9	0.51	363	49.0	0.39	4.4	1.8
W604480		10.2	1.82	15.05	0.15	0.9	0.202	2.65	7.8	19.3	0.66	485	9.83	0.14	4.7	2.5
W604481		4.2	3.01	18.85	0.13	0.9	0.350	2.21	12.8	12.9	1.11	862	0.61	0.45	5.0	2.4
W604482		7.8	2.20	16.70	0.13	1.1	0.143	2.25	25.3	38.1	0.47	823	0.79	0.82	7.1	1.6
W604483		24.8	2.46	14.70	0.13	1.1	0.114	2.85	15.2	34.3	0.71	1040	1.44	0.22	6.3	2.3
W604484		23.7	2.53	15.20	0.14	1.0	0.125	2.89	17.0	35.7	0.73	1060	1.62	0.22	6.2	2.3
W604485		4.0	1.78	14.35	0.13	1.0	0.045	2.38	20.8	44.2	0.55	846	4.84	0.05	5.3	2.6
W604486		4.7	3.39	14.60	0.13	1.0	0.109	2.75	19.6	31.9	0.85	1550	1.60	0.12	5.4	2.4
W604487		7.9	3.51	15.75	0.17	1.1	0.139	3.07	29.9	20.0	0.80	1420	0.69	0.56	7.4	2.3
W604488		4.5	3.58	15.55	0.14	1.2	0.062	2.83	26.6	48.6	0.69	1260	1.08	0.08	7.5	2.6
W604489		3.4	2.48	15.35	0.13	1.2	0.033	2.93	22.7	11.1	0.71	630	1.22	1.99	7.5	2.2
W604490		4.2	2.40	15.15	0.16	1.0	0.049	2.82	21.7	14.3	0.73	824	0.55	1.49	7.2	1.9
W604491		1.9	0.10	0.40	0.13	0.1	<0.005	0.04	1.3	1.1	1.65	109	<0.05	0.05	0.2	0.6
W604492		3.1	2.20	15.10	0.25	0.9	0.032	2.86	18.2	23.8	0.68	796	1.86	1.36	6.4	2.1
W604493		12.4	3.15	16.70	0.17	1.3	0.072	2.79	25.9	11.6	0.65	721	1.74	2.15	8.9	2.7
W604494		9.1	3.28	16.55	0.14	1.0	0.069	2.70	22.2	10.6	0.84	685	1.18	2.26	8.1	2.8
W604495		6240	5.76	11.75	0.10	1.7	0.443	1.14	8.9	12.2	1.12	1750	21.3	1.63	3.3	28.7
W604496		8.4	2.96	15.85	0.13	1.0	0.064	2.63	20.3	8.8	0.71	576	1.40	2.23	7.9	2.6
W604497		41.7	3.81	17.15	0.12	1.0	0.289	2.83	29.0	15.6	0.28	755	3.50	0.49	8.2	2.6
W604498		24.6	3.19	17.45	0.13	1.1	0.119	2.54	29.8	37.1	0.35	1600	3.11	0.13	9.4	2.9
W604499		15.3	3.14	14.40	0.16	0.7	0.121	1.82	75.1	20.5	0.19	1780	92.4	0.04	6.0	2.8
W604500		48.7	2.89	16.80	0.14	1.0	0.171	2.38	20.1	19.3	0.52	731	3.86	0.92	8.1	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239317

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593151		640	45.9	99.8	<0.002	0.21	2.98	11.0	<1	2.5	351	0.71	0.13	12.75	0.282	1.09
W593152		450	1670	156.0	0.002	7.86	108.5	8.4	2	11.0	61.8	0.38	0.74	8.74	0.167	2.10
W593153		590	21.1	95.9	<0.002	0.02	1.99	10.5	<1	2.0	381	0.71	<0.05	12.10	0.265	0.98
W593154		600	24.9	98.0	<0.002	0.05	2.58	10.6	<1	1.9	330	0.67	<0.05	12.80	0.258	0.95
W593155		590	20.3	84.2	<0.002	0.02	1.53	10.1	<1	1.8	336	0.72	<0.05	10.90	0.260	0.94
W593156		630	19.6	98.9	<0.002	0.01	1.46	11.1	<1	2.5	326	0.71	<0.05	12.20	0.273	0.95
W593157		590	21.3	82.5	<0.002	0.07	1.65	9.9	1	2.6	366	0.62	0.05	10.60	0.259	0.94
W593158		590	21.1	113.0	<0.002	0.09	2.00	11.3	<1	2.3	355	0.66	0.05	13.70	0.268	1.09
W593159		590	19.8	90.8	<0.002	0.08	1.18	10.1	<1	1.7	384	0.66	0.05	12.00	0.260	0.99
W604470		570	13.9	102.5	<0.002	0.13	12.85	10.0	<1	2.1	199.0	0.66	<0.05	11.70	0.254	1.18
W604471		600	17.1	102.0	<0.002	0.05	3.64	11.8	1	2.1	394	0.68	<0.05	11.85	0.282	0.98
W604472		580	15.9	101.5	<0.002	0.06	2.35	10.7	<1	2.1	388	0.60	<0.05	11.80	0.263	1.00
W604473		540	18.6	105.0	<0.002	0.12	2.77	9.8	<1	1.9	360	0.58	<0.05	11.05	0.245	1.08
W604474		560	17.2	107.5	<0.002	0.11	2.59	10.2	1	2.1	401	0.56	0.05	11.75	0.255	1.01
W604476		580	15.5	99.6	<0.002	0.08	2.26	9.8	<1	1.8	394	0.55	<0.05	11.10	0.252	1.05
W604477		530	14.3	122.5	<0.002	0.32	7.53	9.6	<1	1.7	307	0.49	<0.05	9.37	0.219	1.46
W604478		410	15.4	126.5	0.007	0.37	18.50	7.0	<1	1.3	156.0	0.34	<0.05	10.30	0.152	1.26
W604479		390	15.7	126.0	0.007	0.38	18.50	6.8	1	1.6	149.5	0.35	<0.05	10.15	0.150	1.25
W604480		430	14.7	121.5	0.002	0.43	14.15	7.7	<1	1.9	71.4	0.36	0.11	12.20	0.156	1.63
W604481		650	15.2	105.5	<0.002	0.72	5.03	10.3	1	3.0	133.0	0.45	0.08	13.45	0.186	1.59
W604482		620	13.2	77.3	<0.002	0.31	9.80	9.9	<1	2.3	166.5	0.58	0.08	11.85	0.228	1.50
W604483		600	107.5	121.5	<0.002	0.37	19.55	10.1	<1	1.9	68.2	0.47	0.07	13.85	0.207	1.91
W604484		590	111.5	137.5	<0.002	0.37	20.1	10.8	1	2.0	72.9	0.46	0.07	14.65	0.200	1.90
W604485		580	44.0	110.5	<0.002	0.36	27.5	9.3	1	1.6	48.0	0.44	0.10	13.15	0.179	1.54
W604486		520	236	129.5	<0.002	0.39	7.32	9.0	1	2.0	69.8	0.42	0.05	13.20	0.176	2.02
W604487		610	595	140.0	<0.002	0.18	7.98	10.9	1	2.1	155.0	0.57	<0.05	13.50	0.232	2.14
W604488		570	65.7	124.0	<0.002	0.15	16.95	10.4	<1	2.3	87.2	0.59	<0.05	13.75	0.236	2.00
W604489		580	19.4	101.0	<0.002	0.07	2.74	9.6	<1	1.6	328	0.57	<0.05	10.45	0.243	1.38
W604490		600	23.7	90.0	<0.002	0.25	3.65	9.7	1	1.7	262	0.54	0.05	9.03	0.233	1.60
W604491		70	<0.5	1.2	<0.002	<0.01	<0.05	0.2	1	<0.2	82.0	<0.05	<0.05	0.13	0.005	0.02
W604492		540	24.3	110.5	<0.002	0.18	3.11	9.0	<1	1.5	224	0.50	<0.05	9.90	0.213	1.74
W604493		640	20.7	106.0	<0.002	0.07	2.17	10.9	<1	2.5	338	0.73	0.05	13.25	0.267	1.20
W604494		630	18.8	86.5	<0.002	0.03	1.83	10.7	<1	2.1	396	0.58	0.05	10.85	0.271	1.14
W604495		470	>10000	28.2	0.010	2.36	455	12.0	2	1.9	195.5	0.21	1.16	2.01	0.245	0.55
W604496		600	20.2	87.5	<0.002	0.05	2.24	10.2	<1	1.9	393	0.56	0.05	10.35	0.260	1.06
W604497		660	29.2	125.5	<0.002	1.00	8.02	11.5	1	4.1	99.9	0.62	0.82	13.15	0.274	1.64
W604498		670	18.5	96.9	<0.002	0.32	9.25	12.2	<1	3.5	71.0	0.76	0.17	13.55	0.285	1.34
W604499		460	14.8	88.7	0.004	0.16	11.00	9.6	<1	3.8	22.0	0.46	0.35	11.60	0.198	1.24
W604500		630	22.4	84.3	<0.002	0.48	8.92	10.8	<1	3.8	161.5	0.62	0.29	10.95	0.263	1.32

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239317

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593151		2.6	73	1.4	16.1	149	33.0	0.005
W593152		5.6	56	7.2	8.9	3350	22.5	1.740
W593153		2.6	69	1.2	15.5	236	30.5	<0.005
W593154		2.6	67	1.3	16.3	155	31.2	<0.005
W593155		2.2	68	1.3	15.3	54	34.4	<0.005
W593156		2.6	72	1.7	14.8	76	30.4	<0.005
W593157		2.6	69	1.6	16.1	83	26.2	<0.005
W593158		3.3	70	1.4	19.0	113	29.4	<0.005
W593159		3.5	68	1.2	16.6	52	30.7	<0.005
W604470		3.6	65	1.7	13.9	74	28.5	<0.005
W604471		3.7	77	1.2	17.9	49	28.1	<0.005
W604472		3.1	70	1.3	16.5	43	27.6	<0.005
W604473		3.1	66	1.0	14.9	55	26.3	<0.005
W604474		3.1	67	0.8	16.1	54	30.2	<0.005
W604476		3.0	67	0.9	15.0	43	29.2	<0.005
W604477		3.2	68	0.7	11.5	77	26.6	<0.005
W604478		3.8	54	1.7	8.6	53	20.0	<0.005
W604479		3.9	54	1.7	8.0	48	21.2	<0.005
W604480		5.7	62	1.6	10.6	48	24.5	<0.005
W604481		3.5	110	1.1	12.7	55	24.1	0.010
W604482		3.8	68	1.2	12.2	78	30.1	0.006
W604483		5.2	61	1.5	10.1	135	28.7	0.010
W604484		5.5	62	1.5	10.9	135	26.5	0.008
W604485		5.6	60	1.2	9.5	131	26.2	0.008
W604486		4.5	58	2.6	10.2	443	25.9	0.006
W604487		4.7	68	2.8	13.4	944	29.8	<0.005
W604488		4.4	66	7.7	12.9	240	29.5	<0.005
W604489		3.4	69	0.8	14.6	68	32.1	<0.005
W604490		3.5	67	0.8	12.7	101	27.3	<0.005
W604491		0.2	1	<0.1	2.5	4	2.2	<0.005
W604492		3.2	63	0.7	11.3	95	23.9	<0.005
W604493		3.0	72	1.3	16.7	239	36.3	0.005
W604494		2.6	73	1.0	16.3	180	29.3	<0.005
W604495		1.4	81	0.6	14.5	5100	60.9	0.270
W604496		2.3	69	0.9	15.2	155	30.3	<0.005
W604497		2.9	76	2.3	17.9	343	29.4	0.203
W604498		3.7	78	2.1	21.5	367	31.0	0.006
W604499		5.3	59	3.1	23.1	645	21.7	0.494
W604500		2.6	70	1.9	15.3	192	26.8	0.010

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239317

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239325

Project: Klaza

P.O. No.: 19-030

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239325

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593160		4.78			0.11	7.23	6.0	2420	1.78	0.36	2.46	0.26	43.0	6.1	16	8.96
W593161		1.90			0.27	7.19	29.9	1430	1.69	1.29	2.05	0.54	43.9	8.4	10	13.55
W593162		2.16			0.71	7.02	41.9	1060	1.69	3.13	1.59	2.73	65.7	26.1	9	7.58
W593163		2.23			0.32	7.00	18.9	2470	1.68	1.12	2.49	1.06	35.9	8.3	12	10.65
W593164		3.50			0.24	7.62	19.6	1900	1.64	1.08	1.43	1.75	54.5	7.9	10	16.35
W593165		2.02			1.68	7.52	91.0	1070	1.55	3.67	0.06	0.21	65.0	4.3	10	9.54
W593166		2.04			3.49	7.28	269	390	1.23	6.54	0.04	0.21	47.1	4.4	10	6.35
W593167		5.12			0.02	0.13	0.4	40	0.08	0.04	32.5	<0.02	1.13	1.0	2	0.06
W593168		4.41			0.17	7.38	10.7	2210	1.66	0.59	2.51	0.52	44.3	7.2	14	7.35
W593169		4.36			0.20	7.53	13.1	2200	1.61	0.81	2.19	0.57	53.4	8.0	13	5.92
W593170		3.99			0.13	7.39	9.0	2270	1.53	0.27	2.44	0.27	45.2	6.6	11	7.57
W593171		4.70			0.08	7.08	7.3	2350	1.54	0.22	2.69	0.22	39.8	6.6	13	7.94
W593172		4.00			0.07	7.36	7.7	2190	1.59	0.23	2.58	0.20	41.6	6.6	12	12.20
W593173		3.60			0.11	7.22	8.2	2290	1.62	0.41	2.52	0.20	43.7	6.9	12	12.15
W593174		3.22			0.08	7.32	7.6	2320	1.72	0.18	2.84	0.16	39.9	7.4	13	10.45
W593175		2.96			0.10	7.41	8.0	2340	1.62	0.27	2.79	0.25	41.4	7.7	11	10.50
W593176		0.30			39.0	5.65	2600	450	1.13	31.8	1.70	43.2	31.9	18.8	22	9.30
W593177		2.87			0.32	7.70	17.3	2450	1.68	0.83	2.46	0.44	45.6	9.9	12	11.90
W593178		2.85			0.21	7.40	11.9	2380	1.53	0.71	2.21	0.38	44.3	6.5	9	13.20
W593179		3.04			0.15	7.48	13.3	2670	1.76	0.37	2.48	0.31	43.3	12.2	13	13.50
W593181		4.40			0.07	7.16	5.4	2280	1.81	0.11	2.57	0.15	42.9	7.5	14	13.10
W593182		2.48			0.10	7.48	10.2	2170	1.28	0.28	0.95	2.06	56.6	8.3	8	12.25
W593183		2.39			0.14	7.77	11.1	2400	1.30	0.33	0.92	1.88	54.0	7.7	8	12.30
W593184		2.12			0.33	7.68	19.8	2010	1.44	0.74	0.95	12.10	49.2	9.0	9	19.05
W593185		1.99			15.80	6.33	229	620	1.52	23.0	1.33	79.1	40.1	13.2	7	9.74
W593186		1.32			2.54	6.81	199.5	1230	1.52	3.35	1.21	5.98	40.5	16.9	10	9.67
W593187		3.55			0.42	7.27	51.9	1800	1.55	0.36	2.87	3.91	44.6	7.0	8	27.3
W593188		2.40			0.37	7.30	49.7	1350	1.65	0.28	2.66	0.60	49.4	7.4	8	27.9
W593189		<0.02			0.35	7.69	47.0	1390	1.71	0.25	2.74	0.57	53.2	7.7	8	28.9
W593190		2.13			0.49	7.49	37.3	1180	1.70	0.30	2.32	0.67	41.4	7.4	8	27.1
W593191		1.19			0.94	8.29	32.6	1160	2.02	0.88	2.00	9.46	66.6	5.1	9	23.2
W593192		3.66			0.17	7.16	11.0	2020	2.03	0.31	2.29	0.34	46.0	7.1	9	11.45
W593193		4.82			0.10	7.19	4.7	2170	1.86	0.14	2.71	1.85	45.1	7.2	13	10.45
W593194		0.26	103	1.010	>100	5.41	248	600	0.70	4.89	1.45	23.7	18.60	11.5	62	0.87
W593195		4.33			0.48	7.49	434	2300	1.65	0.32	2.78	1.72	50.2	6.7	11	11.25
W593196		1.09			6.41	7.54	7450	880	1.71	1.91	1.44	31.8	56.5	6.8	9	17.75
W593197		2.04			0.30	7.63	28.0	2100	1.65	0.48	2.35	0.82	44.9	7.1	10	20.2
W593198		0.82			1.85	7.29	101.0	1280	1.78	1.15	2.32	7.51	48.1	7.5	8	17.45
W593199		1.75			0.40	6.92	16.3	1680	1.75	0.36	2.69	0.50	40.4	6.9	8	22.2
W593324		4.54			0.08	7.42	6.5	2310	1.76	0.14	2.59	0.20	49.3	7.7	14	12.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239325

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593160		13.0	2.73	15.95	0.14	1.1	0.081	2.74	22.7	13.4	0.76	578	2.69	2.25	8.3	2.5
W593161		10.7	2.98	15.60	0.14	1.1	0.275	2.53	23.2	14.2	0.53	764	2.89	0.78	7.9	2.2
W593162		14.3	4.54	15.75	0.15	0.8	0.343	2.59	35.2	16.9	0.68	879	6.67	0.10	5.7	4.1
W593163		55.7	3.08	16.10	0.12	1.0	0.415	3.34	17.9	12.7	0.48	855	2.07	0.16	7.3	2.8
W593164		28.2	3.46	15.65	0.13	1.0	0.172	3.04	29.9	12.6	0.48	926	2.55	0.82	8.0	2.5
W593165		55.2	3.52	16.80	0.14	1.4	0.249	3.69	37.5	5.4	0.27	207	2.24	0.05	6.9	1.1
W593166		42.1	5.30	15.45	0.12	0.9	0.242	3.43	25.5	4.5	0.25	121	2.25	0.05	5.7	1.5
W593167		7.2	0.14	0.41	0.09	0.1	<0.005	0.04	1.2	0.9	1.71	106	0.07	0.05	0.2	0.6
W593168		13.6	3.41	16.35	0.15	1.1	0.082	2.62	22.4	11.3	0.83	845	2.45	2.17	8.4	2.7
W593169		15.6	3.27	15.45	0.15	1.0	0.114	2.39	29.2	12.7	0.87	756	2.50	2.38	7.9	2.6
W593170		14.8	3.02	15.95	0.15	1.1	0.082	2.67	22.9	13.0	0.79	626	1.59	2.21	8.2	2.5
W593171		10.9	2.92	15.90	0.12	1.0	0.076	2.62	19.8	12.7	0.79	640	1.80	2.13	7.9	2.4
W593172		7.2	3.02	15.95	0.15	1.1	0.074	2.70	21.9	15.7	0.74	612	2.05	1.94	8.1	2.5
W593173		5.5	3.25	15.65	0.13	1.1	0.074	2.37	21.8	13.6	0.81	657	1.35	2.28	8.0	2.5
W593174		8.2	3.01	16.35	0.13	1.2	0.054	2.58	20.1	12.1	0.77	623	0.80	2.25	8.7	2.6
W593175		10.4	3.15	16.00	0.13	1.1	0.069	2.62	19.3	11.4	0.77	643	1.30	2.31	8.2	3.9
W593176		1170	9.09	13.50	0.12	0.9	1.545	2.64	14.7	15.5	0.67	2290	17.25	0.06	4.7	15.4
W593177		21.9	2.98	16.35	0.13	1.0	0.168	2.82	23.7	13.0	0.72	664	1.14	1.91	8.1	3.2
W593178		12.8	2.85	15.30	0.13	1.0	0.128	2.77	21.6	39.8	0.65	672	1.10	1.61	7.9	2.2
W593179		10.0	2.87	15.60	0.13	1.1	0.113	2.72	21.8	11.2	0.67	592	1.32	2.07	7.8	2.5
W593181		8.3	2.81	15.55	0.14	1.2	0.045	2.71	21.4	16.4	0.77	549	1.28	2.34	8.1	2.6
W593182		10.0	2.62	15.50	0.12	1.2	0.069	2.37	29.8	35.2	0.40	855	1.27	0.26	8.2	5.8
W593183		13.0	2.71	15.50	0.12	1.3	0.078	2.45	28.4	35.0	0.39	902	1.86	0.23	8.4	4.1
W593184		12.0	3.35	15.90	0.12	1.2	0.197	2.92	25.3	27.6	0.47	1560	2.07	0.08	8.0	2.8
W593185		110.5	6.89	13.70	0.14	1.0	0.966	2.99	20.7	7.8	0.59	2350	1.78	0.03	6.0	2.5
W593186		22.0	6.42	14.85	0.14	1.0	0.282	3.28	20.7	7.4	0.72	1960	1.48	0.08	6.4	4.2
W593187		15.8	3.21	15.45	0.12	1.1	0.172	2.87	23.3	15.2	1.00	1330	2.03	0.05	7.7	3.0
W593188		13.9	3.05	16.30	0.14	1.2	0.083	2.96	23.5	11.8	0.91	1060	1.76	0.05	8.3	3.0
W593189		11.8	3.06	16.00	0.13	1.3	0.082	3.02	27.5	12.0	0.96	1060	1.42	0.05	8.2	2.6
W593190		9.0	2.86	16.00	0.13	1.2	0.075	3.22	20.3	10.9	0.81	1200	3.30	0.05	8.2	2.6
W593191		22.0	3.74	17.05	0.17	1.3	0.349	3.76	34.6	16.6	0.82	2320	2.42	0.11	8.2	2.1
W593192		9.9	2.96	15.30	0.13	1.4	0.051	2.82	23.6	12.6	0.71	518	4.52	1.90	8.2	2.4
W593193		8.4	2.76	15.15	0.13	1.4	0.065	2.70	22.1	13.9	0.73	586	6.23	2.33	8.1	2.4
W593194		6460	5.68	11.25	0.11	1.5	0.450	1.13	8.2	12.9	1.10	1720	21.7	1.60	3.2	26.8
W593195		11.3	3.02	15.80	0.13	1.1	0.072	2.86	25.6	12.3	0.76	689	2.12	2.00	7.9	2.4
W593196		70.5	4.60	15.75	0.14	1.1	0.475	3.50	30.1	10.8	0.58	1320	2.24	0.10	7.2	2.4
W593197		19.0	3.13	16.00	0.13	1.1	0.082	2.90	22.5	22.2	0.64	842	1.98	1.38	7.8	2.3
W593198		100.0	5.58	13.95	0.13	1.0	0.387	3.31	25.7	9.4	1.15	2130	2.11	0.05	6.4	2.2
W593199		9.4	2.86	15.85	0.13	1.2	0.052	2.49	19.0	31.3	0.57	738	1.73	1.24	8.3	2.2
W593324		8.5	2.90	15.20	0.15	1.2	0.063	2.75	24.4	15.2	0.81	567	1.68	2.27	7.9	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239325

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593160		590	19.2	88.4	<0.002	0.12	1.50	9.9	1	2.0	369	0.67	0.06	11.90	0.250	1.11
W593161		530	21.2	117.0	<0.002	1.15	4.27	9.8	<1	4.4	121.0	0.63	0.23	12.05	0.234	1.94
W593162		530	62.4	157.0	<0.002	2.40	4.93	9.1	1	4.8	70.9	0.46	0.91	12.35	0.190	2.07
W593163		570	19.3	146.5	<0.002	0.92	6.45	9.7	1	4.8	97.9	0.58	0.20	10.75	0.235	2.63
W593164		620	18.2	149.0	<0.002	0.36	4.91	10.6	<1	3.0	140.0	0.63	0.16	13.45	0.257	1.94
W593165		230	61.0	214	0.002	1.94	4.82	10.0	1	12.0	27.8	0.52	0.64	11.85	0.226	2.70
W593166		190	83.1	197.0	<0.002	4.93	6.23	10.6	1	16.7	30.2	0.43	0.87	11.15	0.197	2.44
W593167		70	<0.5	1.4	<0.002	0.01	0.08	0.2	1	<0.2	75.8	<0.05	<0.05	0.17	0.005	0.02
W593168		640	23.1	82.4	<0.002	0.09	1.51	10.9	<1	2.3	361	0.63	<0.05	11.65	0.266	1.16
W593169		620	36.8	85.3	<0.002	0.15	2.03	10.2	1	3.1	386	0.62	0.07	13.35	0.254	1.12
W593170		600	20.4	88.7	<0.002	0.09	1.65	10.7	<1	2.2	358	0.63	<0.05	12.30	0.257	1.11
W593171		580	18.7	78.9	<0.002	0.04	1.42	9.6	<1	2.1	387	0.61	<0.05	11.00	0.251	1.13
W593172		590	17.6	90.3	<0.002	0.04	1.64	10.3	<1	2.3	324	0.62	<0.05	12.00	0.257	1.13
W593173		580	17.3	82.9	<0.002	0.04	1.92	9.8	<1	2.1	369	0.61	<0.05	10.50	0.259	1.18
W593174		630	17.6	82.8	<0.002	0.02	1.22	10.4	<1	1.9	386	0.70	<0.05	10.80	0.274	1.11
W593175		610	23.8	82.5	<0.002	0.06	2.34	10.4	<1	2.4	384	0.62	<0.05	11.70	0.270	1.18
W593176		440	1640	136.0	0.003	7.84	104.0	8.1	1	10.4	61.8	0.38	0.70	8.45	0.168	2.29
W593177		650	37.8	108.5	<0.002	0.37	3.53	11.3	<1	2.8	315	0.62	0.13	13.35	0.273	1.37
W593178		600	30.0	98.8	<0.002	0.20	3.35	10.1	<1	2.4	265	0.62	0.05	12.00	0.266	1.21
W593179		580	27.0	101.0	<0.002	0.23	2.71	9.9	1	2.4	347	0.66	0.09	13.25	0.252	1.17
W593181		570	18.8	89.4	<0.002	0.02	1.18	9.4	1	1.7	382	0.66	<0.05	12.55	0.253	1.12
W593182		580	26.4	99.8	<0.002	0.15	20.1	9.9	1	1.9	91.5	0.68	0.08	15.15	0.253	1.07
W593183		580	25.7	103.5	<0.002	0.20	22.4	10.0	<1	2.2	83.9	0.73	0.11	14.60	0.258	1.11
W593184		570	77.9	130.5	0.002	0.38	13.50	10.1	<1	2.0	66.7	0.70	0.19	15.25	0.249	1.77
W593185		440	1000	184.5	0.002	6.40	8.57	8.3	1	7.6	32.4	0.53	0.87	10.90	0.196	2.96
W593186		520	77.5	199.5	<0.002	5.18	8.75	9.0	1	6.0	37.9	0.57	0.85	12.45	0.211	3.17
W593187		580	45.5	95.2	<0.002	0.51	8.27	9.7	1	1.8	84.4	0.60	<0.05	12.45	0.257	2.51
W593188		610	17.3	88.3	<0.002	0.46	9.26	9.6	<1	1.9	86.6	0.63	<0.05	12.65	0.265	2.81
W593189		610	22.9	99.8	<0.002	0.48	8.66	10.0	<1	2.0	90.3	0.69	<0.05	13.90	0.263	2.81
W593190		630	63.0	104.5	<0.002	0.56	7.18	9.5	<1	2.3	78.2	0.65	0.06	11.90	0.278	2.76
W593191		620	211	184.0	<0.002	0.73	7.91	10.7	1	4.1	71.3	0.69	0.33	16.25	0.270	3.21
W593192		550	23.5	105.5	<0.002	0.18	2.17	9.1	<1	1.8	292	0.74	<0.05	14.50	0.242	1.19
W593193		550	35.9	87.6	0.002	0.03	1.49	9.0	<1	1.9	348	0.72	<0.05	13.90	0.252	1.03
W593194		450	>10000	27.2	0.009	2.31	454	11.1	2	1.9	187.5	0.21	1.22	2.23	0.243	0.46
W593195		590	64.3	110.0	<0.002	0.27	11.60	10.0	1	2.3	341	0.59	0.09	13.05	0.259	1.25
W593196		580	1475	207	<0.002	2.72	51.5	10.0	1	10.1	63.1	0.53	0.40	12.70	0.247	2.60
W593197		620	56.8	106.0	<0.002	0.18	7.53	9.7	<1	3.0	274	0.59	0.22	12.05	0.268	1.49
W593198		550	143.5	163.5	<0.002	1.56	13.15	8.7	1	6.5	58.9	0.59	0.06	13.80	0.231	2.48
W593199		580	19.3	81.9	<0.002	0.18	4.95	9.2	<1	1.9	239	0.70	<0.05	10.90	0.255	1.33
W593324		600	20.0	88.5	<0.002	0.05	1.56	9.6	<1	1.8	378	0.63	<0.05	13.60	0.267	1.07

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239325

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593160		3.4	66	0.9	16.9	51	31.0	<0.005
W593161		3.8	61	1.9	15.8	84	29.9	0.013
W593162		5.8	65	2.9	17.5	222	22.6	0.239
W593163		2.9	68	2.1	13.9	116	27.9	0.021
W593164		3.1	69	1.5	17.9	242	26.9	0.008
W593165		2.2	66	5.0	6.1	108	26.4	0.163
W593166		1.7	63	6.1	6.8	52	25.2	0.178
W593167		0.7	1	<0.1	2.1	4	1.9	<0.005
W593168		2.5	71	1.5	17.7	82	30.7	<0.005
W593169		3.1	67	1.9	17.8	114	27.7	0.047
W593170		2.5	68	1.3	17.1	69	31.7	<0.005
W593171		2.8	68	1.2	15.9	50	30.1	<0.005
W593172		2.5	68	1.1	16.0	55	34.6	0.005
W593173		3.1	66	1.3	14.7	59	32.4	<0.005
W593174		3.6	72	1.3	16.4	49	34.5	<0.005
W593175		2.9	72	1.7	17.1	58	28.5	<0.005
W593176		5.1	55	7.4	9.0	3330	22.7	1.685
W593177		4.0	72	1.5	16.8	76	27.1	0.009
W593178		3.2	68	1.6	15.8	77	27.6	<0.005
W593179		3.3	67	1.6	16.2	63	28.2	<0.005
W593181		3.5	66	2.4	16.8	41	32.8	<0.005
W593182		5.0	60	5.1	16.9	208	31.6	<0.005
W593183		4.4	63	5.7	15.9	194	32.4	<0.005
W593184		5.9	69	2.5	16.9	757	30.9	0.006
W593185		3.4	56	5.0	8.4	5440	23.6	1.435
W593186		6.7	61	7.1	8.8	357	24.2	0.497
W593187		5.0	68	3.2	15.2	265	28.0	0.022
W593188		3.4	69	3.1	16.9	102	32.4	0.012
W593189		3.5	70	3.4	17.4	101	33.5	0.011
W593190		4.7	72	4.0	13.5	110	31.2	0.023
W593191		9.8	74	3.3	16.4	1080	33.3	0.015
W593192		3.9	63	1.5	16.5	54	35.9	<0.005
W593193		4.0	64	1.2	16.2	140	37.1	<0.005
W593194		1.4	79	0.6	13.8	5140	67.7	0.273
W593195		4.1	67	1.6	17.0	179	32.3	0.032
W593196		4.7	67	4.9	13.9	2380	27.6	0.298
W593197		3.2	70	1.7	15.8	182	29.1	<0.005
W593198		5.5	65	5.1	12.8	712	24.4	0.105
W593199		4.5	67	2.3	15.1	167	31.4	<0.005
W593324		3.4	69	3.1	16.7	48	29.7	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239325

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239331

Project: Klaza

P.O. No.: 19-031

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239331

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W603282		2.58				7.71	8.64	527	370	2.16	1.06	1.69	10.55	53.1	15.0	7
W603283		4.47				0.22	7.40	27.6	4970	1.54	0.51	3.14	0.18	48.3	7.5	7
W603284		2.82				0.16	7.14	10.0	2180	1.68	0.34	2.64	0.14	44.5	6.8	8
W603285		3.68				0.18	7.19	9.3	2290	1.47	0.22	2.72	0.16	42.0	5.2	8
W603286		2.09				0.10	7.70	11.5	1550	1.60	0.22	1.58	0.08	58.0	4.0	7
W603287		1.48				0.13	7.07	10.4	3820	1.61	0.22	2.81	0.09	46.5	7.4	7
W603288		3.83				0.04	7.96	9.6	2010	1.43	0.15	1.55	0.07	51.6	3.6	10
W603289		0.26	104	1.015		>100	5.75	269	640	0.65	5.17	1.50	25.9	19.95	11.9	66
W603290		3.86				0.09	7.96	10.4	1870	1.45	0.11	2.12	0.08	48.6	2.7	8
W603291		4.75				0.07	7.87	9.7	2320	1.48	0.13	2.07	0.08	49.8	4.2	9
W603292		3.16				0.21	6.76	20.5	2570	1.57	0.44	3.01	0.11	67.2	22.5	8
W603293		4.44				0.11	7.63	7.5	1830	1.66	0.37	2.63	0.14	41.9	5.5	8
W603294		2.60				0.14	7.00	7.9	2680	1.70	0.41	3.13	0.07	39.6	5.9	8
W603295		2.64				0.11	6.78	11.1	2700	1.72	0.41	3.15	0.09	44.9	6.4	8
W603296		2.90				0.08	7.14	13.2	3300	1.86	0.18	2.37	0.08	36.7	4.2	7
W603297		2.02				0.20	7.38	37.0	1960	1.71	0.32	2.09	0.22	58.9	8.1	7
W603298		4.34				2.28	7.14	8.2	1540	1.71	0.17	2.56	0.09	35.7	5.1	10
W603299		4.29				1.04	7.34	856	1970	1.73	0.32	2.32	2.86	45.0	7.3	9
W603300		1.53	150	2.96	1.065	>100	6.67	8850	690	1.31	1.78	1.20	104.0	47.9	1.7	7
W603301		2.88				29.2	5.87	9510	460	1.16	1.24	1.28	69.5	42.9	2.3	7
W603302		3.16				8.39	5.39	1120	620	1.38	0.84	1.71	16.40	38.4	12.4	6
W603303		5.00				0.05	0.10	7.7	30	0.09	0.02	33.8	0.09	1.28	0.6	2
W603304		5.95				0.29	7.24	26.2	1420	1.46	1.11	2.41	0.22	43.0	20.9	8
W603305		3.92				0.18	7.43	9.9	890	1.53	1.02	2.34	0.09	41.6	25.4	10
W603306		3.62				0.18	7.11	6.8	2620	1.16	1.11	2.29	0.10	44.8	28.0	8
W603307		<0.02				0.15	6.98	6.7	2630	1.13	1.09	2.24	0.09	44.9	27.2	8
W603308		4.40				0.12	7.93	7.7	1450	1.48	0.45	2.36	0.10	45.7	9.4	8
W603309		3.24				0.17	7.05	13.3	820	1.48	0.50	2.94	0.08	44.6	13.0	8
W603310		4.14				0.15	7.15	11.8	2490	1.60	0.45	2.68	0.09	52.3	6.7	8
W603311		3.35				0.13	7.53	9.5	1510	1.36	0.31	2.04	0.66	37.8	4.9	9
W603312		4.24				0.07	7.91	7.3	2650	1.38	0.17	1.95	0.13	50.1	4.6	8
W603313		3.37				0.12	6.57	11.2	1730	1.40	0.25	2.31	0.12	41.2	7.7	9
W603314		3.11				0.26	6.22	10.1	2830	1.55	0.47	2.45	0.09	32.4	8.4	8
W603315		1.88				0.18	7.17	6.2	2710	1.66	0.33	2.02	0.16	38.0	11.2	8
W603316		2.00				0.27	6.69	8.5	2660	1.59	0.45	2.52	0.13	50.9	19.5	8
W603317		2.54				0.32	6.32	9.0	2660	1.64	0.66	2.60	0.31	60.9	13.1	7
W603318		3.83				0.33	6.50	8.3	970	1.56	1.01	2.44	0.18	32.9	16.7	9
W603319		0.26				38.8	5.65	2540	1290	1.21	35.1	1.63	46.1	39.2	17.6	23
W603320		3.42				0.25	6.93	17.8	2170	1.76	0.56	2.16	0.27	44.9	11.6	8
W603321		1.56				8.52	5.30	238	660	1.21	1.12	3.04	4.82	32.7	9.3	7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W603282		25.4	13.2	9.75	26.3	0.11	1.5	0.233	4.12	28.1	35.6	0.72	2870	1.55	0.03	11.1
W603283		13.10	4.5	3.45	16.65	0.11	1.1	0.099	3.09	27.3	58.9	1.09	1250	0.44	0.02	7.0
W603284		14.95	2.8	2.90	17.20	0.13	1.3	0.085	2.62	23.4	40.7	0.80	717	1.72	0.77	8.2
W603285		19.40	3.4	2.94	15.85	0.12	1.4	0.067	2.88	22.1	42.1	0.88	842	0.88	0.41	8.1
W603286		15.15	1.8	2.80	16.95	0.14	1.5	0.081	2.42	31.8	209	0.65	591	0.75	0.03	8.1
W603287		13.15	5.3	3.46	15.45	0.11	1.3	0.099	3.13	24.9	52.3	1.03	1060	0.95	0.03	7.3
W603288		16.15	2.0	2.84	17.30	0.13	1.2	0.052	3.01	28.1	79.1	0.61	622	0.75	0.11	8.3
W603289		0.93	6560	5.95	12.45	0.09	1.5	0.454	1.18	9.0	14.1	1.16	1760	21.9	1.68	3.3
W603290		15.05	4.3	2.90	17.50	0.12	1.4	0.050	3.00	25.4	82.0	0.69	566	1.29	0.34	8.8
W603291		17.25	2.8	3.16	18.45	0.12	1.3	0.062	2.92	26.8	55.0	0.66	576	0.64	0.87	8.9
W603292		15.45	4.4	3.14	15.20	0.13	1.1	0.063	2.95	39.8	50.9	1.01	1230	1.55	0.03	6.5
W603293		10.85	4.2	2.82	17.40	0.13	1.2	0.040	2.75	22.4	152.5	0.96	662	1.29	0.06	7.5
W603294		10.60	4.7	2.97	16.65	0.13	1.2	0.090	2.81	20.2	36.7	0.76	672	0.69	0.90	7.8
W603295		10.80	5.7	2.88	16.65	0.12	1.2	0.086	2.57	23.5	33.2	0.73	657	1.01	0.91	7.8
W603296		11.20	1.6	2.68	16.60	0.12	1.3	0.080	3.43	18.9	19.7	0.89	1060	2.43	0.04	7.7
W603297		13.80	2.1	3.93	16.70	0.12	1.1	0.193	3.32	33.1	29.3	0.92	1350	4.36	0.04	7.4
W603298		13.00	6.3	2.73	17.35	0.11	1.3	0.063	3.07	17.8	180.0	0.57	682	2.52	0.05	8.7
W603299		9.38	25.6	3.48	15.85	0.13	1.1	0.223	3.60	23.8	22.0	0.84	3050	2.62	0.03	7.7
W603300		6.90	281	3.65	14.70	0.11	1.1	0.892	3.12	26.8	12.5	0.44	3510	7.38	0.02	6.6
W603301		8.44	110.0	5.10	13.35	0.10	0.9	0.562	2.73	24.4	18.6	0.45	3030	29.8	0.02	5.4
W603302		25.2	49.1	3.25	11.90	0.10	0.8	0.280	2.11	22.0	57.6	0.61	2310	51.8	0.02	5.5
W603303		0.06	1.9	0.13	0.29	<0.05	0.1	0.007	0.03	1.3	1.2	1.60	121	0.15	0.04	0.1
W603304		10.90	15.0	3.65	15.75	0.11	1.1	0.133	2.61	23.1	90.6	0.85	983	0.74	0.04	7.0
W603305		11.35	3.2	3.57	15.45	0.11	1.2	0.118	2.35	21.6	29.1	0.87	766	0.56	0.05	7.0
W603306		7.44	2.7	3.78	14.05	0.11	0.9	0.042	2.94	23.2	23.8	0.92	555	0.78	0.12	5.7
W603307		7.44	2.7	3.67	14.30	0.12	0.9	0.046	2.89	22.8	24.8	0.91	545	0.87	0.12	5.9
W603308		8.90	4.3	2.83	17.45	0.10	1.1	0.086	2.28	24.0	35.2	0.90	707	0.52	0.04	7.7
W603309		14.95	2.3	3.22	15.55	0.11	1.0	0.104	2.69	23.5	88.3	0.94	696	1.65	0.03	7.0
W603310		14.30	3.5	3.00	16.55	0.13	1.0	0.087	2.95	27.4	60.9	0.92	684	0.93	0.04	7.3
W603311		13.45	2.7	2.71	14.70	0.11	1.0	0.044	3.14	19.8	60.0	0.75	532	0.87	0.56	7.1
W603312		13.30	2.4	3.07	16.75	0.12	1.1	0.068	3.27	26.0	26.3	0.70	563	1.10	1.44	8.6
W603313		11.05	4.5	2.54	15.75	0.12	1.0	0.073	2.93	21.3	48.8	0.74	807	1.33	0.68	7.3
W603314		7.45	2.5	2.28	13.85	0.13	0.8	0.194	3.07	16.4	24.3	0.81	1090	1.15	0.04	6.5
W603315		9.80	2.6	1.97	15.65	0.13	1.1	0.068	3.10	20.3	25.2	0.80	587	1.34	0.05	7.0
W603316		11.20	2.9	2.13	15.00	0.14	1.1	0.062	3.12	28.8	24.6	0.73	630	0.79	0.05	7.2
W603317		11.10	2.5	2.12	13.35	0.14	1.0	0.088	2.83	33.6	151.5	0.62	644	1.05	0.04	6.1
W603318		10.30	4.4	2.56	13.35	0.12	1.1	0.057	3.21	16.6	49.5	0.57	535	0.90	0.04	6.6
W603319		10.20	1140	8.78	14.80	0.12	0.9	1.610	2.53	19.6	17.3	0.66	2210	17.85	0.06	4.8
W603320		11.35	4.6	2.35	16.30	0.11	1.2	0.054	3.24	23.5	92.5	0.78	1350	1.68	0.04	7.4
W603321		5.39	42.6	3.58	12.35	0.10	0.8	0.117	2.59	17.8	23.3	0.88	4590	23.8	0.02	4.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W603282		4.3	820	706	131.5	<0.002	6.87	33.0	10.7	1	3.6	204	0.88	<0.05	9.75	0.344
W603283		3.9	580	16.6	115.0	<0.002	0.52	9.49	9.2	<1	1.9	325	0.60	<0.05	10.45	0.227
W603284		2.4	560	11.7	105.0	<0.002	0.25	9.22	9.7	<1	2.1	193.5	0.71	<0.05	11.50	0.232
W603285		2.1	580	13.4	95.4	<0.002	0.24	7.68	9.5	1	1.9	194.0	0.71	<0.05	11.50	0.233
W603286		1.8	680	11.8	105.5	<0.002	0.20	12.60	9.6	<1	2.0	416	0.81	<0.05	15.50	0.223
W603287		2.2	590	5.9	123.0	<0.002	0.29	8.44	9.5	<1	2.5	158.0	0.70	<0.05	13.65	0.224
W603288		2.0	640	11.3	122.5	<0.002	0.05	18.20	11.1	1	2.1	218	0.64	<0.05	13.30	0.264
W603289		28.3	460	>10000	29.6	0.010	2.40	466	12.2	2	1.9	201	0.22	1.09	1.96	0.248
W603290		1.7	630	15.4	104.0	<0.002	0.04	10.15	10.7	<1	2.2	215	0.73	<0.05	11.25	0.270
W603291		2.2	650	14.1	102.5	<0.002	0.03	7.38	11.3	<1	2.2	230	0.70	<0.05	11.85	0.276
W603292		3.6	480	8.8	124.0	<0.002	0.85	12.35	8.9	1	2.4	184.0	0.55	<0.05	11.15	0.191
W603293		2.2	590	13.5	95.0	<0.002	0.92	13.45	9.9	2	2.4	196.5	0.67	<0.05	12.55	0.231
W603294		2.0	570	12.8	90.7	<0.002	0.75	6.36	9.7	1	2.5	238	0.66	<0.05	11.10	0.227
W603295		2.4	530	10.5	87.4	<0.002	0.81	5.91	10.3	1	2.7	237	0.65	<0.05	11.10	0.227
W603296		1.8	530	3.7	136.5	<0.002	0.27	8.61	9.1	1	2.6	119.5	0.66	<0.05	11.70	0.222
W603297		1.9	550	17.4	176.0	<0.002	1.17	9.31	10.2	1	2.5	99.2	0.62	<0.05	12.35	0.221
W603298		1.7	600	10.7	105.0	<0.002	0.17	12.00	9.3	1	2.2	307	0.72	<0.05	10.05	0.252
W603299		2.3	570	167.5	179.0	<0.002	1.16	27.4	9.8	1	2.9	90.6	0.65	<0.05	11.75	0.231
W603300		1.9	460	>10000	204	<0.002	3.46	518	8.9	1	4.8	45.7	0.54	<0.05	10.90	0.205
W603301		2.1	360	6290	176.5	<0.002	4.79	188.5	6.8	1	5.1	56.2	0.45	<0.05	9.50	0.164
W603302		2.8	390	1460	126.0	0.002	2.35	101.5	7.3	1	3.3	109.5	0.45	0.05	9.87	0.164
W603303		0.6	70	8.5	1.1	<0.002	<0.01	0.36	0.2	2	<0.2	82.6	<0.05	<0.05	0.11	0.005
W603304		2.1	580	23.4	98.7	<0.002	1.78	21.0	8.8	1	2.6	210	0.63	0.08	11.25	0.221
W603305		2.5	550	10.8	80.1	<0.002	1.99	12.15	9.0	2	2.7	116.5	0.63	0.14	11.15	0.215
W603306		2.5	530	13.4	100.5	<0.002	2.82	8.69	8.2	3	2.0	158.5	0.49	0.09	10.75	0.189
W603307		2.5	490	12.1	100.5	<0.002	2.71	8.85	8.3	3	2.1	159.0	0.49	0.09	10.65	0.187
W603308		1.9	630	8.9	68.5	<0.002	0.88	16.90	10.1	1	2.4	119.5	0.65	<0.05	12.15	0.246
W603309		2.3	550	16.5	89.2	<0.002	1.54	9.52	9.0	1	2.4	227	0.58	0.06	10.80	0.217
W603310		2.2	550	19.5	92.3	<0.002	0.92	7.68	9.3	1	2.2	220	0.61	<0.05	11.05	0.223
W603311		1.9	580	27.0	100.5	<0.002	0.66	7.42	8.4	1	1.8	227	0.59	<0.05	10.20	0.240
W603312		2.3	610	15.5	117.5	<0.002	0.17	3.90	10.4	1	1.8	264	0.70	<0.05	12.70	0.259
W603313		8.9	520	14.4	110.5	<0.002	0.53	4.72	9.0	1	2.1	195.0	0.62	<0.05	11.30	0.218
W603314		2.6	490	21.4	130.0	<0.002	0.64	6.24	8.5	<1	3.9	133.0	0.51	<0.05	10.35	0.186
W603315		2.3	510	13.3	110.5	<0.002	0.45	10.80	9.1	1	2.4	125.0	0.62	<0.05	13.95	0.191
W603316		2.6	500	17.0	113.5	<0.002	0.73	6.94	9.0	<1	2.1	146.5	0.62	<0.05	12.70	0.201
W603317		3.0	460	21.3	95.2	<0.002	0.92	6.95	8.0	<1	3.5	181.5	0.56	0.05	12.05	0.168
W603318		2.3	480	19.1	107.0	<0.002	1.70	5.51	7.7	1	3.3	132.5	0.59	0.05	11.25	0.179
W603319		16.0	410	1620	156.0	0.002	7.54	104.0	8.8	1	10.7	64.2	0.41	0.73	9.63	0.158
W603320		2.4	530	21.7	136.5	<0.002	1.30	5.55	9.6	1	2.6	161.5	0.64	<0.05	13.35	0.206
W603321		2.0	350	277	163.5	<0.002	2.86	53.2	7.1	1	2.7	97.5	0.43	0.05	10.80	0.139

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W603282		3.86	16.1	128	6.2	14.3	774	43.2	0.206
W603283		2.92	9.1	71	2.4	15.1	55	32.6	0.005
W603284		1.81	2.5	65	1.9	13.5	53	37.5	0.007
W603285		1.63	3.4	65	2.2	14.2	50	39.0	<0.005
W603286		1.59	1.7	61	2.1	13.5	48	44.1	<0.005
W603287		2.05	2.1	68	1.5	13.7	74	35.8	<0.005
W603288		1.59	1.9	70	1.7	15.1	51	33.8	<0.005
W603289		0.51	1.4	85	0.6	14.7	5340	53.4	0.301
W603290		1.52	2.6	71	2.2	14.9	49	38.3	<0.005
W603291		1.45	2.9	75	1.9	15.1	52	37.2	<0.005
W603292		2.32	3.8	64	1.7	12.9	59	31.3	0.006
W603293		1.73	3.8	67	1.6	11.9	61	33.5	<0.005
W603294		1.63	3.7	67	1.9	11.6	57	37.0	<0.005
W603295		1.66	4.1	69	1.9	12.3	56	35.0	0.015
W603296		2.52	4.2	59	1.5	12.9	51	36.7	<0.005
W603297		2.59	3.1	69	2.2	15.9	52	31.7	0.017
W603298		1.96	5.2	67	2.4	11.4	48	37.8	<0.005
W603299		2.88	7.4	66	2.1	14.3	265	32.6	0.215
W603300		2.80	10.9	57	4.8	8.7	>10000	32.7	2.71
W603301		2.40	15.5	45	3.1	8.3	6240	27.1	2.89
W603302		1.96	34.3	49	3.2	10.0	1440	25.3	0.479
W603303		0.02	0.2	1	0.1	2.4	11	1.6	<0.005
W603304		1.84	10.9	64	3.6	12.5	53	29.5	0.189
W603305		1.39	5.2	64	2.9	12.1	47	32.7	0.006
W603306		1.40	3.9	62	1.9	9.4	45	24.9	<0.005
W603307		1.45	3.9	61	2.0	9.8	45	26.1	0.005
W603308		1.34	6.6	70	1.7	11.5	58	30.1	0.006
W603309		1.78	6.2	62	2.8	12.7	39	27.9	0.005
W603310		1.91	7.0	67	2.1	12.5	46	29.8	0.005
W603311		1.62	4.8	65	1.7	11.2	90	28.4	<0.005
W603312		1.45	2.9	71	1.5	14.7	43	31.1	<0.005
W603313		1.88	5.9	57	1.5	12.1	40	28.1	<0.005
W603314		2.19	5.6	56	2.5	11.2	34	24.3	0.016
W603315		1.65	9.0	51	2.7	11.8	46	30.2	<0.005
W603316		1.81	3.6	55	2.0	10.8	43	30.8	0.038
W603317		1.86	4.8	46	4.1	13.7	54	27.6	<0.005
W603318		2.09	5.1	58	2.7	10.3	41	29.5	0.006
W603319		2.23	5.9	54	7.3	9.7	3200	25.1	1.755
W603320		2.60	7.5	58	2.5	13.3	51	32.6	0.006
W603321		2.14	5.2	49	3.2	11.9	352	23.7	0.258

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239331

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19239339

Project: Klaza

P.O. No.: 19-032

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239339

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
W603322		3.26		0.16	6.96	26.2	2060	1.68	0.17	2.14	0.27	49.4	4.6	6	10.25	4.5
W603323		3.59		0.08	6.83	4.2	2540	1.42	0.18	2.21	0.09	38.8	3.8	9	7.14	3.4
W603324		3.18		0.15	6.95	5.7	2600	1.71	0.37	2.76	0.10	39.1	5.8	8	7.62	4.4
W603325		3.51		0.29	6.98	11.9	1470	1.61	0.42	2.29	0.36	49.8	6.7	7	12.60	4.6
W603326		1.56		12.50	5.99	106.5	330	1.33	49.0	2.08	1.87	23.9	21.8	7	5.17	4.0
W603327		5.21		0.02	0.31	<0.2	40	0.14	0.07	31.6	<0.02	1.63	0.5	2	0.09	2.6
W603328		3.56		0.36	7.18	20.1	1860	1.32	0.27	1.96	1.27	51.6	3.3	7	8.89	3.7
W603329		3.38		0.09	6.91	3.9	3390	1.45	0.26	2.50	0.06	35.7	4.5	10	6.47	3.0
W603330		3.99		0.06	7.03	4.9	2190	1.43	0.08	2.68	0.08	47.1	4.3	10	10.30	3.4
W603331		1.67		2.47	7.70	229	1940	1.70	0.82	2.23	12.05	49.8	4.3	12	9.92	34.0
W603332		1.73		1.27	7.54	122.0	1860	1.64	0.81	2.19	4.49	50.3	4.4	7	11.10	15.7
W603333		1.53		18.10	6.49	686	860	1.28	2.04	1.61	44.9	48.9	6.3	7	5.18	128.0
W603334		1.69		1.83	6.81	284	1280	1.69	0.11	3.04	3.13	39.2	3.6	10	11.10	10.4
W603335		1.06		7.45	6.43	1040	450	1.51	0.31	3.39	18.20	51.7	6.2	7	14.45	19.8
W603336		2.25		9.12	6.72	859	630	1.49	0.09	3.57	30.5	45.5	3.4	8	9.57	82.3
W603337		1.45		2.33	6.18	438	930	1.20	1.42	0.95	9.70	33.4	3.0	8	5.40	16.9
W603338		3.45		0.17	7.59	17.1	2120	1.68	0.08	1.89	0.59	45.3	3.9	9	12.25	3.6
W603339		0.26		40.4	5.73	2520	220	1.18	38.3	1.65	47.6	32.9	16.7	22	9.90	1190
W603340		4.26		0.16	7.38	8.3	2110	1.52	0.16	1.84	0.16	47.7	4.0	9	10.85	4.1
W603341		3.42		0.07	7.15	4.9	2090	1.68	0.07	2.23	0.09	47.7	4.7	8	12.30	4.9
W603342		2.17		1.88	7.08	415	1540	1.40	0.37	1.71	3.57	45.2	4.4	7	11.60	18.1
W603343		1.16		0.98	6.22	150.5	320	1.64	0.16	2.52	1.90	38.6	3.3	8	13.10	8.7
W603344		1.24	2.27	69.8	5.65	1150	260	1.08	1.42	0.86	73.8	44.8	16.5	7	6.21	339
W603345		<0.02	1.785	70.1	5.60	1090	240	1.07	1.57	0.85	77.3	46.2	18.2	7	6.51	333
W603346		2.13		11.30	6.77	424	300	1.40	2.11	1.99	16.35	43.4	3.1	5	18.30	85.5
W603347		1.32		3.54	7.24	62.1	1820	1.54	3.13	2.19	2.11	42.7	3.9	7	15.55	114.0
W603348		3.65		0.43	7.00	10.2	2300	1.40	0.37	2.29	0.31	41.0	5.7	8	8.71	16.2
W603349		3.82		0.38	7.73	14.4	2090	1.51	0.27	1.54	0.15	47.3	3.8	16	9.58	7.8
W603350		2.54		2.83	6.57	110.5	1450	1.49	2.91	2.52	3.90	44.3	3.5	7	13.05	122.0
W603351		0.26	0.992	99.3	5.37	227	570	0.74	4.62	1.39	25.2	18.70	11.5	61	0.88	6020
W603352		3.69		23.7	6.58	577	620	1.40	2.72	2.48	6.23	47.8	4.8	10	8.49	191.0
W603353		4.37		0.12	7.09	5.7	2140	1.61	0.11	2.28	0.10	47.9	3.9	10	7.52	4.5
W603354		3.64		0.23	7.41	7.9	2030	1.57	0.10	1.97	0.14	54.5	4.3	9	12.10	3.2
W603355		1.13		0.17	6.10	30.5	2620	1.66	0.12	3.47	0.25	45.2	6.3	8	16.35	2.3
W603356		3.21		0.10	6.67	16.6	1340	1.47	0.07	2.19	0.17	39.6	4.0	7	23.6	3.4
W603357		3.69		0.19	7.04	27.2	2710	1.85	0.12	2.74	0.45	43.4	3.9	6	20.9	4.5
W603358		2.29		0.36	6.71	24.9	2440	1.97	0.12	2.51	0.45	47.2	3.8	6	34.4	4.1
W603359		3.57		0.11	7.30	22.4	2760	1.70	0.14	2.20	0.15	43.8	4.0	8	11.70	3.0
W603360		3.47		0.19	7.78	6.9	4740	1.57	0.22	1.76	0.36	63.7	13.0	8	6.73	2.9
W603361		3.09		0.65	7.56	71.4	2110	1.64	0.29	1.74	1.35	51.2	3.8	7	14.70	7.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239339

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W603322		2.21	15.35	0.16	1.1	0.037	3.26	29.3	145.5	0.66	1580	1.18	0.05	7.0	2.0	480
W603323		2.40	14.90	0.18	1.2	0.052	2.99	21.6	36.3	0.59	555	1.03	1.26	7.5	1.9	530
W603324		2.46	15.95	0.15	1.3	0.032	3.08	21.4	105.5	0.60	514	1.32	1.25	7.6	1.9	520
W603325		2.45	15.95	0.18	1.1	0.062	3.18	28.5	41.5	0.74	1820	2.19	0.15	7.3	1.8	530
W603326		5.36	12.60	0.12	0.8	0.256	2.98	12.9	13.7	0.45	3430	11.20	0.04	5.2	3.3	370
W603327		0.12	0.90	0.08	0.1	0.005	0.13	1.5	1.2	1.37	114	0.09	0.14	0.5	0.7	70
W603328		2.28	14.60	0.24	1.2	0.095	3.19	29.7	43.5	0.66	1720	1.30	0.22	7.2	1.8	540
W603329		2.23	14.85	0.25	1.0	0.033	2.90	19.2	15.6	0.66	469	1.20	1.78	6.7	2.0	530
W603330		2.58	15.35	0.20	1.2	0.071	2.81	26.3	13.2	0.64	586	1.03	1.87	7.4	2.1	530
W603331		3.34	16.65	0.19	1.4	0.342	3.50	28.9	11.6	0.67	2140	2.47	0.85	7.7	2.9	660
W603332		3.21	16.85	0.15	1.3	0.234	3.49	29.5	16.6	0.65	1900	2.44	0.83	7.1	2.8	600
W603333		4.84	15.10	0.20	0.9	0.648	3.20	30.4	10.5	0.50	2350	1.75	0.03	5.6	1.8	420
W603334		2.87	16.25	0.15	1.2	0.219	3.36	20.9	13.8	0.85	4070	1.54	0.02	7.1	2.1	470
W603335		3.81	14.80	0.14	1.2	0.243	3.07	31.3	11.6	1.01	6110	5.55	0.02	6.4	2.1	490
W603336		2.69	16.25	0.17	1.2	0.110	3.32	26.0	7.5	1.00	5800	3.54	0.02	6.9	2.2	470
W603337		5.81	13.95	0.15	0.9	0.220	3.08	18.9	7.7	0.41	1020	8.25	0.03	5.3	3.4	440
W603338		2.61	15.85	0.18	1.3	0.061	3.39	25.9	27.1	0.62	870	1.75	1.28	7.8	2.2	530
W603339		9.09	14.50	0.13	0.8	1.570	2.65	18.7	15.8	0.67	2300	18.45	0.06	4.7	14.9	430
W603340		2.64	15.55	0.15	1.4	0.079	3.01	27.3	15.0	0.68	528	0.90	1.78	8.0	2.2	550
W603341		2.49	15.55	0.17	1.3	0.060	2.93	26.1	16.1	0.63	498	0.92	2.02	7.8	2.0	500
W603342		2.67	15.80	0.16	1.3	0.093	3.11	25.9	42.8	0.44	1790	1.42	0.37	7.3	1.8	490
W603343		2.55	15.00	0.14	1.2	0.102	3.15	20.7	34.6	0.66	3940	6.38	0.03	7.5	2.2	480
W603344		5.84	12.95	0.19	0.8	0.664	2.75	27.4	11.6	0.34	1800	30.0	0.02	5.1	2.6	370
W603345		5.78	13.90	0.12	0.9	0.746	2.68	27.9	12.5	0.34	1810	32.3	0.02	5.5	2.7	370
W603346		3.47	15.20	0.12	1.1	0.202	3.14	25.6	16.1	0.69	3860	8.58	0.02	6.8	1.8	450
W603347		2.84	16.35	0.15	1.3	0.111	3.63	23.5	37.3	0.59	2380	1.09	0.35	7.9	2.2	530
W603348		2.90	15.10	0.17	1.2	0.111	3.47	22.2	15.3	0.61	950	1.08	0.90	7.5	2.0	520
W603349		3.07	15.60	0.16	1.2	0.062	3.02	27.3	18.4	0.72	488	1.14	1.64	7.7	2.4	540
W603350		3.38	14.90	0.18	1.0	0.357	3.28	25.9	17.0	0.69	1780	1.89	0.10	7.0	2.0	480
W603351		5.54	12.25	0.11	1.5	0.419	1.12	8.6	12.1	1.10	1680	22.9	1.57	3.2	27.6	430
W603352		3.80	14.55	0.16	1.1	0.197	2.91	27.6	17.3	0.62	1100	14.05	0.92	7.2	4.7	490
W603353		2.49	15.85	0.21	1.2	0.043	2.89	27.7	8.5	0.63	512	1.54	2.15	7.8	2.3	500
W603354		2.61	15.80	0.22	1.1	0.039	3.33	33.2	16.6	0.66	591	1.96	1.50	7.6	2.2	520
W603355		2.85	14.40	0.17	1.0	0.058	3.50	25.5	28.2	1.00	1780	1.49	0.25	7.2	2.3	460
W603356		2.20	15.70	0.14	1.0	0.033	3.50	20.8	109.5	0.58	714	1.34	0.30	7.6	1.9	510
W603357		2.55	16.00	0.16	1.0	0.040	3.28	22.5	134.5	0.85	1280	1.77	0.04	7.3	2.2	520
W603358		2.66	15.35	0.15	1.2	0.045	2.92	25.9	97.8	0.74	1040	0.91	0.29	7.1	1.9	500
W603359		2.96	16.15	0.16	1.2	0.056	3.50	23.6	43.5	0.65	618	0.61	1.91	7.4	2.3	570
W603360		3.43	16.75	0.23	1.2	0.096	3.75	37.4	21.6	0.63	930	3.84	1.90	7.2	2.1	560
W603361		2.88	17.35	0.19	1.3	0.094	3.53	28.1	153.0	0.58	1760	0.99	0.53	7.8	1.9	540

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239339

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W603322		16.7	145.5	<0.002	0.65	10.50	8.6	<1	2.1	180.5	0.61	<0.05	12.75	0.207	2.19	3.3
W603323		13.4	111.0	<0.002	0.41	4.50	8.9	<1	1.8	255	0.59	<0.05	10.30	0.229	1.43	2.2
W603324		14.3	116.0	<0.002	0.87	5.55	8.7	<1	2.1	253	0.66	<0.05	10.85	0.220	1.67	5.3
W603325		25.2	140.0	<0.002	1.20	9.44	9.8	1	2.4	151.0	0.59	<0.05	11.25	0.217	2.13	7.9
W603326		701	162.0	0.002	5.17	13.70	7.8	1	3.6	52.6	0.41	1.56	9.28	0.151	2.23	5.4
W603327		1.3	3.5	<0.002	0.01	0.10	0.3	<1	<0.2	80.1	<0.05	<0.05	0.35	0.005	0.05	0.3
W603328		99.5	146.0	<0.002	0.73	9.11	9.4	<1	2.2	123.0	0.61	0.05	11.80	0.222	2.15	5.0
W603329		11.4	105.5	<0.002	0.75	2.69	8.6	<1	2.1	320	0.53	<0.05	9.11	0.221	1.51	3.3
W603330		14.1	112.0	<0.002	0.04	6.83	9.2	<1	1.8	343	0.55	<0.05	11.10	0.231	1.36	3.1
W603331		371	196.0	<0.002	1.27	18.55	11.0	<1	3.3	229	0.55	0.05	11.10	0.253	2.41	4.4
W603332		184.5	188.5	<0.002	1.08	14.35	10.6	<1	3.0	228	0.52	<0.05	11.60	0.239	2.30	4.6
W603333		5350	202	<0.002	4.55	102.0	8.2	<1	6.9	51.4	0.43	0.36	9.28	0.177	2.48	3.3
W603334		297	147.0	<0.002	1.69	19.75	8.9	<1	2.6	212	0.57	<0.05	9.26	0.226	2.99	6.3
W603335		1240	224	<0.002	2.82	36.4	8.7	<1	3.8	147.5	0.55	0.25	11.55	0.193	2.57	5.9
W603336		366	225	<0.002	1.47	54.4	8.8	<1	7.9	89.0	0.54	<0.05	11.15	0.205	2.85	3.0
W603337		238	197.5	<0.002	5.73	26.3	8.5	<1	5.7	35.8	0.45	<0.05	8.42	0.186	2.21	2.4
W603338		21.8	149.0	<0.002	0.12	11.55	9.6	<1	1.8	235	0.61	<0.05	12.85	0.235	1.95	6.4
W603339		1670	161.0	0.005	7.88	108.0	8.6	2	11.6	62.8	0.38	0.74	8.17	0.163	2.32	5.3
W603340		18.9	130.0	<0.002	0.07	7.86	9.8	<1	1.9	262	0.63	<0.05	12.50	0.236	1.50	2.8
W603341		15.7	131.0	<0.002	0.02	4.51	9.2	<1	1.6	323	0.65	<0.05	13.05	0.223	1.35	3.6
W603342		324	153.0	<0.002	0.76	16.50	8.8	<1	2.0	131.5	0.61	<0.05	12.85	0.218	1.94	6.2
W603343		137.5	138.0	<0.002	0.96	26.5	9.1	<1	2.1	173.0	0.56	<0.05	10.15	0.227	2.78	11.9
W603344		>10000	169.0	0.002	6.34	328	6.8	<1	6.6	38.3	0.41	0.57	9.05	0.168	2.48	4.9
W603345		>10000	174.5	<0.002	6.32	317	7.3	<1	6.9	40.2	0.43	0.52	9.20	0.165	2.56	4.9
W603346		866	213	<0.002	2.66	64.0	8.7	<1	3.0	83.6	0.56	<0.05	11.70	0.204	2.76	5.1
W603347		174.5	160.5	<0.002	0.52	49.2	9.7	<1	2.0	195.5	0.64	<0.05	11.90	0.234	2.40	3.8
W603348		20.6	156.5	<0.002	0.24	7.06	9.4	<1	1.7	208	0.59	<0.05	11.55	0.227	2.09	3.7
W603349		19.9	135.0	<0.002	0.05	4.93	9.8	<1	1.6	250	0.62	<0.05	12.75	0.237	1.35	2.4
W603350		69.0	161.5	<0.002	0.84	24.4	8.9	<1	2.7	146.0	0.57	<0.05	10.80	0.211	2.59	2.9
W603351		>10000	28.7	0.010	2.28	437	12.2	2	2.0	185.5	0.20	1.33	1.84	0.230	0.52	1.3
W603352		1945	143.5	<0.002	1.67	40.7	8.8	<1	2.7	213	0.59	<0.05	11.55	0.214	1.72	3.7
W603353		18.3	125.0	<0.002	0.02	3.27	9.4	<1	1.6	331	0.62	<0.05	12.50	0.218	1.19	3.6
W603354		18.7	149.5	<0.002	0.10	5.16	9.5	<1	1.7	264	0.63	<0.05	14.10	0.228	1.55	3.5
W603355		21.1	127.5	<0.002	0.45	11.55	8.6	<1	1.7	184.0	0.57	<0.05	9.76	0.212	2.44	5.6
W603356		13.7	120.0	<0.002	0.12	10.15	8.5	<1	1.7	244	0.62	<0.05	10.55	0.226	2.05	2.4
W603357		14.5	112.5	<0.002	0.26	10.05	8.5	<1	1.9	222	0.56	<0.05	10.20	0.234	2.48	5.8
W603358		25.6	117.0	<0.002	0.50	15.10	8.3	<1	1.7	249	0.57	<0.05	12.00	0.222	2.15	6.2
W603359		18.4	119.0	<0.002	0.10	5.08	9.1	<1	1.7	297	0.53	<0.05	10.20	0.257	1.67	3.4
W603360		33.4	140.5	<0.002	0.27	3.63	9.0	1	2.0	261	0.56	<0.05	13.55	0.235	1.83	3.5
W603361		79.0	156.5	<0.002	0.87	14.60	9.5	<1	2.3	211	0.64	<0.05	13.05	0.235	2.11	6.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239339

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W603322		56	1.9	12.0	54	29.4	0.009
W603323		62	1.8	11.8	44	33.4	<0.005
W603324		59	2.0	11.1	42	35.9	<0.005
W603325		64	2.9	13.0	67	29.5	0.005
W603326		40	4.4	8.2	209	22.3	0.101
W603327		2	<0.1	2.5	4	3.3	<0.005
W603328		59	3.0	11.5	174	32.3	0.007
W603329		63	2.6	9.4	40	28.1	<0.005
W603330		60	1.6	14.3	40	38.0	<0.005
W603331		76	2.4	14.8	1280	48.2	0.087
W603332		72	2.7	14.1	485	45.2	0.055
W603333		56	4.9	9.1	4330	26.0	0.520
W603334		62	2.9	13.9	361	38.7	0.253
W603335		54	4.5	12.4	1560	32.3	0.297
W603336		54	5.1	13.1	2480	36.2	0.223
W603337		71	4.3	6.1	844	25.7	0.159
W603338		61	1.4	14.1	79	39.0	<0.005
W603339		56	7.3	9.2	3400	22.3	1.730
W603340		64	1.7	14.5	51	41.6	<0.005
W603341		59	0.7	15.0	40	39.1	<0.005
W603342		57	2.6	12.8	402	35.5	0.014
W603343		64	1.9	13.3	220	37.2	0.020
W603344		48	4.3	7.6	7580	23.2	1.015
W603345		48	4.4	8.0	7620	24.3	0.919
W603346		54	3.7	11.4	1640	30.2	0.141
W603347		64	1.9	14.3	247	35.4	0.024
W603348		60	1.5	13.0	60	33.0	0.014
W603349		61	2.5	14.1	49	33.9	<0.005
W603350		57	4.9	11.1	345	27.7	0.051
W603351		78	0.6	13.6	5100	54.6	0.262
W603352		55	49.1	13.0	556	28.9	0.431
W603353		58	1.1	15.0	43	36.2	<0.005
W603354		59	1.6	17.8	48	30.7	<0.005
W603355		59	1.6	13.2	51	28.5	<0.005
W603356		60	1.6	11.5	45	30.3	<0.005
W603357		64	2.0	13.0	72	31.8	<0.005
W603358		62	1.6	12.6	71	38.2	0.008
W603359		67	1.4	12.0	61	38.0	0.006
W603360		60	1.7	12.9	99	35.1	0.005
W603361		62	1.9	12.7	152	40.9	0.018

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239339

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA24	ME-MS61	ME-OG62	Pb-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239342

Project: Klaza

P.O. No.: 19-033

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239342

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603601		4.39			0.26	7.79	13.6	3350	1.36	0.36	0.55	0.11	58.5	6.0	8	11.05
W603602		1.50			0.89	7.12	38.8	1670	1.49	0.70	1.58	3.02	43.2	8.0	8	10.40
W603603		1.75			0.24	6.95	25.0	1690	1.76	0.27	2.74	0.14	39.6	4.9	8	14.20
W603604		3.23			0.19	6.96	10.8	2190	1.48	0.30	2.31	0.28	39.6	3.2	7	11.85
W603605		0.26	99	0.980	>100	5.76	265	640	0.93	4.99	1.53	26.8	20.1	12.0	67	0.88
W603606		2.89			3.19	7.21	143.5	730	1.76	0.65	1.96	7.21	46.2	4.0	6	21.6
W603607		3.63			2.37	5.75	531	610	1.15	0.23	2.12	8.51	37.7	9.9	7	14.85
W603608		3.87			3.10	5.99	273	640	1.39	0.33	2.54	5.53	44.3	9.5	6	12.00
W603609		1.27			5.36	5.21	498	360	1.38	0.35	3.24	11.70	28.7	13.0	5	9.44
W603610		3.62			5.41	5.45	219	600	1.32	0.56	3.83	15.75	39.2	22.7	5	20.2
W603611		3.30			0.31	7.01	21.6	1500	1.83	0.32	1.82	0.36	40.5	7.1	7	30.9
W603612		1.67			0.85	7.11	14.9	1750	2.01	0.31	2.14	0.48	36.3	5.7	7	34.6
W603613		1.57			0.18	7.38	13.9	1520	2.04	0.26	2.10	0.32	38.0	5.2	7	39.2
W603614		3.67			0.20	7.79	9.4	2830	1.54	0.40	1.44	0.27	37.4	5.8	8	35.9
W603615		8.01			1.16	6.85	19.6	810	2.50	0.37	2.21	0.57	35.9	9.5	8	26.7
W603616		4.29			1.95	7.22	28.2	1430	2.51	0.27	3.95	0.93	44.9	5.4	7	25.6
W603617		3.35			0.61	7.02	25.6	260	2.30	0.30	3.05	0.51	43.7	8.8	7	36.9
W603618		4.04			0.63	6.34	24.3	420	1.36	0.22	2.39	0.31	38.6	4.7	9	15.70
W603619		2.15			1.74	5.20	128.0	310	1.41	0.25	2.55	1.38	42.0	7.0	9	25.2
W603620		2.15			0.86	6.76	71.5	300	2.03	0.14	1.97	0.55	64.3	4.3	21	28.2
W603731		3.30			0.12	7.22	9.6	2220	2.02	0.22	1.98	0.25	36.0	6.4	8	22.1
W603732		3.61			0.33	7.22	10.2	2390	1.58	0.24	2.39	0.23	37.6	3.9	12	15.30
W603733		7.34			0.39	7.08	12.1	2310	1.73	0.26	2.39	3.44	42.0	7.4	11	12.55
W603734		3.57			0.58	6.70	23.9	2380	1.49	0.32	2.23	1.17	40.0	6.8	9	9.78
W603735		1.41			22.1	6.17	321	410	1.48	12.20	2.65	11.10	38.5	54.6	9	8.53
W603736		0.26	101	0.990	>100	5.61	257	620	0.76	4.98	1.49	26.6	19.65	11.6	66	0.86
W603737		3.43			0.27	6.62	16.7	2210	1.69	0.44	2.46	0.11	40.4	5.0	10	9.11
W603738		6.94			0.11	6.70	7.0	3020	1.58	0.23	3.09	0.14	36.1	7.4	9	9.61
W603739		6.15			0.17	7.66	8.0	2470	1.32	0.16	1.83	0.25	33.5	4.2	8	21.8
W603740		2.54			2.63	6.01	72.5	1000	1.45	0.15	2.21	3.64	45.6	7.4	6	20.5
W603741		2.14			2.15	6.45	163.0	440	1.38	0.18	1.77	1.84	38.2	7.2	7	16.30
W603742		3.91			0.50	7.70	20.8	1960	1.38	0.26	1.64	0.23	47.0	5.6	8	14.70
W603743		5.07			0.02	0.10	0.3	30	0.07	0.04	34.7	0.02	1.17	0.8	2	0.08
W603744		3.85			0.27	7.59	17.2	1890	1.49	0.29	1.52	0.31	55.5	7.4	7	14.55
W603745		3.47			0.62	7.51	50.1	1420	1.48	0.27	2.05	0.42	50.2	5.5	8	15.50
W603746		2.85			0.25	7.97	18.3	1740	1.43	0.20	1.31	0.30	48.4	3.5	8	15.10
W603747		1.12			0.88	7.19	405	1600	1.71	0.18	2.79	2.81	51.5	4.7	9	15.75
W603748		3.99			0.29	7.13	12.9	2560	1.51	0.26	2.04	0.12	42.9	3.7	8	11.80
W603749		<0.02			0.28	7.00	12.4	2600	1.50	0.27	2.05	0.14	40.3	3.6	8	11.55
W603750		5.21			0.27	7.69	19.2	2800	1.54	0.31	1.33	0.11	50.9	5.6	8	11.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239342

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603601		15.2	3.83	16.05	0.09	1.4	0.104	4.10	30.4	42.8	0.63	922	2.26	0.58	7.6	2.0
W603602		26.1	4.30	16.40	0.07	1.1	0.295	3.95	21.9	42.2	0.76	1820	1.83	0.11	7.1	1.9
W603603		13.1	3.17	14.85	0.07	1.2	0.085	3.71	20.8	29.1	0.89	1490	1.63	0.35	7.5	2.6
W603604		11.7	2.93	15.00	0.08	1.0	0.113	3.25	20.6	41.1	0.64	1140	1.91	0.49	7.1	1.9
W603605		6470	6.13	12.15	0.07	1.5	0.433	1.20	8.4	13.1	1.17	1820	22.1	1.71	3.2	30.3
W603606		68.3	3.89	14.60	0.07	1.0	0.299	3.35	26.4	190.5	0.72	2210	2.13	0.04	6.5	2.1
W603607		5.8	3.59	12.05	0.05	1.0	0.061	2.70	21.1	47.9	0.74	2570	5.13	0.03	5.2	2.5
W603608		16.9	3.92	13.55	0.07	1.0	0.105	2.93	24.5	23.1	0.83	4120	16.75	0.03	5.8	2.5
W603609		33.2	4.10	11.55	0.05	0.8	0.086	2.50	15.6	28.1	0.96	4020	16.40	0.03	4.7	3.1
W603610		21.3	4.33	11.55	0.05	0.8	0.128	2.37	21.1	43.0	1.13	3730	5.32	0.03	4.8	2.2
W603611		13.3	2.84	14.50	0.07	1.1	0.096	2.27	20.5	159.0	0.69	1210	1.44	0.04	7.3	1.7
W603612		31.2	3.37	15.25	0.07	1.0	0.073	2.86	17.8	324	0.76	1200	2.00	0.06	7.2	2.3
W603613		24.8	3.42	16.20	0.07	1.0	0.062	3.09	18.5	351	0.75	1130	3.22	0.06	7.8	2.3
W603614		21.8	3.28	16.70	0.07	1.0	0.096	2.89	18.6	124.0	0.60	1060	2.60	0.05	7.9	2.2
W603615		32.4	2.82	15.40	0.06	1.2	0.068	2.58	17.6	530	0.73	1360	3.41	0.04	7.7	2.3
W603616		23.8	3.49	16.55	0.08	1.2	0.091	2.32	23.1	640	1.27	2290	3.75	0.02	7.6	2.9
W603617		9.3	3.06	15.60	0.08	1.3	0.109	2.67	22.6	419	1.00	1660	1.58	0.03	7.4	2.3
W603618		4.1	2.66	13.45	0.07	1.1	0.075	2.89	20.4	235	0.80	1700	0.80	0.03	6.5	2.4
W603619		7.1	2.50	11.35	0.07	1.3	0.065	1.97	23.3	158.5	0.84	1960	3.57	0.03	5.4	3.3
W603620		12.9	2.34	16.65	0.09	4.2	0.035	1.93	33.6	490	0.72	1610	0.74	0.03	9.5	6.0
W603731		13.1	3.17	16.15	0.07	1.2	0.114	3.68	17.9	352	0.60	941	2.04	0.46	7.8	2.0
W603732		86.9	3.04	15.50	0.07	1.3	0.079	3.12	18.6	47.2	0.61	661	3.73	1.95	7.4	2.4
W603733		37.3	3.16	15.25	0.09	1.4	0.117	3.20	21.4	19.9	0.67	801	4.28	1.65	7.6	2.3
W603734		10.0	3.13	14.25	0.07	1.2	0.138	3.49	20.6	29.9	0.80	1340	1.70	0.42	7.0	2.2
W603735		38.5	5.91	13.30	0.08	1.0	0.281	3.10	20.5	16.8	0.83	4830	1.86	0.12	6.0	3.1
W603736		6340	5.95	11.80	0.06	1.5	0.436	1.17	8.3	13.1	1.14	1780	19.95	1.67	3.1	29.3
W603737		106.5	2.92	15.50	0.07	1.1	0.335	2.80	20.4	32.7	0.67	840	0.84	1.41	7.1	2.0
W603738		9.1	3.17	14.55	0.08	1.1	0.159	2.83	18.7	79.3	1.07	845	0.87	0.86	6.9	2.3
W603739		20.4	3.22	16.70	0.07	1.3	0.058	3.38	16.7	79.0	0.68	775	1.32	0.10	8.2	2.3
W603740		28.7	2.43	12.50	0.07	1.2	0.081	2.07	25.7	129.0	0.78	1810	5.35	0.02	5.9	2.8
W603741		15.8	2.91	13.50	0.07	0.9	0.060	2.35	19.9	139.0	0.62	1910	8.35	0.02	6.0	3.2
W603742		47.6	2.98	15.50	0.13	1.2	0.083	3.10	25.7	117.5	0.66	930	8.09	0.16	7.5	2.2
W603743		2.7	0.14	0.31	0.11	0.1	0.006	0.03	1.2	1.5	1.94	120	0.11	0.04	0.2	0.8
W603744		19.0	3.24	16.00	0.17	1.2	0.117	3.49	30.4	103.5	0.66	884	5.98	0.15	7.7	2.2
W603745		55.6	3.06	15.50	0.16	1.1	0.088	3.65	27.1	110.0	0.76	1060	4.66	0.06	7.7	2.4
W603746		18.9	2.89	15.20	0.14	1.2	0.056	3.69	26.6	151.5	0.56	689	2.99	0.09	7.5	1.9
W603747		24.4	3.32	15.15	0.15	1.2	0.096	3.88	28.4	32.7	0.85	2790	2.88	0.09	8.0	2.5
W603748		55.0	3.27	15.40	0.14	1.3	0.106	3.60	21.7	47.2	0.60	809	1.76	1.26	8.2	2.0
W603749		45.2	3.30	15.15	0.14	1.2	0.111	3.62	20.7	46.0	0.59	813	1.60	1.27	8.2	1.9
W603750		18.1	3.53	15.70	0.16	1.3	0.087	4.05	28.6	29.2	0.65	1140	2.24	0.88	8.3	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239342

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603601		560	19.2	178.0	<0.002	0.28	12.30	9.8	<1	3.0	127.5	0.74	<0.05	18.65	0.235	2.04
W603602		530	205	197.0	<0.002	0.78	18.00	9.0	<1	4.5	118.5	0.63	<0.05	12.70	0.220	2.64
W603603		560	14.1	138.5	<0.002	0.17	8.87	9.9	<1	2.3	169.5	0.68	<0.05	10.15	0.246	2.60
W603604		580	13.2	130.0	<0.002	0.06	10.85	9.0	<1	2.1	152.0	0.60	<0.05	9.62	0.246	2.13
W603605		470	>10000	30.7	0.010	2.43	471	12.7	1	2.0	202	0.21	1.31	1.94	0.259	0.49
W603606		540	198.5	182.5	<0.002	1.51	59.8	9.3	<1	2.7	161.5	0.56	<0.05	11.75	0.226	2.43
W603607		390	314	143.5	0.002	1.81	51.4	7.8	1	2.1	97.3	0.44	<0.05	9.29	0.185	2.06
W603608		440	119.0	178.5	0.002	2.36	54.5	8.2	1	1.9	94.5	0.48	<0.05	10.25	0.196	2.46
W603609		300	367	156.0	0.002	2.37	88.3	6.7	<1	2.5	126.5	0.38	0.06	8.03	0.163	2.25
W603610		370	599	136.5	0.002	1.81	61.3	7.3	1	1.9	151.5	0.41	0.15	8.72	0.170	1.89
W603611		570	14.2	91.3	<0.002	0.23	27.5	9.6	<1	1.9	229	0.62	<0.05	10.15	0.250	1.53
W603612		600	11.4	113.5	<0.002	0.08	34.3	9.9	<1	2.0	239	0.59	<0.05	9.79	0.252	1.82
W603613		640	11.5	121.0	<0.002	0.09	27.9	10.5	<1	2.0	250	0.63	<0.05	9.98	0.270	2.02
W603614		620	12.6	122.0	<0.002	0.05	23.2	10.9	1	2.2	180.0	0.63	<0.05	10.75	0.272	1.84
W603615		620	18.2	91.0	<0.002	0.14	44.8	9.1	<1	1.8	285	0.71	<0.05	10.90	0.241	1.92
W603616		840	18.6	87.0	<0.002	0.15	43.0	9.9	<1	1.8	442	0.59	<0.05	9.61	0.259	2.30
W603617		680	19.3	111.0	<0.002	0.11	39.3	9.8	<1	2.1	316	0.63	<0.05	10.60	0.262	2.13
W603618		510	17.1	108.5	<0.002	0.19	30.9	8.7	<1	1.5	182.0	0.57	<0.05	9.85	0.222	2.27
W603619		440	70.7	107.5	<0.002	0.55	78.7	7.5	<1	1.6	285	0.42	<0.05	9.12	0.184	1.58
W603620		1180	30.9	74.5	<0.002	0.09	66.6	5.7	<1	1.3	1200	0.61	<0.05	8.09	0.336	1.40
W603731		580	15.5	140.5	<0.002	0.07	23.1	9.6	<1	3.1	231	0.66	<0.05	11.25	0.245	1.98
W603732		590	32.3	115.0	<0.002	0.03	15.65	9.5	1	3.0	348	0.59	<0.05	9.75	0.250	1.43
W603733		520	123.0	133.0	0.002	0.14	5.20	9.1	<1	2.4	287	0.72	<0.05	11.55	0.234	1.70
W603734		510	67.4	155.5	<0.002	0.35	10.15	8.6	1	2.2	141.0	0.64	<0.05	10.85	0.221	2.29
W603735		450	665	174.5	<0.002	4.46	42.5	8.1	1	3.1	86.8	0.52	0.91	10.50	0.192	2.33
W603736		470	>10000	30.1	0.010	2.36	468	12.2	2	1.9	197.5	0.21	1.25	1.88	0.252	0.49
W603737		530	11.6	130.0	<0.002	0.05	27.0	8.5	<1	2.5	228	0.63	<0.05	9.81	0.225	1.89
W603738		540	14.1	114.5	<0.002	0.08	8.35	8.9	<1	2.1	268	0.60	<0.05	9.75	0.232	1.72
W603739		630	16.4	120.5	<0.002	0.03	15.40	10.4	<1	2.6	175.0	0.65	<0.05	10.00	0.275	1.73
W603740		390	103.0	110.5	<0.002	1.02	58.4	7.9	<1	1.8	206	0.54	<0.05	11.90	0.189	1.81
W603741		460	60.5	103.0	<0.002	1.44	57.2	8.4	<1	2.2	208	0.45	<0.05	9.68	0.218	2.64
W603742		580	17.8	134.0	<0.002	0.18	19.70	10.0	<1	2.3	172.5	0.58	<0.05	12.50	0.250	2.06
W603743		70	<0.5	1.0	<0.002	<0.01	0.13	0.2	1	<0.2	80.9	<0.05	<0.05	0.11	0.006	<0.02
W603744		560	21.3	152.0	<0.002	0.21	18.60	10.0	<1	2.4	170.0	0.63	<0.05	13.55	0.235	2.29
W603745		550	31.8	152.5	<0.002	0.27	21.0	9.6	<1	2.4	160.5	0.62	<0.05	12.95	0.243	2.99
W603746		580	15.4	155.5	<0.002	0.08	13.95	9.6	<1	2.4	233	0.64	<0.05	14.45	0.244	2.04
W603747		570	62.1	180.0	<0.002	1.59	30.2	9.8	<1	2.4	161.0	0.65	<0.05	12.05	0.237	2.86
W603748		600	15.8	147.5	<0.002	0.06	12.90	9.9	<1	2.5	221	0.68	<0.05	11.20	0.247	2.12
W603749		590	15.4	140.5	<0.002	0.06	11.75	9.5	<1	2.5	219	0.69	<0.05	10.30	0.246	2.06
W603750		520	14.4	203	<0.002	0.23	9.47	9.5	<1	2.4	154.0	0.79	<0.05	17.30	0.221	2.26

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239342

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603601		4.4	67	3.3	15.0	61	36.0	<0.005
W603602		6.4	67	9.2	12.7	297	30.3	0.056
W603603		5.3	68	2.8	15.0	56	35.5	<0.005
W603604		3.5	63	2.8	47.9	57	31.8	<0.005
W603605		1.4	85	0.6	16.9	5370	57.9	0.288
W603606		5.4	63	5.2	14.0	653	31.8	0.044
W603607		6.0	54	2.7	10.4	546	27.9	0.164
W603608		12.8	55	4.8	13.6	367	30.5	0.132
W603609		23.2	51	5.1	11.9	727	27.8	0.382
W603610		9.9	54	4.8	19.1	1300	26.0	0.160
W603611		3.5	63	3.6	14.3	81	33.2	0.006
W603612		2.3	69	2.4	15.0	102	29.3	<0.005
W603613		2.6	71	2.7	14.9	100	30.4	<0.005
W603614		2.5	75	2.4	15.4	97	31.4	<0.005
W603615		3.4	64	3.2	13.2	108	37.4	0.007
W603616		4.4	70	3.6	16.2	144	37.3	0.018
W603617		4.8	76	3.9	15.8	96	43.6	0.010
W603618		8.3	61	2.9	13.8	57	33.2	0.008
W603619		20.7	57	3.2	15.5	102	51.5	3.73
W603620		12.9	62	4.5	20.5	83	199.0	0.012
W603731		3.7	61	3.7	14.2	73	39.8	0.072
W603732		3.2	66	3.1	14.9	63	41.1	0.007
W603733		4.4	61	2.8	16.6	309	41.8	0.011
W603734		3.1	58	2.8	13.2	167	37.2	0.014
W603735		6.3	60	7.5	14.8	872	30.2	0.676
W603736		1.3	82	0.5	15.7	5280	69.7	0.296
W603737		2.7	62	2.6	13.9	66	33.4	<0.005
W603738		2.5	60	2.6	15.0	64	35.1	<0.005
W603739		2.2	71	2.7	15.1	67	42.7	<0.005
W603740		5.9	53	3.7	13.6	249	35.5	0.052
W603741		4.4	58	6.7	12.6	135	32.2	0.070
W603742		2.5	64	3.8	14.1	68	35.1	0.016
W603743		0.1	1	0.1	2.2	4	1.8	<0.005
W603744		4.4	62	3.8	14.2	74	34.5	0.006
W603745		6.0	61	3.6	13.5	79	32.5	0.006
W603746		4.2	62	3.1	13.5	87	34.2	<0.005
W603747		4.3	63	4.3	16.0	211	36.2	0.081
W603748		3.1	65	2.6	12.9	67	40.6	<0.005
W603749		2.8	65	2.7	12.3	67	32.6	<0.005
W603750		3.3	57	2.9	13.7	58	35.5	0.006

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239342

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239345

Project: Klaza

P.O. No.: 19-034

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239345

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W593200		1.29		11.10	6.01	3280	720	1.30	21.3	0.64	2.11	36.2	5.4	10	7.49	250
W593201		3.96		0.72	6.72	22.9	2040	1.53	0.85	2.49	0.95	41.3	8.1	11	11.75	15.7
W593202		4.96		0.09	7.05	11.3	2200	1.51	0.15	2.64	0.18	45.2	7.7	12	8.39	8.3
W593203		2.29		0.11	6.79	13.1	2110	1.63	0.11	2.63	0.13	43.0	6.8	20	11.20	5.0
W593204		4.43		0.07	6.99	7.6	2540	1.52	0.11	2.44	0.11	44.8	6.9	13	11.65	7.0
W593205		3.04		0.31	7.07	21.4	2190	1.73	0.35	2.25	0.46	47.6	9.5	10	12.30	10.4
W593206		1.76		0.21	6.94	13.9	2750	1.47	0.55	1.72	0.11	42.4	9.2	11	13.20	27.1
W593207		3.18		0.15	7.17	11.3	2340	1.69	0.33	2.51	0.17	47.1	7.2	11	9.32	14.9
W593208		0.27		38.4	5.53	2450	1160	1.20	34.6	1.60	44.7	39.6	17.2	21	10.05	1110
W593209		4.57		0.19	6.95	11.8	2310	1.45	0.46	2.57	0.12	40.1	7.0	11	8.72	17.8
W593210		4.06		0.29	7.27	17.2	2350	1.38	0.60	1.75	0.78	45.3	6.8	11	9.87	31.8
W593211		2.66		0.34	6.14	30.5	1590	1.76	0.82	2.93	0.18	35.5	4.2	10	13.95	29.6
W593212		2.61		11.55	6.40	177.0	460	1.43	12.40	0.64	5.08	38.3	18.8	11	6.78	57.6
W593213		2.11		5.85	6.38	159.0	600	1.52	12.90	0.69	3.49	47.8	15.4	8	13.95	101.0
W593214		3.31		0.76	6.92	65.5	1710	1.48	1.26	1.80	1.20	41.5	6.6	10	17.75	21.3
W593215		5.14		0.02	0.26	0.2	30	0.15	2.28	31.3	0.02	3.66	0.6	3	0.12	3.4
W593216		2.68		0.87	6.98	41.3	1600	1.21	1.50	1.22	0.85	54.1	11.9	8	26.9	31.7
W593217		2.69		0.14	7.06	11.0	1430	1.17	0.34	1.77	0.28	36.3	2.7	9	10.05	12.0
W593218		1.07		0.24	6.65	15.1	1390	1.32	0.71	1.70	0.53	36.2	3.9	7	8.93	25.1
W593219		0.97		0.50	7.10	60.0	1280	1.54	1.66	1.58	0.41	52.3	6.0	9	27.2	59.0
W593220		0.59		0.49	7.17	55.3	1110	1.44	1.41	1.66	0.38	51.0	6.6	8	24.6	55.0
W593221		1.27		0.39	6.81	37.8	740	1.38	1.16	1.93	0.37	56.5	5.9	8	16.55	72.7
W593222		2.39		0.12	7.28	12.8	1050	1.18	0.65	0.69	0.10	46.2	5.1	9	9.97	9.9
W593223		1.63		0.33	7.30	45.4	1480	1.51	1.00	1.07	0.23	63.2	7.0	9	26.7	29.1
W593224		3.35		0.31	7.22	19.5	1870	1.46	0.63	1.58	0.22	40.9	7.0	9	15.65	13.1
W593225		2.87		0.21	6.75	12.2	1970	1.60	0.41	2.64	0.22	40.8	5.8	9	15.75	15.8
W593226		3.44		0.18	6.89	14.9	2650	1.72	0.64	2.51	0.22	41.5	6.6	10	12.50	20.2
W593227		<0.02		0.22	6.91	13.9	2720	1.49	0.66	2.62	0.20	41.3	5.9	9	11.50	16.8
W593228		1.39		0.08	7.15	14.9	1280	1.45	0.24	2.38	0.15	40.5	3.8	8	32.0	13.4
W593229		1.68		0.12	6.90	11.0	2240	1.05	0.45	1.39	0.13	47.1	7.4	8	10.75	23.3
W593230		1.57		0.13	7.23	10.5	1790	1.60	0.67	2.05	0.10	46.9	15.1	8	14.05	4.9
W593231		3.03		0.19	6.76	12.8	1890	1.55	0.42	3.02	0.22	39.3	5.1	9	11.95	10.2
W593232		0.29	104	100.0	5.29	245	540	0.68	4.79	1.41	24.5	18.90	10.9	60	0.82	5880
W593233		4.88		0.15	6.87	5.4	2290	1.50	0.15	2.82	0.12	42.3	5.9	9	7.93	8.1
W593234		2.85		0.27	7.43	381	2040	1.43	0.62	2.34	0.27	44.8	6.4	8	8.67	12.2
W593235		0.94		0.38	7.09	27.3	2320	1.31	0.54	1.98	0.22	39.0	11.8	8	13.95	144.0
W593236		2.62		0.08	7.17	7.0	2350	1.56	0.13	2.15	0.12	37.8	6.3	10	10.15	6.0
W593237		1.45		0.16	7.00	8.4	2220	1.40	0.21	2.60	0.11	42.0	7.4	8	9.90	4.5
W593238		3.05		0.14	6.90	7.8	2470	1.47	0.18	3.01	0.12	41.8	6.0	10	8.68	4.6
W593239		3.55		0.32	7.13	221	2200	1.58	0.67	2.81	0.78	46.3	6.0	10	10.85	18.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239345

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W593200		8.38	14.60	0.11	0.8	0.417	2.80	18.5	6.8	0.58	1200	1.40	0.04	5.6	2.3	430
W593201		3.19	16.40	0.13	1.0	0.113	2.40	20.5	13.5	0.68	807	1.55	1.78	7.7	3.4	560
W593202		2.86	17.15	0.13	1.2	0.042	2.38	22.2	12.9	0.79	561	2.09	2.20	8.0	2.7	590
W593203		2.60	16.85	0.14	1.1	0.041	2.44	21.2	11.7	0.67	547	1.84	2.13	7.9	2.5	520
W593204		2.69	15.95	0.14	1.2	0.037	2.59	22.4	13.1	0.73	515	1.30	2.13	7.8	2.3	530
W593205		2.81	17.15	0.14	1.3	0.068	2.63	24.9	25.2	0.71	548	1.55	1.40	8.4	2.3	560
W593206		2.79	16.95	0.12	1.0	0.058	2.25	22.2	21.3	0.70	496	1.76	1.36	7.7	2.8	570
W593207		3.04	16.45	0.13	1.1	0.057	2.46	24.0	11.9	0.73	593	1.46	2.18	8.1	2.3	590
W593208		8.55	14.50	0.12	0.9	1.540	2.47	20.1	16.7	0.64	2160	16.95	0.06	4.8	15.6	420
W593209		2.76	16.60	0.12	1.0	0.106	2.55	19.9	10.2	0.62	579	1.54	1.97	7.5	2.2	560
W593210		2.85	16.95	0.13	1.1	0.135	2.84	23.2	16.6	0.66	549	1.76	1.12	7.7	2.1	570
W593211		2.55	15.95	0.13	1.1	0.254	2.98	16.9	15.6	0.43	900	2.36	0.67	7.2	1.5	540
W593212		5.55	16.95	0.13	0.9	0.548	2.97	20.3	7.4	0.53	786	1.49	0.07	5.7	2.7	420
W593213		5.31	15.40	0.10	0.9	0.665	2.94	24.8	9.9	0.46	753	2.40	0.04	5.5	3.6	450
W593214		3.01	15.65	0.10	1.1	0.286	2.85	21.3	11.1	0.66	848	1.40	0.04	7.5	2.9	550
W593215		0.13	0.96	0.09	0.2	<0.005	0.10	2.3	1.2	1.68	109	<0.05	0.12	0.7	0.3	60
W593216		2.83	14.65	0.12	1.0	0.410	1.90	28.9	36.3	0.50	743	1.00	0.03	6.4	2.4	510
W593217		2.24	16.85	0.13	1.1	0.092	1.28	17.6	55.4	0.52	598	2.17	0.02	8.4	1.2	560
W593218		2.30	14.65	0.11	0.9	0.256	1.57	18.8	48.2	0.58	722	1.67	0.02	7.4	1.5	510
W593219		3.86	17.00	0.11	1.0	0.336	2.75	28.3	38.4	0.74	1100	1.98	0.04	7.5	2.4	540
W593220		3.79	16.35	0.11	0.9	0.222	2.58	28.6	65.1	0.74	1060	1.50	0.03	7.1	2.4	530
W593221		3.40	17.25	0.13	1.0	0.123	2.36	30.7	32.1	0.74	1180	2.12	0.03	7.2	2.5	520
W593222		2.36	16.45	0.11	1.2	0.065	1.57	25.2	54.3	0.36	570	1.06	0.03	8.3	2.1	550
W593223		2.95	16.30	0.12	1.0	0.211	2.59	35.0	24.1	0.55	738	2.32	0.04	7.5	3.3	600
W593224		3.32	18.20	0.12	1.1	0.153	2.63	21.0	39.0	0.50	641	4.77	0.21	8.5	2.3	580
W593225		2.63	17.00	0.13	1.1	0.088	2.41	20.5	28.4	0.58	538	2.43	1.57	8.1	2.3	550
W593226		2.70	17.10	0.13	1.1	0.096	2.45	21.1	17.5	0.49	487	3.53	1.37	8.4	2.2	540
W593227		2.83	14.50	0.09	1.0	0.100	2.55	21.1	15.1	0.50	504	3.20	1.43	7.5	1.9	580
W593228		2.79	14.90	0.09	0.9	0.081	2.45	22.1	26.9	0.61	465	3.21	0.23	7.4	1.7	600
W593229		3.24	13.35	0.09	0.8	0.098	2.19	24.8	26.6	0.61	373	3.38	0.18	6.5	2.5	540
W593230		3.95	14.80	0.09	0.8	0.106	1.98	23.7	16.5	0.92	642	0.61	1.75	7.1	2.5	590
W593231		2.76	14.70	0.09	1.0	0.135	2.65	20.1	15.7	0.58	615	2.83	1.63	7.0	2.0	530
W593232		5.56	10.60	0.09	1.3	0.425	1.09	8.1	11.9	1.07	1640	18.30	1.56	2.8	26.2	440
W593233		2.79	14.10	0.09	0.9	0.041	2.69	20.8	10.4	0.74	600	1.24	2.02	6.9	2.0	550
W593234		3.07	15.45	0.10	1.0	0.051	2.70	23.5	13.3	0.73	474	1.47	1.78	7.7	2.1	620
W593235		3.37	14.90	0.09	1.0	0.081	2.20	20.3	22.7	0.80	479	1.51	1.04	7.4	3.3	570
W593236		2.91	14.95	0.09	1.0	0.045	2.52	19.0	15.0	0.73	418	1.59	2.03	7.3	2.1	590
W593237		2.97	14.15	0.09	1.0	0.047	2.56	22.3	14.6	0.85	548	1.92	1.53	6.9	2.3	540
W593238		2.85	14.70	0.09	0.9	0.045	2.71	19.9	10.4	0.80	753	1.65	2.21	7.1	2.0	580
W593239		2.81	14.50	0.10	1.1	0.057	2.54	23.8	14.2	0.90	604	2.90	1.87	7.3	2.0	580

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239345

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W593200		141.0	168.5	<0.002	5.74	27.2	8.5	1	12.4	24.6	0.44	0.29	9.82	0.177	1.96	3.0
W593201		45.8	95.6	<0.002	0.45	2.99	10.3	<1	2.3	321	0.62	0.13	11.45	0.235	1.25	3.8
W593202		18.1	87.5	<0.002	0.03	1.66	10.8	<1	1.7	378	0.64	<0.05	11.05	0.255	1.02	3.4
W593203		18.8	89.7	<0.002	0.07	2.82	9.7	1	1.8	347	0.67	<0.05	11.25	0.232	1.08	3.9
W593204		18.3	93.8	<0.002	0.08	1.65	9.8	<1	1.5	358	0.67	<0.05	12.35	0.236	1.02	4.6
W593205		61.7	113.0	<0.002	0.23	3.51	11.0	<1	2.2	277	0.73	0.06	12.85	0.244	1.29	4.7
W593206		16.0	105.5	<0.002	0.32	5.88	10.2	<1	3.0	242	0.62	0.09	13.00	0.246	1.28	4.7
W593207		22.3	85.7	<0.002	0.14	2.93	10.7	<1	2.3	379	0.66	<0.05	11.40	0.256	1.06	3.2
W593208		1590	155.5	0.002	7.37	102.0	8.6	2	10.4	63.2	0.40	0.72	9.53	0.154	2.14	5.8
W593209		17.7	89.1	<0.002	0.23	3.25	10.0	1	2.4	339	0.62	0.09	10.60	0.237	1.16	3.8
W593210		136.5	111.5	<0.002	0.26	5.65	10.2	<1	4.4	214	0.67	0.07	12.45	0.243	1.37	3.6
W593211		19.1	123.0	<0.002	0.34	6.92	8.8	1	2.7	173.5	0.58	0.16	9.71	0.215	2.05	4.5
W593212		413	217	<0.002	3.88	6.27	8.5	1	8.1	29.6	0.51	4.84	12.20	0.166	2.39	4.9
W593213		319	196.5	<0.002	3.98	11.25	8.2	1	7.4	19.4	0.42	0.90	10.75	0.169	2.16	4.8
W593214		73.6	114.0	0.002	0.78	9.21	9.9	<1	3.1	75.6	0.64	0.13	11.70	0.227	2.17	6.5
W593215		1.4	3.4	<0.002	<0.01	0.29	0.2	1	0.2	73.9	0.08	<0.05	0.29	0.006	0.04	0.4
W593216		146.0	116.0	<0.002	0.84	20.1	8.7	<1	3.8	64.3	0.58	0.15	13.50	0.199	1.44	3.8
W593217		11.5	45.3	<0.002	0.11	15.75	9.4	<1	2.7	92.5	0.77	<0.05	11.85	0.251	0.88	1.9
W593218		33.0	61.5	<0.002	0.29	19.45	7.8	<1	3.8	68.2	0.67	0.07	11.80	0.222	1.08	1.9
W593219		16.3	139.0	<0.002	0.87	19.35	10.6	1	4.8	46.1	0.64	0.33	13.50	0.229	2.03	3.7
W593220		16.6	137.0	<0.002	0.90	18.50	10.2	<1	4.6	47.2	0.57	0.19	13.50	0.224	1.78	3.6
W593221		13.6	89.1	<0.002	0.27	30.8	9.9	<1	2.9	49.9	0.62	<0.05	11.65	0.222	1.79	3.4
W593222		10.3	81.6	<0.002	0.17	19.20	10.0	<1	2.2	77.1	0.76	<0.05	15.40	0.234	1.03	2.6
W593223		14.9	129.0	<0.002	0.52	19.30	11.2	<1	3.3	55.4	0.66	0.17	14.20	0.233	2.10	4.6
W593224		18.8	98.6	<0.002	0.17	11.60	11.0	<1	3.6	95.3	0.70	0.07	12.55	0.250	1.55	3.9
W593225		32.5	88.9	<0.002	0.16	4.63	10.8	<1	2.4	283	0.64	0.10	11.90	0.242	1.28	4.0
W593226		21.4	87.8	<0.002	0.19	7.73	10.5	<1	3.4	258	0.75	0.07	11.60	0.243	1.15	3.8
W593227		19.4	76.6	<0.002	0.21	6.79	8.8	<1	3.1	266	0.64	0.13	9.76	0.252	1.04	2.8
W593228		13.0	78.1	<0.002	0.06	12.20	9.1	<1	4.6	82.5	0.59	<0.05	10.25	0.268	1.17	5.5
W593229		18.4	79.4	<0.002	0.07	18.30	8.4	<1	4.7	82.9	0.51	<0.05	11.20	0.235	0.90	2.1
W593230		15.3	72.0	<0.002	0.10	6.51	9.1	<1	2.6	314	0.56	<0.05	10.65	0.256	0.95	2.7
W593231		25.8	82.9	<0.002	0.15	3.73	8.3	1	2.0	282	0.59	0.11	10.30	0.238	1.08	2.8
W593232		9990	26.7	0.008	2.23	427	10.6	2	1.7	185.0	0.18	1.12	1.75	0.228	0.45	1.2
W593233		20.2	81.0	<0.002	0.02	2.14	8.5	<1	1.8	355	0.57	<0.05	10.30	0.245	0.88	2.7
W593234		27.5	96.3	<0.002	0.19	3.35	9.9	<1	2.3	291	0.60	<0.05	11.60	0.266	1.01	2.7
W593235		17.1	80.2	<0.002	0.44	14.65	8.6	1	3.0	161.0	0.62	0.25	10.55	0.251	0.97	3.6
W593236		17.0	80.7	<0.002	0.01	3.47	8.9	<1	1.9	349	0.57	<0.05	9.35	0.257	0.94	2.3
W593237		17.2	84.1	<0.002	0.08	3.74	8.8	<1	2.4	272	0.58	<0.05	10.30	0.235	0.99	3.0
W593238		15.2	84.8	<0.002	0.03	1.84	9.1	<1	2.0	413	0.55	<0.05	9.41	0.250	1.00	2.6
W593239		35.6	84.8	<0.002	0.07	3.03	8.9	1	2.2	365	0.60	0.22	10.30	0.247	1.02	2.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239345

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W593200		52	4.9	7.9	255	20.8	1.300
W593201		66	1.8	15.6	109	27.7	0.008
W593202		71	1.6	16.3	44	31.4	<0.005
W593203		63	1.2	15.5	38	31.0	<0.005
W593204		64	1.1	16.0	36	33.0	<0.005
W593205		69	2.0	16.8	60	33.4	0.013
W593206		64	2.7	15.1	51	27.8	0.008
W593207		70	2.1	15.8	49	28.2	<0.005
W593208		53	7.0	9.9	3110	24.5	1.710
W593209		68	1.6	15.1	46	27.9	0.008
W593210		69	2.7	14.8	98	28.2	0.007
W593211		62	1.6	12.1	50	29.9	0.010
W593212		58	3.0	8.4	394	25.2	0.336
W593213		52	4.2	9.8	295	23.0	0.317
W593214		62	2.9	13.7	116	28.2	0.033
W593215		1	<0.1	3.1	5	3.7	<0.005
W593216		59	3.9	11.4	92	23.5	0.017
W593217		62	7.8	12.0	50	28.5	<0.005
W593218		49	8.6	10.9	62	26.8	0.007
W593219		65	3.8	14.9	64	24.4	0.014
W593220		62	3.0	14.6	64	24.3	0.032
W593221		66	2.7	15.5	75	25.3	0.009
W593222		53	3.6	12.0	46	31.3	<0.005
W593223		69	3.1	13.9	59	27.8	0.014
W593224		67	4.1	14.1	53	30.3	0.019
W593225		67	1.5	15.7	51	29.2	0.006
W593226		66	1.8	15.7	47	28.7	0.011
W593227		68	1.7	14.8	51	25.6	0.010
W593228		71	3.5	12.2	46	24.9	0.017
W593229		64	9.7	16.1	42	22.4	0.007
W593230		71	2.5	13.3	51	24.3	<0.005
W593231		64	2.0	14.2	47	27.8	0.005
W593232		76	0.5	13.9	4890	45.0	0.271
W593233		65	1.9	14.4	40	27.6	<0.005
W593234		71	3.5	15.3	49	29.1	0.085
W593235		65	4.3	14.4	51	28.0	0.018
W593236		68	3.4	12.2	40	27.0	<0.005
W593237		65	6.0	15.4	39	26.0	0.006
W593238		69	1.4	16.0	36	27.3	<0.005
W593239		65	4.1	15.7	99	28.8	0.071

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239345

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE WH19239349

Project: Klaza

P.O. No.: 19-039

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239349

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603362		1.43			2.26	5.32	231	1900	1.06	1.48	2.14	2.65	29.4	168.5	8	7.20
W603363		1.95			0.37	7.51	47.0	1460	1.49	0.15	2.11	0.43	51.6	9.8	6	16.25
W603364		2.95			0.10	7.25	9.4	2780	1.48	0.29	1.91	0.10	57.6	4.4	9	9.98
W603365		4.93			0.07	7.31	7.6	2280	1.53	0.15	1.92	0.09	44.9	6.0	7	8.43
W603366		1.16			13.65	5.94	73.3	1400	1.70	0.22	4.07	14.25	44.2	6.5	5	18.50
W603367		2.89			0.22	7.45	14.4	3070	1.44	0.11	2.00	0.22	44.0	3.6	7	12.80
W603368		2.61			0.13	7.61	5.9	3310	1.50	0.18	2.05	0.14	49.0	8.8	8	6.61
W603369		0.26	102	0.996	>100	5.52	252	560	0.68	5.65	1.45	24.9	19.35	11.6	60	0.87
W603370		3.33			0.14	7.39	10.1	2230	1.55	0.08	2.11	0.17	40.6	5.7	7	13.65
W603371		1.91			1.20	6.88	95.1	3640	1.44	0.10	4.01	1.23	47.2	7.6	7	16.00
W603372		3.19			0.07	7.36	7.5	1670	1.15	0.05	1.84	0.13	40.5	5.6	6	17.55
W603373		3.10			0.14	7.09	9.7	1720	1.50	0.24	2.33	0.03	28.7	5.7	8	6.19
W603374		2.24			0.22	5.80	14.7	1030	1.62	0.38	4.45	0.07	34.7	11.7	6	10.15
W603375		<0.02			0.24	6.26	15.7	1080	1.56	0.40	4.63	0.08	40.3	12.6	6	10.30
W603376		3.67			0.39	6.29	19.2	1330	1.59	0.58	3.99	0.30	133.0	26.7	7	14.10
W603377		3.66			0.34	6.69	12.6	2220	1.46	0.61	3.15	0.58	23.2	6.8	8	13.60
W603378		4.17			0.72	7.07	103.5	1460	1.55	0.64	2.15	5.02	41.3	9.1	7	19.40
W603379		3.16			0.22	6.85	9.3	1330	1.43	0.34	1.97	0.12	39.6	22.6	9	6.10
W603380		0.26			41.2	5.77	2640	290	1.15	38.7	1.70	46.4	33.8	16.8	22	9.92
W603381		1.83			0.33	6.80	7.1	2190	1.32	0.24	1.83	0.10	44.9	13.0	7	7.97
W603382		1.27			0.10	6.56	14.2	1090	1.73	0.19	2.76	0.11	50.6	8.5	6	16.05
W603383		3.06			1.36	6.88	637	1010	1.53	0.24	2.84	6.09	48.1	4.1	8	10.75
W603384		1.56			4.53	6.47	1300	180	1.43	1.08	0.62	35.8	40.5	11.3	6	22.2
W603385		3.99			0.54	6.94	171.0	1330	1.60	0.32	2.66	1.54	48.9	4.4	9	14.05
W603386		1.59			0.21	7.43	29.5	1540	1.65	0.18	2.29	0.33	54.9	11.1	6	15.40
W603387		1.48			0.18	7.25	29.2	1460	1.68	0.17	2.26	0.22	53.8	11.6	6	14.90
W603388		2.35			54.2	6.51	224	460	1.27	89.2	1.86	7.11	42.3	24.9	6	7.29
W603389		1.90			0.33	7.01	12.8	1640	1.66	0.76	2.58	0.16	40.9	28.2	7	11.20
W603390		1.52			0.24	7.31	10.1	2300	1.86	0.52	2.54	0.18	37.4	11.0	7	11.50
W603391		3.39			0.26	7.50	7.9	3560	1.45	0.60	1.94	0.13	41.1	13.7	9	5.35
W603392		1.21			0.18	7.44	15.6	3430	1.50	0.27	1.74	0.12	37.2	7.3	7	8.08
W603393		2.10			0.29	6.78	53.4	2240	1.68	0.46	3.30	0.25	48.1	18.3	7	14.80
W603394		1.48			0.26	7.63	32.4	940	2.43	0.48	2.16	0.16	49.7	9.8	6	64.4
W603395		1.50			5.19	6.27	199.0	1130	1.49	0.59	4.13	15.90	46.9	38.5	3	18.60
W603396		1.97			0.35	7.89	69.3	1360	1.88	0.17	3.19	0.26	41.4	4.9	4	22.0
W603397		2.19			0.37	7.74	52.4	1000	1.93	0.68	3.12	0.29	32.7	13.4	5	17.75
W603398		2.16			0.73	6.81	160.0	560	1.62	0.55	2.75	1.00	42.4	11.9	6	19.25
W603399		5.21			0.01	0.41	0.5	40	0.30	0.12	32.4	<0.02	1.29	1.2	2	0.12
W603400		2.57			0.35	7.57	76.2	4260	1.27	0.39	2.09	0.29	45.9	7.3	5	14.80
W603401		3.78			0.44	7.16	25.7	7560	1.45	0.31	2.23	0.16	40.5	12.9	9	10.85

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239349

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603362		9.3	6.79	12.70	0.10	0.9	0.270	2.55	15.0	16.3	0.66	3230	6.68	0.02	5.3	7.2
W603363		2.8	2.79	15.75	0.13	1.3	0.074	2.97	31.0	156.0	0.75	2130	2.28	0.05	8.1	2.4
W603364		2.2	3.21	15.70	0.13	1.4	0.088	3.02	34.1	26.2	0.75	581	0.31	2.16	7.8	2.1
W603365		2.4	3.08	15.30	0.14	1.4	0.051	3.08	24.1	22.1	0.73	472	0.50	2.24	7.8	2.0
W603366		14.5	3.38	12.75	0.14	1.2	0.035	2.66	24.5	104.0	1.28	2360	0.71	0.10	6.4	2.2
W603367		2.7	2.73	15.65	0.14	1.4	0.035	3.55	23.3	31.7	0.68	732	0.89	0.78	8.2	1.6
W603368		3.0	3.53	15.85	0.16	1.3	0.053	3.34	27.1	14.0	0.81	508	2.37	2.47	8.2	2.3
W603369		6360	5.88	11.45	0.10	1.5	0.437	1.15	9.4	12.7	1.12	1740	19.65	1.65	3.3	27.6
W603370		6.3	2.68	15.50	0.13	1.3	0.043	3.17	21.0	28.3	0.65	538	0.96	1.99	7.9	2.0
W603371		3.4	2.61	13.40	0.14	1.1	0.036	3.28	26.0	68.2	1.09	2410	0.59	0.07	6.7	1.9
W603372		4.2	2.49	14.60	0.13	1.3	0.034	2.35	21.4	130.5	0.58	666	0.46	0.07	7.6	1.8
W603373		1.2	1.49	13.50	0.17	1.0	0.026	2.91	13.8	14.5	0.47	365	0.31	2.65	7.9	1.0
W603374		1.9	2.58	14.25	0.12	0.8	0.037	2.05	19.0	33.3	0.75	724	0.26	1.25	6.4	1.8
W603375		1.9	2.68	14.35	0.13	0.9	0.044	2.08	22.2	32.3	0.81	745	0.27	1.29	6.6	1.9
W603376		2.5	2.92	15.70	0.20	0.9	0.047	2.20	78.6	40.7	0.95	959	0.68	0.55	5.3	2.6
W603377		1.1	1.96	11.05	0.13	0.8	0.026	3.00	11.6	31.3	0.71	847	0.56	0.90	6.2	1.1
W603378		5.6	2.71	13.55	0.14	1.0	0.061	2.24	22.7	27.5	0.61	847	9.68	1.74	6.7	1.6
W603379		4.0	2.88	13.55	0.13	1.0	0.064	1.62	21.5	35.0	0.68	695	1.04	2.88	6.9	1.9
W603380		1205	9.32	13.55	0.13	0.8	1.555	2.66	18.5	16.5	0.68	2330	16.65	0.06	4.6	15.0
W603381		4.1	2.91	12.80	0.13	0.9	0.065	1.71	24.9	42.4	0.65	775	0.84	2.11	6.9	1.7
W603382		1.9	3.30	14.10	0.14	1.1	0.060	3.00	26.9	144.5	0.93	1380	0.31	0.04	6.9	2.1
W603383		9.2	2.95	14.70	0.13	1.3	0.095	3.55	25.3	36.9	0.87	2630	0.62	0.03	8.4	1.5
W603384		33.3	6.51	13.85	0.13	1.0	0.148	3.00	21.6	18.4	0.35	610	1.79	0.03	5.9	2.8
W603385		3.4	3.27	14.55	0.13	1.1	0.059	3.33	26.8	56.5	0.86	2750	0.63	0.03	7.0	1.8
W603386		2.7	3.32	14.80	0.14	1.2	0.063	3.45	31.0	69.4	0.88	1990	0.51	0.03	6.8	1.9
W603387		4.7	3.21	14.55	0.15	1.2	0.060	3.34	30.0	71.8	0.85	1960	0.53	0.07	6.4	1.9
W603388		402	5.28	12.25	0.13	1.0	0.662	3.18	24.5	14.6	0.64	5160	0.88	0.03	6.0	2.3
W603389		5.8	3.49	15.50	0.06	1.0	0.081	3.54	21.3	128.0	0.91	1200	0.71	0.08	7.6	4.0
W603390		4.2	3.43	16.40	0.08	1.1	0.070	3.57	18.8	98.8	0.78	935	0.21	0.82	7.9	2.1
W603391		5.0	3.51	15.30	0.08	1.1	0.063	3.21	22.9	12.2	0.66	781	0.59	2.36	7.6	2.3
W603392		3.6	4.12	16.50	0.07	1.1	0.070	3.23	19.0	18.2	0.86	881	0.47	1.95	7.6	2.3
W603393		4.1	3.13	15.70	0.09	1.0	0.070	3.12	24.9	87.6	0.85	1140	0.78	0.44	7.2	2.0
W603394		3.7	3.39	17.40	0.09	1.3	0.074	3.13	26.1	126.0	0.81	881	2.15	0.05	7.5	2.1
W603395		11.9	4.52	13.00	0.08	1.3	0.080	2.84	26.9	69.6	1.10	2580	2.55	0.03	6.0	2.2
W603396		4.0	3.79	16.15	0.10	1.8	0.064	3.69	21.2	56.7	1.12	1430	1.14	0.04	7.1	1.9
W603397		3.4	3.43	16.30	0.08	1.6	0.035	3.62	17.1	70.4	1.09	1480	2.07	0.14	7.9	2.1
W603398		16.4	2.75	15.15	0.10	1.3	0.023	3.09	24.6	30.9	0.98	2060	3.25	0.03	6.9	2.4
W603399		2.1	0.21	1.34	0.06	0.1	0.006	0.11	1.2	2.0	1.73	119	0.15	0.20	0.4	1.1
W603400		6.0	2.50	14.15	0.08	1.2	0.017	3.45	23.8	57.3	0.70	1720	0.39	0.04	6.7	1.7
W603401		6.3	2.87	15.20	0.09	1.2	0.025	1.86	21.6	93.6	0.70	725	0.32	2.32	7.4	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239349

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603362		370	207	147.5	0.006	6.40	23.1	6.9	1	4.0	99.4	0.45	0.88	7.73	0.158	2.05
W603363		560	50.0	152.0	<0.002	0.94	10.80	9.7	<1	1.7	176.0	0.65	<0.05	12.80	0.237	2.15
W603364		550	15.9	122.0	<0.002	0.06	4.62	9.0	<1	1.7	312	0.65	<0.05	11.90	0.234	1.38
W603365		540	13.7	121.5	<0.002	0.10	4.50	9.3	<1	1.5	279	0.69	<0.05	11.35	0.237	1.31
W603366		410	2930	141.0	<0.002	0.87	36.5	7.6	<1	2.5	239	0.59	<0.05	9.57	0.186	2.04
W603367		570	22.3	140.0	<0.002	0.13	10.35	9.4	<1	1.6	201	0.70	<0.05	11.25	0.247	1.69
W603368		620	17.2	150.0	<0.002	0.12	3.11	10.6	<1	1.7	280	0.65	<0.05	11.95	0.262	1.39
W603369		460	>10000	29.1	0.009	2.36	466	11.7	2	1.8	192.5	0.21	1.15	1.88	0.246	0.48
W603370		580	18.8	124.0	<0.002	0.06	5.91	9.4	<1	1.5	280	0.63	<0.05	10.70	0.246	1.44
W603371		530	69.1	139.0	<0.002	0.74	19.25	8.7	<1	1.4	242	0.57	<0.05	10.75	0.230	1.95
W603372		610	9.1	77.5	<0.002	0.07	22.9	8.9	<1	1.3	156.0	0.63	<0.05	9.72	0.257	1.01
W603373		620	7.3	128.5	<0.002	0.39	3.86	9.5	<1	2.4	238	0.58	<0.05	9.38	0.258	1.65
W603374		520	10.7	85.8	<0.002	0.57	5.75	7.0	<1	1.2	229	0.52	<0.05	8.47	0.204	1.50
W603375		520	10.8	100.5	<0.002	0.61	5.77	7.8	1	1.2	235	0.52	<0.05	10.00	0.208	1.50
W603376		560	20.6	95.7	<0.002	1.03	6.64	9.6	1	1.1	226	0.46	0.05	10.60	0.192	1.71
W603377		540	29.2	125.0	<0.002	1.08	5.25	7.0	1	1.5	202	0.49	<0.05	9.79	0.198	2.17
W603378		540	95.8	103.5	0.003	1.39	7.41	9.5	1	2.4	191.5	0.54	0.09	11.00	0.212	1.40
W603379		540	9.9	66.0	<0.002	0.55	3.73	8.9	<1	1.8	170.5	0.58	<0.05	10.55	0.220	1.05
W603380		450	1690	149.0	0.003	7.98	105.5	8.3	1	10.5	63.2	0.38	0.74	7.83	0.166	2.07
W603381		510	5.2	77.7	<0.002	0.31	5.15	8.6	<1	1.9	155.5	0.57	<0.05	11.00	0.216	1.08
W603382		470	8.9	114.5	<0.002	0.41	8.98	8.3	<1	1.6	142.0	0.60	<0.05	9.88	0.206	1.97
W603383		580	247	155.5	<0.002	0.85	12.90	11.0	<1	2.8	87.8	0.72	<0.05	11.00	0.255	2.34
W603384		500	1090	152.5	<0.002	6.67	25.4	8.5	<1	6.7	55.0	0.54	0.12	9.51	0.188	2.07
W603385		560	69.8	146.0	<0.002	1.62	12.80	9.7	<1	2.4	120.5	0.58	<0.05	11.35	0.223	2.33
W603386		560	20.4	172.5	<0.002	0.60	8.46	9.9	<1	2.0	121.0	0.59	<0.05	13.40	0.226	2.45
W603387		540	14.8	162.0	<0.002	0.60	8.97	9.2	<1	2.1	121.0	0.54	<0.05	13.30	0.212	2.50
W603388		480	1990	177.0	<0.002	4.25	186.5	8.2	1	2.9	41.6	0.50	0.17	10.30	0.193	2.33
W603389		560	18.8	112.5	<0.002	0.90	9.30	8.6	1	2.0	158.5	0.57	<0.05	9.31	0.231	2.28
W603390		580	11.3	113.5	<0.002	0.30	8.12	8.6	1	2.2	242	0.64	<0.05	10.15	0.242	2.13
W603391		600	19.2	112.0	<0.002	0.31	2.91	9.8	<1	1.9	340	0.60	<0.05	11.70	0.230	1.46
W603392		620	15.4	112.0	<0.002	0.23	3.55	10.2	1	2.0	270	0.58	<0.05	10.35	0.236	1.47
W603393		560	30.4	104.5	<0.002	0.59	10.75	9.3	1	1.9	212	0.58	<0.05	9.82	0.218	1.86
W603394		580	13.7	128.5	<0.002	0.65	14.15	9.7	1	1.9	202	0.63	0.06	12.40	0.230	2.12
W603395		640	1350	142.0	<0.002	2.31	17.20	8.3	<1	2.1	194.5	0.51	0.06	13.45	0.189	2.06
W603396		1340	20.3	141.0	<0.002	0.44	12.35	10.7	<1	3.5	151.5	0.52	<0.05	9.41	0.298	3.93
W603397		1000	23.2	150.5	<0.002	0.44	10.70	10.6	1	2.7	138.0	0.61	<0.05	10.10	0.268	4.00
W603398		480	69.8	164.5	<0.002	0.66	23.4	9.3	1	1.5	122.5	0.53	0.05	11.95	0.207	2.41
W603399		70	1.3	3.7	<0.002	<0.01	0.11	0.7	1	<0.2	78.0	<0.05	<0.05	0.17	0.013	0.04
W603400		500	25.9	172.0	<0.002	1.31	14.00	8.7	<1	1.8	281	0.60	<0.05	13.85	0.195	2.60
W603401		560	14.3	92.1	<0.002	0.49	8.70	8.9	1	1.7	367	0.60	<0.05	11.40	0.221	1.51

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19239349

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603362		31.8	50	4.0	10.6	205	26.8	0.867
W603363		4.6	58	2.7	15.0	58	39.8	0.013
W603364		3.9	61	2.3	15.0	60	39.3	<0.005
W603365		3.4	62	1.4	14.6	56	40.3	<0.005
W603366		7.2	50	3.9	15.2	854	33.7	0.067
W603367		3.4	64	2.1	15.2	51	40.5	<0.005
W603368		3.0	68	1.3	16.9	57	37.8	<0.005
W603369		1.2	79	0.5	14.7	5130	51.3	0.289
W603370		4.1	62	1.8	14.9	47	38.1	<0.005
W603371		3.4	61	3.1	17.1	153	34.0	0.142
W603372		1.6	62	2.7	14.1	46	37.0	<0.005
W603373		3.0	56	2.6	11.1	25	29.3	<0.005
W603374		2.0	58	2.7	9.7	51	25.8	<0.005
W603375		2.2	59	2.7	11.0	53	25.7	<0.005
W603376		4.9	76	2.1	12.3	65	26.2	0.006
W603377		2.9	40	3.3	9.2	63	23.9	0.006
W603378		3.8	49	3.5	10.8	318	29.1	0.027
W603379		1.8	43	1.2	10.3	46	26.8	<0.005
W603380		5.0	56	7.1	9.2	3350	24.2	1.775
W603381		1.4	40	2.6	9.9	46	24.5	<0.005
W603382		3.1	60	1.3	11.5	52	31.7	<0.005
W603383		3.6	62	1.9	15.3	623	33.1	0.673
W603384		6.8	55	4.8	8.6	3490	25.4	0.469
W603385		5.5	63	2.2	13.5	170	28.8	0.162
W603386		5.6	65	1.8	13.7	65	33.5	0.012
W603387		5.7	61	1.7	13.3	51	33.9	0.011
W603388		2.8	53	2.9	9.4	738	26.8	2.45
W603389		3.4	64	1.5	11.9	61	28.9	0.009
W603390		4.4	70	1.4	11.3	76	32.9	<0.005
W603391		2.9	64	1.3	12.8	71	33.3	<0.005
W603392		3.1	64	1.4	12.3	81	31.1	<0.005
W603393		4.0	60	1.6	13.7	72	28.5	<0.005
W603394		33.0	73	1.8	12.7	72	38.2	0.005
W603395		5.2	60	1.6	12.9	1480	42.2	0.110
W603396		4.4	99	2.4	14.6	73	65.2	0.008
W603397		3.7	79	1.4	14.1	85	52.9	0.015
W603398		7.5	57	1.9	13.8	128	34.8	0.023
W603399		0.3	4	<0.1	4.1	6	2.8	<0.005
W603400		4.5	45	2.2	13.2	49	33.6	0.010
W603401		2.9	53	4.7	13.4	51	33.5	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19239349

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE WH19242440

Project: Klaza

P.O. No.: 19-029

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242440

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603242		2.13			0.15	7.22	12.0	1500	1.43	0.31	2.94	0.04	43.8	5.4	10	6.69
W603243		3.59			0.09	7.25	9.9	1250	1.71	0.25	3.18	0.05	43.7	3.1	7	11.65
W603244		3.33			0.06	7.20	5.6	1430	1.76	0.18	3.06	0.11	42.6	4.0	8	8.06
W603245		2.53			0.11	7.36	13.1	1140	1.64	0.27	3.05	0.10	42.4	8.8	8	7.97
W603246		2.46			0.09	6.64	9.0	1140	1.37	0.17	3.16	0.15	38.8	3.2	8	8.81
W603247		1.57			0.13	6.42	11.7	830	1.69	0.10	3.48	0.24	36.2	1.9	8	10.20
W603248		1.98			0.09	6.81	20.3	1280	1.54	0.13	3.57	0.15	38.1	2.7	9	10.10
W603249		1.79			0.10	7.26	6.6	2220	1.59	0.09	2.75	0.13	44.4	3.0	9	9.32
W603250		3.75			0.09	7.65	14.1	1880	1.55	0.17	1.92	0.08	47.1	3.0	8	10.20
W603251		2.28			0.38	6.48	113.5	950	1.74	0.32	3.03	1.33	62.9	8.6	6	12.05
W603252		1.48			0.29	7.16	34.0	910	1.91	0.33	2.88	0.43	55.4	6.3	7	10.65
W603253		2.92			0.17	6.89	13.2	1170	1.88	0.37	3.80	0.06	54.7	4.3	8	10.95
W603254		<0.02			0.17	6.96	13.5	1170	1.81	0.41	3.82	0.06	55.9	4.3	7	11.15
W603255		1.80			0.07	7.12	7.2	1210	1.77	0.31	2.41	0.03	47.4	7.5	8	7.74
W603256		2.02			0.05	6.83	5.5	2260	1.82	0.41	4.32	0.04	43.8	14.3	7	9.29
W603257		3.08			0.07	7.13	6.4	1180	1.63	0.34	3.41	0.03	50.0	5.9	10	7.97
W603258		3.34			0.12	7.20	5.3	1910	1.67	0.29	3.32	0.08	47.0	5.3	8	7.63
W603259		3.59			0.05	7.46	6.4	2530	1.64	0.10	2.69	0.11	47.5	4.7	8	9.57
W603260		0.26	102	1.015	>100	5.49	255	450	0.66	4.88	1.46	24.8	19.50	11.8	83	0.84
W603261		3.30			0.18	7.68	5.7	2570	1.70	0.17	2.69	0.13	49.5	4.8	9	9.22
W603262		3.30			0.09	7.23	8.7	2660	1.52	0.19	2.56	0.10	44.4	4.3	9	8.46
W603263		2.40			0.30	7.31	159.0	3250	1.46	0.59	2.07	0.17	48.0	8.2	8	10.00
W603264		2.06			0.18	6.07	7.3	2060	1.29	0.40	5.83	0.12	29.5	14.5	7	10.45
W603265		1.23			0.05	7.64	8.0	2350	1.44	0.08	2.52	0.12	48.4	6.4	8	9.87
W603266		1.53			0.05	7.56	8.6	2360	1.55	0.09	2.49	0.14	45.4	6.5	10	10.05
W603267		2.94			0.04	7.65	7.7	2270	1.76	0.07	2.62	0.11	50.0	6.6	8	14.40
W603268		1.77			0.32	6.29	167.5	1700	1.57	0.11	4.77	0.58	50.1	6.2	8	14.55
W603269		3.18			0.06	7.42	5.4	1970	1.55	0.07	2.49	0.15	47.3	5.6	8	13.80
W603270		2.67			0.07	7.71	6.7	2070	1.53	0.10	1.85	0.11	51.6	5.5	10	11.20
W603271		3.18			0.09	7.48	5.2	2400	1.52	0.08	2.48	1.18	49.2	6.1	7	11.55
W603272		0.33			39.0	5.85	2630	1410	1.16	40.3	1.73	47.1	44.1	16.6	23	9.72
W603273		3.16			0.11	7.62	6.3	2620	1.63	0.12	2.19	0.14	45.2	5.5	8	14.55
W603274		3.39			0.09	7.17	5.7	2770	1.37	0.13	2.54	0.20	36.3	5.1	8	10.15
W603275		1.29			0.16	5.96	9.4	3900	1.40	0.39	5.03	0.17	54.6	7.8	6	10.35
W603276		3.33			0.14	7.34	5.5	2600	1.32	0.20	2.27	0.13	47.0	4.7	7	10.50
W603277		2.51			0.05	7.77	8.0	2470	1.34	0.13	1.92	0.10	40.3	4.5	6	16.70
W603278		3.90			0.08	8.29	8.4	2210	1.34	0.14	1.13	0.16	49.7	4.5	12	12.95
W603279		2.89			1.01	7.06	96.9	1720	1.65	0.33	2.34	2.92	34.2	15.1	5	25.3
W603280		3.58			7.65	6.30	2130	280	1.54	2.40	3.09	16.80	45.7	15.3	10	17.10
W603281		4.99			0.01	0.28	2.0	40	0.15	0.03	35.5	0.04	1.72	0.7	1	0.28

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603242		3.1	2.89	15.25	0.16	1.2	0.174	1.95	22.5	14.0	0.76	749	0.44	1.76	6.8	2.8
W603243		2.3	2.79	15.90	0.17	1.2	0.163	1.89	22.4	19.7	0.68	781	0.38	1.63	7.0	2.4
W603244		3.4	2.61	16.15	0.15	1.2	0.090	1.97	21.4	12.7	0.68	664	0.56	2.35	7.6	2.2
W603245		2.6	3.27	15.45	0.17	1.0	0.368	2.88	22.7	33.0	0.70	1620	0.43	0.42	6.5	1.6
W603246		5.2	2.58	15.35	0.16	1.1	0.131	1.80	19.3	19.1	0.43	907	0.31	1.50	7.1	1.8
W603247		1.8	2.42	15.65	0.17	1.1	0.106	2.15	18.3	46.0	0.53	1220	0.33	0.15	7.8	1.8
W603248		1.8	2.95	15.45	0.16	1.1	0.107	1.98	16.4	60.1	0.56	1140	0.35	1.21	7.5	1.8
W603249		1.7	2.56	15.60	0.19	1.2	0.050	2.60	22.2	11.7	0.60	545	0.49	2.14	7.6	2.1
W603250		4.3	3.07	16.50	0.16	1.1	0.133	2.51	24.5	32.1	0.72	955	0.34	0.29	7.5	2.3
W603251		2.4	3.12	16.00	0.17	0.8	0.293	2.59	33.6	13.0	0.95	3000	0.35	0.44	5.6	3.7
W603252		1.7	2.53	15.30	0.18	0.8	0.349	2.85	30.6	13.2	0.75	1660	0.33	0.28	6.6	4.4
W603253		1.8	2.70	16.60	0.19	0.9	0.361	2.89	28.1	22.8	0.64	1050	0.50	0.26	7.1	4.6
W603254		1.9	2.70	16.75	0.16	0.9	0.363	2.91	29.0	23.0	0.65	1040	0.48	0.26	7.1	4.8
W603255		1.5	3.39	15.60	0.17	1.0	0.250	2.12	24.5	35.7	0.59	923	2.79	0.21	7.1	2.6
W603256		1.3	3.82	15.90	0.19	0.9	0.319	2.51	22.2	21.1	0.57	1040	14.85	0.78	7.0	2.4
W603257		1.5	3.34	15.70	0.18	0.9	0.185	1.78	25.9	16.8	0.66	808	3.27	1.67	7.1	2.2
W603258		2.1	3.28	16.45	0.18	1.1	0.144	2.19	23.4	11.5	0.74	701	0.42	2.18	7.3	2.4
W603259		2.2	2.73	16.45	0.20	1.1	0.047	2.74	23.4	14.0	0.75	569	0.72	2.49	7.5	2.5
W603260		6230	5.67	12.00	0.14	1.3	0.435	1.14	8.4	13.7	1.15	1730	21.9	1.61	3.0	35.2
W603261		6.6	2.69	16.40	0.18	1.2	0.049	2.79	25.3	13.2	0.75	570	0.71	2.52	7.4	2.5
W603262		3.4	2.68	15.60	0.19	1.0	0.053	2.69	21.9	13.7	0.74	582	0.55	2.56	7.2	2.2
W603263		4.5	3.70	16.50	0.17	1.0	0.223	2.80	25.8	26.5	0.64	1440	0.47	0.84	7.0	2.5
W603264		2.8	3.93	13.30	0.14	0.8	0.167	2.02	12.4	48.0	1.43	874	11.55	0.95	7.5	3.3
W603265		4.3	2.86	16.25	0.18	1.0	0.048	2.85	24.4	18.2	0.83	616	0.61	2.54	7.5	2.4
W603266		3.2	2.92	16.15	0.18	1.0	0.044	2.90	21.6	18.4	0.81	617	0.67	2.61	7.5	2.5
W603267		3.9	2.86	16.70	0.19	1.1	0.046	2.76	25.2	17.5	0.78	596	0.63	2.52	7.8	2.4
W603268		4.5	3.99	14.25	0.14	0.9	0.054	2.50	27.4	36.0	1.16	16550	1.14	0.23	6.0	2.2
W603269		5.6	2.75	16.50	0.20	1.0	0.048	2.75	23.1	28.4	0.71	670	0.89	1.84	7.6	2.3
W603270		5.0	3.08	16.00	0.19	1.0	0.053	2.71	26.6	23.0	0.58	706	0.88	1.44	7.8	2.8
W603271		3.8	2.59	15.35	0.21	1.0	0.046	2.85	24.8	17.6	0.70	533	0.71	2.41	7.1	2.3
W603272		1190	9.05	14.10	0.17	0.8	1.695	2.68	23.1	17.6	0.70	2320	16.95	0.06	4.3	14.9
W603273		4.7	2.60	16.25	0.18	1.0	0.046	2.96	22.5	19.2	0.70	476	0.89	2.75	7.4	2.1
W603274		7.2	2.61	15.60	0.16	1.1	0.057	2.81	16.5	25.8	0.53	650	1.01	1.45	7.6	2.1
W603275		13.9	4.23	12.95	0.17	0.7	0.249	2.15	31.3	33.1	1.36	1200	0.21	0.78	5.2	3.4
W603276		6.0	3.02	15.45	0.19	1.0	0.071	3.11	23.4	16.9	0.56	718	1.01	1.56	7.2	2.0
W603277		5.4	2.66	16.15	0.08	1.1	0.043	3.23	21.9	29.6	0.61	698	0.58	0.73	7.6	1.8
W603278		4.6	2.83	17.40	0.08	1.2	0.070	3.22	27.3	39.9	0.49	835	0.57	0.10	8.5	1.9
W603279		5.0	3.16	15.45	0.09	1.0	0.114	2.86	17.5	47.6	0.63	1580	0.92	0.06	7.3	2.8
W603280		62.3	7.72	16.30	0.10	2.0	0.403	2.62	28.8	42.1	1.20	3970	25.6	0.02	4.2	4.7
W603281		4.8	0.16	0.88	0.07	0.1	<0.005	0.12	1.5	1.7	1.78	129	0.10	0.12	1.0	0.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603242		530	14.5	80.5	<0.002	0.31	2.81	8.5	<1	2.0	229	0.56	<0.05	10.30	0.230	1.29
W603243		540	10.6	75.0	<0.002	0.16	3.20	9.0	<1	2.0	251	0.56	<0.05	10.40	0.235	1.34
W603244		560	17.5	73.2	<0.002	0.06	2.64	8.9	1	2.1	357	0.61	<0.05	10.40	0.242	1.26
W603245		490	8.5	146.5	<0.002	0.58	4.43	7.9	<1	2.3	117.5	0.56	0.05	11.75	0.215	2.84
W603246		540	8.5	70.6	<0.002	0.09	3.71	7.7	<1	2.4	229	0.57	<0.05	9.15	0.226	1.55
W603247		570	7.1	67.1	<0.002	0.13	4.84	7.9	<1	2.2	157.0	0.58	<0.05	8.97	0.255	2.04
W603248		560	14.4	76.1	<0.002	0.15	4.81	8.6	1	1.9	247	0.57	<0.05	9.53	0.245	1.69
W603249		560	18.8	92.8	<0.002	0.01	2.47	9.0	1	1.7	384	0.56	<0.05	10.70	0.246	1.21
W603250		560	8.6	112.5	<0.002	0.10	14.10	9.1	<1	2.2	108.0	0.61	<0.05	12.30	0.236	2.16
W603251		480	35.1	118.0	<0.002	1.06	6.86	7.9	1	2.5	151.5	0.42	<0.05	8.55	0.197	2.27
W603252		560	20.6	147.0	<0.002	0.85	4.39	8.3	<1	2.7	143.5	0.48	0.05	9.89	0.235	2.36
W603253		590	7.6	121.0	<0.002	0.61	3.96	8.3	1	2.8	154.5	0.53	<0.05	9.43	0.247	2.73
W603254		590	7.5	124.0	<0.002	0.63	3.92	8.5	<1	2.7	154.0	0.53	0.07	9.68	0.245	2.71
W603255		580	3.4	89.1	<0.002	0.57	9.67	9.1	1	2.2	115.5	0.51	<0.05	9.49	0.244	1.86
W603256		560	3.3	113.0	<0.002	0.60	3.82	9.5	1	2.3	178.0	0.48	<0.05	9.31	0.239	2.24
W603257		580	5.6	77.6	<0.002	0.31	2.98	9.0	1	2.1	235	0.52	<0.05	9.73	0.248	1.40
W603258		570	11.0	75.0	<0.002	0.19	2.13	9.2	1	1.9	365	0.52	<0.05	9.17	0.249	1.14
W603259		570	14.9	95.9	<0.002	0.03	1.54	9.5	<1	1.6	463	0.55	<0.05	10.45	0.255	1.16
W603260		440	>10000	27.0	0.008	2.37	468	11.4	1	2.0	191.0	0.18	1.20	1.84	0.241	0.54
W603261		570	22.3	103.0	<0.002	0.07	2.21	9.5	<1	1.5	417	0.54	<0.05	10.80	0.252	1.16
W603262		550	16.8	89.8	<0.002	0.07	2.09	9.0	1	1.5	460	0.51	<0.05	9.98	0.252	1.19
W603263		550	24.2	139.5	<0.002	0.60	12.90	9.9	<1	2.1	151.5	0.51	<0.05	11.25	0.234	1.93
W603264		590	12.1	68.9	<0.002	0.80	5.32	9.1	<1	2.0	272	0.57	0.06	8.64	0.230	1.04
W603265		590	16.1	103.5	<0.002	0.02	2.45	9.8	<1	1.7	477	0.52	<0.05	10.85	0.264	1.18
W603266		590	16.6	95.6	<0.002	0.02	2.47	9.5	<1	1.6	483	0.55	<0.05	9.91	0.264	1.22
W603267		600	15.3	99.4	<0.002	0.02	2.56	9.9	<1	1.8	491	0.57	<0.05	11.60	0.269	1.23
W603268		470	26.1	132.0	<0.002	1.01	10.05	8.2	<1	2.3	203	0.45	<0.05	10.80	0.202	1.85
W603269		570	15.4	103.5	<0.002	0.04	3.51	9.1	<1	1.9	347	0.57	<0.05	10.80	0.249	1.29
W603270		610	13.9	110.0	<0.002	0.03	8.30	10.3	<1	1.9	262	0.55	<0.05	11.50	0.273	1.19
W603271		540	25.0	107.5	<0.002	0.02	1.39	8.6	<1	1.5	401	0.54	<0.05	12.30	0.240	1.09
W603272		440	1720	161.5	0.004	8.10	103.5	8.2	1	11.2	68.3	0.34	0.77	9.72	0.164	2.41
W603273		550	19.7	105.0	<0.002	0.01	1.88	8.6	<1	1.7	458	0.54	<0.05	11.45	0.246	1.18
W603274		610	19.4	92.4	<0.002	0.03	8.10	9.2	<1	1.8	275	0.57	<0.05	9.20	0.260	1.19
W603275		390	15.6	103.5	<0.002	0.25	5.97	8.0	<1	2.1	392	0.39	<0.05	9.45	0.179	1.26
W603276		550	16.5	128.5	<0.002	0.04	5.44	8.9	<1	1.7	266	0.58	<0.05	10.70	0.244	1.56
W603277		550	13.5	123.0	<0.002	0.04	8.52	9.2	<1	1.9	189.5	0.63	<0.05	10.50	0.240	1.53
W603278		620	13.4	135.0	<0.002	0.03	17.35	10.8	<1	1.9	116.5	0.68	<0.05	13.05	0.269	1.56
W603279		570	98.3	110.5	<0.002	0.49	18.15	9.4	<1	1.7	170.5	0.60	0.05	9.33	0.238	1.88
W603280		940	992	163.0	0.002	4.49	48.3	15.7	1	5.4	167.0	0.23	0.25	2.49	0.376	2.67
W603281		70	1.9	3.7	<0.002	0.01	0.18	0.3	1	<0.2	85.0	0.09	<0.05	0.30	0.007	0.03

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242440

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603242		2.5	61	1.1	12.7	55	30.7	<0.005
W603243		3.5	66	1.9	12.9	54	31.8	<0.005
W603244		2.9	66	0.8	13.4	53	35.9	<0.005
W603245		4.5	59	2.5	13.6	60	25.8	0.007
W603246		2.8	59	1.3	11.4	55	29.3	<0.005
W603247		2.8	66	1.1	10.5	62	31.8	<0.005
W603248		3.7	66	1.4	13.4	65	31.0	<0.005
W603249		2.9	64	0.8	14.3	49	35.6	<0.005
W603250		3.1	64	1.6	13.0	67	31.4	<0.005
W603251		3.7	61	1.5	14.7	146	20.8	0.035
W603252		3.5	57	1.4	14.7	71	21.6	0.007
W603253		4.3	60	1.1	14.6	44	25.1	0.005
W603254		4.5	60	1.1	14.5	44	23.6	<0.005
W603255		1.7	69	1.0	13.0	62	25.6	<0.005
W603256		5.5	75	1.0	16.2	53	23.5	<0.005
W603257		3.7	65	1.2	13.9	61	26.7	<0.005
W603258		3.4	71	1.0	15.4	61	30.6	<0.005
W603259		3.4	67	1.0	15.9	45	30.5	<0.005
W603260		1.2	82	0.5	13.6	5280	48.1	0.284
W603261		3.1	66	0.9	16.4	54	32.1	<0.005
W603262		3.1	65	0.8	15.4	48	29.4	<0.005
W603263		6.9	68	1.6	17.3	81	28.4	0.028
W603264		2.7	57	1.2	16.6	57	22.8	<0.005
W603265		3.7	68	0.8	16.9	52	25.8	<0.005
W603266		3.5	70	0.8	15.7	53	27.3	<0.005
W603267		3.3	69	0.9	16.7	50	30.1	<0.005
W603268		4.5	53	2.1	16.6	70	22.9	0.051
W603269		3.0	66	1.3	15.2	52	29.7	<0.005
W603270		2.6	73	1.7	17.1	55	27.5	<0.005
W603271		3.9	62	1.0	15.3	68	28.0	<0.005
W603272		5.2	57	6.7	9.7	3530	22.7	1.765
W603273		3.2	63	1.2	14.3	49	27.9	<0.005
W603274		3.0	70	2.7	13.8	53	28.7	<0.005
W603275		6.1	60	19.5	17.2	95	18.4	<0.005
W603276		3.0	65	1.9	13.7	60	27.9	<0.005
W603277		2.2	61	2.2	14.2	45	30.5	<0.005
W603278		2.1	66	4.2	15.7	53	31.8	<0.005
W603279		8.9	65	2.7	13.4	259	29.8	0.016
W603280		8.8	139	7.4	14.0	1740	71.1	0.471
W603281		0.5	1	<0.1	3.3	7	3.8	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242440

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19242452

Project: Klaza

P.O. No.: 19-035

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242452

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593240		3.18			0.19	7.23	9.4	2240	1.51	0.22	2.43	0.12	43.3	5.0	11	7.90
W593241		4.64			0.10	7.41	9.7	2270	1.66	0.30	2.62	0.13	46.1	7.4	11	9.35
W593242		4.69			0.08	7.72	7.9	2500	1.64	0.18	2.50	0.12	48.5	6.8	12	10.85
W593243		2.78			0.07	7.38	6.7	2460	1.55	0.27	2.65	0.12	50.1	7.3	11	9.02
W593244		1.11			0.73	7.29	76.5	720	1.44	1.59	2.80	1.17	55.6	10.9	8	13.40
W593245		2.36			0.20	7.17	26.6	2220	1.48	0.78	2.73	0.11	42.2	8.5	9	9.25
W593246		1.05			0.42	7.20	35.8	3120	1.61	0.76	2.92	1.49	48.8	6.0	11	9.53
W593247		4.89			0.01	0.07	<0.2	40	0.08	0.02	25.5	0.05	1.12	0.6	1	0.22
W593248		2.03			0.11	7.41	7.9	2390	1.61	0.21	2.82	0.18	44.9	6.3	12	7.65
W593249		1.48			0.13	7.11	17.6	1960	1.37	0.50	2.94	0.10	40.6	10.8	9	8.80
W593250		1.43			0.45	7.83	22.7	1760	1.56	0.45	2.38	3.76	47.6	6.8	9	12.60
W593251		1.83			7.78	7.21	1420	220	1.55	7.61	1.47	32.0	49.2	7.8	9	17.75
W593252		1.52			0.17	7.34	9.5	2230	1.71	0.48	2.42	0.15	42.9	6.6	8	12.05
W593253		1.49			0.19	7.42	10.1	2660	1.78	0.58	2.38	0.14	44.0	6.5	8	13.15
W593254		3.43			0.23	7.17	22.1	2210	1.66	0.47	2.61	0.27	43.0	6.2	9	12.65
W593255		1.56			0.70	6.90	82.8	910	1.45	0.96	3.00	3.56	51.9	6.6	9	20.2
W593256		2.21			0.61	7.61	22.3	1420	1.47	1.11	1.15	1.15	42.8	6.3	9	17.30
W593257		1.54			2.89	6.94	201	770	1.86	2.06	2.16	22.2	59.1	6.9	9	21.7
W593258		1.79			1.19	7.56	175.5	640	1.63	0.23	2.71	4.42	54.2	7.0	8	29.9
W593259		3.50			0.24	7.03	27.8	1440	1.50	0.14	2.99	0.30	41.1	6.5	8	21.5
W593260		0.26	104		>100	5.29	235	360	0.69	4.70	1.38	23.8	18.45	10.7	61	0.75
W593261		2.49			0.55	6.78	106.5	1640	1.41	0.27	3.48	1.71	46.4	5.8	9	23.2
W593262		3.78			0.20	6.90	31.6	980	1.56	0.17	2.77	0.37	41.1	6.5	8	23.9
W593263		4.02			0.07	7.50	6.8	2220	1.56	0.18	2.42	0.10	43.5	6.5	10	12.40
W593264		4.86			0.15	7.53	25.3	2040	1.51	0.19	2.16	0.17	46.5	6.3	9	14.05
W593265		4.93			0.10	7.01	18.1	2190	1.57	0.18	2.50	0.14	39.2	6.2	11	10.50
W593266		<0.02			0.11	7.20	13.2	2190	1.51	0.16	2.52	0.15	44.7	6.3	10	10.85
W593267		2.90			0.18	7.30	29.1	2090	1.58	0.25	2.38	0.21	44.7	5.6	9	10.30
W593268		3.01			0.85	6.98	42.3	1140	1.70	0.23	1.94	10.40	47.4	4.9	9	21.1
W593269		4.02			0.55	7.37	26.1	2050	1.22	0.18	1.17	0.86	39.5	5.4	11	22.6
W593270		2.90			0.49	7.25	1235	1950	1.20	0.31	1.79	0.29	35.8	5.1	9	11.95
W593271		5.24			0.52	7.37	25.2	2110	1.50	0.21	2.39	0.51	43.5	4.4	10	7.89
W593272		4.01			0.85	7.43	576	1950	1.18	0.36	1.32	0.43	34.4	5.6	9	11.35
W593273		2.32			0.26	7.48	13.8	2130	1.14	0.24	1.79	0.48	31.4	6.2	9	11.50
W593274		2.63			2.00	7.56	508	380	1.75	0.64	1.80	21.2	57.6	8.8	9	23.3
W593275		0.26	107	1.040	>100	5.55	251	310	0.70	4.62	1.45	25.6	19.50	11.6	64	0.83
W593276		3.48			0.58	7.42	180.0	1690	1.45	0.18	1.83	3.53	38.1	5.5	8	14.35
W593277		3.93			0.34	7.36	308	2400	1.43	0.47	2.05	2.46	39.2	4.6	9	11.35
W593278		2.47			1.17	6.83	82.0	2460	1.32	0.97	2.32	2.19	35.8	4.2	9	12.10
W593279		1.64			0.70	7.00	500	2010	1.37	0.81	2.39	3.63	43.4	4.9	10	10.55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242452

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593240		5.7	2.83	15.50	0.09	1.1	0.061	2.81	22.3	13.2	0.75	530	1.67	2.25	7.9	2.5
W593241		8.4	2.81	15.95	0.11	1.3	0.092	2.73	23.7	15.7	0.75	527	1.65	2.18	8.1	2.4
W593242		11.7	3.04	16.00	0.11	1.4	0.043	2.89	24.8	15.1	0.85	576	1.78	2.45	8.6	2.8
W593243		7.7	3.06	15.35	0.10	1.1	0.058	2.41	26.2	17.5	0.80	590	4.91	2.38	7.5	2.3
W593244		117.0	4.17	15.80	0.11	1.0	0.179	2.75	31.4	13.1	0.74	818	2.89	0.70	7.2	2.4
W593245		41.8	3.25	15.85	0.12	1.0	0.146	2.87	21.4	13.4	0.78	698	1.54	1.54	7.5	2.5
W593246		26.4	2.97	15.85	0.10	1.2	0.217	2.49	24.4	13.9	0.77	693	1.83	1.87	8.0	2.4
W593247		2.0	0.39	0.23	0.08	<0.1	0.005	0.03	0.7	1.2	10.05	186	0.08	0.02	0.1	1.2
W593248		14.6	3.09	16.30	0.12	1.2	0.078	2.56	21.2	11.0	0.83	609	1.67	2.25	8.3	2.5
W593249		31.6	2.99	15.45	0.11	1.1	0.163	2.69	19.7	9.3	0.72	632	1.24	1.89	7.4	2.3
W593250		50.9	3.43	16.25	0.12	1.3	0.224	2.81	24.3	13.2	0.79	805	1.48	1.65	8.3	2.2
W593251		221	5.77	15.80	0.13	1.1	1.170	3.44	27.2	13.7	0.66	1300	1.44	0.15	6.9	2.3
W593252		25.7	2.88	15.20	0.11	1.2	0.118	2.90	21.9	12.6	0.73	608	1.56	1.71	7.7	2.2
W593253		31.5	3.09	15.25	0.10	1.3	0.121	2.90	23.1	13.3	0.79	638	1.50	1.64	7.9	2.4
W593254		44.4	2.91	16.00	0.12	1.2	0.135	3.06	21.2	17.5	0.63	684	1.39	1.05	8.2	2.3
W593255		29.6	3.78	15.05	0.11	1.2	0.156	2.85	28.4	30.4	1.07	1460	1.38	0.06	7.4	2.1
W593256		16.3	3.48	15.65	0.10	1.3	0.183	3.02	21.2	39.2	0.54	1010	1.36	0.07	8.1	2.0
W593257		98.2	5.14	15.60	0.13	1.1	0.494	3.08	33.1	13.4	0.96	3780	1.51	0.03	6.9	3.1
W593258		33.6	2.75	15.95	0.12	1.2	0.059	3.22	27.6	13.1	0.92	2200	2.78	0.04	7.7	2.5
W593259		13.2	2.96	15.60	0.11	1.1	0.043	2.91	20.1	23.1	0.83	1040	1.96	0.34	7.7	2.2
W593260		5980	5.53	11.75	0.06	1.3	0.413	1.08	7.3	11.9	1.06	1660	21.2	1.56	2.8	26.8
W593261		17.3	2.90	15.30	0.09	1.0	0.057	2.79	24.3	19.8	1.16	1860	1.18	0.10	6.4	2.1
W593262		10.6	2.75	16.30	0.08	1.1	0.059	2.90	20.7	28.1	0.89	1320	1.55	0.16	6.9	2.7
W593263		7.4	2.98	16.65	0.09	1.3	0.055	2.65	21.6	15.0	0.68	613	1.44	1.95	7.7	2.3
W593264		8.9	2.90	16.95	0.09	1.2	0.075	2.91	23.5	19.7	0.65	768	1.93	1.20	7.3	2.4
W593265		13.8	2.75	16.05	0.09	1.1	0.046	2.72	19.0	11.9	0.72	594	10.85	2.14	7.1	2.2
W593266		13.2	2.78	16.35	0.10	1.2	0.048	2.71	22.3	12.2	0.74	593	10.65	2.17	7.3	2.2
W593267		16.0	2.87	16.70	0.11	1.1	0.048	2.66	22.2	13.0	0.72	580	21.0	1.79	7.2	2.4
W593268		11.3	4.36	16.55	0.10	1.3	0.175	3.06	23.7	21.1	0.83	2000	1.77	0.07	7.6	2.2
W593269		13.0	3.06	16.95	0.08	1.0	0.056	2.37	19.8	36.1	0.46	729	2.26	0.10	7.2	2.6
W593270		10.9	3.13	17.05	0.07	1.0	0.063	2.83	16.8	27.3	0.42	559	1.46	0.33	7.8	2.0
W593271		24.8	2.80	16.80	0.08	0.9	0.051	2.49	21.8	13.3	0.65	553	1.76	1.72	7.2	2.1
W593272		58.2	3.05	17.55	0.08	1.0	0.073	2.71	16.6	30.4	0.41	651	1.68	0.10	7.6	2.6
W593273		47.1	2.78	17.85	0.09	1.0	0.066	2.89	14.6	36.4	0.45	591	1.14	0.11	7.8	2.3
W593274		43.2	4.40	17.55	0.10	1.0	0.460	3.56	31.5	13.3	0.76	1480	1.33	0.05	7.1	3.4
W593275		6340	5.83	12.65	0.08	1.4	0.440	1.15	8.1	12.6	1.11	1750	21.1	1.64	2.9	28.6
W593276		14.4	3.13	17.05	0.08	1.1	0.202	2.13	18.6	59.9	0.56	648	1.61	0.50	7.8	2.4
W593277		16.6	3.23	16.65	0.09	0.9	0.155	3.00	19.2	20.4	0.64	669	1.31	0.76	6.8	2.3
W593278		24.5	2.88	17.00	0.09	0.8	0.171	2.63	17.3	39.1	0.81	884	1.41	0.12	7.0	2.1
W593279		33.0	3.21	16.65	0.09	0.9	0.234	2.77	22.3	26.7	0.93	912	1.00	0.05	6.7	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242452

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593240		560	16.7	96.7	<0.002	0.05	2.71	9.8	<1	2.1	400	0.63	<0.05	10.80	0.248	1.08
W593241		570	18.4	101.5	<0.002	0.10	2.31	10.3	<1	2.5	389	0.65	0.07	12.20	0.247	1.13
W593242		590	18.8	100.5	<0.002	0.02	1.49	10.9	<1	2.3	442	0.78	<0.05	11.65	0.261	1.08
W593243		550	16.1	84.6	0.002	0.03	1.98	10.2	<1	2.8	395	0.57	<0.05	11.30	0.245	1.00
W593244		580	56.9	146.5	<0.002	2.10	6.92	10.7	<1	9.6	104.5	0.53	0.30	11.50	0.239	1.61
W593245		600	15.9	105.0	<0.002	0.75	3.00	10.7	<1	3.6	258	0.53	0.20	9.93	0.253	1.39
W593246		620	107.5	103.0	<0.002	0.46	2.88	10.9	<1	2.8	314	0.63	0.08	10.60	0.262	1.34
W593247		140	1.2	1.4	<0.002	<0.01	<0.05	0.2	1	<0.2	61.7	<0.05	<0.05	0.14	<0.005	0.02
W593248		640	27.4	82.2	<0.002	0.14	1.95	10.8	<1	2.2	397	0.62	<0.05	9.01	0.275	1.08
W593249		580	14.0	101.5	<0.002	0.56	2.52	9.8	<1	2.4	307	0.57	0.14	8.58	0.245	1.30
W593250		630	38.7	107.0	<0.002	0.26	3.68	11.0	<1	2.6	287	0.66	0.05	11.15	0.279	1.42
W593251		550	894	209	<0.002	3.61	11.55	10.7	1	5.1	70.1	0.51	0.46	9.91	0.237	2.51
W593252		550	16.1	112.0	<0.002	0.23	2.56	10.2	<1	2.1	390	0.63	0.06	10.20	0.248	1.28
W593253		580	17.2	112.5	<0.002	0.35	2.67	10.8	<1	2.2	405	0.63	0.09	10.85	0.258	1.32
W593254		590	18.6	114.5	<0.002	0.37	6.45	10.6	<1	2.7	241	0.69	0.10	10.15	0.259	1.63
W593255		570	45.6	129.5	<0.002	1.33	10.95	10.3	1	3.1	136.5	0.62	0.17	11.15	0.242	1.94
W593256		580	40.4	134.0	<0.002	0.92	14.70	10.6	<1	2.5	85.1	0.76	0.30	12.65	0.245	1.84
W593257		540	532	187.5	<0.002	1.96	14.75	10.4	1	3.9	60.8	0.52	0.19	13.10	0.222	2.92
W593258		600	236	143.0	<0.002	0.91	14.30	11.0	<1	1.9	90.6	0.59	<0.05	13.20	0.258	2.60
W593259		640	16.9	88.1	<0.002	0.19	7.93	10.5	<1	2.1	148.5	0.57	<0.05	9.56	0.266	1.62
W593260		430	9970	26.5	0.008	2.21	448	10.7	2	1.8	184.5	0.17	1.07	1.62	0.229	0.45
W593261		540	121.0	120.0	<0.002	0.81	11.30	8.7	1	1.9	120.5	0.51	<0.05	10.95	0.229	2.10
W593262		560	28.9	97.7	<0.002	0.29	9.88	9.3	<1	2.0	131.0	0.55	<0.05	9.64	0.248	1.82
W593263		610	17.6	94.7	<0.002	0.02	4.46	10.6	<1	2.4	322	0.61	<0.05	10.55	0.271	1.09
W593264		600	21.9	108.0	<0.002	0.18	7.75	10.0	1	3.0	246	0.56	<0.05	11.15	0.257	1.42
W593265		560	19.5	87.4	<0.002	0.05	2.38	9.0	1	2.2	349	0.57	<0.05	9.52	0.247	0.98
W593266		560	19.9	92.3	<0.002	0.05	2.38	9.5	1	2.2	351	0.57	<0.05	10.65	0.249	1.02
W593267		560	22.9	99.8	<0.002	0.18	4.30	9.7	1	2.5	308	0.60	<0.05	10.65	0.244	1.09
W593268		550	465	125.5	<0.002	0.39	8.35	9.7	<1	3.4	70.1	0.65	<0.05	10.80	0.240	2.62
W593269		580	37.9	92.7	<0.002	0.13	21.4	10.1	<1	2.6	93.6	0.52	<0.05	9.49	0.269	1.19
W593270		620	44.8	101.0	<0.002	0.50	17.20	9.9	<1	3.2	115.0	0.62	<0.05	9.26	0.274	1.32
W593271		580	26.5	82.9	<0.002	0.17	9.05	9.5	1	2.9	336	0.51	<0.05	9.70	0.256	1.01
W593272		610	37.8	94.2	<0.002	0.24	20.7	9.8	<1	3.4	83.0	0.56	<0.05	9.17	0.266	1.16
W593273		630	18.5	84.9	<0.002	0.06	15.05	9.5	1	2.9	100.0	0.57	<0.05	8.49	0.280	1.21
W593274		560	594	187.0	0.002	2.82	15.35	10.0	1	5.1	72.7	0.56	<0.05	11.00	0.249	2.77
W593275		460	>10000	28.3	0.012	2.33	452	11.5	2	1.9	193.5	0.18	1.19	1.77	0.242	0.44
W593276		610	163.0	75.7	<0.002	0.24	19.40	9.9	1	2.5	181.0	0.59	<0.05	9.17	0.262	0.98
W593277		570	44.7	105.5	<0.002	0.27	6.51	8.8	1	2.9	184.5	0.51	<0.05	9.36	0.246	1.44
W593278		560	82.3	90.7	<0.002	0.31	10.90	9.0	<1	3.3	145.0	0.51	0.07	9.02	0.247	1.60
W593279		570	66.6	119.5	<0.002	0.59	14.70	9.3	<1	3.5	117.0	0.51	0.16	9.56	0.239	1.96

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242452

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
W593240		3.3	66	3.7	15.0	41	30.7	<0.005
W593241		4.6	66	1.8	16.1	41	35.1	<0.005
W593242		4.3	71	1.4	17.5	44	35.9	<0.005
W593243		3.8	65	1.7	16.2	42	29.5	<0.005
W593244		6.1	66	3.0	15.3	75	28.4	1.145
W593245		4.1	70	1.9	14.1	48	30.3	0.007
W593246		5.4	70	1.9	16.4	159	31.6	0.087
W593247		1.4	2	<0.1	1.1	13	0.9	<0.005
W593248		3.0	75	2.1	15.5	53	32.0	<0.005
W593249		3.3	67	1.4	13.6	43	30.1	0.005
W593250		4.7	74	1.7	13.5	335	33.9	0.007
W593251		6.0	66	3.6	10.9	2180	27.6	1.530
W593252		2.4	66	1.2	13.6	50	30.3	<0.005
W593253		2.4	69	1.3	14.3	53	33.1	0.005
W593254		2.9	71	2.2	15.4	62	31.3	0.010
W593255		3.0	67	3.7	15.5	336	31.3	0.138
W593256		3.4	65	4.9	13.8	129	30.6	0.010
W593257		3.6	64	4.3	11.9	1940	29.5	0.130
W593258		3.8	69	6.7	15.3	403	32.0	0.184
W593259		2.6	73	4.8	15.0	68	32.7	0.047
W593260		1.2	77	0.5	12.1	4910	47.1	0.287
W593261		3.4	63	4.2	13.7	178	24.6	0.238
W593262		5.8	68	5.2	15.3	70	28.6	0.026
W593263		3.2	74	2.0	16.1	42	32.5	<0.005
W593264		3.7	70	3.0	16.3	49	29.4	0.035
W593265		3.6	66	1.4	15.3	44	30.0	0.010
W593266		3.5	66	1.5	16.2	45	31.1	<0.005
W593267		3.9	67	1.9	14.5	51	30.1	0.005
W593268		6.3	67	6.4	13.0	826	31.6	0.010
W593269		3.7	71	4.3	13.3	96	27.8	0.018
W593270		2.6	71	3.7	12.8	62	27.3	0.090
W593271		2.8	69	1.6	14.2	73	22.6	0.009
W593272		4.6	69	5.4	12.2	69	27.3	0.020
W593273		2.2	71	6.1	11.8	67	26.8	0.008
W593274		5.3	69	4.2	13.5	1600	25.4	0.412
W593275		1.2	80	0.5	13.5	5190	45.6	0.217
W593276		3.1	68	3.6	13.8	297	28.6	0.007
W593277		3.3	65	2.2	12.9	193	22.1	0.009
W593278		3.5	67	1.5	12.5	182	20.5	0.024
W593279		2.9	67	1.9	12.7	264	20.7	0.026

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242452

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19242457

Project: Klaza

P.O. No.: 19-037

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242457

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593280		1.49			0.12	7.16	11.7	2790	1.11	0.20	2.05	0.24	34.6	1.8	11	20.9
W593281		1.32			0.18	7.78	12.6	2760	1.34	0.34	1.24	0.09	49.8	2.4	7	12.50
W593282		2.23			0.19	7.95	13.3	2200	1.16	0.46	1.21	0.25	44.1	3.0	9	11.95
W593283		3.85			1.58	7.18	232	2020	1.55	0.69	2.82	2.32	41.5	3.2	9	10.35
W593284		2.17			2.19	6.23	46.3	2000	1.62	3.72	3.30	0.62	76.8	7.2	7	17.55
W593285		2.84			0.32	7.92	19.7	2470	1.35	0.81	2.01	0.29	42.3	5.1	9	10.65
W593286		5.16			0.01	0.13	<0.2	40	0.06	0.07	34.6	0.02	1.26	0.5	1	0.08
W593287		5.13			0.39	7.03	68.3	2330	1.40	0.95	2.65	0.76	37.3	4.5	10	10.40
W593288		4.59			0.33	6.97	32.5	2880	1.31	0.77	2.35	0.38	39.5	8.7	9	8.65
W593289		2.09			0.28	7.23	14.9	1080	0.97	0.37	5.48	0.43	25.2	25.9	331	17.90
W593290		5.03			0.85	6.99	49.4	1070	1.46	0.84	3.17	3.72	35.9	11.5	113	18.40
W593291		0.26	102	0.991	>100	5.32	243	500	0.66	4.53	1.40	24.7	18.40	11.0	63	0.81
W593292		4.77			0.84	6.78	48.5	1460	1.50	1.15	3.32	2.14	34.6	8.3	61	12.75
W593293		3.88			1.11	7.02	45.7	970	1.44	1.70	2.77	2.52	38.4	9.7	74	17.55
W593294		3.22			2.23	6.13	149.5	860	1.52	1.54	2.86	13.65	37.3	9.6	50	21.6
W593295		3.42			0.45	7.09	16.8	950	1.80	0.16	2.81	0.93	65.5	4.9	13	29.0
W593296		5.79			2.13	7.17	88.5	2210	1.92	3.05	3.05	3.65	55.3	7.2	27	25.9
W593297		3.89			2.34	6.86	61.6	890	1.54	2.57	3.47	12.35	34.9	8.9	54	11.55
W593298		<0.02			2.59	7.11	66.6	930	1.61	3.07	3.62	13.15	37.8	9.4	53	12.30
W593299		2.08			0.35	7.08	42.7	930	1.62	0.50	3.84	2.83	34.3	11.5	99	19.90
W593300		3.84			0.19	7.89	11.8	2470	1.73	0.50	2.24	1.58	49.7	7.3	12	8.40
W593301		3.09			0.61	7.84	31.5	4150	1.76	1.53	1.89	2.84	45.9	10.0	12	9.11
W593302		1.08			0.56	7.10	53.4	2000	1.60	2.05	2.86	2.30	40.7	7.3	9	11.70
W593303		3.21			0.49	7.48	56.2	2080	1.74	1.48	2.93	2.56	50.5	8.2	10	11.00
W593304		2.36			0.08	8.17	11.0	2360	1.43	0.18	0.82	0.92	48.0	6.0	9	15.10
W593305		2.18			0.09	8.22	9.0	2270	1.41	0.17	0.93	0.66	48.5	5.2	9	14.85
W593306		4.78			0.14	8.80	10.9	2480	1.54	0.32	0.67	2.87	47.7	5.8	11	11.95
W593307		2.84			0.48	8.52	25.6	2790	1.72	1.37	0.35	5.84	75.1	14.1	9	20.2
W593308		3.86			0.08	7.96	8.9	1530	1.31	0.27	1.68	1.16	42.3	4.8	9	15.80
W593309		3.52			0.18	7.84	23.7	980	1.44	0.67	1.38	5.21	40.6	5.9	9	12.30
W593310		2.51			3.30	6.43	95.9	490	2.02	4.41	3.20	7.48	244	47.8	6	19.60
W593311		0.26	104	1.050	>100	5.51	250	570	0.78	5.01	1.46	26.7	19.75	12.0	64	0.92
W593312		5.28			0.32	7.82	28.2	2260	1.62	0.77	1.54	3.64	51.1	6.5	9	14.15
W593313		4.62			0.10	7.41	8.4	2410	1.75	0.17	2.49	0.53	45.4	6.3	12	8.99
W593314		3.21			0.91	7.53	37.6	2380	1.64	0.75	1.92	5.79	50.6	14.9	12	10.20
W593315		3.40			0.96	8.07	41.1	1740	1.74	1.29	1.25	14.65	54.7	9.8	10	23.8
W593316		1.45			1.95	7.95	69.6	1340	1.63	3.58	0.08	0.42	53.7	1.3	10	18.90
W593317		3.27			0.35	7.62	23.4	3190	1.89	1.00	2.02	3.33	48.1	7.8	11	13.40
W593318		2.83			0.22	7.74	20.2	2320	1.66	0.75	2.04	1.04	44.3	6.7	10	11.65
W593319		3.16			0.61	7.30	29.7	410	1.58	6.54	2.67	1.15	45.6	12.7	10	14.60

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242457

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593280		7.1	2.91	16.20	0.09	0.9	0.059	2.80	17.5	72.1	0.73	808	1.21	0.09	7.2	2.7
W593281		10.0	2.84	17.00	0.10	1.0	0.140	3.06	27.1	39.7	0.61	621	1.31	0.21	7.1	2.1
W593282		7.1	2.98	17.40	0.08	1.0	0.156	3.10	23.4	36.4	0.70	588	1.41	0.15	7.6	2.2
W593283		13.5	2.68	17.45	0.08	1.1	0.339	3.16	21.1	59.5	0.93	727	1.15	0.20	7.3	2.2
W593284		17.6	2.81	15.45	0.11	0.8	0.533	2.44	42.6	45.0	0.91	909	0.33	0.05	5.8	3.0
W593285		12.5	2.56	18.75	0.09	1.1	0.206	3.38	21.0	37.4	0.64	612	2.26	0.45	7.9	2.5
W593286		2.8	0.14	0.40	0.06	0.1	<0.005	0.05	1.2	1.0	1.65	117	0.07	0.05	0.2	0.4
W593287		16.4	2.87	16.60	0.10	1.1	0.172	3.13	18.2	17.4	0.62	736	3.11	1.10	7.3	2.2
W593288		10.8	3.02	16.30	0.12	0.9	0.255	3.02	19.8	12.9	0.68	769	2.53	1.56	7.0	2.9
W593289		40.8	4.95	15.40	0.10	1.6	0.079	1.55	11.3	18.4	3.54	1440	2.32	1.15	5.2	113.0
W593290		16.3	4.00	16.00	0.09	1.6	0.288	2.50	19.9	54.1	1.36	1900	1.11	0.04	5.5	35.6
W593291		6060	5.58	12.15	0.09	1.5	0.434	1.10	7.8	11.6	1.07	1680	20.3	1.57	2.9	27.1
W593292		11.2	3.28	16.00	0.08	1.6	0.197	3.04	17.4	16.4	1.21	1580	0.61	0.04	5.5	18.2
W593293		3.4	4.48	16.35	0.10	1.6	0.218	3.19	20.9	9.6	1.26	1830	0.70	0.05	5.6	21.9
W593294		21.9	4.10	14.00	0.09	1.4	0.381	2.67	20.0	15.9	1.22	1980	1.40	0.04	5.4	15.5
W593295		6.6	2.55	18.15	0.12	2.5	0.023	2.55	32.7	31.1	1.02	939	1.97	0.05	10.4	3.5
W593296		12.6	3.35	17.70	0.19	2.3	0.161	2.97	28.8	23.7	1.07	1940	1.62	0.05	9.8	10.5
W593297		6.7	3.72	14.85	0.16	1.6	0.214	3.27	18.6	9.8	1.40	3290	0.90	0.04	5.8	18.8
W593298		6.8	3.83	15.50	0.16	1.6	0.221	3.37	20.5	10.2	1.45	3430	0.86	0.04	6.1	20.1
W593299		3.0	3.91	15.35	0.17	1.6	0.195	2.96	18.0	16.6	1.62	2330	0.47	0.06	6.0	32.1
W593300		14.7	3.03	17.45	0.16	1.1	0.057	2.83	26.0	12.4	0.76	702	2.60	2.27	8.3	3.4
W593301		56.0	3.57	17.40	0.19	1.1	0.110	2.86	24.6	10.1	0.83	946	2.61	1.89	8.1	3.4
W593302		147.0	3.78	17.20	0.20	1.1	0.239	2.40	20.7	11.4	0.73	1280	6.80	1.46	8.1	3.2
W593303		43.0	3.10	16.90	0.18	1.1	0.171	2.69	26.7	9.2	0.50	1020	3.10	1.32	7.1	2.6
W593304		13.3	2.95	18.40	0.17	1.3	0.054	2.91	24.9	27.6	0.17	697	3.13	0.15	8.9	2.4
W593305		12.5	2.65	18.10	0.16	1.3	0.050	2.89	26.2	27.5	0.17	642	2.32	0.15	8.7	2.3
W593306		24.5	2.81	20.1	0.16	1.4	0.060	3.15	24.7	32.0	0.19	666	2.36	0.11	9.7	2.3
W593307		37.2	4.05	20.0	0.17	1.2	0.158	1.98	43.3	27.8	0.18	1380	7.87	0.17	8.8	4.2
W593308		9.9	3.04	17.45	0.16	1.3	0.049	2.60	22.4	36.1	0.52	958	4.62	0.07	8.4	2.3
W593309		23.8	3.03	17.85	0.16	1.3	0.080	2.31	23.1	33.5	0.43	878	3.13	0.04	8.6	2.3
W593310		27.3	6.70	18.55	0.27	0.6	0.486	2.99	152.5	9.4	1.11	2550	5.23	0.04	4.8	4.4
W593311		6040	5.72	12.90	0.13	1.7	0.448	1.15	8.7	14.0	1.12	1760	21.8	1.62	3.3	29.8
W593312		34.5	3.09	17.65	0.18	1.1	0.087	3.13	27.7	17.7	0.40	823	2.07	0.81	8.2	2.6
W593313		9.9	2.96	17.70	0.19	1.1	0.050	2.80	23.9	10.2	0.78	616	1.78	2.48	8.4	2.8
W593314		30.1	3.95	16.80	0.17	1.1	0.145	2.98	28.0	8.7	0.68	1190	2.16	1.77	7.9	3.2
W593315		26.1	4.88	18.20	0.16	1.2	0.292	3.14	30.8	19.6	0.57	2460	2.27	0.04	8.5	3.0
W593316		18.2	2.50	17.90	0.17	1.1	0.373	3.89	31.2	8.1	0.35	145	6.81	0.04	8.2	1.1
W593317		27.2	3.49	16.60	0.19	1.1	0.072	2.99	25.7	10.6	0.54	912	1.28	1.33	7.8	3.1
W593318		57.5	2.96	17.05	0.20	1.2	0.079	3.35	24.3	8.7	0.52	872	1.78	1.43	7.9	2.8
W593319		44.8	3.84	18.70	0.23	1.1	0.082	3.50	23.5	11.8	0.46	918	1.75	0.39	8.1	3.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242457

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593280		590	18.0	86.9	<0.002	0.07	8.96	9.4	1	3.2	155.5	0.56	<0.05	9.29	0.260	1.39
W593281		590	15.9	136.0	<0.002	0.22	10.85	9.8	1	3.8	108.0	0.59	0.05	13.00	0.248	1.56
W593282		610	18.1	129.5	<0.002	0.30	8.04	10.3	1	3.2	104.5	0.59	0.07	15.45	0.257	1.46
W593283		610	123.5	115.0	<0.002	0.66	8.76	9.3	<1	4.5	157.0	0.58	0.20	10.90	0.253	1.92
W593284		450	48.8	112.0	<0.002	0.99	25.3	8.1	1	5.0	135.0	0.46	2.00	10.70	0.201	1.70
W593285		610	25.5	118.0	<0.002	0.43	7.24	9.8	<1	3.8	136.0	0.62	0.29	12.15	0.268	1.63
W593286		70	0.7	1.4	<0.002	0.01	0.10	0.2	1	<0.2	81.2	<0.05	<0.05	0.13	0.006	<0.02
W593287		600	59.9	103.0	<0.002	0.55	7.73	9.1	1	4.5	222	0.58	0.42	9.18	0.256	1.41
W593288		570	46.0	104.5	<0.002	0.64	5.96	9.0	1	5.7	273	0.55	0.20	10.00	0.247	1.46
W593289		590	27.2	62.9	<0.002	0.64	8.69	22.4	1	1.0	388	0.32	<0.05	3.26	0.369	1.06
W593290		640	109.5	151.5	<0.002	0.69	13.00	10.8	1	1.1	152.0	0.41	<0.05	7.53	0.234	1.91
W593291		450	>10000	26.9	0.008	2.24	445	11.0	2	1.8	186.0	0.18	1.24	1.72	0.234	0.46
W593292		650	67.6	153.0	<0.002	0.63	7.17	8.6	1	0.9	113.5	0.44	<0.05	7.66	0.201	2.41
W593293		620	91.3	185.5	<0.002	0.77	4.90	9.0	1	1.0	115.0	0.46	<0.05	8.54	0.207	2.54
W593294		580	261	165.0	0.002	1.27	15.20	7.2	<1	1.9	108.0	0.42	<0.05	7.49	0.188	2.15
W593295		870	49.8	80.1	<0.002	0.04	8.99	5.4	1	1.7	115.5	0.68	<0.05	8.60	0.248	1.52
W593296		840	190.5	124.0	0.002	0.82	7.53	7.0	<1	1.8	136.5	0.69	0.12	9.48	0.239	2.50
W593297		650	771	189.5	0.002	0.87	5.14	8.7	<1	1.3	134.5	0.48	0.05	8.66	0.199	3.07
W593298		650	755	216	<0.002	0.92	5.39	9.2	<1	1.3	141.5	0.50	0.05	9.28	0.204	3.16
W593299		650	70.4	157.5	<0.002	0.81	4.93	10.9	<1	1.1	160.5	0.49	<0.05	8.42	0.224	2.65
W593300		650	23.2	99.1	<0.002	0.05	2.77	11.3	<1	1.9	386	0.61	0.08	11.60	0.279	1.16
W593301		680	27.9	106.5	<0.002	0.48	3.47	12.0	<1	2.0	344	0.54	0.23	11.60	0.288	1.35
W593302		660	13.1	90.4	<0.002	0.93	5.44	11.6	1	2.3	185.0	0.60	0.35	10.15	0.256	1.75
W593303		630	13.9	110.5	<0.002	0.98	6.06	10.8	<1	1.6	159.5	0.56	0.50	11.30	0.239	2.01
W593304		690	15.7	113.5	0.002	0.06	14.95	12.0	<1	2.1	71.0	0.71	<0.05	13.45	0.290	1.22
W593305		680	15.7	113.0	<0.002	0.05	14.60	11.9	<1	2.1	74.0	0.69	<0.05	13.90	0.294	1.17
W593306		730	19.6	119.0	<0.002	0.09	20.2	12.2	<1	2.2	69.2	0.76	0.05	14.60	0.306	1.23
W593307		640	19.1	94.3	<0.002	0.21	24.4	12.3	<1	3.6	53.5	0.69	0.10	14.75	0.279	1.03
W593308		640	13.4	78.0	<0.002	0.04	15.70	11.1	<1	2.3	89.5	0.71	<0.05	12.35	0.275	1.05
W593309		660	11.8	95.9	0.002	0.41	17.55	11.6	<1	2.3	64.1	0.68	0.19	13.20	0.267	1.21
W593310		470	91.6	160.5	<0.002	2.63	14.55	9.3	1	5.5	83.5	0.35	2.38	8.89	0.156	2.24
W593311		470	>10000	29.3	0.010	2.31	457	12.9	2	2.1	193.5	0.21	1.41	1.91	0.242	0.56
W593312		640	25.6	118.0	<0.002	0.22	11.15	11.5	<1	2.3	151.5	0.61	0.17	12.55	0.272	1.48
W593313		630	17.4	97.0	0.002	0.06	2.06	11.3	<1	2.0	387	0.60	<0.05	11.50	0.266	1.07
W593314		620	106.5	129.0	0.003	0.89	5.14	11.1	1	2.8	293	0.61	0.27	12.20	0.260	1.48
W593315		650	106.5	177.0	<0.002	0.96	12.25	12.1	1	3.0	66.7	0.64	0.45	14.25	0.266	2.31
W593316		270	298	255	<0.002	0.74	13.45	11.4	3	4.2	59.8	0.62	1.12	9.85	0.262	3.15
W593317		600	25.7	127.0	<0.002	0.68	6.31	10.8	1	2.0	265	0.61	0.22	12.15	0.255	1.58
W593318		620	20.5	152.5	<0.002	0.20	4.99	10.6	<1	1.7	257	0.60	0.12	12.25	0.258	1.81
W593319		620	27.5	167.5	<0.002	2.44	8.25	11.8	4	3.8	150.5	0.58	1.39	11.20	0.253	2.31

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242457

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593280		2.3	70	1.8	12.6	72	22.9	<0.005
W593281		3.2	68	2.0	13.1	68	25.3	0.007
W593282		3.0	70	1.9	14.4	73	27.3	0.011
W593283		2.4	68	1.8	12.5	195	25.4	0.055
W593284		4.4	60	2.1	18.5	91	20.9	0.049
W593285		3.1	71	2.0	13.3	75	29.4	0.017
W593286		0.2	1	<0.1	2.6	4	1.7	<0.005
W593287		3.4	70	1.9	13.6	92	29.0	0.017
W593288		3.3	69	1.8	13.2	73	23.5	0.020
W593289		1.6	165	1.7	14.0	168	57.0	<0.005
W593290		4.3	89	2.6	10.3	405	50.2	0.040
W593291		1.2	78	0.5	12.7	5000	46.5	0.301
W593292		4.6	75	1.5	9.5	239	47.3	0.010
W593293		4.8	77	2.6	9.5	305	48.0	0.007
W593294		5.7	64	3.5	8.3	1200	44.3	0.078
W593295		4.9	48	2.0	12.2	144	84.5	<0.005
W593296		7.7	58	2.7	11.6	379	79.7	0.070
W593297		4.8	73	2.4	9.3	937	49.1	0.063
W593298		5.0	75	2.4	10.1	949	50.5	0.065
W593299		4.2	86	1.9	10.3	297	52.8	0.013
W593300		2.5	75	1.9	17.1	170	32.8	0.009
W593301		3.0	81	1.3	16.5	464	31.2	0.014
W593302		3.5	82	1.2	18.4	377	31.0	0.017
W593303		4.0	73	1.2	16.6	290	29.0	0.014
W593304		3.3	81	13.7	16.3	184	34.8	0.006
W593305		2.9	77	12.8	16.8	139	34.7	0.007
W593306		3.9	82	12.1	15.9	218	39.2	0.008
W593307		4.7	84	6.2	25.0	727	33.6	0.015
W593308		2.6	74	3.0	14.8	177	33.8	0.006
W593309		2.7	73	2.6	16.5	367	35.8	0.015
W593310		13.0	90	3.0	26.5	664	17.3	0.481
W593311		1.4	81	0.6	14.5	5150	59.7	0.278
W593312		3.7	72	1.9	18.0	507	30.1	0.012
W593313		2.7	73	0.8	17.4	103	34.0	0.005
W593314		3.1	71	1.1	16.9	467	29.8	0.015
W593315		4.1	72	2.0	16.8	994	32.2	0.019
W593316		2.6	70	7.0	4.9	153	32.1	0.064
W593317		2.6	70	1.4	15.6	354	32.7	0.012
W593318		2.4	70	1.4	14.9	336	32.2	0.008
W593319		2.5	72	2.5	13.7	164	34.1	0.024

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242457

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19242458

Project: Klaza

P.O. No.: 19-038

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242458

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593320		3.76			0.17	7.37	11.1	2330	1.64	0.33	2.11	0.37	46.6	6.7	12	9.42
W593321		4.72			0.24	7.53	11.2	2330	1.74	0.30	2.30	0.68	46.3	6.9	10	10.05
W593322		1.42			0.23	7.81	13.8	2110	1.81	0.48	2.17	0.63	47.6	6.2	10	10.85
W593323		1.63			1.41	6.75	93.1	490	1.80	6.42	1.62	1.76	49.1	19.5	9	11.35
W593325		2.76			0.21	7.35	38.8	2660	1.45	1.13	1.72	1.14	46.3	7.3	8	9.74
W593326		0.26	100	0.994	>100	5.51	241	570	0.79	4.74	1.45	26.4	19.45	11.8	64	0.88
W593327		4.72			0.45	7.82	38.5	2330	1.74	0.81	1.30	3.07	51.7	11.4	8	11.70
W593328		4.63			0.12	7.51	6.4	2300	1.81	0.29	2.57	0.31	48.0	7.1	10	10.25
W593329		4.26			0.26	7.47	13.5	2290	1.76	0.48	2.57	0.99	49.4	7.9	11	7.93
W593330		3.47			0.34	7.39	17.7	3490	1.92	1.14	2.82	0.34	52.9	8.0	9	10.70
W593331		1.79			0.19	6.91	21.6	1900	1.72	0.48	2.80	1.47	34.1	6.4	8	14.45
W593332		0.81			5.50	7.18	82.3	460	1.55	28.5	1.25	6.45	44.8	9.2	9	8.48
W593333		0.81			3.57	6.55	71.1	230	1.61	21.0	1.32	4.10	37.3	8.6	8	7.44
W593334		3.60			0.60	6.62	58.7	1960	1.57	1.11	2.56	1.63	40.0	6.9	10	10.40
W593335		2.69			0.64	7.03	48.7	2110	1.69	0.45	2.52	3.16	48.6	6.5	10	9.69
W593336		3.62			1.01	7.03	66.9	2070	1.83	0.42	1.87	9.23	44.5	7.3	10	15.25
W593337		1.34			3.19	7.27	269	110	1.26	2.67	0.08	9.51	43.5	6.6	9	8.43
W593338		2.74			1.41	7.34	202	940	1.89	0.50	1.27	21.1	55.0	7.6	8	18.50
W593339		1.24			1.31	6.03	220	330	0.85	1.88	0.08	2.51	33.3	3.9	8	9.06
W593340		5.12			0.01	0.13	<0.2	30	0.10	0.02	32.6	0.06	0.99	0.6	1	0.07
W593341		2.51			0.99	6.81	112.5	1360	1.56	0.82	2.24	60.2	48.6	7.1	9	12.35
W593342		1.65			3.37	6.31	203	190	1.31	3.16	0.65	19.05	42.9	4.2	7	25.3
W593343		3.41			1.08	7.38	101.5	1350	1.73	1.08	0.85	14.15	46.1	5.7	9	13.80
W593344		4.79			0.87	7.02	68.7	1410	1.60	0.95	2.08	2.55	45.0	6.9	9	19.60
W593345		1.16			0.64	6.65	87.9	1550	1.58	0.25	2.68	6.99	49.9	6.6	7	25.2
W593346		2.21			0.24	7.17	145.5	2200	1.51	0.91	1.59	1.45	44.0	8.2	8	20.5
W593347		<0.02			0.25	7.43	150.5	2220	1.61	0.95	1.62	1.49	47.1	8.5	8	21.2
W593348		4.30			0.26	7.88	93.3	1950	1.51	0.58	1.01	0.77	87.0	7.4	8	14.95
W593349		3.23			0.65	6.09	161.0	2680	1.93	1.89	1.71	14.65	45.9	11.3	7	20.6
W593350		1.84			4.08	4.39	248	130	1.72	13.55	2.02	24.5	77.5	50.1	7	18.10
W593351		2.03			0.56	5.96	205	1190	1.71	2.13	1.07	35.2	51.6	21.0	6	20.3
W593352		2.12			0.31	6.88	145.5	2460	1.49	0.92	1.18	7.39	45.4	10.7	8	21.7
W593353		1.34			3.41	4.56	169.0	180	1.55	5.72	0.63	17.70	67.5	25.7	9	9.06
W593354		3.52			1.34	7.23	96.8	1310	1.74	2.04	1.35	1.97	49.5	8.9	9	13.75
W593355		0.26	104	1.040	>100	5.50	254	540	0.72	4.82	1.45	26.3	19.85	11.7	64	0.86
W593356		4.84			0.15	7.17	13.6	1710	1.16	0.12	1.67	1.83	34.6	5.2	9	15.05
W593357		5.11			0.25	6.75	20.8	2260	1.61	0.40	2.43	0.36	38.3	6.1	9	14.95
W593358		4.25			0.13	7.13	10.2	2400	1.57	0.22	2.76	0.16	38.7	7.0	12	9.94
W593359		2.99			0.14	7.32	10.0	2270	1.67	0.18	2.76	0.35	39.9	6.2	12	14.80
W593360		2.70			0.33	7.56	15.7	2250	1.68	0.32	2.42	1.62	45.8	6.5	12	12.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242458

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593320		19.1	2.94	15.85	0.17	1.1	0.052	2.82	24.8	10.3	0.68	564	1.68	2.01	7.7	2.4
W593321		20.6	2.82	16.80	0.18	1.2	0.068	2.90	24.7	12.6	0.70	556	1.29	2.09	8.4	2.6
W593322		31.2	3.06	17.70	0.22	1.3	0.089	3.07	25.6	14.8	0.70	655	1.39	1.74	8.8	2.4
W593323		133.5	4.95	15.90	0.18	1.0	0.363	3.21	29.0	8.6	0.65	1160	1.24	0.07	6.4	2.4
W593325		33.5	3.35	16.20	0.17	1.1	0.175	3.02	24.3	23.9	0.62	1050	1.50	0.06	7.6	2.5
W593326		6000	5.69	12.80	0.21	1.8	0.440	1.13	8.5	13.5	1.11	1720	21.6	1.62	3.4	29.0
W593327		70.6	3.25	17.15	0.19	1.3	0.117	3.17	27.9	19.3	0.45	699	2.06	0.91	8.4	3.0
W593328		14.8	2.83	17.25	0.17	1.3	0.045	2.78	25.6	10.6	0.69	637	0.88	2.31	8.6	2.5
W593329		28.1	3.09	17.00	0.18	1.1	0.117	2.76	26.0	10.6	0.77	808	2.33	2.25	8.4	2.5
W593330		34.4	2.94	17.95	0.18	1.1	0.207	3.05	27.8	9.0	0.57	894	17.80	1.91	8.5	2.7
W593331		19.1	2.86	16.50	0.18	1.1	0.089	2.98	17.2	11.4	0.71	942	24.4	1.47	8.0	2.4
W593332		247	5.43	16.20	0.19	1.0	0.387	3.46	23.1	6.5	0.44	707	1.91	0.04	7.4	2.6
W593333		35.1	4.71	14.00	0.15	0.8	0.329	3.25	19.0	5.6	0.44	759	3.28	0.06	5.8	1.9
W593334		45.8	3.07	15.75	0.16	1.0	0.162	3.37	19.7	8.4	0.45	1120	1.60	0.70	7.2	2.4
W593335		25.6	2.84	16.00	0.18	1.1	0.129	3.09	24.9	8.1	0.66	927	1.86	1.48	7.6	2.2
W593336		15.2	3.45	16.70	0.18	1.2	0.152	3.19	22.2	17.1	0.55	1520	1.08	0.57	7.7	2.6
W593337		15.4	5.25	16.30	0.16	1.1	0.592	3.34	21.5	5.2	0.20	74	1.07	0.04	7.4	2.3
W593338		11.9	3.99	15.90	0.18	1.0	0.229	3.24	30.0	9.2	0.67	2100	1.20	0.03	7.2	2.6
W593339		5.4	3.77	11.40	0.13	0.9	0.053	2.59	17.3	15.1	0.10	51	1.26	0.03	5.7	1.9
W593340		2.2	0.10	0.40	0.11	0.2	0.005	0.04	1.1	1.3	1.64	107	0.05	0.05	0.2	0.4
W593341		11.7	3.80	14.40	0.16	1.0	0.164	3.14	25.8	8.2	0.78	4580	6.12	0.03	6.9	2.5
W593342		49.0	5.21	15.85	0.15	0.9	0.545	2.73	22.7	12.0	0.29	586	3.64	0.03	6.1	1.2
W593343		19.7	4.88	15.90	0.14	1.1	0.560	3.21	24.3	20.0	0.41	2200	1.16	0.06	7.1	2.1
W593344		22.8	3.71	15.95	0.15	1.1	0.193	3.02	23.1	15.9	0.81	1980	1.89	0.06	7.5	2.6
W593345		20.7	3.59	14.80	0.16	1.0	0.138	2.61	26.4	17.1	0.97	3460	1.65	0.07	7.0	2.1
W593346		15.9	3.16	16.60	0.14	1.2	0.077	2.47	23.5	31.0	0.48	1020	39.7	0.45	8.6	2.6
W593347		16.4	3.30	17.10	0.14	1.2	0.075	2.59	24.5	31.6	0.49	1060	37.0	0.47	8.6	2.7
W593348		13.2	3.43	17.65	0.19	1.3	0.092	2.55	49.9	23.4	0.41	1240	42.6	0.07	8.3	2.7
W593349		7.8	4.01	15.40	0.15	0.9	0.300	2.37	26.3	24.2	0.62	2090	4.62	0.05	6.0	3.3
W593350		19.3	6.97	12.40	0.18	0.6	0.244	1.87	42.8	28.3	0.74	2830	6.61	0.03	4.0	5.4
W593351		16.7	4.59	14.55	0.14	0.9	0.162	2.50	29.7	20.2	0.44	2640	14.75	0.04	5.7	4.7
W593352		10.6	3.27	15.85	0.15	1.0	0.125	2.79	26.6	13.3	0.46	1410	6.45	0.04	6.8	2.9
W593353		78.4	5.67	12.45	0.16	0.7	0.277	2.11	37.2	21.1	0.44	2110	4.42	0.03	4.8	4.0
W593354		150.0	4.19	16.50	0.16	1.0	0.309	2.99	27.9	11.7	0.74	1440	1.36	0.05	7.2	2.4
W593355		6050	5.70	12.55	0.11	1.5	0.437	1.13	8.5	13.2	1.11	1720	20.3	1.61	3.2	28.4
W593356		10.1	2.78	16.15	0.13	1.0	0.051	2.49	16.9	39.8	0.56	936	0.70	0.08	7.6	1.9
W593357		17.8	2.86	16.00	0.18	0.9	0.102	2.79	18.9	19.1	0.53	875	0.73	1.30	7.4	2.1
W593358		19.9	2.97	16.40	0.21	1.0	0.063	2.73	19.1	9.2	0.72	695	0.64	2.15	7.5	2.5
W593359		12.4	3.04	16.80	0.17	1.1	0.063	2.79	19.7	12.8	0.68	822	0.63	1.90	8.0	2.2
W593360		18.3	3.23	16.40	0.21	1.1	0.104	2.82	23.3	13.4	0.77	866	0.82	1.63	7.7	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242458

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593320		610	17.6	101.0	<0.002	0.13	2.85	10.1	1	1.6	331	0.59	<0.05	12.10	0.256	1.19
W593321		600	23.8	103.5	<0.002	0.15	3.63	10.4	1	1.8	341	0.65	0.15	12.65	0.264	1.15
W593322		620	18.5	115.5	0.002	0.20	4.59	11.1	<1	3.1	296	0.69	0.25	13.05	0.264	1.37
W593323		480	83.9	191.0	0.003	3.33	13.25	9.6	1	7.8	47.7	0.50	1.24	11.25	0.198	2.36
W593325		580	17.9	128.5	0.002	0.90	11.10	10.6	1	3.1	93.9	0.62	0.29	12.20	0.240	1.80
W593326		470	>10000	29.5	0.012	2.31	454	12.9	2	2.0	193.5	0.20	1.42	1.92	0.242	0.57
W593327		630	36.9	131.0	<0.002	0.46	13.55	10.9	1	2.2	162.5	0.70	0.12	14.00	0.249	1.68
W593328		610	20.3	101.0	<0.002	0.12	2.14	10.9	<1	1.9	382	0.68	0.09	12.50	0.259	1.12
W593329		610	32.5	98.8	<0.002	0.30	3.82	11.8	<1	2.1	360	0.69	0.10	13.40	0.268	1.18
W593330		590	17.9	122.5	0.003	0.80	5.07	11.2	1	2.4	340	0.65	0.21	12.00	0.255	1.62
W593331		590	19.0	103.0	0.002	0.28	4.81	9.8	1	2.0	251	0.65	0.07	9.84	0.250	1.62
W593332		570	243	196.5	<0.002	4.67	6.68	11.5	3	4.2	35.2	0.56	3.76	10.80	0.240	2.69
W593333		530	145.0	175.0	<0.002	3.77	4.21	8.5	3	3.7	37.7	0.42	3.87	8.91	0.204	2.48
W593334		560	42.5	146.0	<0.002	1.24	4.16	8.9	1	4.0	164.5	0.57	0.29	10.25	0.234	2.33
W593335		560	149.5	131.0	0.002	0.46	3.33	9.5	1	2.1	267	0.59	0.11	12.25	0.233	1.78
W593336		570	311	150.0	0.002	0.56	7.15	9.6	1	2.3	162.0	0.61	0.11	11.85	0.236	2.26
W593337		360	689	174.5	<0.002	5.34	5.68	9.7	2	5.0	23.7	0.57	0.74	12.15	0.242	2.67
W593338		590	504	168.5	<0.002	1.13	8.42	10.1	1	2.7	53.3	0.50	0.08	12.90	0.242	3.00
W593339		370	77.9	111.0	0.002	3.69	17.60	7.7	1	3.9	36.4	0.38	0.49	10.95	0.198	1.56
W593340		70	1.4	1.3	<0.002	0.01	0.06	0.2	1	<0.2	76.9	<0.05	<0.05	0.13	0.006	0.04
W593341		540	277	152.5	<0.002	1.64	7.63	8.5	<1	2.5	56.6	0.56	0.16	12.40	0.222	2.75
W593342		460	218	145.0	0.002	3.56	13.90	8.7	2	8.2	67.2	0.47	0.87	10.35	0.197	2.33
W593343		610	338	168.5	<0.002	0.72	10.95	9.8	1	3.5	67.8	0.55	0.22	12.45	0.233	2.56
W593344		590	97.9	134.5	0.002	0.79	10.55	9.3	1	3.0	101.0	0.54	0.20	10.75	0.249	2.39
W593345		520	241	108.0	<0.002	0.55	8.82	8.7	1	3.3	95.8	0.56	0.06	12.20	0.219	2.05
W593346		630	15.3	96.3	0.002	0.27	10.95	10.3	1	3.1	124.0	0.68	0.25	11.30	0.263	1.48
W593347		640	15.7	95.4	<0.002	0.28	11.20	10.2	1	3.1	126.5	0.68	0.25	11.40	0.268	1.43
W593348		640	16.0	111.5	<0.002	0.25	14.40	10.6	<1	3.7	64.3	0.68	0.14	13.35	0.263	1.59
W593349		470	42.2	110.0	<0.002	0.63	29.2	7.8	1	3.8	43.8	0.48	0.45	10.85	0.187	1.75
W593350		430	118.0	111.5	<0.002	3.35	39.3	7.3	2	3.2	35.1	0.30	7.64	8.31	0.127	1.50
W593351		510	40.7	133.0	<0.002	1.20	25.1	8.4	1	2.9	29.7	0.46	0.68	11.45	0.181	1.82
W593352		550	25.4	128.5	<0.002	0.52	13.15	9.1	<1	2.9	40.6	0.52	0.20	12.00	0.220	1.81
W593353		420	129.0	127.0	<0.002	2.83	32.8	7.8	1	6.9	29.8	0.36	2.24	8.09	0.148	1.50
W593354		540	63.5	160.0	<0.002	1.05	27.4	9.6	1	7.1	47.6	0.59	0.32	12.45	0.231	2.02
W593355		470	10000	29.1	0.013	2.32	450	11.8	2	2.0	193.0	0.19	1.33	1.84	0.243	0.53
W593356		580	17.0	81.2	<0.002	0.04	13.00	9.3	<1	1.7	157.0	0.54	<0.05	8.94	0.250	1.20
W593357		550	20.0	96.2	<0.002	0.22	6.47	8.7	<1	2.3	244	0.56	0.08	9.59	0.237	1.40
W593358		600	18.7	92.7	<0.002	0.13	1.71	9.4	<1	1.9	371	0.49	<0.05	9.93	0.252	1.23
W593359		620	37.2	95.0	<0.002	0.04	2.62	9.9	<1	1.9	335	0.59	<0.05	9.59	0.267	1.37
W593360		610	91.7	108.5	<0.002	0.11	3.87	9.9	1	2.1	301	0.55	<0.05	11.05	0.258	1.38

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242458

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593320		2.4	68	1.3	15.0	156	31.9	0.006
W593321		2.3	70	2.4	14.0	99	35.0	0.008
W593322		2.9	72	1.4	15.9	115	35.9	0.010
W593323		3.0	58	2.8	13.3	193	28.8	0.078
W593325		2.9	69	3.8	16.3	245	31.1	0.014
W593326		1.3	81	0.6	14.2	5060	56.9	0.295
W593327		3.0	67	2.4	16.8	654	34.9	0.010
W593328		2.7	69	1.2	17.0	101	34.6	<0.005
W593329		3.5	76	1.2	17.1	146	31.1	0.008
W593330		3.5	69	1.7	17.1	97	32.6	0.008
W593331		4.4	66	1.4	12.9	196	30.9	0.005
W593332		2.8	69	3.9	10.6	502	27.9	0.052
W593333		2.8	61	2.9	9.5	360	20.5	0.049
W593334		4.0	65	1.8	11.3	229	28.5	0.051
W593335		4.0	65	1.3	15.1	305	31.0	0.010
W593336		3.2	66	1.8	13.8	984	32.2	0.041
W593337		4.5	66	3.7	8.9	130	29.9	0.080
W593338		5.2	67	4.4	14.3	1620	30.7	0.048
W593339		2.8	56	4.4	7.5	172	24.3	0.275
W593340		0.2	1	0.1	2.0	6	1.6	<0.005
W593341		4.6	61	3.4	21.6	3580	26.2	0.041
W593342		6.3	61	4.2	7.5	1140	24.3	0.165
W593343		5.2	66	3.4	11.5	1300	29.0	0.028
W593344		3.0	69	3.4	12.9	510	30.6	0.026
W593345		4.6	60	3.1	13.5	932	27.8	0.102
W593346		3.3	72	2.1	13.6	646	32.9	0.013
W593347		3.5	74	2.1	14.2	672	34.0	0.015
W593348		4.8	72	3.3	15.9	378	35.2	0.562
W593349		5.1	64	3.0	14.6	1360	23.8	0.017
W593350		5.7	60	2.5	17.7	2020	16.8	0.417
W593351		5.9	58	2.0	17.8	2870	24.0	0.023
W593352		5.0	61	2.3	14.1	1160	27.9	0.011
W593353		4.3	57	2.6	17.2	2110	18.2	0.076
W593354		4.4	67	2.3	12.1	353	27.6	0.028
W593355		1.3	80	0.6	14.8	5070	50.4	0.260
W593356		2.7	67	2.3	11.8	282	29.3	0.006
W593357		3.2	66	1.4	12.7	92	26.8	0.008
W593358		3.2	69	1.0	14.1	50	31.1	<0.005
W593359		3.6	73	1.2	15.3	75	31.4	<0.005
W593360		4.4	71	1.2	15.4	173	29.3	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242458

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19242464

Project: Klaza

P.O. No.: 19-041

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242464

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593361		5.05			0.21	7.46	27.8	2280	1.45	0.39	1.81	0.47	41.8	6.6	9	10.70
W593362		3.28			0.26	6.62	22.8	2730	1.37	0.45	2.58	1.19	23.4	5.4	9	10.35
W593363		4.68			0.14	6.80	11.2	2120	1.57	0.22	2.60	0.21	35.9	7.4	9	11.55
W593364		5.08			0.07	7.18	6.1	2250	1.62	0.11	2.51	0.12	42.7	6.9	11	12.30
W593365		4.68			0.08	6.98	6.4	2180	1.70	0.12	2.44	0.10	41.3	6.5	9	10.65
W593366		5.39			0.08	7.16	7.6	2090	1.54	0.14	2.40	0.12	36.9	6.3	9	10.20
W593367		<0.02			0.08	7.09	7.1	2020	1.53	0.13	2.33	0.11	42.3	6.2	9	10.40
W593368		4.98			0.12	7.27	8.8	2290	1.69	0.14	2.30	0.19	41.7	5.6	9	9.55
W593369		5.22			0.24	7.63	13.5	2380	1.59	0.27	2.38	0.45	51.5	6.3	9	10.80
W593370		5.38			0.32	7.56	14.0	2230	1.65	0.40	2.64	0.68	43.1	5.7	10	9.48
W593371		5.08			0.39	8.27	27.9	2230	1.87	0.93	3.06	0.33	54.5	13.9	8	14.40
W593372		5.32			0.46	7.47	18.9	1980	1.61	0.67	2.25	0.40	52.7	8.0	10	7.23
W593373		3.77			0.78	7.65	35.1	1680	1.81	0.76	2.52	2.66	49.7	7.0	9	12.45
W593374		4.95			0.01	0.10	0.2	30	0.09	0.16	35.2	0.02	1.13	0.7	2	0.06
W593375		4.92			0.15	7.44	8.7	1790	1.59	0.25	2.36	0.26	65.2	5.9	10	10.90
W593376		1.38			3.49	7.01	137.5	740	1.72	3.93	2.66	2.10	46.7	6.4	11	16.00
W593377		4.38			0.16	7.70	34.7	2260	1.71	0.21	2.61	0.20	50.9	7.7	12	10.40
W593378		4.91			0.26	7.73	11.1	2440	1.55	0.65	2.66	0.57	49.9	7.8	10	12.05
W593379		4.68			0.06	7.68	5.0	2410	1.76	0.10	2.68	0.13	48.3	7.3	10	14.00
W593380		3.14			0.06	7.47	5.6	2350	1.62	0.10	2.49	0.13	43.1	6.8	10	12.60
W593381		1.77			0.14	7.53	7.8	2170	1.44	0.20	2.85	0.24	47.2	7.3	12	11.45
W593382		1.91			0.14	7.46	9.0	2320	1.61	0.20	2.99	0.31	45.5	7.2	10	14.05
W593383		1.07			0.29	7.52	175.5	2250	1.64	0.38	3.18	0.36	46.7	7.2	10	13.05
W593384		3.98			0.06	7.16	6.7	2310	1.82	0.11	3.03	0.14	42.8	7.0	10	17.40
W593385		4.14			2.72	7.31	1210	520	1.48	4.18	2.05	3.11	47.0	7.5	10	18.45
W593386		3.52			0.81	7.16	36.0	1980	1.58	1.09	2.34	1.20	41.7	5.7	8	16.70
W593387		2.93			1.43	7.46	71.9	1680	1.61	1.54	2.39	4.86	45.0	6.3	12	14.15
W593388		1.81			2.12	7.79	148.0	940	1.81	1.15	1.35	30.3	58.4	6.3	10	22.8
W593389		0.26	107	1.085	>100	5.56	250	550	0.66	4.99	1.45	26.0	19.85	12.1	65	0.91
W593390		5.30			0.68	7.76	213	2380	1.61	0.33	2.69	2.89	47.3	6.7	11	13.85
W593391		3.50			0.23	7.03	45.0	2060	1.56	0.12	2.61	0.51	39.2	6.3	9	23.0
W593392		3.32			0.17	7.58	9.7	2350	1.56	0.24	2.47	0.24	48.0	6.0	10	16.00
W593393		3.24			0.10	7.66	6.5	2230	1.74	0.10	2.83	0.12	47.3	7.2	11	10.80
W593394		5.03			0.25	7.77	13.6	2230	1.60	0.19	2.31	0.29	48.4	6.6	9	20.3
W593395		4.67			0.18	7.78	9.7	2500	1.59	0.23	3.14	0.27	54.0	7.2	11	9.82
W593396		0.26	105	1.055	>100	5.69	250	620	0.72	4.85	1.49	25.9	20.0	12.0	66	0.93
W593397		6.18			0.82	7.37	19.2	2430	1.50	0.37	2.82	0.81	43.8	6.7	10	11.65
W593398		3.32			1.24	6.76	105.5	1590	1.46	1.25	2.73	4.93	43.7	8.7	9	16.50
W593399		1.51	102		>100	5.58	533	130	1.01	77.9	4.22	18.85	56.8	113.0	7	7.65
W593400		2.32			1.33	7.00	74.3	720	1.50	0.68	2.15	7.66	45.5	5.7	7	27.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242464

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593361		20.6	3.10	16.80	0.16	1.1	0.101	2.82	20.6	21.0	0.47	736	1.46	0.66	7.8	2.5
W593362		7.8	2.08	14.55	0.18	1.1	0.060	2.88	10.5	11.2	0.55	769	2.04	0.88	6.7	2.1
W593363		27.4	2.76	16.60	0.21	1.2	0.056	2.61	17.8	33.7	0.60	604	1.26	1.18	8.3	2.3
W593364		7.6	2.88	16.15	0.17	1.1	0.046	2.67	21.3	15.4	0.74	541	2.29	2.23	7.7	2.7
W593365		10.0	2.72	15.90	0.17	1.0	0.043	2.66	21.0	15.3	0.74	522	0.75	2.02	7.5	2.3
W593366		6.5	2.81	15.95	0.19	1.1	0.046	2.72	18.1	14.7	0.73	550	4.23	2.14	7.6	2.2
W593367		7.2	2.76	16.05	0.19	1.1	0.046	2.60	21.6	14.5	0.72	529	1.72	2.06	7.7	2.5
W593368		10.8	2.88	16.25	0.20	1.1	0.050	2.83	21.0	17.0	0.72	576	1.05	2.15	8.0	2.2
W593369		16.7	3.09	16.80	0.14	1.2	0.068	2.87	26.3	12.7	0.79	672	1.16	2.10	8.3	4.3
W593370		35.1	2.99	16.70	0.16	1.3	0.116	2.73	21.8	10.6	0.75	753	1.14	2.19	8.3	2.9
W593371		75.9	4.04	21.2	0.17	1.2	0.231	2.52	29.2	12.7	0.90	991	1.89	2.28	8.5	2.9
W593372		49.0	3.17	15.70	0.13	1.2	0.185	2.12	28.9	11.3	0.78	965	1.92	2.31	7.4	3.1
W593373		35.9	3.44	17.50	0.14	1.3	0.220	2.90	26.9	14.5	0.68	1420	2.49	1.05	7.9	2.7
W593374		2.1	0.12	0.28	0.10	<0.1	0.005	0.04	1.2	0.9	1.52	118	0.09	0.04	0.1	1.2
W593375		8.6	2.87	15.65	0.17	1.5	0.057	2.92	34.7	9.7	0.66	741	1.30	1.88	8.3	2.4
W593376		146.5	4.90	16.80	0.13	1.3	0.328	3.07	24.0	16.4	0.63	1820	1.00	0.26	7.6	2.6
W593377		21.9	3.14	17.30	0.15	1.4	0.054	2.83	26.6	12.4	0.85	660	1.38	2.25	8.4	2.8
W593378		12.9	3.07	17.25	0.14	1.2	0.056	2.86	25.0	15.3	0.86	623	3.30	2.32	8.2	2.6
W593379		9.8	3.02	17.70	0.13	1.3	0.048	2.89	24.4	20.1	0.83	570	2.01	2.42	8.3	2.6
W593380		8.6	3.04	16.55	0.14	1.2	0.041	2.88	21.2	15.4	0.80	604	2.09	2.20	8.1	2.6
W593381		19.2	3.02	16.95	0.14	1.2	0.066	2.67	23.7	11.5	0.78	696	1.68	2.15	8.0	2.7
W593382		14.5	3.02	17.30	0.16	1.2	0.055	2.74	22.9	12.3	0.76	719	1.92	1.92	8.4	2.6
W593383		21.8	3.24	16.70	0.15	1.2	0.061	2.81	24.1	13.2	0.80	837	1.94	1.85	8.1	2.6
W593384		11.1	2.96	16.95	0.15	1.4	0.048	2.69	20.3	9.4	0.72	668	2.27	2.21	8.8	2.7
W593385		57.6	4.73	16.25	0.11	1.2	0.236	3.21	23.8	18.5	0.71	1160	3.01	0.41	8.1	2.7
W593386		35.2	3.44	16.50	0.11	1.2	0.192	3.32	19.9	16.3	0.71	1240	1.77	0.49	8.4	2.3
W593387		72.4	3.87	16.55	0.13	1.1	0.319	3.47	22.5	8.8	0.79	1440	2.32	0.94	7.8	2.8
W593388		66.8	5.14	17.50	0.16	1.1	0.557	3.36	31.5	20.1	0.63	1640	1.59	0.26	8.1	2.8
W593389		6280	5.81	12.40	0.12	1.7	0.452	1.14	8.6	13.3	1.12	1760	22.9	1.62	3.3	29.8
W593390		25.3	3.27	16.75	0.13	1.3	0.101	3.26	24.3	9.3	0.75	899	1.90	1.77	8.1	2.6
W593391		8.6	2.83	16.65	0.13	1.3	0.044	2.86	18.8	25.3	0.72	869	1.79	1.13	8.4	2.4
W593392		14.6	2.91	16.70	0.15	1.3	0.062	2.98	24.2	28.1	0.69	747	1.82	1.47	8.3	2.3
W593393		16.8	2.98	16.75	0.15	1.4	0.042	2.69	23.3	9.2	0.74	573	2.42	2.31	8.4	2.7
W593394		26.3	2.80	17.30	0.15	1.3	0.057	2.77	24.1	27.1	0.56	663	2.36	1.20	8.6	2.4
W593395		28.8	3.03	16.55	0.17	1.1	0.065	2.83	29.0	11.6	0.79	741	3.05	2.11	7.8	2.5
W593396		6440	5.96	12.30	0.09	1.8	0.451	1.20	8.6	13.3	1.14	1800	22.8	1.66	3.3	31.5
W593397		59.8	2.92	16.30	0.13	1.0	0.092	2.94	22.7	9.7	0.68	780	3.96	1.70	7.7	2.3
W593398		103.0	3.14	16.10	0.15	1.0	0.311	3.34	23.5	20.2	0.77	1780	6.91	0.09	7.8	2.0
W593399		34.3	12.10	11.95	0.14	0.7	0.917	2.73	34.1	8.8	1.36	3150	5.29	0.03	5.4	3.8
W593400		40.7	3.50	15.20	0.11	0.9	0.359	2.50	24.4	38.1	0.86	1620	2.24	0.04	7.0	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242464

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593361		600	24.3	99.1	0.002	0.25	9.63	9.6	1	2.5	152.5	0.58	<0.05	10.45	0.257	1.31
W593362		560	30.3	104.0	0.002	0.16	20.4	8.0	<1	1.5	215	0.51	0.05	8.67	0.220	1.95
W593363		600	20.6	85.8	<0.002	0.14	9.02	9.9	1	2.2	265	0.65	<0.05	9.45	0.260	1.25
W593364		590	16.0	92.8	<0.002	0.03	1.85	9.7	<1	1.8	386	0.56	<0.05	10.70	0.255	1.02
W593365		570	17.6	93.6	<0.002	0.04	2.19	9.2	1	1.7	339	0.56	<0.05	9.62	0.240	1.13
W593366		590	15.9	88.7	<0.002	0.06	2.29	9.1	<1	1.9	345	0.58	<0.05	9.32	0.254	1.07
W593367		570	15.9	95.1	<0.002	0.05	2.20	9.7	1	1.9	332	0.56	<0.05	10.45	0.250	1.13
W593368		610	19.2	97.7	<0.002	0.06	3.80	9.8	<1	2.0	360	0.61	<0.05	10.90	0.261	1.23
W593369		620	33.4	107.5	<0.002	0.18	5.48	10.4	1	2.5	340	0.66	<0.05	12.85	0.262	1.20
W593370		600	44.1	102.0	<0.002	0.25	5.17	10.4	1	2.5	354	0.68	0.07	11.90	0.260	1.19
W593371		590	46.4	116.0	<0.002	0.59	7.77	10.7	1	4.3	368	0.67	0.14	11.55	0.259	1.63
W593372		580	28.9	101.5	<0.002	0.30	4.72	9.7	<1	2.7	261	0.59	0.15	12.90	0.233	1.23
W593373		580	170.0	143.5	<0.002	0.55	7.74	10.4	1	3.2	168.0	0.64	0.11	12.65	0.241	1.96
W593374		70	0.9	1.3	<0.002	0.01	0.09	0.2	2	<0.2	83.8	<0.05	<0.05	0.10	0.006	<0.02
W593375		530	28.9	112.5	<0.002	0.10	3.24	9.0	1	1.9	291	0.82	<0.05	15.40	0.232	1.27
W593376		560	192.5	157.0	<0.002	2.61	6.88	10.4	1	10.0	119.0	0.60	0.78	12.20	0.230	2.13
W593377		610	22.2	112.0	<0.002	0.13	1.13	10.6	1	1.9	382	0.69	<0.05	13.25	0.260	1.13
W593378		600	32.0	110.0	<0.002	0.15	1.31	10.6	1	1.8	394	0.63	0.10	12.55	0.260	1.19
W593379		600	20.5	107.0	<0.002	0.02	1.35	10.5	1	2.1	402	0.66	<0.05	12.40	0.262	1.13
W593380		590	17.5	102.0	<0.002	0.04	1.47	10.1	<1	1.8	365	0.67	<0.05	11.50	0.256	1.21
W593381		610	23.7	99.7	<0.002	0.10	1.38	10.4	1	2.6	371	0.59	<0.05	11.85	0.256	1.12
W593382		600	24.1	109.0	<0.002	0.09	2.48	10.6	<1	2.2	334	0.63	<0.05	11.65	0.259	1.28
W593383		590	26.4	109.0	<0.002	0.29	3.07	10.2	<1	2.5	318	0.66	<0.05	11.25	0.262	1.32
W593384		620	18.2	97.8	<0.002	0.02	1.66	10.7	<1	2.1	377	0.72	<0.05	9.73	0.265	1.17
W593385		600	139.5	147.0	<0.002	2.03	6.81	11.0	1	2.7	145.0	0.66	0.44	11.15	0.255	2.33
W593386		600	80.6	156.0	<0.002	0.70	7.02	10.3	<1	2.4	165.5	0.72	0.14	10.95	0.255	2.25
W593387		590	200	168.0	<0.002	0.81	7.64	9.9	1	2.9	207	0.62	0.26	11.10	0.251	2.47
W593388		590	383	196.0	<0.002	2.25	11.35	11.3	1	5.0	95.6	0.59	0.18	13.15	0.255	2.90
W593389		470	>10000	30.2	0.014	2.31	454	12.1	2	2.0	195.0	0.22	1.32	1.92	0.243	0.51
W593390		610	174.0	143.0	<0.002	0.25	3.47	10.4	<1	2.4	338	0.66	<0.05	11.65	0.257	1.74
W593391		570	35.3	102.5	<0.002	0.10	8.27	9.4	1	1.8	250	0.72	<0.05	10.15	0.248	1.61
W593392		580	19.8	119.0	<0.002	0.15	7.63	10.2	<1	1.7	292	0.71	<0.05	12.10	0.249	1.34
W593393		610	18.8	104.5	<0.002	0.03	1.53	10.4	<1	1.6	400	0.69	<0.05	12.15	0.260	1.06
W593394		620	22.8	108.5	<0.002	0.14	15.10	10.8	1	2.1	267	0.71	<0.05	12.25	0.265	1.20
W593395		590	27.4	109.5	0.002	0.18	2.78	10.5	1	2.3	409	0.61	<0.05	12.85	0.254	1.19
W593396		480	>10000	31.2	0.014	2.37	471	12.2	2	2.0	200	0.22	1.34	1.95	0.252	0.50
W593397		610	40.8	115.5	<0.002	0.29	4.47	10.4	1	2.7	336	0.56	0.08	10.65	0.257	1.43
W593398		580	154.0	136.0	<0.002	1.37	13.40	9.7	<1	3.2	112.0	0.60	0.29	9.99	0.242	2.46
W593399		370	784	203	<0.002	>10.0	8.65	5.6	2	7.5	73.8	0.45	88.3	9.18	0.168	2.55
W593400		530	124.0	125.0	<0.002	0.89	19.05	9.4	1	5.1	104.0	0.51	0.17	10.90	0.229	1.97

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242464

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593361		3.5	70	3.8	15.2	95	31.0	<0.005
W593362		4.2	64	1.7	10.4	172	29.1	0.006
W593363		3.3	75	8.7	12.6	59	31.3	<0.005
W593364		3.1	70	0.8	14.8	43	30.4	<0.005
W593365		3.2	66	2.7	14.0	40	29.0	<0.005
W593366		3.3	71	3.9	13.0	45	30.1	<0.005
W593367		3.4	68	3.8	14.4	43	29.7	<0.005
W593368		4.1	71	1.4	13.9	58	30.2	<0.005
W593369		3.4	70	1.2	16.3	91	31.0	<0.005
W593370		3.9	70	1.1	17.5	95	31.1	<0.005
W593371		4.5	94	1.7	18.3	86	31.5	0.019
W593372		4.8	60	1.4	13.4	106	30.5	0.013
W593373		5.9	66	1.5	15.5	288	33.2	0.026
W593374		0.1	1	0.1	2.2	5	1.7	<0.005
W593375		5.1	62	1.2	16.3	57	35.8	<0.005
W593376		5.2	67	3.1	14.6	207	32.5	0.145
W593377		4.6	71	1.1	18.8	50	34.6	0.005
W593378		4.1	70	1.2	17.9	73	30.8	0.006
W593379		3.6	71	1.1	17.7	44	36.9	<0.005
W593380		3.5	70	1.5	16.3	45	31.3	<0.005
W593381		3.3	71	1.6	16.4	63	31.6	<0.005
W593382		3.5	71	1.3	16.1	70	31.8	<0.005
W593383		3.9	71	1.6	17.4	78	31.7	0.011
W593384		4.1	74	1.6	18.6	46	37.2	<0.005
W593385		4.7	72	4.2	13.2	288	30.4	0.126
W593386		5.6	72	2.1	14.9	163	31.2	0.007
W593387		4.8	67	3.0	12.8	428	26.5	0.040
W593388		4.0	69	3.6	11.8	1980	28.7	0.090
W593389		1.5	81	0.8	14.9	5170	51.1	0.273
W593390		3.8	70	1.9	16.5	237	28.9	0.009
W593391		4.2	67	3.0	15.1	77	31.8	0.006
W593392		4.0	68	2.5	17.2	58	31.4	<0.005
W593393		3.6	70	2.8	17.7	43	33.9	<0.005
W593394		3.8	72	4.6	17.4	64	31.0	<0.005
W593395		4.6	69	3.2	18.6	63	26.2	<0.005
W593396		1.4	83	0.6	14.2	5250	55.5	0.265
W593397		4.1	71	2.0	14.6	114	24.4	0.005
W593398		5.3	64	2.4	11.8	443	25.4	0.074
W593399		5.3	35	3.4	11.0	1290	18.3	1.840
W593400		3.0	61	3.2	11.1	598	24.4	0.279

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242464

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE WH19242466

Project: Klaza

P.O. No.: 19-043

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242466

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593401		1.82			2.54	7.76	119.0	810	1.81	0.97	0.87	13.50	62.0	6.8	8	20.1
W593402		1.24			4.40	6.78	1335	680	1.52	3.64	0.83	20.3	49.7	7.5	7	10.80
W593403		2.80			0.71	8.24	31.6	2000	1.42	1.61	1.25	0.91	62.0	7.4	9	12.90
W593404		2.95			0.23	8.39	12.6	2000	1.21	0.32	0.86	0.28	55.4	7.8	8	13.35
W593405		1.12			3.87	6.48	97.7	270	1.35	7.37	1.77	14.95	41.5	32.9	7	15.65
W593406		3.65			0.23	8.08	21.7	2420	1.37	0.19	1.03	0.38	35.0	6.3	9	13.10
W593407		2.82			0.15	7.55	8.8	2350	1.49	0.16	2.71	0.16	48.1	6.2	8	12.80
W593408		2.26			0.16	7.76	8.6	2380	1.56	0.17	2.71	0.13	43.3	6.4	8	12.85
W593409		3.74			0.15	7.65	7.3	2310	1.65	0.15	2.83	0.15	43.9	6.4	9	13.25
W593410		4.91			0.36	7.49	27.7	2240	1.45	0.19	2.59	0.40	44.9	6.0	9	16.35
W593411		5.21			0.10	7.59	5.2	2420	1.72	0.16	2.79	0.12	45.8	6.6	10	8.92
W593412		4.98			0.25	7.26	196.0	2280	1.75	0.20	2.90	0.23	46.6	6.2	13	8.67
W593413		5.15			0.35	7.59	6.4	2460	1.58	0.13	2.87	0.27	49.1	6.4	10	8.85
W593414		1.16			4.91	7.23	62.6	1890	1.62	1.00	1.88	5.88	47.1	6.2	7	21.1
W593415		5.01			0.01	0.08	<0.2	20	0.06	0.02	33.7	<0.02	0.96	0.5	1	0.05
W593416		2.90			1.75	7.10	32.4	2430	1.47	0.59	2.45	11.60	51.2	5.9	8	20.6
W593417		2.22			0.65	7.44	41.5	2210	1.50	0.42	2.29	2.14	42.4	5.2	9	16.10
W593418		3.99			1.75	7.44	15.3	2570	1.53	0.23	2.68	3.97	43.8	6.1	9	15.10
W593419		2.27			1.42	7.46	20.1	2180	1.50	0.24	2.57	12.60	43.0	5.9	10	13.60
W593420		4.34			0.28	7.86	12.5	2410	1.66	0.22	2.72	0.66	49.6	7.1	9	10.65
W593421		0.26	104	1.045	>100	5.83	265	610	0.70	5.14	1.54	25.9	19.70	11.4	67	0.87
W593422		2.35			0.78	7.68	262	2400	1.52	0.37	2.88	0.78	44.2	6.7	9	11.35
W593423		2.36			1.03	7.08	29.6	1870	1.41	1.40	2.47	5.22	47.9	7.1	9	13.75
W593424		3.32			1.11	7.24	287	1350	1.26	0.41	4.47	2.40	30.6	18.5	236	29.3
W593425		4.26			0.34	7.35	20.5	2320	1.91	0.14	3.59	0.69	63.7	5.1	27	29.5
W593426		2.87			0.48	7.46	13.8	1760	1.97	0.19	3.29	0.51	59.8	4.3	14	30.0
W593427		<0.02			0.54	7.36	14.2	1790	2.04	0.20	3.28	0.60	59.7	4.4	14	30.7
W593428		3.93			0.25	7.20	18.0	1920	2.12	0.16	3.14	0.62	61.4	4.8	13	23.9
W593429		1.51			0.29	6.32	30.1	>10000	1.36	0.16	2.72	0.41	57.4	3.6	11	24.4
W593430		1.03			4.58	6.93	1015	670	1.41	0.98	0.53	46.1	36.2	9.0	75	14.00
W593431		5.30			1.22	7.04	171.0	930	1.46	0.45	1.72	15.30	36.2	7.9	56	13.50
W593432		5.16			0.32	7.25	27.0	960	1.35	0.11	3.92	1.00	36.2	9.7	84	11.90
W593433		0.26	104		>100	5.31	246	580	0.70	4.84	1.42	23.9	18.20	10.5	62	0.79
W593434		3.52			0.17	7.35	11.1	2190	1.10	0.16	4.99	0.13	29.3	18.7	225	8.23
W593435		3.79			0.29	7.29	14.7	2140	1.53	1.09	2.31	0.15	45.8	7.6	10	10.10
W593436		3.53			0.17	7.13	8.6	2150	1.60	0.58	2.39	0.11	40.4	6.9	13	11.20
W593437		1.17			0.33	6.84	36.2	1510	1.50	1.95	1.98	0.14	43.5	11.6	9	7.93
W593438		2.78			0.09	7.75	4.5	2260	1.38	0.30	2.55	0.10	43.6	5.5	9	15.70
W593439		1.19			5.56	7.13	87.0	510	1.69	9.49	0.76	4.42	48.9	7.0	7	15.80
W593440		2.87			0.32	7.09	22.8	1390	1.33	0.27	1.77	0.47	41.9	5.0	10	18.70

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242466

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593401		34.0	7.19	17.35	0.12	1.1	0.577	3.53	34.5	9.2	0.85	3230	2.21	0.03	7.9	2.5
W593402		58.3	6.65	16.00	0.13	1.0	0.296	3.22	26.0	9.6	0.50	2310	1.68	0.02	7.1	3.2
W593403		48.8	3.40	17.35	0.14	1.1	0.203	3.29	35.5	25.2	0.61	1090	1.59	0.07	8.3	2.2
W593404		9.1	2.85	18.65	0.14	1.2	0.077	2.60	29.2	39.0	0.42	725	1.52	0.07	8.8	2.1
W593405		56.8	5.75	13.80	0.13	0.8	0.224	2.81	22.9	26.1	0.77	1250	1.17	0.05	5.7	3.5
W593406		16.0	3.20	17.70	0.15	1.1	0.065	2.84	16.5	28.9	0.35	689	1.54	0.18	8.4	2.5
W593407		13.0	2.92	16.60	0.20	1.0	0.057	2.78	24.9	12.3	0.70	637	2.81	1.84	7.5	2.5
W593408		22.3	2.94	17.35	0.21	1.1	0.051	2.86	22.7	13.5	0.67	642	1.34	1.84	7.5	2.5
W593409		12.9	2.92	16.80	0.20	1.2	0.050	2.80	22.3	10.1	0.72	642	1.82	2.23	7.8	2.6
W593410		17.9	2.80	16.75	0.20	1.1	0.053	2.79	23.0	14.9	0.68	649	0.94	1.76	7.4	2.2
W593411		10.1	2.96	17.00	0.17	1.2	0.043	2.76	22.9	12.7	0.81	639	1.33	2.32	7.8	2.5
W593412		16.4	2.97	17.25	0.20	1.2	0.065	2.75	23.4	12.0	0.80	698	1.85	2.09	7.9	2.7
W593413		28.6	2.96	16.35	0.23	0.8	0.051	2.70	26.0	9.0	0.84	669	2.77	2.26	7.4	2.4
W593414		277	5.37	16.65	0.19	0.8	0.238	3.22	26.5	21.9	0.85	5180	3.12	0.22	6.5	2.4
W593415		2.8	0.10	0.26	0.16	<0.1	<0.005	0.02	1.1	1.3	1.81	121	0.05	0.03	0.1	0.4
W593416		51.7	3.58	16.25	0.21	0.9	0.358	3.15	26.8	36.6	0.87	2620	3.59	0.46	6.8	2.3
W593417		73.5	3.14	16.75	0.21	0.9	0.119	3.48	21.7	23.7	0.73	1350	5.06	1.19	7.7	2.4
W593418		23.3	2.98	16.65	0.20	1.0	0.066	2.91	22.4	8.8	0.69	1380	1.61	2.08	7.6	2.4
W593419		29.7	3.34	16.65	0.19	0.9	0.254	2.88	21.5	12.6	0.82	1020	1.47	1.80	7.3	2.3
W593420		19.2	3.10	17.55	0.19	1.0	0.061	2.90	25.7	11.2	0.90	682	1.45	2.36	8.0	2.7
W593421		6340	6.04	13.20	0.14	1.6	0.456	1.19	8.4	13.7	1.18	1820	24.5	1.71	3.2	30.8
W593422		20.2	2.99	16.80	0.22	1.0	0.055	2.98	23.3	9.5	0.77	717	1.10	2.20	7.7	2.6
W593423		14.1	3.21	16.35	0.20	0.9	0.192	3.18	25.8	18.3	0.80	958	1.27	0.79	6.9	3.4
W593424		26.0	4.54	15.65	0.16	1.7	0.078	2.67	16.4	51.0	2.47	2070	1.74	0.25	5.5	74.6
W593425		4.3	2.47	17.65	0.23	2.3	0.030	2.53	34.2	50.8	1.18	1020	1.56	0.24	10.0	7.0
W593426		5.9	2.49	17.55	0.23	2.4	0.029	3.00	30.7	28.1	0.94	763	1.14	1.13	10.4	3.5
W593427		6.2	2.47	17.45	0.25	2.3	0.030	2.96	30.7	28.6	0.93	776	1.17	1.12	10.4	3.8
W593428		3.8	2.49	18.00	0.19	2.3	0.023	2.31	31.9	84.8	1.02	826	1.72	0.07	10.6	4.3
W593429		4.4	2.55	15.55	0.24	1.9	0.025	2.15	31.8	39.2	1.09	1180	0.79	0.04	8.8	9.5
W593430		34.7	6.90	15.75	0.17	1.4	1.895	3.27	20.4	8.2	1.12	2880	1.85	0.03	4.8	27.6
W593431		12.8	5.88	16.40	0.19	1.5	0.846	3.30	20.2	8.2	1.18	3180	1.92	0.03	4.5	20.3
W593432		4.0	3.02	16.05	0.18	1.5	0.051	2.82	19.5	20.1	1.65	1740	1.85	0.58	4.9	28.5
W593433		5850	5.50	12.05	0.13	1.5	0.436	1.09	7.9	12.6	1.08	1680	22.4	1.56	3.0	28.5
W593434		23.1	4.15	16.05	0.16	1.7	0.052	1.79	15.0	20.7	3.19	1440	1.87	1.58	6.3	80.8
W593435		9.8	2.97	16.65	0.22	0.9	0.127	2.90	24.1	17.6	0.75	656	1.39	1.60	7.4	2.8
W593436		14.9	2.71	16.35	0.20	1.0	0.098	2.77	20.7	16.8	0.75	614	1.49	1.90	7.5	3.9
W593437		11.3	3.09	15.70	0.19	0.9	0.276	2.62	22.9	15.1	0.73	598	5.20	1.22	5.7	2.9
W593438		17.2	2.79	16.45	0.24	1.0	0.061	2.82	22.9	23.0	0.67	556	1.54	1.92	7.5	2.6
W593439		27.5	6.21	16.70	0.18	0.8	0.494	3.36	27.6	9.4	0.68	1660	1.20	0.05	6.2	2.5
W593440		22.5	2.68	15.85	0.16	1.0	0.081	2.59	21.4	36.1	0.63	852	1.70	0.06	7.6	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242466

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593401		600	685	213	<0.002	2.25	10.00	11.2	1	4.9	28.3	0.58	0.13	12.95	0.253	3.53
W593402		520	914	243	<0.002	5.26	18.80	9.5	1	5.7	16.9	0.57	0.55	10.85	0.226	3.02
W593403		610	58.1	162.0	<0.002	0.87	21.7	11.5	1	2.9	71.9	0.64	0.24	13.65	0.267	1.91
W593404		660	18.1	121.0	<0.002	0.26	16.50	11.0	<1	2.4	70.5	0.68	0.10	13.75	0.276	1.21
W593405		500	579	124.5	<0.002	3.48	17.15	7.8	1	3.7	67.0	0.42	3.58	9.35	0.208	1.73
W593406		710	40.8	99.6	<0.002	0.09	19.95	10.9	<1	2.1	88.2	0.57	<0.05	9.68	0.309	1.20
W593407		620	21.2	98.2	<0.002	0.10	4.64	9.6	1	1.9	325	0.56	<0.05	11.55	0.264	1.15
W593408		620	18.2	98.6	<0.002	0.11	5.26	9.4	<1	3.0	328	0.56	0.05	11.15	0.263	1.13
W593409		620	19.2	99.8	<0.002	0.07	4.34	9.5	1	1.9	367	0.64	<0.05	12.30	0.263	1.10
W593410		610	44.1	101.0	<0.002	0.15	5.77	9.0	<1	1.9	298	0.60	<0.05	11.95	0.257	1.10
W593411		630	18.2	92.6	<0.002	0.03	1.18	9.6	1	1.8	382	0.60	<0.05	12.15	0.265	1.05
W593412		620	25.3	96.8	<0.002	0.10	2.91	9.9	<1	2.0	353	0.62	<0.05	11.90	0.259	1.14
W593413		630	31.8	95.3	<0.002	0.06	1.37	9.4	<1	1.7	388	0.54	<0.05	12.25	0.263	1.06
W593414		560	339	157.5	0.002	0.82	20.5	9.0	1	4.9	91.3	0.51	0.12	13.10	0.229	2.69
W593415		80	0.6	0.5	<0.002	<0.01	0.07	0.2	1	<0.2	82.2	<0.05	<0.05	0.09	0.006	0.02
W593416		620	478	127.5	<0.002	0.43	9.33	9.1	<1	2.9	154.5	0.49	0.10	10.40	0.241	2.19
W593417		630	130.5	127.5	<0.002	0.21	5.09	9.6	<1	2.9	239	0.55	0.08	11.05	0.266	2.06
W593418		610	282	107.5	<0.002	0.19	2.89	9.5	<1	1.9	355	0.56	0.05	11.15	0.263	1.32
W593419		610	760	103.5	<0.002	0.26	4.18	8.8	<1	2.2	322	0.54	<0.05	10.60	0.258	1.39
W593420		650	41.1	101.5	<0.002	0.18	1.67	10.0	<1	1.9	400	0.60	0.05	11.75	0.275	1.19
W593421		490	>10000	28.8	0.013	2.44	480	11.5	2	1.9	203	0.19	1.34	2.07	0.255	0.53
W593422		640	68.7	105.0	<0.002	0.29	6.59	9.8	1	1.9	388	0.58	0.09	11.65	0.263	1.29
W593423		590	210	131.5	<0.002	1.32	4.38	8.9	1	3.0	194.0	0.53	0.27	11.00	0.245	1.98
W593424		630	279	139.5	<0.002	0.64	7.41	16.2	<1	1.4	291	0.38	<0.05	5.94	0.309	1.87
W593425		870	59.1	95.7	<0.002	0.11	7.66	6.2	<1	1.4	225	0.65	<0.05	9.89	0.246	1.51
W593426		930	127.5	97.9	<0.002	0.02	7.90	5.1	<1	1.3	481	0.68	<0.05	9.15	0.252	1.48
W593427		920	161.0	96.8	<0.002	0.02	8.10	5.1	<1	1.3	479	0.67	<0.05	8.97	0.253	1.46
W593428		890	46.7	68.3	<0.002	0.06	15.15	5.2	<1	1.3	238	0.67	<0.05	9.08	0.248	1.27
W593429		470	38.2	92.4	<0.002	0.31	41.8	5.0	<1	1.5	267	0.56	<0.05	8.88	0.214	1.42
W593430		630	414	213	<0.002	1.85	15.10	8.4	<1	4.4	27.0	0.37	<0.05	8.42	0.193	2.70
W593431		640	272	203	<0.002	1.93	6.83	7.8	<1	3.0	68.9	0.36	<0.05	9.23	0.176	2.89
W593432		680	60.7	137.0	<0.002	0.50	4.64	9.0	1	0.9	262	0.38	<0.05	8.80	0.208	2.06
W593433		450	9830	26.9	0.009	2.24	442	10.6	1	2.0	188.0	0.19	1.23	1.84	0.233	0.47
W593434		670	20.0	54.6	<0.002	0.15	4.76	16.0	<1	0.9	561	0.45	<0.05	5.63	0.339	1.08
W593435		590	18.0	115.0	<0.002	0.92	2.06	9.3	<1	2.2	305	0.54	0.17	12.60	0.244	1.40
W593436		580	15.8	98.9	<0.002	0.19	1.63	9.1	<1	1.7	334	0.56	0.11	11.05	0.248	1.26
W593437		600	8.2	141.5	<0.002	1.03	3.12	9.6	1	2.1	147.5	0.47	0.26	11.10	0.207	1.82
W593438		600	16.5	102.5	<0.002	0.03	2.42	9.5	1	1.7	330	0.57	0.07	12.45	0.264	1.08
W593439		490	233	190.0	<0.002	2.91	6.35	8.6	1	4.4	23.4	0.46	0.93	12.05	0.210	2.62
W593440		610	22.4	85.2	<0.002	0.20	12.15	8.6	1	1.9	77.0	0.60	<0.05	11.95	0.261	1.51

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 1-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242466

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593401		6.8	71	4.8	9.1	1040	26.9	0.043
W593402		4.2	59	5.7	9.9	1510	24.5	0.270
W593403		4.0	75	2.4	16.0	113	27.1	0.015
W593404		2.8	70	4.8	16.1	63	29.1	<0.005
W593405		6.6	60	2.5	13.4	1040	20.8	0.095
W593406		2.5	83	3.9	13.3	81	30.3	<0.005
W593407		3.8	71	1.1	15.8	50	27.5	<0.005
W593408		3.8	71	1.3	14.3	50	28.6	<0.005
W593409		4.1	72	1.5	16.6	49	32.3	<0.005
W593410		3.9	69	1.8	14.9	70	29.3	0.011
W593411		4.3	71	1.7	16.2	49	32.1	<0.005
W593412		4.5	71	1.9	16.5	57	32.5	<0.005
W593413		3.7	72	1.4	15.3	57	23.4	<0.005
W593414		5.9	63	4.9	11.8	739	22.1	0.059
W593415		0.1	1	<0.1	2.0	4	1.2	<0.005
W593416		4.4	71	2.5	12.4	918	22.7	0.060
W593417		4.0	74	1.8	12.9	207	23.9	0.029
W593418		3.8	72	3.2	14.9	371	24.6	0.007
W593419		3.5	69	2.7	13.8	923	23.8	0.037
W593420		4.2	75	2.0	17.0	84	27.1	0.006
W593421		1.4	86	1.0	15.5	5390	54.7	0.286
W593422		3.9	73	1.7	15.2	107	25.7	0.027
W593423		4.4	67	2.0	11.3	402	24.1	0.015
W593424		2.7	132	2.3	12.3	315	53.9	0.012
W593425		5.0	56	1.5	12.4	132	78.7	<0.005
W593426		4.5	52	1.1	11.0	122	84.0	<0.005
W593427		4.5	52	1.0	10.8	121	82.7	<0.005
W593428		5.3	51	1.5	11.5	126	84.7	<0.005
W593429		9.3	48	2.0	13.0	103	71.1	<0.005
W593430		4.1	79	4.5	5.1	3640	47.0	0.145
W593431		5.3	73	2.5	6.6	1260	48.0	0.032
W593432		5.2	87	1.4	9.8	176	49.1	<0.005
W593433		1.3	79	0.6	12.9	4950	63.7	0.278
W593434		3.1	139	1.1	11.6	131	58.8	<0.005
W593435		3.9	68	1.2	13.0	44	23.0	0.034
W593436		3.9	68	1.0	14.6	45	27.7	0.006
W593437		7.7	71	1.2	12.9	44	23.9	0.236
W593438		3.9	71	0.9	13.9	44	25.8	<0.005
W593439		4.5	59	3.8	7.4	413	21.6	0.085
W593440		3.3	66	4.0	12.2	71	28.4	0.014

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 1-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242466

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE WH19242472

Project: Klaza

P.O. No.: 19-044

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242472

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593441		1.21			1.41	6.64	47.6	1580	1.29	2.65	2.32	0.51	40.1	8.1	9	21.8
W593442		4.70			0.16	7.05	14.7	2300	1.30	0.77	1.87	0.13	53.0	8.2	10	13.80
W593443		1.33			1.35	5.59	106.5	1230	1.26	6.13	2.75	0.62	42.9	38.9	8	6.83
W593444		1.16			0.14	7.16	17.0	3140	1.42	0.32	2.23	0.14	38.5	7.2	9	18.30
W593445		4.28			0.49	7.70	11.5	2560	1.51	0.58	2.63	0.45	44.8	7.3	17	5.15
W593446		5.08			0.17	7.53	10.4	2340	1.62	0.37	2.36	0.38	45.1	6.5	12	6.29
W593447		2.76			0.08	7.47	7.2	2380	1.52	0.10	2.69	0.63	44.8	6.4	12	4.07
W593448		2.28			0.08	7.55	7.3	2370	1.67	0.11	2.71	0.46	46.8	6.8	11	4.19
W593449		4.55			0.14	7.38	8.7	2440	1.46	0.19	2.57	0.32	44.3	7.3	12	3.96
W593450		5.33			0.09	7.29	6.0	2240	1.65	0.10	2.72	0.33	44.2	7.9	12	3.82
W593451		4.26			0.20	7.26	7.3	2340	1.50	0.33	2.70	1.00	42.1	7.2	12	5.11
W593452		2.67			0.27	7.56	20.0	2190	1.55	0.42	2.49	1.45	49.4	7.1	11	7.43
W593453		3.53			1.01	7.12	92.3	1590	1.64	0.99	2.05	5.65	46.5	7.1	9	16.55
W593454		1.03			1.69	6.43	96.6	330	1.41	4.27	1.96	2.17	42.5	55.6	8	9.79
W593455		5.07			0.01	0.09	0.4	20	0.05	0.02	32.5	0.02	1.07	0.6	2	0.07
W593456		3.93			0.16	7.38	11.3	2450	1.39	0.26	2.65	0.68	44.6	6.2	11	8.05
W593457		3.56			0.74	7.05	67.6	2270	1.38	0.80	2.75	2.07	39.2	9.9	10	12.65
W593458		1.09			3.09	7.29	3590	440	1.63	1.91	2.11	19.10	49.4	8.9	9	15.50
W593459		2.08			0.36	7.07	70.7	2740	1.66	0.38	2.74	2.26	35.9	6.6	10	15.90
W593460		3.48			1.55	7.03	355	1850	1.58	0.91	2.63	5.54	39.7	6.7	13	15.25
W593461		1.15			2.55	7.04	207	490	1.59	2.87	1.21	14.80	45.1	8.3	10	7.36
W593462		1.91			3.47	7.56	212	1010	1.64	7.47	1.64	2.47	50.6	6.7	11	15.95
W593463		1.09			17.10	4.71	2370	30	0.94	70.4	1.01	13.80	18.55	19.5	9	3.97
W593464		1.08			1.72	7.81	215	1250	2.00	4.32	1.62	2.81	54.3	7.2	10	18.65
W593465		0.26	101	1.040	>100	5.56	253	610	0.70	5.26	1.49	24.3	19.55	12.6	66	0.92
W593466		2.37			0.26	7.45	44.0	2290	1.51	0.64	2.78	0.49	38.5	7.2	12	7.22
W593467		2.83			0.12	7.56	14.5	2380	1.80	0.20	2.77	0.83	44.5	8.0	11	4.87
W593468		3.17			0.05	7.70	6.1	2430	1.93	0.08	2.84	0.18	45.5	8.2	14	5.86
W593469		<0.02			0.04	7.33	5.2	2350	1.91	0.07	2.77	0.18	43.4	8.0	14	5.75
W593470		0.99			1.74	7.42	351	1150	1.60	2.82	1.99	3.21	48.9	9.7	11	10.85
W593471		1.87			0.35	7.79	32.1	2580	1.65	0.60	2.87	1.18	46.9	8.6	12	6.63
W593472		1.08			8.84	7.58	1340	390	1.46	9.07	1.62	3.46	49.3	12.6	13	7.79
W593473		2.65			1.67	7.64	28.7	2440	1.55	8.85	2.88	0.91	45.8	10.6	14	6.63
W593474		2.46			0.09	7.72	14.0	2460	1.69	0.15	2.87	0.35	45.6	8.3	13	4.96
W593475		4.50			0.27	7.61	32.0	2470	1.58	0.52	2.97	0.91	45.9	8.8	14	6.68
W593476		0.26	102	1.035	>100	5.54	259	570	0.76	5.51	1.46	24.7	19.05	13.0	65	0.91
W593477		4.71			0.10	7.63	10.4	2440	2.19	0.12	2.74	0.25	46.4	7.9	15	5.10
W593478		5.17			0.06	7.83	9.9	2490	2.48	0.13	2.86	0.15	46.5	8.8	13	4.64
W593479		3.14			0.17	7.27	12.7	2270	2.47	0.31	2.88	0.21	40.9	8.4	11	10.90
W593480		1.29			0.49	5.15	64.5	1060	1.80	1.29	2.70	0.28	37.7	10.5	9	9.41

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242472

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593441		18.9	3.10	15.20	0.13	1.1	0.102	2.88	21.0	16.4	0.80	1160	1.16	0.06	7.3	2.5
W593442		17.1	2.72	16.50	0.15	1.1	0.110	2.91	27.1	32.6	0.63	725	3.06	0.26	7.4	2.5
W593443		17.1	7.88	13.05	0.13	0.8	0.292	2.74	22.6	7.3	1.00	1120	24.2	0.04	4.4	3.3
W593444		8.5	2.92	16.60	0.13	1.1	0.078	2.51	19.4	35.1	0.75	909	1.19	0.06	7.6	2.5
W593445		12.9	3.18	17.65	0.13	1.0	0.074	2.77	22.6	9.7	0.93	845	1.80	2.30	8.4	3.0
W593446		11.4	2.80	18.20	0.14	1.0	0.065	2.58	23.0	11.5	0.80	647	5.85	2.25	8.4	2.7
W593447		6.9	2.82	16.95	0.14	1.0	0.041	2.55	22.5	9.8	0.85	624	2.05	2.34	8.0	2.7
W593448		6.9	2.86	17.65	0.17	1.1	0.045	2.58	23.9	10.5	0.86	634	2.48	2.37	8.5	2.8
W593449		7.7	2.82	16.45	0.13	1.0	0.045	2.56	22.7	9.0	0.85	681	0.77	2.29	7.9	2.5
W593450		9.9	2.91	17.50	0.13	1.1	0.047	2.54	21.8	10.2	0.84	635	0.66	2.42	8.4	2.9
W593451		14.8	2.90	16.90	0.13	1.0	0.073	2.63	20.6	8.8	0.81	753	0.75	2.27	8.0	2.7
W593452		22.7	2.83	17.10	0.14	1.2	0.080	2.75	25.8	8.9	0.77	715	0.81	2.06	8.0	2.7
W593453		37.7	3.32	16.25	0.14	1.1	0.408	3.14	24.8	12.1	0.63	1500	0.87	0.61	7.3	2.4
W593454		24.4	5.40	15.45	0.14	0.8	0.504	3.27	23.2	9.1	0.60	1600	0.83	0.04	6.0	2.6
W593455		1.3	0.11	0.31	0.11	<0.1	0.005	0.02	1.2	0.8	1.83	118	0.08	0.03	0.1	0.4
W593456		11.7	2.85	16.65	0.18	1.0	0.069	2.94	23.3	8.7	0.76	705	2.11	1.87	7.6	2.4
W593457		36.9	3.34	17.25	0.14	1.0	0.174	3.02	19.3	9.9	0.68	1250	1.47	1.25	8.0	2.7
W593458		60.5	4.71	17.65	0.14	1.2	0.324	3.54	25.9	8.3	0.70	2110	0.78	0.04	7.6	2.8
W593459		12.5	2.87	17.60	0.14	1.1	0.116	2.53	17.7	11.2	0.78	1150	0.85	1.81	8.1	2.7
W593460		26.7	3.34	16.80	0.13	1.0	0.161	3.20	19.7	9.8	0.77	1560	0.68	0.88	7.7	2.6
W593461		63.7	4.74	17.30	0.13	0.9	0.483	3.47	24.0	7.8	0.71	1120	2.10	0.04	6.5	2.7
W593462		247	3.80	18.00	0.13	1.1	0.205	3.39	27.2	8.3	0.70	1560	0.75	0.04	7.4	2.6
W593463		245	14.35	13.60	0.13	0.7	0.579	2.44	8.1	4.1	0.51	823	1.77	0.03	4.3	2.6
W593464		260	4.25	20.2	0.16	1.3	0.217	3.49	29.1	10.9	0.73	1800	1.03	0.19	8.5	2.9
W593465		6260	5.76	12.65	0.10	1.8	0.434	1.14	9.0	12.6	1.13	1720	21.5	1.64	3.4	28.8
W593466		21.4	3.15	15.45	0.13	1.1	0.086	2.81	19.3	8.2	0.78	757	1.17	1.77	7.6	2.4
W593467		10.0	3.01	17.85	0.16	1.4	0.044	2.55	21.8	11.8	0.88	649	1.47	2.36	9.0	2.7
W593468		6.0	3.10	17.60	0.15	1.3	0.042	2.60	22.9	11.6	0.92	645	1.01	2.35	9.7	2.8
W593469		5.7	2.95	17.15	0.13	1.5	0.044	2.54	21.6	11.7	0.88	623	1.27	2.32	9.6	2.8
W593470		122.0	4.72	18.05	0.14	1.1	0.139	3.18	25.3	13.8	0.71	1160	0.96	0.58	8.3	2.9
W593471		19.4	3.45	17.80	0.15	1.1	0.124	2.87	24.0	11.8	0.93	882	0.93	2.13	8.7	2.8
W593472		349	6.00	18.70	0.15	0.9	0.395	3.36	26.5	12.0	0.93	1340	1.21	0.15	7.4	2.8
W593473		85.6	3.36	16.80	0.14	1.0	0.148	2.81	22.9	9.5	0.89	940	0.90	1.95	7.9	2.7
W593474		11.6	3.23	17.95	0.16	1.1	0.051	2.50	22.9	10.6	0.96	673	1.09	2.40	8.6	2.8
W593475		20.4	3.41	17.40	0.13	1.1	0.118	2.66	22.4	10.6	0.89	940	1.33	2.07	8.2	2.8
W593476		6140	5.73	13.15	0.10	1.8	0.428	1.14	9.1	13.7	1.12	1680	21.0	1.63	3.4	29.5
W593477		9.5	3.09	17.20	0.13	1.1	0.055	2.53	24.4	15.7	0.93	655	4.25	2.41	8.6	3.1
W593478		4.8	3.15	16.80	0.12	1.0	0.052	2.68	23.0	16.9	0.94	672	8.74	2.42	8.6	3.1
W593479		21.6	2.72	17.05	0.13	1.1	0.076	2.61	20.3	20.3	0.63	714	10.70	1.77	8.6	2.6
W593480		5.8	3.52	12.00	0.10	0.6	0.215	2.14	20.7	11.3	0.94	1420	39.9	0.46	4.7	1.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242472

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593441		510	74.9	121.5	<0.002	1.19	14.35	8.7	<1	1.7	78.7	0.65	0.36	11.70	0.215	1.77
W593442		560	12.4	122.0	<0.002	0.38	13.25	9.9	<1	1.9	105.0	0.63	0.10	14.25	0.217	1.59
W593443		480	55.5	168.5	0.005	6.42	7.99	8.6	1	5.8	52.2	0.37	2.27	10.30	0.145	1.92
W593444		610	10.8	88.4	<0.002	0.20	16.50	10.6	<1	2.1	83.2	0.58	<0.05	10.55	0.249	1.45
W593445		700	28.9	96.9	<0.002	0.12	1.66	11.8	<1	1.7	385	0.61	0.26	12.20	0.280	1.21
W593446		640	27.4	91.5	0.008	0.07	1.88	11.5	<1	2.0	357	0.63	0.11	12.45	0.262	1.05
W593447		620	25.8	83.1	0.002	0.03	1.18	10.4	<1	1.6	397	0.64	<0.05	11.95	0.258	0.89
W593448		620	24.4	88.8	0.002	0.03	1.24	11.2	<1	1.8	400	0.63	<0.05	12.90	0.261	0.91
W593449		600	22.0	86.0	<0.002	0.03	1.02	10.4	<1	1.4	384	0.66	0.05	12.30	0.255	0.88
W593450		620	16.7	81.0	<0.002	0.05	1.05	10.6	<1	1.5	388	0.64	<0.05	12.10	0.260	0.89
W593451		610	40.9	81.8	<0.002	0.14	1.27	9.9	<1	1.4	374	0.66	<0.05	12.05	0.251	0.99
W593452		610	45.1	107.5	<0.002	0.14	1.71	10.7	<1	1.5	333	0.68	0.05	14.35	0.253	1.18
W593453		560	139.0	152.0	<0.002	1.02	10.50	9.7	<1	2.0	142.5	0.63	0.13	14.00	0.223	2.26
W593454		480	83.8	197.0	0.002	3.18	4.07	8.1	2	4.8	64.4	0.51	1.62	11.95	0.183	2.68
W593455		70	<0.5	1.0	<0.002	0.01	<0.05	0.2	1	<0.2	78.9	<0.05	<0.05	0.10	0.005	<0.02
W593456		600	43.3	111.5	<0.002	0.15	2.17	10.3	<1	1.5	347	0.58	<0.05	12.35	0.245	1.35
W593457		640	130.5	114.5	0.003	0.65	4.32	11.0	<1	2.0	269	0.53	0.14	14.25	0.265	1.74
W593458		630	705	219	<0.002	2.65	11.65	10.9	1	2.4	84.0	0.58	0.25	15.10	0.243	3.12
W593459		660	103.5	92.6	0.002	0.17	3.32	10.7	<1	1.8	302	0.59	0.08	11.65	0.266	1.42
W593460		610	396	132.5	<0.002	0.51	6.31	10.4	<1	1.9	212	0.59	0.21	14.50	0.251	2.10
W593461		560	482	203	0.002	2.66	5.29	9.9	<1	9.4	32.1	0.47	0.34	12.55	0.217	2.52
W593462		620	121.5	188.0	0.002	2.05	12.50	10.5	<1	9.6	45.0	0.59	0.22	15.10	0.240	2.54
W593463		400	311	117.0	<0.002	>10.0	14.65	7.0	4	12.3	20.1	0.34	4.36	6.13	0.140	1.66
W593464		610	79.4	215	<0.002	1.70	12.90	12.1	<1	7.7	73.7	0.66	0.16	15.00	0.244	2.95
W593465		460	>10000	27.7	0.011	2.33	458	12.2	2	1.9	192.5	0.22	1.11	2.27	0.243	0.50
W593466		630	35.3	90.1	<0.002	0.34	2.75	9.6	<1	1.9	336	0.60	0.09	9.87	0.259	1.18
W593467		640	39.6	88.9	<0.002	0.05	1.30	11.0	<1	1.8	406	0.77	0.08	11.75	0.266	0.92
W593468		660	16.1	93.5	<0.002	0.01	0.88	11.2	<1	1.7	410	0.99	<0.05	12.60	0.271	0.93
W593469		640	15.7	87.6	<0.002	0.01	0.87	10.6	<1	1.8	398	1.01	<0.05	11.85	0.269	0.92
W593470		660	59.7	164.0	<0.002	1.91	8.76	11.7	<1	7.7	135.0	0.68	0.21	11.55	0.256	2.12
W593471		700	42.9	100.0	<0.002	0.31	2.25	11.2	<1	2.1	386	0.64	<0.05	11.45	0.287	1.25
W593472		630	199.5	213	<0.002	3.53	25.4	11.0	1	13.3	69.5	0.54	0.28	11.40	0.254	2.29
W593473		670	73.1	104.5	<0.002	0.49	2.68	11.0	<1	2.1	347	0.59	0.99	11.50	0.275	1.31
W593474		700	24.9	83.4	<0.002	0.06	1.04	11.4	<1	2.0	423	0.65	<0.05	11.90	0.283	0.92
W593475		670	45.8	92.3	<0.002	0.37	2.27	11.1	<1	2.1	377	0.61	0.07	12.35	0.270	1.20
W593476		460	>10000	28.5	0.012	2.31	450	12.5	2	2.0	191.5	0.23	1.19	2.15	0.237	0.51
W593477		670	23.1	92.3	0.002	0.04	1.27	12.9	<1	1.8	432	0.60	<0.05	12.05	0.276	0.94
W593478		680	16.3	92.8	0.002	0.07	1.04	12.8	1	1.6	425	0.62	<0.05	11.90	0.287	0.95
W593479		650	22.8	88.7	0.004	0.18	2.49	12.0	<1	2.4	304	0.61	0.05	10.30	0.268	1.11
W593480		610	31.7	119.5	0.037	0.95	3.76	8.9	1	2.9	93.1	0.32	0.21	8.14	0.151	1.61

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19242472

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593441		4.1	59	3.1	13.1	68	26.1	0.034
W593442		3.8	65	2.0	14.7	49	29.1	0.100
W593443		17.4	58	2.3	15.4	56	19.3	0.081
W593444		3.7	72	4.7	15.7	50	26.5	0.011
W593445		2.7	83	1.2	17.3	90	26.4	0.005
W593446		2.5	74	1.2	16.4	100	27.5	0.005
W593447		2.7	72	0.9	16.0	105	26.5	<0.005
W593448		2.8	72	0.9	17.4	91	29.9	<0.005
W593449		3.1	71	0.9	16.6	79	27.0	0.009
W593450		2.9	74	0.9	16.9	74	29.4	<0.005
W593451		3.3	72	0.9	15.5	170	26.8	<0.005
W593452		2.9	72	1.2	15.7	201	28.8	<0.005
W593453		4.5	64	2.3	13.4	648	29.7	0.029
W593454		3.9	57	3.0	10.2	318	23.2	0.086
W593455		0.2	1	<0.1	2.3	4	1.8	<0.005
W593456		3.2	69	1.1	15.7	130	28.2	0.010
W593457		2.7	78	1.9	13.4	256	28.2	0.019
W593458		3.9	72	4.5	13.3	1840	29.2	1.195
W593459		2.9	72	1.7	14.1	295	29.8	0.011
W593460		3.6	74	2.3	13.7	674	26.4	0.020
W593461		3.6	65	4.5	9.3	1540	23.5	0.166
W593462		4.6	72	4.6	12.5	296	27.6	0.105
W593463		3.6	51	6.4	6.3	649	18.1	2.48
W593464		6.3	72	4.2	14.9	253	31.6	0.197
W593465		1.5	82	0.6	14.5	5130	48.4	0.295
W593466		3.2	75	2.1	13.9	115	27.1	0.010
W593467		4.1	75	1.1	17.8	153	32.4	<0.005
W593468		5.6	78	1.4	19.4	57	30.4	<0.005
W593469		4.9	76	1.3	18.4	55	32.3	<0.005
W593470		4.2	77	3.3	14.9	344	26.4	0.375
W593471		3.3	82	2.1	17.4	174	28.1	0.012
W593472		3.8	74	3.7	12.2	402	23.4	0.385
W593473		3.6	78	2.2	15.7	149	25.0	0.028
W593474		3.7	81	1.2	18.1	78	28.8	<0.005
W593475		3.8	79	1.6	17.2	146	27.6	0.008
W593476		1.5	81	0.6	14.8	5040	49.0	0.262
W593477		3.5	76	1.3	17.3	67	29.8	<0.005
W593478		3.4	78	1.1	17.1	57	28.2	<0.005
W593479		3.4	74	1.3	14.9	69	29.0	0.006
W593480		3.3	57	3.1	12.1	120	18.1	0.087

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19242472

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245856

Project: Klaza

P.O. No.: 19-042

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245856

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W603442		2.44		0.13	6.67	12.9	1880	1.44	0.12	3.32	0.10	41.7	3.6	8	6.83	4.3
W603443		7.35		0.06	7.58	5.1	2320	1.57	0.09	2.27	0.11	50.8	5.2	10	10.45	4.6
W603444		0.26		38.5	5.76	2580	230	1.21	35.1	1.58	45.0	35.3	17.0	22	9.63	1195
W603445		6.34		0.13	7.72	5.7	2330	1.58	0.12	2.15	0.32	47.2	6.1	9	14.25	15.1
W603446		3.66		0.15	6.99	13.3	1830	1.54	0.10	2.33	0.29	38.4	5.0	8	13.70	7.7
W603447		3.27		8.94	6.54	578	860	1.47	1.45	2.47	57.9	43.2	5.9	6	15.05	60.3
W603448		4.38		0.18	6.72	13.9	1490	1.78	0.14	2.71	0.35	39.5	4.9	5	26.8	4.4
W603449		6.35		13.25	6.93	136.5	1290	1.53	0.57	3.43	0.70	44.7	6.9	6	24.7	121.0
W603450		3.53		0.41	6.04	17.5	1010	1.54	0.10	3.34	0.13	39.5	5.0	6	14.75	7.2
W603451		2.16		1.28	6.10	203	830	1.58	0.42	3.46	0.87	41.9	32.7	6	21.6	7.1
W603452		6.39		0.10	6.56	15.6	1780	1.52	0.09	2.71	0.12	34.6	4.0	11	9.51	3.5
W603453		<0.02		0.11	7.00	17.5	1810	1.61	0.09	2.76	0.11	41.6	3.9	9	10.10	3.4
W603454		4.91		0.14	6.44	8.6	1850	1.61	0.25	3.20	0.12	47.6	11.4	11	8.23	2.7
W603455		9.48		0.15	6.56	26.5	1870	1.52	0.15	2.96	0.55	38.0	6.0	8	8.92	6.4
W603456		4.32		1.53	6.57	157.5	1000	1.53	1.14	2.75	2.23	56.3	3.5	10	16.45	38.7
W603457		5.15		0.08	6.30	6.8	1950	1.45	0.10	2.88	0.15	37.7	5.2	8	13.10	4.6
W603458		4.26		0.13	6.71	10.5	2490	1.60	0.23	2.55	0.10	38.8	6.1	8	12.80	7.5
W603459		3.73		0.87	6.32	235	1450	1.60	0.17	3.53	1.71	42.1	4.4	7	16.95	8.1
W603460		0.26	109	>100	5.37	245	580	0.66	5.15	1.41	25.1	19.45	11.6	65	0.91	5830
W603461		5.25		0.20	6.81	44.9	2230	1.55	0.13	2.60	0.19	38.6	5.8	11	12.45	13.8
W603462		4.06		0.18	6.32	28.8	1930	1.43	0.12	3.45	0.20	41.1	4.5	8	13.95	4.9
W603463		4.37		0.33	6.64	189.5	3710	1.55	0.19	3.20	0.51	46.1	16.9	8	15.55	3.5
W603464		3.16		4.21	5.82	8820	480	1.37	0.13	3.06	104.5	42.4	3.8	5	16.05	11.7
W603465		6.01		1.02	6.58	379	1160	1.47	0.18	2.88	1.10	49.0	6.1	8	14.35	9.5
W603466		3.69		0.10	7.63	20.5	1930	1.68	0.13	1.52	0.17	50.8	2.8	9	20.4	4.8
W603467		1.59		0.28	6.69	22.5	490	1.57	1.03	1.61	0.13	48.9	74.8	6	13.90	10.3
W603468		4.18		0.54	7.03	37.5	490	1.49	0.17	1.90	1.63	52.4	4.5	7	16.85	16.1
W603469		4.51		0.63	6.87	45.8	1110	1.39	0.20	2.38	2.80	44.8	4.8	7	14.10	14.0
W603470		4.13		0.48	7.30	43.0	790	1.50	0.20	2.10	1.45	57.6	5.5	7	17.05	11.8
W603471		4.26		12.95	5.80	406	490	1.35	1.87	4.54	37.6	45.4	4.4	6	12.20	161.5
W603472		4.75		0.09	5.93	9.6	2250	1.32	0.14	2.87	0.21	32.1	4.3	8	22.8	7.1
W603473		5.20		0.17	7.07	106.5	2250	1.48	0.13	2.35	0.20	44.4	5.8	7	15.15	12.9
W603474		5.27		0.29	6.80	115.0	1840	1.53	0.15	2.60	0.29	41.5	5.9	9	13.30	6.3
W603475		4.97		0.27	6.73	99.5	1530	1.50	0.23	2.76	0.32	51.8	4.7	7	21.7	3.2
W603476		5.17		0.01	0.18	0.5	20	0.10	0.02	32.3	0.02	1.20	0.4	1	0.09	1.8
W603477		4.99		0.37	6.82	247	1640	1.44	0.13	2.47	0.33	34.7	3.4	7	17.40	7.0
W603478		2.14		1.45	6.39	5540	290	1.29	0.19	2.82	1.85	42.2	5.5	5	19.00	4.6
W603479		4.70		0.29	7.12	51.9	2390	1.41	0.20	1.89	0.16	46.8	2.6	6	14.65	4.2
W603480		4.06		3.01	7.25	839	1000	1.43	0.32	2.06	39.7	46.7	3.6	7	16.10	9.1
W603481		9.55		4.08	7.51	129.5	1940	1.33	0.15	1.73	10.10	46.3	4.2	6	24.2	10.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245856

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W603442		2.31	16.30	0.09	1.0	0.055	2.24	22.8	7.6	0.49	686	0.94	1.98	7.9	2.1	540
W603443		2.37	16.70	0.10	1.2	0.044	2.77	27.1	14.5	0.62	505	1.53	2.32	8.0	2.0	560
W603444		9.19	14.40	0.11	0.9	1.585	2.64	18.1	15.7	0.67	2350	16.70	0.06	4.8	14.3	440
W603445		2.76	17.30	0.11	1.3	0.045	2.90	24.6	25.2	0.65	555	2.04	2.37	8.4	2.2	570
W603446		2.53	15.95	0.10	1.1	0.041	2.95	18.6	100.0	0.59	1120	2.31	1.02	8.0	1.8	570
W603447		3.42	14.95	0.10	1.1	0.718	2.86	21.9	22.8	0.51	2260	1.81	0.26	7.2	2.0	510
W603448		2.76	16.05	0.12	1.3	0.088	2.55	20.4	30.1	0.69	819	1.80	0.99	8.3	2.2	570
W603449		3.00	15.30	0.10	1.3	0.103	2.34	22.8	24.9	0.74	1160	1.58	1.08	7.8	2.3	530
W603450		2.13	15.15	0.12	1.3	0.048	2.46	19.5	84.0	0.57	1120	2.62	0.30	7.5	1.9	510
W603451		2.53	14.25	0.11	1.0	0.089	2.82	21.3	35.6	0.54	1940	1.69	0.25	6.8	2.8	480
W603452		2.62	15.35	0.11	1.1	0.057	2.52	16.5	15.9	0.59	651	0.97	1.88	7.6	2.0	560
W603453		2.70	15.70	0.11	1.2	0.056	2.61	21.0	16.0	0.63	666	1.03	1.92	7.7	2.2	560
W603454		2.73	14.90	0.11	1.0	0.119	2.04	26.2	13.6	0.53	793	1.07	1.72	7.6	3.1	590
W603455		2.86	14.40	0.12	1.2	0.064	2.44	19.6	29.9	0.71	676	0.97	1.61	7.5	2.1	540
W603456		2.15	15.15	0.12	1.0	0.303	2.64	32.0	26.3	0.72	1500	0.98	0.25	6.9	2.4	500
W603457		2.39	14.55	0.10	1.3	0.046	2.70	18.4	19.6	0.59	616	1.15	1.91	7.7	2.0	530
W603458		2.74	14.95	0.11	1.3	0.061	3.20	19.2	14.5	0.59	1060	1.78	1.38	7.8	2.6	530
W603459		2.64	14.40	0.11	1.2	0.106	3.48	21.2	49.9	0.67	3650	1.85	0.25	7.6	2.1	520
W603460		5.66	11.85	0.09	1.7	0.430	1.09	8.8	12.7	1.08	1720	22.0	1.59	3.3	27.7	440
W603461		2.78	15.80	0.10	1.2	0.050	3.25	18.8	13.5	0.61	1070	1.98	1.65	8.1	2.4	560
W603462		2.73	15.55	0.12	1.2	0.086	3.22	19.4	41.4	0.58	1530	1.90	0.68	7.8	2.3	550
W603463		3.15	14.40	0.11	1.3	0.073	2.44	24.8	190.5	0.96	1600	1.18	0.06	7.7	2.4	500
W603464		5.15	14.45	0.11	0.9	0.069	2.66	23.6	21.7	0.98	6370	3.48	0.02	6.1	2.4	430
W603465		2.85	14.55	0.11	1.1	0.102	3.41	27.0	38.8	0.88	3620	3.30	0.05	7.3	2.5	500
W603466		2.25	16.45	0.12	1.2	0.062	3.64	27.5	137.0	0.54	905	2.43	0.10	8.1	1.5	550
W603467		3.85	13.50	0.08	1.0	0.161	2.95	24.9	139.5	0.57	1020	3.03	0.10	6.6	5.0	520
W603468		2.69	14.65	0.07	1.1	0.139	2.62	27.7	93.5	0.71	2030	3.36	0.03	7.5	2.9	560
W603469		2.51	14.50	0.08	1.0	0.128	2.59	22.3	106.0	0.76	2100	2.57	0.02	7.6	2.1	560
W603470		2.57	15.90	0.09	1.1	0.127	2.76	30.2	102.0	0.74	2030	2.56	0.02	7.8	2.2	570
W603471		3.78	12.55	0.08	0.9	1.695	2.70	24.2	32.0	1.09	8260	3.89	0.03	6.0	2.0	410
W603472		2.45	15.75	0.07	1.4	0.061	2.95	14.6	157.0	0.37	998	1.46	0.26	8.4	1.8	520
W603473		2.60	15.30	0.07	1.1	0.056	3.23	22.1	13.3	0.61	750	1.81	1.93	7.6	2.1	560
W603474		2.63	15.70	0.09	1.2	0.052	3.18	19.1	16.4	0.61	1080	2.56	1.66	7.8	2.3	550
W603475		2.27	15.05	0.09	1.1	0.121	2.97	26.5	25.5	0.84	1660	0.87	0.19	8.0	2.6	500
W603476		0.11	0.57	0.09	0.1	0.006	0.07	1.2	1.1	1.70	111	0.07	0.08	0.4	0.4	70
W603477		2.14	15.65	0.12	1.2	0.051	3.60	15.1	90.1	0.36	1440	2.12	0.27	8.1	1.6	570
W603478		3.59	14.80	0.07	0.9	0.050	3.00	20.8	15.9	0.76	3920	2.03	0.02	6.5	2.2	460
W603479		2.26	15.50	0.07	1.2	0.121	2.58	20.4	51.4	0.59	1940	1.26	0.05	7.7	1.4	560
W603480		3.50	15.90	0.08	1.1	0.168	3.07	21.6	15.4	0.68	3700	3.23	0.07	7.4	1.3	560
W603481		2.68	16.10	0.07	1.3	0.079	2.64	22.3	48.1	0.57	1400	3.19	0.07	8.6	2.0	590

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245856

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W603442		11.5	92.7	<0.002	0.06	3.85	9.0	<1	1.9	313	0.60	<0.05	9.63	0.230	1.57	3.5
W603443		15.3	108.5	<0.002	0.02	3.24	9.5	<1	1.6	349	0.62	<0.05	12.20	0.242	1.23	3.1
W603444		1645	141.5	0.002	7.87	106.5	8.5	1	11.1	66.6	0.38	0.75	8.23	0.167	2.18	5.1
W603445		21.3	107.5	<0.002	0.02	4.04	9.7	<1	1.8	364	0.67	<0.05	12.05	0.240	1.20	3.1
W603446		21.8	99.2	<0.002	0.11	12.20	8.9	<1	1.8	231	0.61	<0.05	9.74	0.245	1.58	2.9
W603447		2090	139.5	<0.002	1.80	13.60	8.9	1	2.8	141.5	0.54	<0.05	11.05	0.220	2.56	5.7
W603448		24.2	90.9	0.002	0.09	5.96	9.2	1	1.8	291	0.66	<0.05	10.65	0.248	1.63	10.3
W603449		55.2	87.4	<0.002	0.29	39.9	9.4	<1	1.8	333	0.63	<0.05	11.60	0.237	1.45	6.8
W603450		15.8	79.6	<0.002	0.16	9.89	7.9	<1	1.4	217	0.59	<0.05	9.47	0.225	1.79	3.6
W603451		83.9	123.5	0.002	1.16	13.30	7.8	1	1.8	169.0	0.52	0.14	10.20	0.212	2.60	5.4
W603452		16.1	91.3	<0.002	0.04	3.76	8.7	1	1.8	311	0.59	<0.05	9.14	0.247	1.56	2.4
W603453		16.9	103.0	<0.002	0.04	3.86	9.2	<1	1.8	314	0.61	<0.05	10.25	0.255	1.54	2.6
W603454		15.7	86.2	<0.002	0.22	3.01	8.4	1	2.3	267	0.59	0.07	9.73	0.238	1.74	3.0
W603455		25.8	86.0	<0.002	0.15	4.61	8.6	1	1.7	321	0.58	<0.05	10.25	0.234	1.39	2.4
W603456		97.2	126.0	<0.002	0.95	19.15	7.7	<1	2.8	166.0	0.54	<0.05	10.65	0.208	2.61	6.7
W603457		15.5	84.6	<0.002	0.04	2.36	7.8	<1	1.4	350	0.65	<0.05	9.42	0.229	1.24	2.9
W603458		16.5	139.5	<0.002	0.20	4.11	8.5	1	1.6	279	0.67	<0.05	10.60	0.227	2.22	2.9
W603459		60.4	143.5	<0.002	0.96	15.35	8.4	1	1.9	209	0.59	<0.05	10.55	0.230	2.89	10.4
W603460		9880	28.6	0.012	2.27	440	11.9	2	2.0	188.0	0.22	1.30	2.05	0.240	0.51	1.3
W603461		23.3	114.0	<0.002	0.19	4.98	9.1	1	1.7	337	0.62	<0.05	10.75	0.259	2.00	3.1
W603462		18.1	129.0	<0.002	0.24	7.22	8.5	<1	1.9	253	0.62	<0.05	9.91	0.236	2.45	3.2
W603463		29.3	89.4	<0.002	0.66	20.2	9.0	1	1.5	298	0.59	0.09	11.95	0.236	1.81	3.8
W603464		829	175.0	<0.002	3.03	66.5	7.6	<1	7.1	106.0	0.48	<0.05	10.90	0.185	2.96	4.5
W603465		68.8	158.0	<0.002	1.15	19.05	8.4	<1	2.4	128.0	0.60	<0.05	11.60	0.222	3.11	7.7
W603466		12.0	155.5	<0.002	0.11	16.70	9.6	1	2.0	243	0.63	<0.05	14.45	0.245	2.58	4.9
W603467		14.7	125.5	<0.002	1.71	15.20	7.6	<1	2.4	258	0.54	0.66	10.80	0.211	1.76	3.2
W603468		120.5	130.0	<0.002	0.29	23.6	8.8	<1	2.0	294	0.56	<0.05	12.70	0.224	2.17	5.8
W603469		204	110.0	<0.002	0.38	12.95	8.5	<1	2.0	228	0.57	<0.05	10.85	0.231	2.41	4.1
W603470		162.5	149.0	<0.002	0.38	12.55	9.7	<1	2.3	228	0.63	<0.05	12.95	0.227	2.71	4.8
W603471		3820	149.5	<0.002	2.18	53.4	7.2	<1	2.3	139.5	0.49	<0.05	9.89	0.175	2.21	4.6
W603472		25.4	88.7	<0.002	0.04	13.25	7.7	<1	2.0	250	0.69	<0.05	8.98	0.224	1.56	3.9
W603473		18.9	116.0	<0.002	0.23	7.06	8.8	<1	2.3	335	0.55	<0.05	10.10	0.243	1.55	2.7
W603474		25.1	107.5	<0.002	0.31	6.67	9.1	<1	2.3	322	0.58	<0.05	9.99	0.236	1.68	3.6
W603475		21.6	152.0	<0.002	0.58	8.79	8.5	<1	2.1	128.0	0.65	<0.05	12.15	0.213	2.57	4.8
W603476		0.8	1.9	<0.002	<0.01	0.12	0.2	1	<0.2	77.0	<0.05	<0.05	0.17	0.005	0.03	0.2
W603477		23.1	118.0	<0.002	0.25	14.65	8.0	<1	2.0	249	0.64	<0.05	8.50	0.245	2.17	3.2
W603478		86.3	148.0	<0.002	2.59	52.0	7.1	<1	4.4	121.5	0.52	<0.05	9.85	0.193	2.73	4.4
W603479		11.1	120.0	<0.002	0.48	14.45	8.3	<1	2.2	165.5	0.60	<0.05	11.55	0.228	2.44	5.8
W603480		673	173.5	<0.002	1.66	19.20	8.5	<1	4.6	212	0.59	<0.05	12.60	0.220	2.96	4.3
W603481		819	108.5	<0.002	0.49	20.1	9.1	<1	2.2	162.5	0.69	<0.05	12.40	0.244	1.83	4.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245856

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W603442		61	1.1	13.5	51	28.2	<0.005
W603443		60	1.7	14.7	42	34.2	<0.005
W603444		55	7.5	9.1	3390	23.4	1.720
W603445		62	2.1	15.6	52	37.2	<0.005
W603446		64	1.7	13.2	73	34.3	<0.005
W603447		58	2.5	11.9	5110	28.6	0.453
W603448		64	2.0	15.3	73	35.8	<0.005
W603449		62	1.7	15.4	89	36.2	0.063
W603450		57	2.7	12.5	41	36.5	<0.005
W603451		53	1.7	13.4	94	26.4	0.076
W603452		64	1.3	13.0	46	31.1	<0.005
W603453		65	1.3	14.1	46	32.6	<0.005
W603454		63	1.1	11.0	51	29.0	<0.005
W603455		60	1.2	12.9	88	32.3	0.031
W603456		56	1.8	11.9	252	26.3	0.144
W603457		56	1.1	13.4	41	34.3	<0.005
W603458		58	2.1	13.2	46	34.1	<0.005
W603459		59	2.7	14.6	189	33.0	0.071
W603460		78	0.6	14.6	5070	64.6	0.270
W603461		65	2.4	12.9	51	34.0	0.005
W603462		62	1.8	13.0	52	32.2	0.006
W603463		62	2.6	16.9	90	34.4	0.046
W603464		48	3.3	10.8	5850	24.9	0.924
W603465		57	3.2	14.9	108	31.7	0.053
W603466		61	1.7	13.0	53	32.7	<0.005
W603467		58	3.9	12.1	51	28.4	0.235
W603468		61	3.5	15.2	215	31.9	0.012
W603469		61	3.1	14.0	334	29.9	0.022
W603470		62	3.1	15.2	191	33.1	0.014
W603471		49	2.4	14.2	4200	27.6	0.226
W603472		59	1.2	13.5	57	38.3	<0.005
W603473		63	1.3	13.6	56	30.9	0.042
W603474		63	1.4	13.4	50	32.3	0.035
W603475		53	1.3	13.2	69	33.8	0.016
W603476		1	0.1	2.5	4	2.8	<0.005
W603477		64	2.3	11.1	49	34.5	0.146
W603478		51	2.7	11.1	155	26.1	3.69
W603479		61	3.2	12.7	47	34.3	0.025
W603480		59	3.3	12.4	2310	31.1	0.309
W603481		62	3.2	13.9	934	36.8	0.053

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245856

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245860

Project: Klaza

P.O. No.: 19-045

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245860

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593481		1.28	0.77	6.20	133.5	1370	1.85	1.67	6.86	0.96	66.7	9.4	6	33.2	23.1	4.33
W593482		2.87	0.18	7.04	67.8	2100	1.78	0.27	3.39	0.41	37.1	8.5	10	20.8	14.0	3.00
W593483		5.27	0.15	7.60	26.6	2420	1.74	0.31	2.79	0.24	46.8	8.4	10	8.83	12.0	3.08
W593484		1.89	0.26	5.96	49.1	1460	1.54	0.87	4.94	0.24	38.3	7.4	7	8.71	26.2	2.09
W593485		1.83	0.28	5.81	48.7	1890	1.46	1.29	5.93	0.60	72.9	12.3	6	9.47	7.6	2.63
W593486		<0.02	0.31	6.12	49.3	2000	1.44	1.30	6.22	0.62	81.8	13.0	6	10.00	7.9	2.70
W593487		3.81	0.12	7.60	44.8	2510	1.60	0.25	2.35	0.23	41.6	7.7	9	9.18	12.2	3.14
W593488		4.81	0.14	7.23	8.5	2360	1.44	0.25	2.64	0.39	43.0	7.1	12	7.42	9.4	3.03
W593489		5.39	0.31	7.13	20.8	2120	1.60	0.72	2.57	1.31	40.8	7.9	10	10.25	19.5	3.13
W593490		3.21	0.30	7.34	8.0	2490	1.56	0.26	2.14	0.17	42.2	7.2	8	19.05	13.4	2.70
W593491		3.97	0.24	7.19	11.4	2200	1.57	0.45	2.54	0.25	49.8	7.9	10	13.75	32.6	3.09
W593492		0.26	30.9	7.12	137.0	100	0.65	12.35	6.06	36.0	30.8	98.7	108	1.70	6910	9.64
W593493		5.03	0.11	7.56	5.9	2490	1.64	0.11	2.86	0.18	51.7	8.9	13	6.88	17.1	3.28
W593494		4.97	0.11	7.63	6.8	2430	1.62	0.13	2.84	0.25	51.8	9.2	14	5.60	13.3	3.11
W593495		3.96	0.15	7.26	4.8	2340	1.43	0.12	2.71	0.25	48.9	7.6	23	4.52	32.4	2.95
W593496		1.72	1.57	6.99	265	1470	1.43	3.36	2.58	1.36	49.8	8.0	11	14.20	39.0	3.67
W593497		1.09	4.44	6.22	852	100	1.13	7.12	0.96	13.05	26.6	14.5	11	8.17	63.4	8.04
W593498		4.99	0.03	0.27	1.3	40	0.12	0.04	31.7	0.04	1.21	0.5	1	0.07	5.4	0.11
W593499		2.95	0.46	6.89	139.0	2100	1.21	0.65	2.76	1.05	45.7	6.5	11	8.39	34.0	2.88
W593500		2.75	0.50	6.69	20.3	2090	1.12	0.67	2.83	0.47	40.8	5.8	9	15.35	52.7	3.01
W593501		1.44	3.41	6.42	984	690	1.06	2.29	2.37	16.15	42.0	9.5	9	12.55	53.6	4.38
W593502		4.49	1.34	6.85	49.6	1850	1.28	1.35	2.39	4.37	42.7	9.2	9	15.25	56.4	3.99
W593503		3.01	0.14	6.86	11.6	2030	1.32	0.40	2.09	0.16	50.0	6.9	11	9.16	18.5	2.84
W593504		0.47	0.43	6.03	22.7	1670	1.24	1.50	2.56	0.30	37.2	6.2	9	16.50	43.1	2.91
W593505		0.43	0.40	6.01	23.1	1810	1.20	1.44	3.80	0.35	46.9	6.7	7	17.35	31.1	3.27
W593506		4.53	0.11	7.16	4.4	2340	1.31	0.11	2.67	0.11	47.3	7.9	12	5.99	25.4	2.94
W593507		5.42	0.12	7.35	3.5	2300	1.36	0.11	2.79	0.15	50.1	8.0	15	4.38	20.4	2.98
W593508		5.07	0.12	7.51	5.6	2370	1.49	0.11	2.78	0.15	49.5	8.4	13	4.22	15.3	3.02
W593509		5.40	0.12	7.30	5.1	2230	1.39	0.12	2.70	0.13	48.1	7.4	12	3.36	11.9	2.94
W593510		0.26	98.4	5.33	240	370	0.65	4.73	1.38	22.5	19.75	11.0	61	0.81	5920	5.56
W593511		5.43	0.17	7.09	7.4	2260	1.36	0.11	2.62	0.10	46.1	7.9	13	4.69	12.6	2.89
W593512		4.94	0.08	7.55	7.8	2420	1.48	0.15	2.78	0.12	47.8	9.6	14	4.70	8.3	3.07
W593513		4.52	0.09	7.00	7.4	2200	1.38	0.16	2.49	0.14	45.8	6.8	12	5.27	6.1	2.86
W593514		4.83	0.06	7.01	5.5	2130	1.45	0.09	2.47	0.07	50.4	6.9	11	3.71	6.6	2.69
W593515		5.30	0.05	7.12	4.2	2280	1.47	0.07	2.77	0.08	44.5	7.6	13	5.08	7.4	2.89
W593516		3.04	0.11	7.04	6.0	2170	1.48	0.24	2.64	0.10	46.0	7.1	14	5.50	9.1	2.82
W593517		2.82	1.31	7.50	253	1260	1.60	1.11	1.78	12.65	51.1	8.5	12	15.30	22.1	4.63
W593518		3.15	0.55	7.51	31.9	2340	1.69	1.93	2.07	4.12	51.1	9.3	9	25.0	24.6	3.86
W593519		2.21	1.01	7.05	25.2	2100	1.47	2.80	2.48	0.42	42.2	9.9	10	14.65	22.2	3.74
W593520		3.88	0.12	6.46	5.3	1060	1.84	0.10	1.51	0.44	72.2	3.6	11	8.65	6.7	1.61

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245860

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593481		14.65	0.21	0.8	0.273	2.62	37.1	9.2	1.56	2250	10.20	0.16	5.6	2.4	540	56.5
W593482		17.85	0.20	1.5	0.071	2.67	17.0	14.9	0.65	970	3.24	1.26	8.6	4.0	710	42.7
W593483		16.45	0.22	1.3	0.077	2.49	24.1	12.3	0.80	634	1.69	2.26	7.8	2.8	660	20.8
W593484		15.90	0.20	1.2	0.165	1.53	18.9	13.6	0.37	1440	4.80	2.24	7.9	2.2	620	20.6
W593485		14.35	0.23	0.7	0.321	1.11	39.2	15.5	0.65	1400	2.24	1.60	6.2	3.2	540	35.8
W593486		14.65	0.21	0.7	0.324	1.14	45.0	15.6	0.69	1480	2.23	1.64	6.2	3.1	560	37.7
W593487		16.45	0.20	1.0	0.088	2.60	20.6	14.4	0.73	596	1.65	1.81	7.8	2.4	670	27.7
W593488		15.45	0.16	1.0	0.061	2.62	20.4	10.3	0.88	703	1.18	2.31	7.4	2.5	640	28.8
W593489		16.05	0.22	1.0	0.138	2.66	19.7	12.6	0.74	868	1.46	1.46	7.5	2.6	640	53.1
W593490		15.90	0.21	1.1	0.074	2.70	21.2	13.3	0.55	568	1.72	1.46	7.8	2.3	630	20.4
W593491		16.20	0.22	1.0	0.095	2.52	24.5	12.5	0.68	751	3.09	1.89	7.6	2.7	650	23.7
W593492		11.95	0.18	0.8	2.67	1.04	16.6	9.3	2.25	892	58.7	0.85	2.7	370	690	8580
W593493		16.90	0.17	1.1	0.043	2.73	25.6	10.7	0.96	685	2.22	2.51	8.3	3.0	720	24.8
W593494		16.95	0.23	1.0	0.047	2.69	24.8	10.8	0.94	661	3.05	2.45	8.0	2.9	650	19.6
W593495		15.60	0.11	1.0	0.051	2.49	24.7	8.8	0.87	645	2.28	2.37	8.0	2.8	630	20.5
W593496		15.80	0.10	0.9	0.213	3.20	24.7	8.2	0.64	1400	2.36	0.70	7.4	2.5	600	95.8
W593497		14.10	0.08	0.7	0.341	2.96	12.6	6.7	0.37	745	4.05	0.04	6.2	2.6	510	563
W593498		0.73	0.06	<0.1	0.006	0.08	1.2	0.8	1.67	113	0.07	0.15	0.2	0.5	80	2.1
W593499		15.15	0.09	0.9	0.071	2.64	21.9	5.8	0.77	914	7.41	1.89	7.5	2.5	600	64.9
W593500		14.95	0.08	0.9	0.066	2.92	19.5	6.5	0.58	1120	1.25	1.36	7.5	2.3	610	26.8
W593501		13.70	0.08	0.9	0.423	3.40	20.4	5.9	0.45	2920	1.77	0.05	7.0	2.8	540	787
W593502		15.35	0.08	0.9	0.320	2.99	20.8	9.2	0.63	1460	1.29	0.98	7.8	2.8	600	148.5
W593503		16.10	0.09	1.0	0.056	2.59	23.7	9.8	0.68	653	2.42	1.75	8.1	2.5	620	15.6
W593504		14.60	0.08	0.9	0.089	2.42	18.1	15.3	0.39	1060	9.01	0.60	7.1	2.2	550	15.4
W593505		13.80	0.08	0.8	0.091	2.26	23.3	15.3	0.58	1300	2.27	0.58	6.7	2.3	520	17.2
W593506		16.65	0.10	1.0	0.052	2.53	22.9	11.5	0.82	653	1.17	2.25	8.1	2.7	630	14.7
W593507		16.70	0.10	1.1	0.050	2.46	25.5	10.6	0.88	660	1.26	2.35	8.1	2.9	640	16.9
W593508		16.35	0.10	1.3	0.039	2.51	24.8	8.8	0.90	659	2.01	2.38	8.3	2.9	650	18.1
W593509		15.70	0.09	1.2	0.042	2.41	24.4	7.5	0.86	638	1.22	2.30	7.8	2.7	620	17.8
W593510		11.20	0.06	1.4	0.405	1.10	9.2	10.9	1.07	1640	19.20	1.59	3.1	26.6	440	9780
W593511		15.55	0.09	1.2	0.045	2.48	22.2	7.4	0.84	631	1.08	2.35	7.8	2.7	620	18.6
W593512		16.00	0.10	1.2	0.046	2.56	23.7	7.8	0.91	659	1.53	2.40	8.1	2.9	650	15.4
W593513		15.15	0.09	1.2	0.047	2.47	22.5	8.8	0.86	592	1.61	2.33	8.1	2.6	610	13.9
W593514		15.55	0.09	1.4	0.037	2.58	24.9	7.1	0.78	548	1.06	2.28	7.9	2.6	580	14.2
W593515		16.10	0.10	1.3	0.037	2.51	21.6	9.4	0.85	637	1.35	2.37	8.1	2.8	630	13.9
W593516		16.35	0.10	1.4	0.051	2.67	22.3	8.4	0.81	667	1.93	2.27	8.1	3.3	600	16.7
W593517		17.50	0.10	1.3	0.586	3.12	26.0	6.8	0.73	1590	1.77	0.95	8.6	3.4	690	145.5
W593518		16.40	0.10	0.8	0.317	3.08	25.6	13.4	0.85	1640	2.05	0.05	7.8	2.7	680	45.9
W593519		16.45	0.09	1.0	0.129	2.91	20.2	9.7	0.77	1140	1.32	0.96	7.7	3.0	640	42.2
W593520		13.75	0.11	2.6	0.026	3.75	40.7	6.1	0.42	423	5.76	1.71	8.5	1.4	290	28.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245860

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593481		140.0	0.013	1.01	8.31	9.5	1	3.4	141.5	0.48	0.27	10.95	0.196	1.99	8.8	67
W593482		79.0	0.008	0.11	3.40	11.5	<1	2.1	287	0.73	<0.05	10.85	0.290	1.37	5.5	80
W593483		82.9	<0.002	0.18	2.22	11.1	<1	2.4	405	0.68	0.05	12.45	0.280	1.00	2.4	76
W593484		48.4	0.002	0.12	6.22	9.0	<1	4.7	178.5	0.71	0.05	10.05	0.263	0.97	4.5	66
W593485		54.5	0.004	0.70	9.34	9.5	<1	6.1	176.0	0.47	0.18	9.62	0.222	0.85	7.1	67
W593486		60.4	0.005	0.72	9.54	9.9	<1	6.3	185.5	0.49	0.17	10.60	0.223	0.90	8.3	68
W593487		83.4	<0.002	0.11	4.12	10.9	<1	2.7	351	0.59	0.05	11.10	0.288	1.04	2.4	77
W593488		79.8	<0.002	0.09	1.65	10.1	<1	1.8	410	0.62	<0.05	10.90	0.274	1.03	3.7	74
W593489		96.2	0.003	0.35	3.28	10.5	<1	2.1	266	0.61	0.06	10.35	0.270	1.48	3.4	73
W593490		97.8	0.002	0.07	3.40	10.4	<1	2.5	239	0.67	<0.05	11.65	0.277	1.20	3.2	73
W593491		85.0	0.002	0.12	2.44	10.9	1	3.4	306	0.64	<0.05	10.55	0.273	1.10	3.8	75
W593492		33.9	0.016	6.46	30.3	13.2	15	7.2	156.0	0.22	0.68	3.75	0.210	2.75	6.4	390
W593493		87.4	<0.002	0.02	0.93	11.2	1	2.1	435	0.67	<0.05	12.35	0.300	1.08	3.5	82
W593494		94.0	<0.002	0.03	0.93	11.4	<1	1.9	424	0.65	<0.05	12.90	0.287	0.98	4.0	76
W593495		89.0	<0.002	0.02	0.80	10.5	<1	1.9	403	0.58	<0.05	10.40	0.264	0.84	3.9	72
W593496		156.5	<0.002	1.57	4.30	10.5	1	3.0	182.5	0.53	0.38	11.80	0.247	1.95	3.7	69
W593497		181.0	<0.002	8.07	6.15	8.8	2	4.4	30.9	0.44	1.59	9.92	0.206	2.11	3.0	59
W593498		2.1	<0.002	0.01	0.12	0.2	1	<0.2	73.3	<0.05	<0.05	0.14	0.006	0.03	0.1	1
W593499		98.7	0.002	0.22	2.01	9.4	<1	2.0	339	0.58	0.06	10.75	0.256	1.20	3.2	70
W593500		108.0	<0.002	0.28	3.32	9.0	<1	2.1	264	0.56	0.12	9.56	0.254	1.40	3.4	70
W593501		193.5	<0.002	2.66	11.25	8.6	1	3.9	79.2	0.53	0.33	9.75	0.247	2.73	5.9	67
W593502		135.5	<0.002	0.66	5.05	9.9	<1	2.9	201	0.58	0.11	10.65	0.255	1.88	3.8	70
W593503		99.9	0.003	0.06	5.46	10.5	1	2.4	288	0.60	<0.05	11.60	0.256	1.05	3.5	71
W593504		86.8	0.010	0.36	22.5	8.6	<1	2.5	120.5	0.55	0.11	8.16	0.233	1.26	4.3	67
W593505		81.9	<0.002	0.44	19.20	8.9	1	2.4	149.0	0.50	0.10	9.49	0.222	1.14	6.2	66
W593506		88.6	<0.002	0.01	1.06	10.8	<1	2.0	381	0.56	<0.05	10.45	0.275	0.85	2.8	74
W593507		93.8	<0.002	0.01	0.62	10.9	<1	1.7	408	0.57	<0.05	13.00	0.272	0.91	3.5	74
W593508		96.8	<0.002	0.02	0.85	10.7	1	1.6	411	0.59	<0.05	11.15	0.277	0.90	3.0	75
W593509		92.7	<0.002	0.02	0.74	10.6	<1	1.5	398	0.62	<0.05	12.30	0.263	0.86	3.4	72
W593510		28.6	0.011	2.23	435	11.1	2	1.8	183.5	0.19	1.06	1.98	0.233	0.46	1.3	77
W593511		86.2	<0.002	0.03	1.54	10.2	<1	1.5	401	0.60	<0.05	11.05	0.264	0.88	3.0	71
W593512		93.5	<0.002	0.06	1.10	10.7	<1	1.5	417	0.62	<0.05	10.70	0.275	0.87	3.5	76
W593513		90.9	0.002	0.05	1.14	10.3	<1	1.4	382	0.61	<0.05	11.25	0.262	0.86	3.1	71
W593514		94.9	<0.002	0.03	0.75	9.8	1	1.4	374	0.62	<0.05	13.30	0.246	0.88	3.0	66
W593515		86.9	<0.002	0.01	0.55	10.2	<1	1.5	405	0.59	<0.05	10.55	0.269	0.89	3.0	73
W593516		89.4	<0.002	0.09	1.22	10.1	1	1.5	373	0.60	0.05	11.75	0.255	0.96	3.2	70
W593517		179.5	<0.002	1.89	6.99	12.1	<1	3.9	200	0.63	0.17	10.20	0.286	2.33	3.8	78
W593518		154.5	<0.002	0.96	11.30	11.8	1	2.2	73.2	0.48	0.26	9.01	0.288	2.24	3.1	80
W593519		128.0	<0.002	1.33	6.55	11.2	1	2.1	231	0.50	0.80	8.35	0.279	1.72	2.8	77
W593520		157.5	0.015	0.05	1.66	5.5	<1	1.2	166.5	1.08	<0.05	32.7	0.118	1.29	8.3	30

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245860

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593481		2.7	23.9	190	21.1	0.023
W593482		1.6	17.3	150	39.1	<0.005
W593483		1.2	16.8	70	31.1	0.005
W593484		2.2	17.6	77	31.0	0.005
W593485		2.4	26.2	107	19.1	0.013
W593486		2.7	29.2	109	18.3	0.019
W593487		1.9	15.3	84	27.5	<0.005
W593488		1.0	16.5	75	27.1	<0.005
W593489		1.7	15.1	164	27.4	0.007
W593490		17.4	14.1	56	27.3	<0.005
W593491		4.4	16.3	66	26.7	0.009
W593492		7.2	14.0	8090	28.5	1.450
W593493		1.3	18.7	59	27.9	<0.005
W593494		0.9	19.2	62	27.8	<0.005
W593495		0.9	16.5	73	26.3	<0.005
W593496		2.1	14.6	189	25.8	0.046
W593497		4.8	8.9	1280	20.6	0.170
W593498		0.1	2.2	8	1.5	<0.005
W593499		1.5	15.0	152	24.8	0.018
W593500		1.5	14.0	153	24.5	<0.005
W593501		2.5	11.5	1650	21.0	0.062
W593502		1.9	13.5	410	24.3	0.022
W593503		1.0	16.6	58	25.4	<0.005
W593504		1.8	12.9	69	23.6	0.008
W593505		1.6	16.3	87	22.7	<0.005
W593506		0.9	16.6	53	29.0	<0.005
W593507		0.9	16.8	64	30.5	<0.005
W593508		1.6	17.1	62	36.6	<0.005
W593509		1.1	16.5	55	34.2	<0.005
W593510		0.7	13.0	4880	45.4	0.270
W593511		0.7	16.4	51	35.6	<0.005
W593512		0.6	18.2	51	34.3	<0.005
W593513		0.9	16.6	49	36.1	<0.005
W593514		0.6	16.1	41	39.0	<0.005
W593515		1.1	16.5	46	39.1	<0.005
W593516		2.1	16.1	51	42.4	<0.005
W593517		3.6	14.6	1020	34.9	0.098
W593518		2.4	15.3	415	22.7	0.012
W593519		1.5	14.4	85	29.0	0.015
W593520		1.5	15.4	59	72.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245860

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245863

Project: Klaza

P.O. No.: 19-047

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245863

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W603482		4.25			1.84	6.22	207	1420	1.50	0.13	2.62	4.35	37.8	4.2	6	29.1
W603483		6.36			1.12	6.50	107.0	1500	1.53	0.20	2.40	2.40	41.5	4.8	6	24.0
W603484		3.45			0.27	7.17	26.7	2150	1.13	0.11	1.19	3.09	51.1	5.6	6	7.88
W603485		4.03			0.34	7.53	12.2	2050	1.25	0.49	1.11	0.40	57.9	6.0	6	9.20
W603486		4.88			0.28	6.78	201	1730	1.48	0.25	2.17	0.17	45.5	7.0	6	10.60
W603487		0.26			38.3	5.41	2510	80	1.12	34.3	1.61	42.4	32.8	16.9	23	9.46
W603488		6.20			1.49	7.15	116.5	1730	1.49	0.14	1.63	3.05	48.1	4.5	6	15.45
W603489		6.12			0.32	7.88	57.8	2240	1.32	0.18	0.86	0.28	56.2	4.4	7	14.05
W603490		4.72			22.9	7.49	192.5	2440	1.35	0.29	1.75	1.47	50.9	5.6	6	25.2
W603491		2.66			0.19	7.23	12.0	2200	1.52	0.17	2.09	0.29	42.3	5.6	6	29.7
W603492		6.56			0.10	7.44	6.1	2390	1.69	0.13	2.49	0.14	42.2	5.2	7	10.75
W603493		4.73			0.59	6.88	27.2	2380	1.57	0.17	2.29	2.42	41.6	3.8	7	10.80
W603494		6.68			0.23	7.46	35.1	1480	1.88	0.22	1.59	0.12	56.4	3.7	7	15.10
W603495		<0.02			0.24	7.60	36.3	1520	1.92	0.22	1.64	0.12	58.2	3.5	6	14.90
W603496		5.85			0.22	7.35	22.3	1460	1.68	0.15	2.09	0.21	51.0	4.7	7	17.10
W603497		5.65			0.95	7.26	57.9	1700	2.01	0.91	1.84	0.78	48.7	5.1	7	37.7
W603498		4.92			0.16	7.78	11.7	2250	1.72	0.14	2.00	0.16	48.6	6.0	7	16.90
W603499		6.15			0.05	7.29	10.5	2170	1.77	0.09	2.35	0.07	45.8	4.6	7	12.20
W603500		4.99			0.07	7.01	5.2	2420	1.67	0.14	2.81	0.08	35.0	5.5	7	8.87
W603501		5.14			<0.01	0.14	<0.2	30	0.11	0.02	34.0	0.02	1.24	1.3	2	0.10
W603502		4.54			0.03	6.86	5.3	2130	1.44	0.11	2.59	0.10	37.6	6.5	5	13.15
W603503		5.01			0.14	7.46	16.1	1950	1.45	0.11	1.92	0.14	46.4	6.4	6	20.5
W603504		2.81			6.37	6.63	1690	1210	1.72	0.17	3.28	3.48	45.9	7.2	5	18.95
W603505		2.88			0.13	7.60	11.3	2600	1.55	0.28	1.83	0.18	51.9	11.1	6	15.20
W603506		5.50			0.06	7.81	7.5	2200	1.45	0.16	1.99	0.08	53.6	6.8	6	13.60
W603507		2.95			0.10	7.25	9.6	2440	1.68	0.28	2.42	0.06	42.6	11.8	6	12.15
W603508		2.97			0.05	7.66	7.1	2430	1.67	0.17	2.45	0.07	45.8	8.8	6	14.10
W603509		4.19			0.11	7.04	9.4	2280	1.69	0.14	2.60	0.11	39.3	3.8	6	15.05
W603510		8.39			0.06	7.50	12.6	2110	1.68	0.14	2.17	0.09	47.5	4.9	6	13.05
W603511		2.11			0.77	6.82	220	310	1.79	6.66	2.61	0.64	52.1	20.1	5	13.50
W603512		6.54			0.06	7.13	26.3	1930	1.60	0.17	2.04	0.11	43.9	5.7	6	12.10
W603513		10.78			0.05	6.69	7.8	2370	1.80	0.07	2.53	0.08	36.9	5.8	7	15.05
W603514		5.05			0.05	7.16	6.8	2160	1.74	0.10	2.44	0.10	45.2	7.5	6	14.25
W603515		1.94			34.7	6.16	618	310	1.66	7.60	3.04	12.65	45.2	5.6	7	17.00
W603516		0.26	98	1.010	>100	5.58	265	440	0.75	5.26	1.48	25.4	19.50	12.0	60	0.91
W603517		2.74			53.1	6.16	497	290	1.59	44.2	3.05	9.05	41.6	5.8	9	15.85
W603518		4.40			0.21	7.50	7.3	2500	1.83	0.13	2.63	0.11	48.1	6.4	7	12.05
W603519		5.07			0.13	7.44	5.1	2480	1.79	0.15	2.61	0.09	44.3	6.4	8	13.20
W603520		13.46			0.07	6.90	7.1	2510	1.77	0.09	3.24	0.09	38.2	5.6	7	10.85
W603521		3.24			0.03	7.03	3.2	2250	1.71	0.10	2.47	0.07	45.0	4.5	8	9.99

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245863

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603482		33.9	2.36	15.25	0.08	1.0	0.070	2.64	17.6	117.0	0.58	1360	1.84	0.06	7.7	2.2
W603483		19.0	2.48	15.50	0.11	1.1	0.066	2.73	20.0	123.5	0.60	1080	1.31	0.24	7.6	2.2
W603484		12.1	2.81	15.15	0.10	1.1	0.046	3.08	27.1	32.0	0.54	956	1.46	0.09	7.3	2.4
W603485		11.2	2.64	16.25	0.11	1.1	0.073	2.75	30.5	38.0	0.51	808	1.45	0.06	7.4	2.3
W603486		3.9	2.85	16.00	0.10	1.2	0.061	3.04	22.1	27.7	0.75	1190	0.89	0.05	8.3	2.5
W603487		1160	8.87	13.45	0.09	0.8	1.475	2.58	15.6	15.7	0.63	2230	16.00	0.06	4.6	14.4
W603488		8.8	2.67	15.45	0.10	1.2	0.062	3.26	24.8	57.0	0.57	1680	1.33	0.46	7.5	2.0
W603489		6.0	2.60	17.75	0.09	1.3	0.062	3.25	30.5	31.9	0.40	593	0.93	0.20	9.0	2.0
W603490		9.8	2.62	17.05	0.10	1.2	0.073	3.14	25.8	34.3	0.41	615	0.98	0.54	8.7	2.1
W603491		5.8	2.46	16.70	0.10	1.1	0.079	2.94	21.0	24.0	0.52	736	1.31	1.02	8.6	2.2
W603492		5.8	2.83	16.70	0.18	1.2	0.087	2.87	22.3	14.8	0.72	629	1.19	2.13	8.5	4.0
W603493		9.4	2.75	16.30	0.20	1.1	0.140	3.20	21.8	35.5	0.63	1440	2.34	0.74	8.4	2.3
W603494		2.0	2.67	17.45	0.23	1.2	0.157	2.79	31.7	94.7	0.62	1360	2.80	0.03	8.8	2.1
W603495		2.6	2.74	17.80	0.22	1.3	0.175	2.81	33.2	94.6	0.64	1390	3.15	0.03	8.8	2.0
W603496		3.6	2.36	16.40	0.19	1.5	0.081	3.09	28.0	137.5	0.71	1620	3.08	0.02	8.4	2.2
W603497		63.7	2.69	17.40	0.18	1.2	0.169	2.48	26.1	221	0.64	1300	3.60	0.05	8.5	2.6
W603498		4.2	3.06	18.30	0.20	1.1	0.100	3.16	25.7	116.5	0.69	883	0.70	0.09	8.9	2.4
W603499		2.5	2.82	16.95	0.22	1.2	0.047	3.11	23.9	18.5	0.64	632	0.51	1.55	8.8	2.2
W603500		2.7	2.73	16.65	0.21	1.0	0.051	2.84	18.0	17.0	0.53	567	0.42	1.87	8.2	2.1
W603501		2.7	0.13	0.54	0.22	0.1	<0.005	0.05	1.3	1.7	1.89	119	<0.05	0.05	0.2	0.4
W603502		4.4	2.60	16.90	0.27	1.3	0.037	2.79	18.7	21.4	0.43	493	0.77	1.36	8.7	2.1
W603503		4.6	2.54	16.80	0.24	1.3	0.034	2.93	24.7	134.5	0.53	877	0.73	0.20	8.7	1.9
W603504		25.9	3.06	15.30	0.18	1.1	0.047	2.86	24.8	70.0	0.99	1840	1.14	0.02	7.7	2.7
W603505		5.1	2.85	18.30	0.21	1.3	0.034	3.02	27.8	101.5	0.61	735	0.68	0.26	9.7	2.7
W603506		6.6	2.76	17.50	0.21	1.3	0.030	3.03	29.1	25.5	0.49	446	0.79	1.45	9.0	2.2
W603507		5.6	2.79	16.45	0.21	1.1	0.079	2.83	23.0	18.3	0.43	494	0.54	1.94	8.4	2.9
W603508		5.3	2.80	16.85	0.21	1.2	0.058	3.01	24.8	16.8	0.53	500	0.69	2.08	8.5	2.4
W603509		7.3	2.48	16.75	0.23	1.1	0.044	3.03	20.8	23.2	0.61	556	1.34	1.30	8.1	1.8
W603510		3.6	2.85	16.90	0.21	1.3	0.093	3.24	25.5	23.2	0.63	810	1.32	1.72	9.0	2.4
W603511		14.9	3.82	16.40	0.20	1.2	0.233	3.05	28.2	65.1	0.78	8560	1.32	0.04	7.8	2.5
W603512		4.7	2.58	16.75	0.22	1.2	0.118	3.36	22.5	23.0	0.67	1290	0.95	0.81	8.5	2.3
W603513		7.5	2.46	16.55	0.23	1.4	0.035	3.10	19.0	10.8	0.69	540	0.83	1.80	8.9	2.3
W603514		5.5	2.62	16.35	0.24	1.4	0.041	3.01	23.0	31.7	0.64	597	0.57	1.80	8.7	2.2
W603515		587	4.21	14.15	0.17	1.1	0.539	2.96	25.1	24.7	0.91	4190	14.45	0.03	6.7	2.7
W603516		6190	5.83	12.70	0.15	1.5	0.444	1.15	9.2	13.5	1.13	1730	22.3	1.65	3.4	29.1
W603517		793	4.31	13.70	0.18	1.0	0.591	2.93	22.7	68.2	0.82	3240	25.4	0.20	6.6	3.3
W603518		8.6	2.75	17.65	0.20	1.4	0.040	3.13	25.4	12.3	0.65	523	1.56	2.13	8.8	2.2
W603519		6.1	2.83	17.15	0.22	1.4	0.047	2.90	23.6	13.7	0.76	538	0.82	2.49	8.8	2.3
W603520		3.9	2.66	15.80	0.23	1.2	0.048	2.81	18.8	15.8	0.60	598	0.58	2.02	8.1	2.1
W603521		2.7	2.79	15.95	0.22	1.4	0.071	2.72	22.8	10.8	0.74	586	0.49	2.28	8.2	2.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245863

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603482		550	274	92.3	<0.002	0.40	20.4	8.5	<1	5.7	298	0.60	<0.05	9.17	0.237	1.95
W603483		540	156.0	106.5	<0.002	0.34	16.70	9.0	<1	3.5	259	0.60	<0.05	10.85	0.223	1.95
W603484		550	55.8	160.5	<0.002	0.27	21.1	9.7	<1	2.3	113.0	0.54	<0.05	13.10	0.226	1.67
W603485		590	23.4	155.0	<0.002	0.16	21.8	10.0	<1	1.7	107.5	0.51	<0.05	14.85	0.237	1.68
W603486		600	15.4	130.0	<0.002	0.74	18.30	10.6	1	1.9	112.5	0.62	<0.05	12.25	0.240	2.26
W603487		440	1620	142.5	0.002	7.62	99.8	7.8	1	9.9	59.2	0.37	0.66	8.08	0.163	2.00
W603488		540	266	147.5	<0.002	0.27	12.65	9.2	<1	1.7	182.0	0.61	<0.05	13.15	0.228	1.74
W603489		580	45.8	162.5	<0.002	0.09	13.30	11.2	<1	1.9	108.0	0.70	<0.05	17.05	0.256	1.63
W603490		610	4970	134.5	<0.002	0.34	33.3	10.5	<1	1.9	180.0	0.65	<0.05	14.25	0.250	1.52
W603491		590	25.1	109.0	<0.002	0.15	12.90	10.3	1	1.8	237	0.63	<0.05	11.05	0.254	1.40
W603492		600	42.1	108.0	<0.002	0.04	5.09	10.2	<1	1.6	356	0.67	<0.05	10.60	0.261	1.30
W603493		560	289	126.0	<0.002	0.26	8.77	9.4	<1	2.0	193.0	0.66	<0.05	11.00	0.244	2.03
W603494		570	13.7	146.5	<0.002	0.84	15.55	10.6	<1	2.1	150.0	0.70	<0.05	15.65	0.245	2.31
W603495		580	15.6	147.0	<0.002	0.86	15.60	10.5	1	2.2	149.0	0.71	<0.05	16.55	0.246	2.30
W603496		550	15.9	157.0	<0.002	0.47	10.25	9.8	<1	1.7	234	0.75	<0.05	14.85	0.231	2.90
W603497		580	38.6	111.5	<0.002	0.51	24.9	10.2	<1	2.3	199.0	0.69	<0.05	13.15	0.247	1.95
W603498		610	12.3	127.0	<0.002	0.14	13.00	10.9	<1	2.0	161.5	0.73	<0.05	14.05	0.258	1.97
W603499		580	13.9	125.0	<0.002	0.05	4.91	10.4	<1	1.7	265	0.70	<0.05	11.20	0.257	1.83
W603500		550	13.6	109.0	<0.002	0.06	5.18	9.3	<1	1.8	270	0.62	<0.05	9.21	0.244	1.43
W603501		60	<0.5	1.8	<0.002	<0.01	0.05	0.3	<1	<0.2	80.8	<0.05	<0.05	0.14	0.006	0.02
W603502		560	15.1	97.5	<0.002	0.09	8.01	8.8	1	1.7	204	0.75	<0.05	10.60	0.247	1.21
W603503		580	11.2	114.5	<0.002	0.40	19.35	10.1	1	1.7	156.0	0.71	<0.05	13.70	0.253	1.83
W603504		540	843	132.5	<0.002	1.29	39.3	9.3	1	2.2	207	0.63	<0.05	12.85	0.221	2.79
W603505		620	13.1	134.5	<0.002	0.75	16.50	11.9	1	2.1	159.5	0.79	<0.05	15.10	0.268	1.87
W603506		600	15.4	125.0	<0.002	0.19	5.79	10.7	1	2.2	195.0	0.73	<0.05	15.40	0.264	1.41
W603507		580	12.9	114.5	<0.002	0.37	6.03	9.8	<1	2.0	261	0.65	<0.05	12.00	0.244	1.22
W603508		590	14.8	117.0	<0.002	0.15	4.79	9.8	<1	1.8	303	0.69	<0.05	12.85	0.257	1.26
W603509		540	14.0	127.0	<0.002	0.05	5.78	9.4	<1	2.2	273	0.67	<0.05	11.15	0.237	1.58
W603510		580	12.9	134.5	0.002	0.10	4.70	10.2	<1	1.8	239	0.72	<0.05	13.80	0.254	1.48
W603511		490	33.0	162.0	<0.002	3.00	19.50	9.4	1	2.8	88.1	0.68	0.64	13.35	0.211	2.46
W603512		560	10.8	147.5	<0.002	0.24	9.65	10.0	<1	2.0	131.0	0.68	<0.05	11.85	0.239	2.05
W603513		560	14.2	121.0	<0.002	0.08	3.77	9.8	<1	1.8	294	0.75	<0.05	10.55	0.248	1.75
W603514		590	14.6	114.5	<0.002	0.12	3.98	9.9	<1	1.9	302	0.75	<0.05	13.05	0.247	1.54
W603515		450	393	186.0	0.003	3.20	310	8.7	1	2.1	83.6	0.58	<0.05	13.45	0.191	2.73
W603516		470	>10000	30.7	0.009	2.37	458	12.5	2	2.1	194.5	0.22	1.31	1.93	0.245	0.57
W603517		460	792	139.0	0.002	2.79	444	8.2	<1	1.7	138.5	0.51	0.07	10.60	0.200	2.11
W603518		590	18.2	127.0	<0.002	0.04	4.36	10.3	<1	1.7	341	0.69	<0.05	11.90	0.253	1.42
W603519		600	17.3	106.5	<0.002	0.04	2.17	10.2	<1	1.6	371	0.75	<0.05	12.10	0.260	1.29
W603520		550	15.0	99.2	<0.002	0.08	3.58	9.0	<1	1.5	291	0.70	<0.05	10.25	0.237	1.19
W603521		560	14.8	97.2	<0.002	0.03	2.13	9.8	1	1.6	352	0.67	<0.05	12.40	0.246	1.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245863

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603482		6.3	60	2.5	11.8	279	29.2	0.032
W603483		4.3	59	2.5	12.6	171	30.8	0.019
W603484		3.0	60	3.5	15.0	305	33.1	0.017
W603485		5.1	62	2.4	15.0	95	34.3	0.024
W603486		2.4	70	2.5	14.5	62	32.6	0.019
W603487		5.0	53	6.9	8.4	3280	22.7	1.755
W603488		3.9	60	1.9	14.2	375	35.4	0.016
W603489		3.4	67	2.9	16.3	68	38.4	0.008
W603490		6.6	67	2.7	16.9	140	36.8	0.031
W603491		3.8	67	1.6	15.3	60	32.8	<0.005
W603492		2.7	66	1.3	16.0	55	33.4	<0.005
W603493		4.9	63	2.2	14.7	276	33.7	<0.005
W603494		6.9	64	2.0	15.1	37	39.6	0.017
W603495		6.6	65	2.0	15.1	38	40.3	0.017
W603496		8.1	60	2.7	16.6	39	44.4	<0.005
W603497		8.0	64	5.0	16.0	94	36.4	0.048
W603498		4.5	68	3.2	16.0	55	35.7	<0.005
W603499		2.7	66	1.3	16.8	40	36.4	<0.005
W603500		2.5	63	1.2	15.0	46	30.8	<0.005
W603501		0.2	2	<0.1	2.4	6	1.9	<0.005
W603502		3.5	63	1.2	15.1	42	40.5	<0.005
W603503		3.8	66	2.0	15.9	46	37.4	0.007
W603504		5.6	57	2.3	15.9	224	34.3	0.183
W603505		3.2	72	2.0	19.1	60	40.0	<0.005
W603506		3.9	65	1.8	16.5	40	38.5	<0.005
W603507		2.3	62	1.5	16.0	38	31.7	<0.005
W603508		2.4	65	1.5	16.2	42	38.1	<0.005
W603509		2.5	62	1.7	13.8	43	33.9	<0.005
W603510		3.2	65	1.5	16.3	45	38.1	<0.005
W603511		7.0	56	2.6	17.7	83	36.2	0.604
W603512		4.3	63	1.9	15.5	45	35.6	<0.005
W603513		3.4	65	1.4	14.2	43	44.1	<0.005
W603514		4.1	65	0.9	16.3	40	40.5	<0.005
W603515		7.7	51	2.5	15.1	1050	32.4	1.470
W603516		1.3	80	0.6	14.7	5080	50.2	0.258
W603517		7.6	52	2.1	14.5	850	29.3	3.50
W603518		3.0	66	1.3	17.0	43	43.3	<0.005
W603519		2.9	68	1.2	17.1	45	38.1	<0.005
W603520		3.6	62	1.0	15.1	43	38.6	<0.005
W603521		3.5	63	0.8	16.7	43	41.7	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245863

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245865

Project: Klaza

P.O. No.: 19-048

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245865

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593561		3.42	0.22	7.12	31.3	1910	1.66	0.49	2.83	0.20	46.7	8.2	11	27.4	14.1	2.92
W593562		4.42	0.08	6.90	7.3	2140	1.61	0.18	2.72	0.16	40.9	7.4	11	9.92	14.7	2.93
W593563		4.74	0.08	7.36	7.7	2250	1.92	0.18	2.72	0.25	45.8	8.1	13	9.03	12.7	3.10
W593564		2.90	0.09	7.02	4.6	2210	1.88	0.10	2.83	0.16	41.4	7.5	13	7.53	14.3	3.16
W593565		1.14	3.03	7.52	104.0	370	1.90	7.08	1.66	3.20	50.4	8.8	22	21.6	49.1	5.13
W593566		2.98	3.05	7.47	93.2	1890	1.57	5.36	1.59	3.98	56.6	6.8	10	15.90	46.2	3.70
W593567		0.26	37.4	5.51	2450	980	1.17	35.0	1.58	43.4	35.4	16.3	21	9.44	1130	8.64
W593568		2.52	0.30	7.09	27.4	2180	1.49	0.33	2.30	0.47	45.7	6.5	12	15.65	19.7	2.85
W593569		4.87	0.37	7.23	11.0	2280	1.72	0.18	2.74	0.16	45.5	7.1	12	16.30	102.0	2.91
W593570		2.92	0.43	7.19	67.9	1710	1.70	0.55	2.33	0.98	48.9	6.6	11	19.60	15.1	3.18
W593571		3.35	2.15	7.41	131.5	810	1.53	3.57	1.17	9.53	58.7	7.0	10	10.15	43.9	5.34
W593572		1.17	4.55	6.43	165.5	580	1.20	9.52	1.70	5.63	22.8	17.4	10	4.07	42.9	7.97
W593573		5.14	0.03	0.12	0.4	30	0.08	0.06	33.7	0.05	1.24	0.6	1	0.08	2.7	0.12
W593574		1.63	2.28	7.06	42.7	220	1.41	4.58	0.63	1.20	58.6	13.8	9	6.18	8.0	5.20
W593575		4.25	3.25	6.96	131.0	1310	1.60	3.72	2.35	3.01	62.7	14.0	9	15.10	239	4.40
W593576		3.69	3.12	6.38	155.5	770	1.59	1.34	3.46	3.97	52.9	12.7	8	15.40	168.0	5.73
W593577		4.49	1.13	7.02	43.2	1800	1.63	1.00	2.29	3.33	47.6	6.9	11	17.35	70.1	3.67
W593578		1.36	5.81	7.18	444	380	1.62	5.80	0.98	20.5	49.2	9.3	10	15.90	223	6.53
W593579		3.45	0.15	7.31	10.3	2350	1.52	0.23	2.70	0.32	45.3	7.2	14	11.45	11.0	2.92
W593580		5.51	0.44	6.98	32.3	1730	1.57	0.54	3.37	0.69	44.5	6.6	11	17.80	53.0	2.87
W593581		<0.02	0.45	6.72	31.6	1700	1.52	0.51	3.28	0.66	44.2	6.8	10	17.25	54.7	2.77
W593582		1.83	2.18	6.71	114.0	1710	1.61	1.19	4.10	3.96	46.6	6.8	8	18.80	106.0	3.26
W593583		3.04	0.58	6.81	56.1	1630	1.50	0.24	3.17	1.01	45.4	6.5	11	19.30	17.9	2.50
W593584		2.10	0.58	3.39	53.4	2660	1.01	0.31	11.20	5.83	28.8	3.9	5	9.82	12.7	4.05
W593585		2.19	0.19	6.94	15.9	2710	1.32	0.15	2.93	0.21	40.3	6.4	11	20.6	13.8	2.47
W593586		2.29	0.08	7.26	4.8	2450	1.57	0.13	2.62	0.14	41.1	7.0	11	8.10	13.3	2.82
W593587		5.39	0.09	7.39	6.2	2270	1.72	0.17	2.74	0.16	49.2	7.0	13	7.25	10.7	2.90
W593588		0.26	31.5	7.38	158.0	130	0.63	11.70	6.22	36.4	30.0	100.5	116	1.74	7020	9.98
W593589		5.92	0.54	8.41	62.0	2070	1.37	0.84	0.79	5.94	52.9	6.2	10	16.15	54.1	3.03
W593590		4.21	0.60	7.97	53.0	1980	1.53	1.09	1.75	2.88	50.4	5.9	10	19.60	60.3	2.99
W593591		3.05	4.31	8.21	163.5	1630	1.88	15.40	0.42	5.42	56.3	6.6	10	20.2	211	3.83
W593592		4.46	0.28	7.26	18.8	2020	1.66	0.66	2.43	0.67	36.8	5.3	10	13.90	30.4	2.72
W593593		2.22	0.29	6.51	19.3	2750	1.75	0.47	3.18	0.87	42.0	4.5	8	16.15	29.0	2.90
W593594		2.14	0.31	7.10	20.1	1630	1.75	0.48	2.19	0.75	42.9	4.1	7	16.10	43.8	2.50
W593595		5.57	0.23	7.45	17.2	1470	1.73	0.47	2.01	0.27	38.2	4.4	9	21.1	22.5	2.56
W593596		3.32	0.35	7.38	45.6	2250	1.67	0.26	2.11	0.48	46.4	6.1	8	19.35	24.2	2.47
W593597		4.98	0.31	6.98	33.0	2290	1.64	0.30	2.66	3.20	37.6	6.5	10	18.75	24.6	2.70
W593598		2.43	0.11	7.55	6.7	2210	2.00	0.27	2.51	0.26	49.1	7.0	11	11.35	18.8	2.88
W593599		5.22	0.23	7.17	22.6	2020	1.42	0.19	2.27	0.37	34.7	6.1	11	13.20	39.6	2.52
W593600		4.48	0.46	7.08	46.4	2830	1.53	0.54	2.44	0.98	39.6	5.6	9	20.9	47.4	2.81

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245865

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593561		17.05	0.22	1.3	0.131	2.61	23.8	25.6	0.90	933	2.01	0.16	9.1	2.8	620	17.7
W593562		16.75	0.20	1.3	0.066	2.73	20.6	10.2	0.74	650	1.61	2.31	8.5	2.7	580	19.0
W593563		17.60	0.22	1.4	0.067	2.83	24.5	14.0	0.85	709	3.80	2.28	9.5	2.9	620	21.1
W593564		17.00	0.23	1.3	0.044	2.62	20.1	11.9	0.87	666	2.28	2.40	9.2	2.9	630	15.9
W593565		16.05	0.23	1.1	0.559	3.50	27.9	14.8	0.66	2090	1.95	0.17	8.1	4.9	590	85.0
W593566		15.80	0.16	1.0	0.250	3.15	31.4	25.4	0.66	1220	2.02	0.08	7.8	2.1	570	86.7
W593567		13.70	0.13	0.9	1.500	2.53	18.8	15.1	0.64	2190	16.65	0.06	4.7	14.8	420	1590
W593568		16.55	0.15	1.2	0.061	2.97	23.0	13.0	0.61	661	1.69	1.42	8.3	2.7	590	31.1
W593569		16.85	0.18	1.3	0.088	2.79	23.2	10.7	0.67	616	1.20	2.06	8.1	2.9	590	18.3
W593570		17.75	0.17	1.2	0.104	2.85	23.9	29.0	0.73	1170	2.53	0.56	9.2	2.7	620	47.3
W593571		17.25	0.17	1.0	1.030	3.72	32.2	5.9	0.77	3300	1.90	0.03	8.1	2.3	610	124.5
W593572		14.15	0.14	0.8	0.338	3.22	11.6	4.9	0.76	1210	4.12	0.04	5.6	2.9	470	184.0
W593573		0.43	0.15	0.1	0.005	0.04	1.2	1.1	1.89	119	0.11	0.05	0.2	0.6	80	1.6
W593574		15.50	0.15	1.0	0.446	3.55	29.7	6.1	0.49	889	0.67	0.04	7.3	3.3	520	87.1
W593575		14.75	0.16	1.0	0.749	3.45	34.5	8.1	1.11	1930	1.45	0.03	7.7	2.6	550	206
W593576		14.70	0.14	1.0	0.770	3.03	28.4	8.6	1.56	2430	5.16	0.03	7.2	2.9	530	168.5
W593577		16.25	0.14	1.1	0.231	3.39	23.8	12.6	0.86	1500	3.61	0.53	8.2	2.7	590	115.0
W593578		16.70	0.14	1.1	0.864	3.59	26.3	8.9	0.68	3960	3.47	0.05	8.2	2.6	550	536
W593579		17.45	0.15	1.2	0.061	2.89	22.2	10.3	0.81	684	1.69	2.20	8.5	2.7	630	26.3
W593580		16.55	0.16	1.1	0.088	2.90	21.9	13.5	1.01	1580	1.97	0.59	8.2	2.5	600	48.1
W593581		16.30	0.17	1.1	0.082	2.85	21.9	13.6	0.97	1530	2.06	0.58	8.1	2.4	580	44.5
W593582		14.90	0.16	0.9	0.115	2.91	25.8	13.9	1.42	3680	3.01	0.03	6.5	2.6	530	128.5
W593583		15.55	0.16	1.1	0.048	2.97	23.4	10.9	1.05	1940	2.54	0.05	7.6	2.5	570	51.4
W593584		7.80	0.10	0.5	0.049	1.44	16.2	14.4	4.01	6720	1.02	0.03	3.7	1.7	270	192.0
W593585		16.80	0.15	1.2	0.050	2.84	19.8	21.9	0.78	1080	2.54	0.22	9.0	2.5	620	15.1
W593586		17.05	0.16	1.1	0.039	2.97	20.5	11.9	0.80	593	5.63	2.31	8.4	2.6	590	17.1
W593587		17.15	0.18	1.3	0.054	2.71	25.0	12.5	0.82	590	3.04	2.29	8.9	2.7	610	17.4
W593588		13.05	0.16	0.9	2.71	1.07	16.4	8.7	2.31	924	59.7	0.87	3.0	398	730	9160
W593589		16.60	0.10	1.2	0.094	3.14	26.0	35.5	0.22	857	1.28	0.18	8.6	2.5	650	48.9
W593590		16.40	0.11	1.2	0.105	3.24	26.3	21.5	0.49	866	1.12	0.46	8.1	2.6	670	27.3
W593591		19.65	0.14	1.2	0.301	3.31	29.8	11.2	0.29	1480	8.20	0.54	8.9	2.9	570	98.7
W593592		17.05	0.14	1.4	0.074	2.76	17.6	30.9	0.49	891	2.79	1.28	9.7	2.5	650	20.8
W593593		16.60	0.17	1.3	0.093	2.25	20.6	17.0	0.65	1120	27.2	1.40	8.4	2.6	510	25.5
W593594		16.90	0.18	1.4	0.096	2.21	21.0	15.8	0.50	953	21.0	1.72	8.8	2.2	540	24.9
W593595		17.05	0.15	1.1	0.073	2.19	18.6	31.6	0.57	815	6.51	1.31	8.8	2.3	620	14.2
W593596		17.00	0.15	1.3	0.066	2.72	23.8	24.7	0.70	726	1.36	0.06	8.5	2.7	610	24.2
W593597		17.50	0.14	1.3	0.059	2.76	18.3	37.0	0.49	721	1.43	0.33	9.5	3.0	630	77.1
W593598		17.65	0.16	1.5	0.038	2.91	23.6	12.2	0.68	509	1.96	2.19	9.4	3.1	590	24.0
W593599		17.70	0.13	1.3	0.056	2.77	16.6	38.3	0.37	605	1.67	0.25	9.7	2.5	630	24.6
W593600		16.20	0.14	1.1	0.083	2.40	19.7	28.4	0.74	1010	1.31	0.05	8.5	2.2	610	47.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245865

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593561		103.0	<0.002	0.27	9.93	11.2	<1	2.2	125.0	0.74	0.05	15.05	0.265	1.67	3.9	70
W593562		94.8	<0.002	0.05	1.69	10.3	1	1.9	376	0.67	<0.05	12.70	0.260	1.16	3.7	70
W593563		108.5	<0.002	0.04	1.60	11.2	<1	2.1	369	0.85	<0.05	14.45	0.272	1.11	4.4	74
W593564		87.8	<0.002	0.03	1.04	11.0	1	2.0	388	0.82	<0.05	11.85	0.281	1.09	4.0	79
W593565		204	<0.002	2.74	14.10	10.5	<1	3.8	76.1	0.70	0.36	16.95	0.244	2.99	7.1	65
W593566		155.5	<0.002	1.15	14.75	10.3	1	3.0	119.5	0.63	0.08	16.60	0.247	2.14	4.6	66
W593567		148.5	0.002	7.47	102.5	7.7	1	10.0	59.2	0.40	0.82	8.88	0.158	2.09	5.3	52
W593568		115.5	<0.002	0.06	5.21	10.1	<1	2.3	271	0.66	<0.05	14.55	0.248	1.43	3.5	69
W593569		103.5	<0.002	0.07	2.38	9.7	<1	1.6	366	0.68	<0.05	15.75	0.252	1.11	3.7	69
W593570		115.0	<0.002	0.43	9.83	11.5	<1	2.1	196.5	0.73	<0.05	13.20	0.271	1.61	4.1	76
W593571		268	<0.002	2.39	12.80	11.2	<1	3.8	22.3	0.59	0.17	18.65	0.250	3.58	6.2	70
W593572		201	<0.002	8.05	6.01	8.6	2	10.5	30.8	0.48	1.79	13.85	0.184	2.32	3.8	55
W593573		2.2	<0.002	0.02	0.16	0.2	1	0.2	78.3	<0.05	<0.05	0.18	0.006	0.03	0.2	1
W593574		201	<0.002	4.09	4.14	9.1	2	5.5	16.2	0.65	0.91	14.50	0.216	2.83	3.4	60
W593575		242	<0.002	1.17	38.9	10.0	<1	3.8	66.7	0.65	0.44	14.10	0.230	3.38	5.0	65
W593576		208	0.003	1.85	53.7	10.5	1	4.5	82.5	0.61	0.22	12.25	0.222	2.86	7.3	69
W593577		156.5	<0.002	0.43	15.25	10.2	<1	2.7	147.5	0.70	0.07	13.70	0.246	2.52	4.9	68
W593578		257	<0.002	3.84	14.75	10.2	1	6.4	38.5	0.69	0.63	14.20	0.230	3.30	4.9	65
W593579		103.5	<0.002	0.08	1.79	10.9	1	1.8	381	0.63	<0.05	13.85	0.264	1.27	3.5	73
W593580		108.5	<0.002	0.37	13.70	10.8	<1	2.0	174.0	0.66	<0.05	13.10	0.253	1.66	4.2	70
W593581		104.5	<0.002	0.36	13.90	10.5	1	1.8	169.5	0.63	0.05	12.50	0.243	1.63	3.9	68
W593582		158.0	<0.002	1.33	48.0	8.9	1	1.9	93.2	0.44	0.12	14.15	0.220	2.68	6.1	61
W593583		110.0	<0.002	0.60	10.45	9.4	<1	1.7	81.4	0.56	<0.05	12.50	0.242	2.35	6.4	67
W593584		85.1	<0.002	0.70	13.45	5.0	1	1.6	242	0.30	0.08	6.20	0.113	1.38	3.6	40
W593585		85.5	<0.002	0.17	8.35	10.4	<1	1.8	120.0	0.72	<0.05	11.10	0.260	1.39	4.5	72
W593586		105.5	0.003	0.02	1.41	10.0	<1	2.1	389	0.60	<0.05	11.45	0.254	1.09	3.6	69
W593587		104.5	<0.002	0.05	1.29	11.2	<1	1.8	386	0.70	<0.05	13.85	0.261	1.04	4.4	71
W593588		35.7	0.018	6.62	35.2	13.3	14	7.3	158.0	0.23	0.66	3.49	0.210	2.41	6.6	409
W593589		126.5	<0.002	0.05	12.60	11.7	<1	2.7	66.0	0.77	<0.05	14.35	0.288	1.55	2.9	78
W593590		137.0	<0.002	0.41	12.10	11.1	1	2.6	123.5	0.67	0.07	15.75	0.272	1.72	2.7	76
W593591		186.5	<0.002	0.23	20.7	12.3	1	6.5	68.2	0.71	0.60	15.70	0.261	2.23	3.5	77
W593592		91.1	<0.002	0.07	8.09	10.7	<1	2.8	235	0.87	0.22	11.85	0.265	1.09	2.2	72
W593593		82.3	0.037	0.11	7.31	8.9	1	3.8	201	0.85	0.08	14.80	0.221	1.12	3.1	64
W593594		94.1	0.032	0.07	7.71	9.9	<1	4.0	182.5	0.92	0.06	16.85	0.233	1.19	3.0	66
W593595		85.6	0.014	0.07	9.39	10.4	<1	2.8	169.5	0.74	0.05	11.50	0.268	1.13	2.5	74
W593596		91.2	0.008	0.32	10.25	10.4	1	1.8	84.7	0.79	<0.05	13.75	0.254	1.67	3.1	71
W593597		88.7	<0.002	0.28	7.03	10.1	<1	2.0	151.0	0.76	0.06	12.30	0.265	1.34	3.6	71
W593598		108.5	<0.002	0.02	2.47	10.1	<1	1.9	358	0.92	0.05	15.00	0.252	1.05	3.6	68
W593599		89.6	<0.002	0.05	12.00	10.1	<1	2.3	130.0	0.76	<0.05	11.95	0.279	1.17	2.7	75
W593600		70.2	<0.002	0.26	16.50	10.6	<1	2.4	88.2	0.66	0.05	13.45	0.251	1.50	3.1	68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245865

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593561		3.2	16.9	69	35.2	<0.005
W593562		1.0	16.9	48	34.5	<0.005
W593563		1.1	18.7	56	38.5	<0.005
W593564		2.7	17.9	46	33.1	<0.005
W593565		4.7	13.6	293	30.7	0.058
W593566		5.0	13.5	307	29.8	0.035
W593567		6.8	9.4	3220	23.4	1.755
W593568		2.6	15.5	59	32.4	<0.005
W593569		4.0	15.7	48	33.3	<0.005
W593570		3.3	16.8	115	32.7	0.025
W593571		4.2	8.4	812	26.5	0.042
W593572		6.7	6.7	471	22.2	0.242
W593573		0.1	2.2	6	2.0	<0.005
W593574		4.7	6.5	125	25.9	0.029
W593575		2.4	11.7	300	25.9	0.099
W593576		3.1	10.8	387	24.2	0.568
W593577		2.7	13.7	323	27.9	0.017
W593578		4.8	10.0	1480	28.1	0.180
W593579		2.3	16.2	58	30.6	<0.005
W593580		3.7	15.6	117	29.0	0.097
W593581		3.6	15.1	114	28.1	0.010
W593582		4.0	15.2	394	25.5	0.088
W593583		6.1	13.4	118	26.6	0.037
W593584		4.3	12.3	550	13.4	0.418
W593585		2.5	15.9	49	32.1	<0.005
W593586		8.4	15.3	44	30.2	<0.005
W593587		7.3	18.0	44	33.5	<0.005
W593588		6.8	14.1	8250	29.1	1.480
W593589		1.8	15.2	460	29.6	0.012
W593590		1.7	17.2	263	31.4	0.018
W593591		2.9	17.8	639	30.8	0.050
W593592		2.1	15.7	153	31.9	0.009
W593593		1.5	18.8	135	32.3	0.005
W593594		1.6	16.4	124	33.6	0.006
W593595		1.9	14.5	86	27.0	0.006
W593596		2.1	15.0	94	30.1	0.005
W593597		2.4	15.1	388	33.9	0.024
W593598		1.0	17.0	48	33.8	<0.005
W593599		4.3	14.3	70	33.7	<0.005
W593600		3.2	14.9	129	27.4	0.008

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245865

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245869

Project: Klaza

P.O. No.: 19-050

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245869

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W593601		3.99		1.52	6.58	63.9	2430	1.60	2.09	3.57	1.35	49.8	10.7	8	22.0	69.7
W593602		3.25		0.13	7.54	8.5	2110	1.52	0.13	2.82	0.14	49.3	5.8	10	15.75	5.3
W593603		3.00		0.10	7.19	8.6	2170	1.71	0.20	2.64	0.13	46.8	6.3	12	10.00	6.7
W593604		3.43		0.28	6.59	16.8	2400	1.64	1.02	3.05	0.26	34.5	6.0	11	13.30	16.7
W593605		4.76		0.16	7.23	7.6	2270	1.59	0.31	2.67	0.24	44.2	6.4	11	6.10	5.5
W593606		4.94		0.32	7.43	13.2	2220	1.71	0.49	2.65	0.39	48.2	6.3	10	8.94	27.5
W593607		0.26	101	>100	5.29	245	470	0.63	4.64	1.40	22.9	18.20	11.4	62	0.85	5950
W593608		4.83		0.19	7.24	11.0	2220	1.57	0.17	2.60	0.23	44.1	6.4	13	7.81	15.0
W593609		5.14		0.12	7.45	9.9	2230	1.59	0.18	2.35	0.17	45.0	6.7	12	10.00	14.8
W593610		4.03		0.26	7.92	20.0	1950	1.56	0.60	1.14	0.37	51.5	5.4	9	20.4	19.4
W593611		2.17		0.73	7.51	80.3	1480	1.57	1.56	1.77	2.13	53.1	7.9	8	22.2	102.5
W593612		3.44		1.62	7.67	89.9	1640	1.66	2.80	1.32	2.57	64.9	7.0	9	11.60	167.5
W593613		<0.02		1.59	7.49	85.8	1570	1.69	3.26	1.28	2.34	60.5	6.5	12	10.80	165.0
W593614		1.69		6.80	6.79	3880	390	1.41	10.10	1.06	2.68	46.4	16.0	9	8.39	69.9
W593615		4.03		0.95	7.29	63.7	2140	1.61	1.44	2.26	5.85	45.9	8.3	11	11.10	70.3
W593616		4.32		0.28	7.40	29.1	2210	1.63	0.32	2.60	2.37	46.0	7.0	14	7.41	16.2
W593617		1.13		0.24	6.95	31.6	2070	1.76	0.46	3.03	0.21	40.9	7.5	12	11.10	13.5
W593618		3.42		0.13	7.41	9.9	2250	1.63	0.17	2.79	0.32	49.0	7.2	12	6.81	10.5
W593619		3.19		0.23	7.42	18.4	2180	1.92	0.66	2.84	0.23	46.7	7.5	12	7.47	13.2
W593620		3.77		0.27	6.96	61.7	1760	1.73	0.36	2.54	1.63	44.0	5.8	11	12.55	22.2
W593621		2.58		3.61	7.12	811	180	1.48	2.49	1.66	1.41	47.0	7.2	15	15.10	98.4
W593622		5.02		0.01	0.10	0.3	20	0.06	0.01	33.1	0.02	1.00	0.7	1	0.06	2.7
W593623		4.75		0.13	7.33	30.6	2930	1.63	0.31	2.70	0.93	43.7	6.5	12	8.16	8.5
W593624		4.70		0.16	7.38	10.3	2310	1.58	0.18	2.71	0.62	47.9	6.4	13	6.04	9.4
W593625		1.03		0.30	7.47	18.3	2070	1.45	0.38	2.32	1.29	52.0	5.4	10	8.96	28.3
W593626		2.14		1.89	6.48	604	1270	1.30	1.32	2.04	15.40	44.6	6.5	8	15.50	86.4
W593627		7.42		0.81	7.26	47.7	2060	1.54	1.23	2.25	1.40	48.9	5.3	10	9.01	57.1
W593628		0.26		31.7	6.92	141.5	140	0.62	9.37	5.85	34.8	29.0	95.9	109	1.49	6670
W593629		2.34		0.34	7.06	31.7	1480	2.21	0.75	2.06	1.68	55.0	4.5	12	15.10	15.3
W593630		1.84		2.29	6.48	88.8	220	1.47	2.81	1.93	1.83	43.7	5.4	7	18.00	44.5
W593631		3.23		0.15	6.85	26.3	1850	1.49	0.74	2.18	1.06	46.0	5.5	12	11.60	20.1
W593632		5.15		0.17	7.51	16.4	2280	1.63	0.55	2.56	0.47	46.2	7.0	11	8.99	21.3
W593633		5.08		0.15	7.40	12.2	2230	1.70	0.24	2.64	0.21	45.9	7.0	13	9.61	14.8
W593634		2.50		0.20	7.49	23.3	2250	1.67	0.38	2.69	0.58	53.5	7.3	11	8.85	25.4
W593635		1.93		0.18	7.26	22.0	2180	1.63	0.34	2.63	0.51	49.3	7.8	10	8.70	17.4
W593636		2.85		0.24	7.52	165.5	1900	1.57	0.30	2.10	2.55	48.2	7.8	9	14.20	10.7
W593637		2.44		10.90	5.90	2560	770	1.12	4.79	0.77	44.2	33.5	10.0	8	5.47	69.5
W593638		3.92		3.03	7.74	168.0	1170	1.75	3.77	1.46	9.57	55.5	6.2	8	20.6	33.4
W593639		1.25		15.15	2.59	4260	370	0.47	35.4	0.70	8.75	13.80	8.2	7	2.59	27.4
W593640		3.00		5.12	6.24	3500	330	1.37	5.37	2.01	31.5	38.4	5.3	7	9.55	69.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W593601		3.47	14.65	0.08	1.0	0.136	2.32	25.5	15.2	1.08	1800	8.83	0.22	7.3	2.9	500
W593602		2.66	15.95	0.10	1.2	0.048	2.68	23.7	16.2	0.60	662	0.91	1.74	8.4	2.4	610
W593603		2.73	15.75	0.07	1.2	0.058	2.68	22.5	7.3	0.68	698	1.00	2.21	8.3	2.5	590
W593604		2.67	14.85	0.08	1.2	0.074	2.54	16.1	9.1	0.54	771	0.75	1.95	8.1	2.5	580
W593605		2.84	15.60	0.08	1.0	0.052	2.60	20.8	8.2	0.82	704	1.00	2.32	8.2	2.5	600
W593606		2.77	15.90	0.09	1.0	0.058	2.61	23.6	9.0	0.73	800	2.00	2.03	8.3	2.5	620
W593607		5.52	11.40	0.06	1.4	0.415	1.08	8.1	12.3	1.08	1680	19.80	1.56	3.2	25.9	450
W593608		2.76	15.00	0.08	1.1	0.059	2.70	20.6	8.9	0.77	695	1.49	2.13	8.1	2.5	600
W593609		2.94	16.10	0.08	1.2	0.054	2.76	21.3	13.3	0.63	693	1.21	1.75	8.8	2.7	630
W593610		2.84	16.45	0.09	1.2	0.061	2.69	27.0	28.6	0.45	693	1.14	0.66	8.8	2.1	630
W593611		3.20	16.05	0.10	1.0	0.162	2.88	27.6	15.8	0.71	1100	1.19	0.05	7.9	2.8	580
W593612		3.26	17.00	0.10	1.0	0.357	3.47	34.5	13.2	0.69	1550	2.34	0.05	7.6	2.1	590
W593613		3.19	16.60	0.12	1.0	0.329	3.41	31.9	12.8	0.67	1500	1.95	0.05	7.4	2.4	570
W593614		5.46	16.85	0.10	1.0	0.337	3.31	23.3	6.5	0.51	1800	1.38	0.03	7.1	3.6	520
W593615		3.28	16.65	0.08	1.2	0.301	3.05	21.6	10.6	0.73	1220	1.19	1.19	8.6	2.6	640
W593616		3.02	16.55	0.09	1.2	0.090	2.88	21.4	11.0	0.85	758	1.33	2.08	8.7	2.8	600
W593617		3.05	17.15	0.09	1.2	0.065	2.56	19.0	9.3	0.82	775	1.54	1.85	9.1	3.4	660
W593618		2.93	16.70	0.10	1.2	0.063	2.57	22.6	10.9	0.92	686	1.51	2.21	8.6	2.8	630
W593619		3.06	16.85	0.10	1.2	0.089	2.66	22.2	9.7	0.86	753	1.52	2.14	9.0	2.8	630
W593620		2.50	15.70	0.09	1.2	0.070	2.97	20.7	10.6	0.67	912	1.65	1.64	8.3	2.4	560
W593621		5.26	15.95	0.09	1.0	0.094	3.22	23.1	7.8	0.53	985	1.40	0.42	7.8	2.7	540
W593622		0.10	0.26	<0.05	0.1	<0.005	0.03	1.1	1.0	1.92	110	0.07	0.05	0.2	1.1	80
W593623		2.91	15.10	0.06	1.1	0.066	2.76	21.1	6.5	0.76	695	1.68	2.07	7.9	2.8	600
W593624		2.83	15.20	0.06	1.2	0.057	2.78	24.2	8.2	0.81	685	1.19	2.25	7.8	2.6	600
W593625		2.72	14.95	0.08	1.3	0.065	3.09	27.8	10.0	0.70	688	0.89	2.06	7.8	2.5	590
W593626		2.89	12.50	0.08	1.2	0.249	3.26	24.9	6.6	0.68	1290	2.81	0.53	6.3	3.0	380
W593627		2.94	15.25	0.09	1.2	0.192	3.11	25.7	8.9	0.66	843	1.42	1.56	7.4	2.5	540
W593628		9.63	11.05	0.09	0.8	2.58	1.02	15.7	7.7	2.14	858	57.8	0.84	2.7	375	680
W593629		2.43	14.25	0.09	2.1	0.065	3.14	29.1	8.4	0.61	771	1.77	1.74	9.7	2.1	410
W593630		4.06	13.30	0.08	1.4	0.092	3.38	21.6	7.8	0.63	1020	1.35	0.48	6.9	2.5	470
W593631		2.65	14.20	0.09	1.3	0.059	3.09	23.7	8.4	0.62	724	1.77	1.65	7.2	2.4	480
W593632		2.98	15.65	0.09	1.2	0.073	3.02	23.7	9.2	0.81	773	2.80	2.08	8.0	2.9	590
W593633		2.88	16.05	0.10	1.3	0.057	2.87	23.1	9.7	0.79	711	1.27	2.25	8.1	2.9	590
W593634		3.02	15.55	0.10	1.3	0.054	2.69	27.6	8.6	0.84	747	1.52	2.31	8.0	2.8	660
W593635		2.93	15.55	0.10	1.2	0.063	2.66	24.7	8.5	0.79	699	1.23	2.25	8.0	2.9	630
W593636		3.04	15.60	0.11	1.3	0.076	2.89	25.1	13.2	0.62	1190	1.24	1.09	8.0	2.8	590
W593637		9.14	11.35	0.10	1.0	0.878	2.79	16.9	5.1	0.43	378	1.31	0.04	5.2	2.4	400
W593638		3.19	16.15	0.09	1.3	0.236	3.47	30.7	8.7	0.65	1500	2.26	0.04	7.8	2.7	560
W593639		25.6	4.88	0.13	0.4	0.176	1.14	6.1	3.2	0.29	560	2.09	0.13	1.9	1.5	150
W593640		7.99	12.35	0.07	1.0	0.478	2.87	20.5	6.0	0.89	1860	2.49	0.05	5.7	2.5	440

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W593601		56.1	107.0	0.004	0.50	12.45	9.1	<1	3.1	97.0	0.56	0.25	11.90	0.210	1.50	3.6
W593602		20.7	102.0	<0.002	0.05	2.69	9.8	<1	1.5	337	0.76	<0.05	13.65	0.255	1.08	3.7
W593603		19.9	95.0	<0.002	0.06	1.99	9.6	<1	1.4	367	0.73	<0.05	14.10	0.243	0.90	3.4
W593604		27.4	78.8	<0.002	0.56	3.14	8.8	<1	2.4	322	0.72	0.16	10.75	0.232	0.94	3.4
W593605		27.4	83.2	<0.002	0.06	1.30	9.6	<1	1.4	388	0.71	<0.05	12.20	0.256	0.85	3.0
W593606		30.9	93.1	<0.002	0.08	6.82	10.3	<1	1.5	351	0.65	0.05	10.65	0.260	1.01	3.5
W593607		9910	26.4	0.010	2.24	435	10.8	2	1.8	184.0	0.21	1.16	1.75	0.230	0.45	1.2
W593608		27.2	85.8	<0.002	0.07	2.97	9.7	<1	1.7	345	0.69	<0.05	12.60	0.251	0.93	3.4
W593609		19.4	95.5	<0.002	0.06	5.52	9.9	<1	1.7	286	0.79	<0.05	11.75	0.266	1.00	3.7
W593610		15.6	115.5	<0.002	0.17	13.85	11.2	<1	1.8	106.0	0.75	0.21	14.40	0.266	1.20	3.7
W593611		39.2	136.0	<0.002	0.66	25.2	10.3	<1	2.0	46.1	0.64	0.21	14.35	0.238	1.75	4.6
W593612		40.5	212	<0.002	1.07	31.5	10.5	1	2.2	42.5	0.59	0.32	17.70	0.231	2.75	4.3
W593613		39.6	207	<0.002	1.04	30.0	10.3	<1	2.0	41.3	0.57	0.36	17.35	0.226	2.57	4.2
W593614		173.0	217	<0.002	5.14	24.2	9.3	2	5.3	10.3	0.52	0.80	14.25	0.217	2.77	3.0
W593615		46.9	131.0	<0.002	0.74	7.92	10.8	<1	2.4	229	0.71	0.20	11.80	0.261	1.71	3.9
W593616		33.4	105.5	<0.002	0.20	1.89	10.7	<1	2.1	350	0.70	0.06	12.50	0.259	1.19	3.7
W593617		19.7	91.8	<0.002	0.56	3.30	11.4	1	1.9	343	0.74	0.10	8.88	0.271	1.21	3.6
W593618		19.4	94.8	<0.002	0.10	1.36	11.3	<1	1.8	379	0.70	<0.05	11.50	0.268	1.01	4.0
W593619		23.1	98.2	<0.002	0.33	2.26	10.9	<1	2.0	352	0.80	0.20	12.25	0.265	1.10	4.3
W593620		37.6	109.5	<0.002	0.24	8.42	9.2	<1	2.2	253	0.77	0.05	14.65	0.232	1.41	3.8
W593621		536	169.5	<0.002	4.64	107.5	10.2	1	3.1	98.3	0.61	0.53	10.80	0.226	2.00	5.1
W593622		1.5	0.8	<0.002	0.01	0.08	0.2	1	<0.2	80.5	<0.05	<0.05	0.12	0.005	<0.02	0.2
W593623		21.3	105.0	<0.002	0.26	3.34	10.2	1	1.8	378	0.63	<0.05	9.94	0.255	1.16	3.4
W593624		23.7	101.5	<0.002	0.05	11.95	10.0	1	1.7	375	0.60	<0.05	13.80	0.255	1.15	4.6
W593625		26.1	120.0	<0.002	0.09	3.48	9.9	1	1.7	321	0.62	<0.05	19.30	0.244	1.21	3.9
W593626		240	171.5	0.002	1.15	12.95	6.6	1	2.6	103.5	0.71	0.20	19.15	0.161	2.09	4.4
W593627		56.4	140.0	<0.002	0.59	5.05	9.8	1	2.2	266	0.61	0.25	18.00	0.230	1.57	4.1
W593628		8510	25.6	0.013	6.25	28.7	12.2	15	6.7	155.0	0.19	0.58	2.96	0.202	2.26	5.8
W593629		32.9	191.0	<0.002	0.37	3.63	8.0	1	1.8	217	1.28	0.11	24.3	0.183	1.60	8.2
W593630		129.0	162.5	<0.002	3.22	8.13	7.8	2	1.9	130.5	0.66	0.37	17.55	0.184	2.12	5.6
W593631		15.8	126.0	<0.002	0.71	5.00	8.5	1	1.4	234	0.66	0.13	15.45	0.205	1.35	4.6
W593632		17.9	122.0	<0.002	0.24	1.80	10.5	1	1.7	331	0.67	0.20	12.90	0.249	1.36	4.9
W593633		18.5	104.5	<0.002	0.13	1.24	10.6	<1	1.6	363	0.61	<0.05	11.80	0.254	1.19	4.1
W593634		17.7	100.5	<0.002	0.20	1.37	11.0	1	1.7	372	0.61	0.06	12.40	0.270	1.07	3.3
W593635		16.9	98.8	0.002	0.22	1.21	10.6	1	1.9	365	0.60	<0.05	11.50	0.261	1.09	3.1
W593636		42.6	123.0	<0.002	0.22	4.26	10.3	1	1.8	198.0	0.67	<0.05	11.30	0.253	1.54	4.1
W593637		3860	160.0	<0.002	9.34	15.15	7.6	1	9.9	32.4	0.45	0.39	9.65	0.174	1.81	4.5
W593638		358	197.5	0.002	1.47	10.40	10.6	1	3.6	48.6	0.63	0.19	15.25	0.240	2.74	4.3
W593639		303	60.7	<0.002	>10.0	46.0	2.6	7	2.5	29.3	0.14	1.79	3.86	0.064	0.71	2.1
W593640		504	169.5	<0.002	6.88	29.4	8.4	1	6.9	46.2	0.46	0.23	10.20	0.193	2.22	8.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W593601		59	2.6	22.0	165	25.7	0.019
W593602		71	0.9	16.4	54	29.8	<0.005
W593603		68	0.7	16.7	51	28.6	<0.005
W593604		64	1.0	14.7	67	29.7	0.012
W593605		71	0.8	16.0	62	26.5	<0.005
W593606		71	1.1	16.6	83	24.9	0.010
W593607		77	0.5	13.2	4940	50.4	0.279
W593608		71	1.2	15.7	69	27.4	<0.005
W593609		74	1.7	16.7	68	29.0	0.005
W593610		75	3.0	15.5	97	30.0	0.007
W593611		68	1.7	14.8	316	26.4	0.013
W593612		69	2.3	13.9	360	26.8	0.025
W593613		68	2.3	13.3	332	25.6	0.023
W593614		61	3.5	9.2	139	26.9	0.314
W593615		73	2.3	15.6	694	30.2	0.015
W593616		71	1.6	16.7	290	32.7	0.008
W593617		75	1.9	16.8	81	30.5	<0.005
W593618		73	1.9	18.0	76	30.0	<0.005
W593619		74	1.9	17.7	70	30.6	0.009
W593620		64	1.3	14.9	255	32.2	0.010
W593621		63	2.7	12.7	160	27.2	0.104
W593622		1	<0.1	1.9	5	1.6	<0.005
W593623		70	1.5	17.6	138	28.9	0.006
W593624		70	1.4	18.0	100	29.4	<0.005
W593625		68	1.0	17.4	131	33.2	0.005
W593626		45	1.5	12.8	932	31.1	0.053
W593627		65	1.4	15.6	182	30.0	0.028
W593628		384	5.9	13.2	7880	27.1	1.315
W593629		51	4.6	18.6	204	45.2	0.006
W593630		49	3.0	12.0	193	35.9	0.016
W593631		57	8.9	14.4	125	33.8	0.008
W593632		68	4.0	18.0	87	32.4	0.007
W593633		70	2.2	17.1	60	35.0	0.006
W593634		76	1.2	18.0	91	33.7	0.005
W593635		72	1.1	17.6	80	33.0	0.005
W593636		70	2.1	17.4	420	32.2	0.009
W593637		51	3.8	7.7	2320	25.4	1.215
W593638		66	3.4	13.2	852	35.4	0.048
W593639		22	2.4	4.1	243	10.7	1.275
W593640		55	4.4	8.8	2070	27.5	0.886

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245869

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245872

Project: Klaza

P.O. No.: 19-051

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245872

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W603522		6.32				2.89	7.56	185.5	930	1.72	2.46	1.42	6.69	54.7	5.3	10
W603523		5.83	136	2.72	1.210	>100	5.82	2590	340	1.23	13.90	1.55	133.5	39.1	3.9	11
W603524		4.12				1.78	6.26	83.9	1250	1.62	0.27	2.49	5.77	38.0	6.4	9
W603525		1.31				25.6	6.62	168.5	420	1.56	54.2	1.92	3.00	43.4	7.7	12
W603526		6.55				0.12	6.82	6.8	2240	1.64	0.13	2.49	0.17	38.4	6.0	12
W603527		5.32				0.14	6.83	9.7	2130	1.53	0.16	2.35	0.15	41.6	5.8	11
W603528		5.96				0.42	7.25	14.2	2160	1.54	0.08	2.60	1.71	47.5	6.6	11
W603529		4.00				0.07	7.30	6.3	2230	1.58	0.08	2.36	0.17	48.6	5.9	12
W603530		2.57				0.56	6.62	227	2280	1.75	0.08	2.77	0.46	37.8	6.2	9
W603531		<0.02				0.64	6.59	218	2280	1.68	0.09	2.78	0.48	41.3	6.0	10
W603532		3.06				6.69	5.90	7010	290	1.27	1.08	1.90	9.73	44.2	6.5	8
W603533		5.22				0.09	6.81	35.6	2150	1.57	0.08	2.76	0.15	44.3	5.8	10
W603534		2.20				0.83	6.28	68.3	1580	2.00	0.08	3.87	3.44	50.1	6.4	6
W603535		0.26	103	1.045		>100	5.33	243	530	0.73	5.01	1.40	25.1	19.00	11.6	62
W603536		4.76				0.17	6.66	9.5	2300	1.55	0.08	3.47	0.22	40.1	5.1	9
W603537		6.62				0.09	7.41	9.2	1960	1.26	0.09	1.47	0.14	46.4	5.0	10
W603538		5.59				0.06	7.19	5.2	2260	1.67	0.06	2.47	0.11	51.3	6.6	10
W603539		5.07				0.07	7.43	8.0	2320	1.66	0.09	2.07	0.11	54.0	7.9	11
W603540		5.55				0.78	6.65	71.7	2040	1.53	0.11	2.88	1.58	49.5	7.5	10
W603541		3.01				0.63	5.88	311	1690	1.36	0.04	5.09	1.65	41.2	5.1	8
W603542		5.55				0.05	7.45	7.0	2340	1.76	0.07	2.20	0.10	53.5	6.4	11
W603543		4.96				0.07	7.28	7.1	2220	1.69	0.08	2.26	0.24	56.2	6.5	11
W603544		3.98				0.05	7.14	7.4	2300	1.57	0.09	2.46	0.11	42.7	6.4	13
W603545		4.81				0.01	0.17	0.5	20	0.13	0.01	32.8	0.02	1.10	1.6	1
W603546		2.06				0.20	6.42	48.8	2060	1.38	0.10	3.32	0.19	45.8	5.8	8
W603547		3.95				0.45	7.07	47.5	2020	1.65	0.39	2.46	0.71	47.8	5.9	10
W603548		3.57				1.69	6.77	107.5	520	1.50	1.48	2.02	1.91	52.6	6.0	9
W603549		4.38				0.07	7.41	6.4	2360	1.68	0.10	2.38	0.16	48.4	6.1	11
W603550		7.02				0.13	6.48	15.3	2460	1.53	0.06	3.20	0.40	39.7	6.5	10
W603551		5.21				0.07	7.11	7.2	2060	1.46	0.05	2.37	0.18	45.1	5.5	12
W603552		5.23				0.17	7.03	19.9	2230	1.61	0.06	2.66	0.12	44.0	5.7	11
W603553		4.63				0.11	6.90	16.0	2100	1.59	0.04	2.44	0.39	42.6	7.2	10
W603554		4.32				0.10	7.09	14.6	2120	1.63	0.04	2.32	0.59	46.8	6.4	10
W603555		10.81				0.05	7.13	6.5	2240	1.70	0.06	2.32	0.12	50.9	5.7	11
W603556		4.43				0.54	6.17	67.3	1180	1.49	0.05	3.43	1.55	41.1	5.0	9
W603557		6.48				0.04	6.99	6.0	2240	1.66	0.05	2.75	0.12	44.9	5.9	11
W603558		4.84				0.05	7.32	5.2	2450	1.60	0.06	2.19	0.11	48.2	6.8	11
W603559		4.90				0.05	7.05	4.4	2420	1.64	0.05	2.18	0.10	45.5	5.9	10
W603560		0.25				38.8	5.76	2570	160	1.22	36.3	1.71	45.4	36.7	16.1	22
W603561		5.07				0.13	7.44	12.1	2370	1.60	0.11	2.89	0.12	49.2	6.8	11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W603522		8.67	90.4	3.95	17.00	0.13	1.2	0.342	3.61	28.7	14.2	0.53	2240	0.93	0.13	7.8
W603523		10.05	401	5.18	13.70	0.13	1.0	0.806	2.64	21.6	16.6	0.54	2230	2.14	0.04	6.0
W603524		14.55	16.5	2.78	15.10	0.10	1.4	0.081	3.57	17.3	38.8	0.55	1920	1.02	0.06	7.7
W603525		10.85	774	5.23	14.35	0.11	1.4	0.730	3.27	23.0	15.6	0.59	1370	1.13	0.05	6.5
W603526		11.50	4.1	2.60	15.55	0.10	1.4	0.045	3.07	18.6	7.5	0.62	539	1.10	1.91	7.8
W603527		9.83	5.5	2.59	15.25	0.10	1.2	0.036	2.97	19.6	30.9	0.61	710	0.81	1.70	7.7
W603528		8.60	4.0	2.64	16.30	0.11	1.2	0.037	2.89	24.2	10.3	0.65	686	0.83	2.08	7.8
W603529		8.40	5.4	2.66	16.25	0.11	1.3	0.039	2.71	23.4	14.4	0.72	592	0.81	2.60	8.4
W603530		13.75	10.8	2.47	15.60	0.11	1.3	0.039	3.33	16.8	17.5	0.49	1180	0.74	1.37	7.8
W603531		14.00	11.8	2.47	15.10	0.10	1.3	0.041	3.35	19.9	17.1	0.49	1200	0.75	1.34	7.8
W603532		17.15	23.0	3.27	12.25	0.11	1.0	0.133	2.52	24.9	52.5	0.59	2330	6.28	0.02	6.0
W603533		11.75	3.0	2.41	16.15	0.10	1.4	0.035	3.02	21.9	18.4	0.58	538	1.31	1.93	8.0
W603534		28.1	8.9	2.50	14.40	0.11	1.2	0.042	2.84	26.3	87.8	0.98	2310	1.53	0.05	7.0
W603535		0.93	6020	5.77	11.65	0.09	1.5	0.449	1.10	8.3	12.9	1.11	1700	20.2	1.59	3.2
W603536		13.75	9.2	2.42	15.35	0.11	1.3	0.037	2.82	19.9	50.8	0.58	682	1.08	1.51	7.7
W603537		13.70	4.4	2.50	15.60	0.10	1.6	0.046	2.77	23.7	56.3	0.47	800	0.62	0.25	8.0
W603538		8.16	4.1	2.64	16.15	0.12	1.4	0.045	2.69	25.6	13.6	0.73	540	0.60	2.52	8.2
W603539		12.30	7.7	2.76	15.75	0.11	1.4	0.039	3.02	27.5	20.5	0.70	506	0.86	2.21	8.1
W603540		10.65	8.4	2.83	14.75	0.10	1.4	0.055	2.99	24.4	12.4	0.66	1690	0.82	1.70	7.5
W603541		13.45	6.6	2.31	13.10	0.12	1.3	0.033	3.58	20.6	17.0	0.59	4300	0.83	0.25	6.7
W603542		10.65	4.4	2.70	15.50	0.11	1.6	0.034	2.79	28.4	16.0	0.82	459	0.71	2.54	8.4
W603543		8.29	6.8	2.60	15.50	0.10	1.4	0.043	2.77	28.6	13.9	0.80	512	0.76	2.50	8.0
W603544		10.00	3.1	2.76	15.05	0.11	1.4	0.044	3.09	21.5	11.5	0.67	609	0.94	2.09	7.7
W603545		0.06	2.1	0.12	0.52	0.08	0.1	<0.005	0.04	1.1	1.3	2.02	118	0.06	0.07	0.3
W603546		12.35	3.9	2.93	14.40	0.12	1.4	0.055	3.33	22.2	18.2	0.75	3320	0.77	1.20	7.3
W603547		10.95	12.1	2.94	15.95	0.13	1.4	0.120	3.25	23.2	11.3	0.64	1100	0.98	1.41	7.9
W603548		14.25	49.6	3.45	14.60	0.12	1.3	0.169	3.45	28.8	25.2	0.59	2020	1.38	0.11	6.5
W603549		9.66	6.8	2.73	16.65	0.13	1.5	0.049	3.01	25.0	11.2	0.72	698	1.41	2.16	8.1
W603550		13.80	5.1	2.41	14.80	0.11	1.4	0.036	2.78	19.3	36.1	0.53	826	0.81	1.32	7.6
W603551		10.35	3.5	2.50	15.15	0.10	1.3	0.038	2.67	22.8	16.9	0.63	454	1.09	2.28	7.5
W603552		10.05	3.4	2.47	15.00	0.10	1.4	0.038	3.05	22.2	11.1	0.59	545	0.71	1.86	7.6
W603553		9.22	4.3	2.70	15.40	0.10	1.4	0.037	2.73	20.9	12.3	0.69	572	0.80	2.26	8.2
W603554		8.84	4.5	2.69	15.00	0.11	1.5	0.038	2.72	23.4	12.2	0.71	560	0.81	2.34	7.8
W603555		9.25	3.1	2.53	15.80	0.10	1.4	0.049	2.81	25.0	17.0	0.67	482	0.79	2.35	8.0
W603556		18.35	4.2	2.03	14.05	0.09	1.2	0.069	2.32	20.5	85.2	0.78	1280	1.02	0.05	7.3
W603557		10.15	3.4	2.88	15.80	0.11	1.4	0.056	2.56	21.7	32.0	0.58	547	0.80	1.66	8.4
W603558		7.34	3.4	2.72	15.00	0.11	1.3	0.037	2.78	24.9	13.5	0.77	426	0.73	2.65	7.7
W603559		9.78	3.2	2.58	15.05	0.11	1.3	0.049	2.84	23.1	11.1	0.71	468	0.80	2.51	8.1
W603560		9.51	1170	9.19	13.80	0.14	0.8	1.635	2.65	18.7	15.7	0.69	2270	16.25	0.06	4.4
W603561		12.60	4.9	2.88	16.65	0.19	1.4	0.074	3.15	24.5	11.8	0.66	686	1.15	1.80	7.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W603522		2.6	570	274	208	<0.002	2.27	41.0	10.1	1	3.8	54.8	0.61	<0.05	14.05	0.228
W603523		1.8	420	>10000	140.0	<0.002	5.80	258	7.4	1	8.7	38.6	0.53	<0.05	11.75	0.177
W603524		2.3	520	447	145.5	<0.002	0.65	12.45	9.5	<1	2.0	128.0	0.68	<0.05	10.50	0.225
W603525		2.2	500	389	178.0	<0.002	2.80	56.9	10.0	<1	3.1	67.7	0.57	0.07	12.25	0.197
W603526		2.3	530	24.2	122.5	<0.002	0.02	2.30	10.0	<1	1.4	291	0.67	<0.05	11.10	0.232
W603527		2.1	570	19.7	113.0	<0.002	0.10	4.09	10.0	<1	1.6	272	0.61	<0.05	11.45	0.239
W603528		2.3	560	74.5	120.0	<0.002	0.18	2.40	10.3	<1	1.6	316	0.63	<0.05	12.40	0.242
W603529		2.3	570	19.9	103.5	<0.002	0.05	2.06	10.6	<1	2.0	357	0.63	<0.05	12.00	0.242
W603530		2.3	530	37.4	128.5	<0.002	0.47	8.50	9.2	<1	2.3	215	0.63	<0.05	10.95	0.230
W603531		2.2	550	39.8	129.5	<0.002	0.48	8.67	9.1	<1	2.2	214	0.64	<0.05	11.20	0.235
W603532		2.3	440	1070	147.5	<0.002	2.13	59.1	8.7	<1	2.2	66.7	0.49	<0.05	11.55	0.198
W603533		2.2	550	19.1	124.5	<0.002	0.10	2.99	9.7	<1	1.6	291	0.66	<0.05	13.10	0.236
W603534		2.4	500	147.0	135.5	<0.002	0.92	15.35	9.6	<1	2.2	182.0	0.55	<0.05	11.70	0.217
W603535		28.2	450	>10000	28.6	0.009	2.31	451	12.0	1	2.1	183.0	0.21	1.21	1.94	0.239
W603536		2.3	580	26.9	103.0	<0.002	0.13	4.93	9.5	<1	1.9	282	0.64	<0.05	11.30	0.250
W603537		2.1	570	17.5	106.0	<0.002	0.04	20.6	9.9	<1	1.8	106.5	0.69	<0.05	14.20	0.243
W603538		2.4	570	18.2	102.5	<0.002	0.03	1.85	10.1	<1	1.7	383	0.68	<0.05	12.60	0.239
W603539		2.4	560	19.3	119.5	<0.002	0.35	2.75	10.2	<1	2.1	319	0.64	<0.05	14.95	0.240
W603540		2.3	530	147.5	118.0	<0.002	0.65	5.63	8.9	<1	2.1	258	0.62	<0.05	12.50	0.227
W603541		1.8	470	67.9	147.5	<0.002	1.33	12.65	7.8	<1	1.6	125.5	0.56	<0.05	11.45	0.203
W603542		2.3	570	17.8	107.5	<0.002	0.13	1.46	10.3	<1	1.8	375	0.71	<0.05	13.75	0.247
W603543		2.3	570	19.3	107.5	<0.002	0.03	1.56	10.1	<1	1.6	388	0.66	<0.05	13.70	0.246
W603544		2.2	590	16.3	119.5	<0.002	0.08	2.99	9.4	<1	1.6	302	0.66	<0.05	12.90	0.246
W603545		0.4	80	1.2	1.3	<0.002	0.01	0.12	0.2	<1	<0.2	76.7	<0.05	<0.05	0.13	0.006
W603546		2.1	540	25.1	127.0	<0.002	0.50	7.87	9.5	<1	1.6	207	0.62	<0.05	11.50	0.230
W603547		2.4	560	46.1	142.0	<0.002	0.68	5.32	10.5	<1	2.1	242	0.59	<0.05	12.40	0.241
W603548		2.2	500	106.5	177.0	<0.002	2.15	23.9	9.2	<1	3.4	83.9	0.52	<0.05	13.15	0.208
W603549		2.4	570	17.7	128.5	<0.002	0.05	2.12	10.8	<1	1.8	345	0.66	<0.05	14.40	0.247
W603550		2.2	540	26.7	105.0	<0.002	0.31	7.47	9.3	<1	1.6	225	0.63	<0.05	10.05	0.239
W603551		2.2	560	18.7	102.5	<0.002	0.08	2.78	10.0	<1	1.5	318	0.57	<0.05	11.75	0.243
W603552		2.1	550	19.5	119.5	<0.002	0.22	3.86	9.4	<1	1.6	269	0.63	<0.05	12.45	0.237
W603553		2.2	570	24.1	103.0	<0.002	0.10	2.16	9.9	<1	1.8	314	0.64	<0.05	11.35	0.246
W603554		2.3	550	27.6	104.0	<0.002	0.09	1.81	9.7	<1	1.7	327	0.66	<0.05	12.50	0.239
W603555		2.3	550	16.8	104.5	<0.002	0.06	2.22	9.7	<1	1.8	331	0.66	<0.05	13.30	0.238
W603556		2.3	540	64.7	92.8	<0.002	0.54	13.00	8.4	<1	1.7	130.5	0.58	<0.05	10.80	0.224
W603557		2.1	600	15.9	95.4	<0.002	0.11	4.91	10.3	<1	1.8	243	0.64	<0.05	11.55	0.248
W603558		2.4	580	16.4	100.0	<0.002	0.15	1.31	9.8	<1	1.8	379	0.61	<0.05	13.90	0.246
W603559		2.2	540	15.6	107.5	<0.002	0.07	1.18	9.3	<1	1.6	338	0.64	<0.05	12.50	0.240
W603560		15.4	440	1630	150.0	0.002	7.93	104.0	8.5	1	10.6	61.3	0.41	0.74	8.26	0.166
W603561		2.3	580	17.8	135.5	<0.002	0.22	3.84	11.1	<1	1.9	288	0.64	<0.05	12.40	0.253

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W603522		2.73	5.4	60	3.3	12.8	620	35.1	0.321
W603523		2.23	3.0	47	3.7	9.3	>10000	27.3	2.05
W603524		2.77	4.8	60	1.7	12.9	635	38.0	0.034
W603525		2.73	4.8	55	2.6	12.0	284	39.7	4.40
W603526		1.64	3.6	60	1.1	15.5	49	37.3	<0.005
W603527		1.53	3.1	63	0.8	15.7	44	35.4	<0.005
W603528		1.39	3.5	64	0.9	17.0	194	35.9	0.009
W603529		1.19	2.8	63	0.8	18.4	43	36.2	<0.005
W603530		2.04	4.9	61	1.5	15.9	67	38.0	0.051
W603531		1.93	4.6	62	1.5	15.0	68	35.1	0.056
W603532		2.49	6.3	58	3.0	11.2	960	28.6	0.566
W603533		1.62	3.8	62	1.0	16.6	41	41.3	0.007
W603534		2.67	9.5	59	2.1	18.2	224	36.8	0.035
W603535		0.49	1.3	79	0.7	15.0	5080	49.6	0.275
W603536		1.50	4.7	64	1.2	15.4	52	38.0	<0.005
W603537		1.49	3.7	61	2.0	16.3	44	42.0	<0.005
W603538		1.02	3.6	63	0.6	18.3	40	40.0	<0.005
W603539		1.44	3.8	62	1.1	17.7	35	41.2	<0.005
W603540		1.64	4.0	60	1.5	15.5	177	39.1	0.037
W603541		2.53	4.6	52	1.8	13.7	147	35.9	0.132
W603542		1.08	3.5	65	0.6	19.2	35	43.6	<0.005
W603543		1.01	3.9	65	0.7	18.4	50	37.3	<0.005
W603544		1.42	3.0	65	0.7	16.1	46	37.4	<0.005
W603545		<0.02	0.2	1	0.1	2.3	4	2.1	<0.005
W603546		1.99	4.4	61	1.1	15.5	46	40.5	0.016
W603547		2.04	4.6	64	1.5	16.2	95	38.7	0.036
W603548		2.57	6.3	56	3.2	13.1	188	34.8	0.031
W603549		1.52	3.9	64	0.7	17.9	45	41.0	<0.005
W603550		1.72	4.1	61	1.3	15.5	55	36.9	<0.005
W603551		1.28	3.3	64	0.6	16.4	40	35.2	<0.005
W603552		1.56	3.2	63	1.1	15.7	41	38.9	0.006
W603553		1.26	3.1	65	0.8	17.3	63	38.8	0.005
W603554		1.29	3.2	63	0.8	17.1	76	41.4	0.006
W603555		1.22	4.0	62	0.7	17.4	38	40.2	<0.005
W603556		2.36	7.6	58	2.2	12.9	156	35.7	0.059
W603557		1.29	2.9	68	0.9	16.6	43	38.7	<0.005
W603558		1.07	4.5	64	0.6	17.4	34	35.5	<0.005
W603559		1.18	3.6	61	0.5	16.8	37	38.5	<0.005
W603560		2.17	5.4	56	7.3	9.3	3360	23.8	1.875
W603561		1.62	4.1	67	1.0	18.1	44	41.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245872

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245878

Project: Klaza

P.O. No.: 19-040

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245878

Sample Description	Method	WEI-21	As-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W603402		4.18		0.13	7.51	11.3	2790	1.47	0.10	1.76	0.12	53.1	5.9	8	6.18	2.0
W603403		2.63		0.24	7.27	8.1	2010	1.30	0.10	2.15	0.12	51.2	4.4	7	7.77	2.5
W603404		1.94		0.09	7.30	6.3	2380	1.60	0.10	1.19	0.09	56.2	5.2	8	6.09	1.4
W603405		0.26		41.6	5.68	2490	220	1.24	39.0	1.64	45.6	36.4	16.0	20	9.47	1160
W603406		3.18		0.12	7.36	8.3	2480	1.60	0.15	1.69	0.13	49.7	7.5	9	6.24	2.3
W603407		1.63		0.16	6.60	29.4	6680	1.60	0.10	2.48	0.12	42.0	5.3	7	12.80	2.0
W603408		2.12	1.485	9.65	5.32	>10000	290	1.21	0.13	2.28	32.1	42.3	5.1	6	8.59	26.6
W603409		2.75		0.23	6.71	39.7	2920	1.53	0.20	2.12	0.30	38.1	8.5	8	15.10	2.6
W603410		1.81		0.46	6.59	87.2	2020	1.67	0.15	4.04	0.56	47.7	7.4	6	17.60	4.5
W603411		4.87		0.26	7.56	17.8	3150	1.58	0.23	1.36	0.19	47.6	11.9	7	8.38	3.3
W603412		4.80		0.39	6.56	70.5	1020	1.62	0.28	3.01	0.38	55.0	5.2	6	13.10	7.1
W603413		1.59		18.15	6.47	1550	880	1.32	0.77	1.91	14.50	44.6	6.0	5	12.25	99.6
W603414		2.38		0.85	6.71	246	1020	1.48	0.35	2.51	0.57	43.7	5.6	7	11.70	18.8
W603415		4.68		0.10	6.37	9.5	1100	1.51	0.10	2.79	0.13	36.1	2.8	7	8.47	4.9
W603416		5.46		0.08	6.64	9.6	1180	1.58	0.11	2.94	0.12	40.3	2.8	7	8.77	3.2
W603417		2.89		0.42	6.71	23.8	590	1.71	0.32	3.87	1.08	47.1	9.8	7	11.75	2.8
W603418		8.15		0.15	6.16	14.9	540	1.63	0.14	3.70	0.39	37.0	2.7	7	10.45	1.8
W603419		7.35		0.27	6.73	21.9	660	1.45	0.15	4.61	0.51	38.1	3.1	6	12.85	2.8
W603420		6.35		0.11	7.37	17.3	850	1.76	0.16	4.66	0.17	38.2	6.9	6	14.95	1.7
W603421		6.86		0.04	7.10	18.0	260	1.53	0.14	2.21	0.24	61.2	6.0	22	15.15	8.9
W603422		9.89		0.09	7.86	19.7	530	1.90	0.21	2.22	0.22	63.9	7.0	23	17.00	14.7
W603423		1.97		0.14	8.46	19.7	2000	1.73	0.11	1.55	0.17	54.4	8.1	7	30.9	13.9
W603424		0.26		31.7	7.18	148.5	120	0.62	10.30	6.21	34.0	27.9	95.1	119	1.50	7250
W603425		6.89		0.10	8.01	11.3	2410	1.92	0.14	2.45	0.15	51.0	7.3	9	18.60	15.5
W603426		6.31		0.08	7.59	9.8	1570	1.68	0.10	3.64	0.10	40.9	4.6	8	8.83	4.0
W603427		3.98		0.08	7.28	18.6	1840	1.83	0.19	3.05	0.12	45.3	5.1	7	10.85	4.7
W603428		5.52		0.08	7.69	8.1	2180	1.86	0.18	2.96	0.12	43.9	6.0	10	9.98	5.4
W603429		3.85		0.07	8.15	7.6	2600	2.02	0.08	2.47	0.15	48.5	4.5	10	12.55	5.5
W603430		2.58		0.76	7.26	273	1560	1.65	0.15	2.74	0.68	35.1	4.9	7	15.85	14.8
W603431		5.40		0.06	8.03	8.8	2590	1.81	0.11	2.47	0.16	47.2	6.0	8	14.40	6.3
W603432		10.80		0.17	7.46	17.0	2160	1.52	0.22	2.51	1.26	40.4	7.1	9	15.25	9.9
W603433		<0.02		0.15	7.65	18.0	2190	1.72	0.21	2.58	1.10	44.1	7.1	7	15.70	8.8
W603434		5.62		0.10	7.26	13.0	1980	1.48	0.09	2.21	0.11	42.1	4.6	7	15.05	6.6
W603435		5.41		0.16	7.23	23.5	930	1.54	0.10	2.28	0.24	44.3	4.1	6	16.70	7.9
W603436		4.07		67.7	4.39	7250	260	0.93	1.36	4.28	32.7	45.4	3.7	6	7.38	178.0
W603437		5.13		0.06	0.28	4.0	30	0.17	0.01	34.7	0.04	1.69	0.7	1	0.15	1.8
W603438		6.69		0.41	7.64	56.4	2380	1.53	0.35	1.92	0.58	48.7	5.8	7	14.15	20.2
W603439		6.64		0.06	7.25	20.9	1970	1.32	0.09	2.72	0.27	40.8	4.4	6	14.90	6.5
W603440		3.14		3.41	6.92	448	1390	1.51	0.36	2.46	5.43	48.7	10.8	6	15.40	14.0
W603441		6.63		0.07	7.10	7.3	2080	1.60	0.12	3.31	0.22	43.0	3.2	9	9.23	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245878

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W603402		2.65	13.90	0.08	1.2	0.034	2.56	28.8	18.4	0.73	431	0.34	3.07	7.6	2.3	560
W603403		2.75	14.65	0.08	1.1	0.051	2.28	27.4	15.6	0.79	462	0.23	2.73	7.4	2.2	560
W603404		2.46	14.80	0.08	1.4	0.041	2.68	30.3	15.1	0.77	385	0.20	3.08	7.9	2.2	560
W603405		9.11	12.85	0.09	0.8	1.565	2.65	18.0	15.7	0.65	2240	16.25	0.06	4.5	14.6	440
W603406		2.78	14.40	0.09	1.2	0.036	2.45	26.7	13.0	0.76	432	0.25	3.02	7.8	2.4	570
W603407		2.34	14.10	0.08	1.2	0.034	3.14	20.9	35.4	0.56	1040	0.20	1.66	7.8	2.0	560
W603408		4.40	11.25	0.09	0.9	0.072	2.57	24.5	31.3	0.73	3700	1.76	0.03	5.4	2.2	300
W603409		2.66	14.45	0.07	1.2	0.035	4.08	19.0	40.8	0.64	1050	0.31	0.90	7.6	2.2	540
W603410		2.83	14.65	0.08	1.2	0.038	3.03	26.6	38.3	1.18	3640	0.40	0.07	7.2	2.8	480
W603411		3.18	14.80	0.10	1.1	0.050	2.94	25.8	24.6	0.61	859	0.17	1.34	8.0	2.4	570
W603412		2.34	15.95	0.08	1.1	0.176	2.80	28.6	45.6	0.48	1680	1.10	0.60	7.9	1.8	570
W603413		4.43	13.50	0.09	0.9	0.209	3.03	23.4	13.0	0.59	2190	0.95	0.04	6.2	2.0	460
W603414		2.45	14.75	0.08	1.0	0.145	3.21	21.3	16.3	0.66	2260	1.11	0.05	7.1	2.4	540
W603415		2.17	14.20	0.06	1.0	0.080	2.10	16.2	17.5	0.48	733	0.50	1.21	7.1	1.6	520
W603416		2.10	15.10	0.08	1.0	0.083	2.14	18.9	18.5	0.51	765	0.50	1.20	7.5	1.7	530
W603417		2.10	14.50	0.10	0.9	0.193	2.70	22.0	23.9	0.89	1440	0.89	0.24	7.1	1.4	520
W603418		1.50	14.40	0.08	1.0	0.126	2.40	15.8	16.0	0.57	1210	2.00	0.59	7.0	1.7	490
W603419		1.69	16.60	0.09	1.1	0.244	3.10	15.5	13.9	0.74	1630	1.93	0.20	7.4	2.8	360
W603420		2.29	21.1	0.11	1.3	0.369	3.31	13.5	33.7	0.64	1560	30.2	0.24	8.0	3.5	560
W603421		2.46	17.40	0.08	4.5	0.031	1.03	30.9	125.0	0.83	605	1.26	0.03	10.0	7.9	1200
W603422		2.73	19.70	0.09	5.1	0.034	1.26	31.0	150.0	0.93	637	1.31	0.03	11.5	9.1	1390
W603423		2.78	17.95	0.11	1.6	0.048	3.36	28.1	38.9	0.54	641	1.08	0.56	9.1	3.2	620
W603424		10.30	12.00	0.11	0.8	2.50	1.02	14.5	8.8	2.26	913	58.1	0.85	2.9	403	700
W603425		2.84	17.20	0.11	1.5	0.048	3.09	25.1	12.4	0.51	581	1.12	2.28	8.7	2.5	590
W603426		2.65	15.85	0.09	1.3	0.068	1.91	19.4	13.3	0.71	692	1.13	2.62	8.0	2.1	590
W603427		2.28	17.60	0.09	1.5	0.114	2.20	22.8	22.7	0.44	661	2.18	1.81	8.1	2.0	540
W603428		2.43	17.35	0.10	1.5	0.070	2.88	21.8	10.7	0.55	593	1.41	2.44	8.0	2.2	520
W603429		2.47	17.75	0.12	1.6	0.040	3.24	24.3	14.3	0.63	523	1.56	2.51	8.7	2.5	530
W603430		2.58	14.30	0.08	1.3	0.290	3.90	16.5	14.8	0.63	2970	1.58	0.64	7.0	2.0	550
W603431		2.79	17.95	0.11	1.3	0.052	3.20	23.9	16.1	0.64	553	3.15	2.54	8.9	2.3	600
W603432		2.79	16.65	0.11	1.3	0.110	3.03	19.3	57.7	0.62	733	2.03	1.25	8.4	2.2	580
W603433		2.85	17.25	0.10	1.3	0.113	3.09	21.4	60.3	0.63	755	2.25	1.29	8.8	2.3	600
W603434		2.37	15.25	0.11	1.1	0.060	2.97	21.4	17.3	0.57	573	2.48	1.64	7.4	2.0	520
W603435		2.15	15.85	0.10	1.2	0.061	2.53	22.4	75.0	0.73	1190	1.36	0.09	7.7	2.4	550
W603436		3.38	9.14	0.08	0.6	0.497	1.94	27.1	27.9	0.56	4920	23.0	0.02	3.8	2.5	310
W603437		0.12	0.84	<0.05	0.1	<0.005	0.10	1.5	1.6	1.92	119	0.07	0.11	0.3	0.5	80
W603438		2.70	16.25	0.10	1.3	0.068	3.17	25.0	18.8	0.61	907	1.24	1.47	7.9	2.1	550
W603439		2.54	15.70	0.09	1.2	0.066	2.64	20.0	30.3	0.48	614	1.65	1.28	8.1	2.0	570
W603440		3.00	15.45	0.10	0.9	0.267	3.02	25.3	29.0	0.50	1820	3.51	0.15	7.1	2.6	540
W603441		2.30	16.05	0.10	1.2	0.065	2.28	22.1	9.9	0.45	645	2.43	2.07	7.8	2.0	550

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245878

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W603402		14.8	99.1	<0.002	0.09	3.99	9.1	<1	1.5	274	0.57	<0.05	12.95	0.237	1.23	3.0
W603403		12.7	87.0	<0.002	0.03	4.33	9.1	1	1.4	269	0.56	<0.05	11.65	0.235	1.04	3.1
W603404		13.6	104.5	<0.002	0.03	4.31	8.9	<1	1.4	269	0.64	<0.05	13.65	0.238	1.14	3.5
W603405		1615	143.5	0.003	7.67	102.5	8.0	1	10.1	63.8	0.34	0.74	8.38	0.165	2.09	5.3
W603406		14.0	102.0	<0.002	0.05	3.73	9.2	1	1.5	290	0.59	<0.05	12.55	0.237	1.19	3.2
W603407		15.5	119.0	<0.002	0.40	10.50	9.0	1	1.4	395	0.59	<0.05	10.15	0.240	1.79	3.0
W603408		2700	179.0	<0.002	3.24	144.0	7.0	1	3.1	71.2	0.43	<0.05	9.57	0.161	2.36	3.8
W603409		20.3	143.5	<0.002	0.32	10.95	8.4	<1	1.4	219	0.60	<0.05	10.05	0.224	2.31	3.6
W603410		24.1	148.5	<0.002	0.82	12.15	8.7	1	1.4	155.5	0.61	<0.05	11.85	0.212	2.84	4.6
W603411		13.6	121.0	<0.002	0.17	10.05	9.7	<1	1.6	166.0	0.59	<0.05	12.25	0.244	1.60	3.3
W603412		25.5	108.5	<0.002	0.50	10.05	8.6	1	2.3	123.0	0.62	<0.05	9.76	0.236	2.07	4.5
W603413		791	165.5	<0.002	3.59	59.1	7.9	1	3.3	48.8	0.46	<0.05	9.90	0.191	2.42	8.6
W603414		117.5	144.0	<0.002	0.60	17.70	8.8	1	1.8	57.3	0.53	<0.05	9.74	0.217	2.59	4.7
W603415		16.1	77.0	<0.002	0.06	6.12	8.0	1	2.0	187.0	0.56	<0.05	8.29	0.218	1.57	3.4
W603416		14.6	85.9	<0.002	0.06	5.88	8.5	1	1.8	183.0	0.60	<0.05	9.11	0.226	1.71	3.7
W603417		75.8	105.0	<0.002	0.60	4.38	8.8	1	2.1	148.5	0.56	0.21	10.45	0.217	2.66	3.2
W603418		29.0	98.5	<0.002	0.13	3.23	8.2	1	2.1	129.5	0.55	<0.05	9.33	0.211	2.51	4.0
W603419		26.2	124.0	<0.002	0.25	4.65	8.9	<1	2.7	165.0	0.63	<0.05	10.80	0.215	2.94	4.6
W603420		8.0	124.0	0.010	0.54	7.08	10.8	<1	3.4	159.5	0.65	<0.05	11.35	0.232	3.19	11.2
W603421		13.5	32.0	<0.002	0.01	22.2	5.5	<1	1.4	369	0.65	<0.05	8.67	0.335	0.52	3.0
W603422		17.5	33.8	<0.002	0.02	18.10	6.1	<1	1.7	421	0.78	<0.05	9.14	0.373	0.65	3.3
W603423		17.6	147.0	<0.002	0.12	14.75	10.6	<1	1.9	151.5	0.82	<0.05	16.40	0.265	1.72	5.5
W603424		8960	21.2	0.016	6.57	34.6	12.3	12	7.3	157.0	0.22	0.70	3.17	0.212	2.43	6.0
W603425		24.5	123.0	<0.002	0.03	3.00	10.1	1	1.8	354	0.76	<0.05	13.65	0.259	1.40	2.6
W603426		18.1	64.7	<0.002	0.02	2.40	9.1	<1	2.0	399	0.69	<0.05	10.65	0.251	0.95	2.2
W603427		16.3	92.5	<0.002	0.24	4.74	8.5	<1	2.6	262	0.76	0.05	10.80	0.216	1.51	3.6
W603428		16.6	106.0	<0.002	0.11	2.86	8.6	<1	1.9	359	0.75	<0.05	10.80	0.218	1.40	3.5
W603429		21.6	123.0	<0.002	0.06	2.32	9.3	<1	1.8	374	0.82	<0.05	13.40	0.231	1.37	4.2
W603430		76.7	148.0	<0.002	1.09	16.60	8.1	<1	1.7	150.5	0.64	<0.05	9.98	0.232	2.51	4.1
W603431		21.1	115.0	<0.002	0.03	3.02	10.1	<1	2.0	391	0.74	<0.05	12.50	0.262	1.41	2.9
W603432		37.3	109.5	<0.002	0.24	9.64	9.9	<1	2.1	234	0.71	<0.05	11.55	0.253	1.64	4.5
W603433		33.6	114.0	<0.002	0.22	9.93	10.4	<1	2.2	238	0.75	<0.05	12.05	0.262	1.70	4.8
W603434		16.6	119.5	<0.002	0.08	5.05	9.1	<1	2.0	247	0.63	<0.05	11.45	0.229	1.76	3.1
W603435		17.4	97.5	<0.002	0.21	15.65	9.3	<1	2.4	185.5	0.66	<0.05	11.90	0.237	2.34	5.6
W603436		3170	110.5	0.003	2.67	166.5	5.3	<1	3.6	148.5	0.31	<0.05	6.99	0.123	1.76	6.0
W603437		3.2	3.5	<0.002	0.02	0.31	0.2	1	<0.2	78.0	<0.05	<0.05	0.27	0.006	0.04	0.2
W603438		52.5	131.5	<0.002	0.19	15.70	9.2	<1	1.9	251	0.67	<0.05	12.30	0.246	1.71	2.8
W603439		18.8	93.9	<0.002	0.02	10.40	9.1	<1	1.8	261	0.66	<0.05	10.45	0.253	1.34	2.1
W603440		571	152.0	<0.002	1.05	22.9	9.1	<1	2.5	111.5	0.59	0.09	11.40	0.216	2.64	3.8
W603441		12.8	101.0	<0.002	0.03	3.69	9.3	<1	2.2	303	0.63	<0.05	10.75	0.241	1.54	2.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245878

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W603402		57	3.3	15.8	49	33.6	<0.005
W603403		67	3.5	15.1	57	32.3	<0.005
W603404		59	1.8	15.5	52	37.6	<0.005
W603405		55	7.0	8.6	3240	23.0	1.660
W603406		61	2.0	15.3	49	33.9	<0.005
W603407		58	1.6	13.3	35	35.0	<0.005
W603408		43	2.8	8.3	2340	25.6	2.71
W603409		58	1.8	12.5	64	33.4	0.005
W603410		59	1.9	14.2	67	33.2	0.025
W603411		66	2.1	14.1	74	31.7	<0.005
W603412		63	1.6	13.3	68	32.9	0.010
W603413		49	3.8	11.5	1410	26.6	0.796
W603414		57	1.3	14.7	96	30.7	0.048
W603415		58	0.8	11.5	56	29.9	<0.005
W603416		57	0.8	13.2	53	29.7	<0.005
W603417		48	1.0	15.4	131	27.2	0.020
W603418		44	0.8	13.6	58	26.8	<0.005
W603419		40	1.3	15.0	73	30.8	0.006
W603420		58	1.2	14.8	47	38.7	0.005
W603421		57	2.9	10.4	88	185.0	<0.005
W603422		62	1.7	10.3	97	208	<0.005
W603423		67	1.5	16.6	64	45.9	0.006
W603424		399	6.0	12.2	8610	27.0	1.580
W603425		66	1.5	16.3	57	45.0	<0.005
W603426		68	0.8	14.8	57	36.3	<0.005
W603427		64	1.0	13.3	46	40.4	0.009
W603428		58	1.0	14.9	49	41.9	<0.005
W603429		57	1.0	15.9	45	43.2	<0.005
W603430		60	2.9	12.3	111	35.4	0.107
W603431		67	1.3	15.5	50	37.4	<0.005
W603432		67	1.6	14.3	132	35.9	0.007
W603433		69	1.7	15.2	119	37.3	0.006
W603434		60	1.6	13.7	43	31.8	<0.005
W603435		63	2.3	14.0	51	33.4	<0.005
W603436		39	3.0	11.2	2950	18.1	5.04
W603437		1	<0.1	2.4	7	3.1	<0.005
W603438		62	1.7	15.3	94	36.5	0.043
W603439		65	2.0	15.0	64	33.9	<0.005
W603440		59	1.7	15.0	576	25.0	0.154
W603441		63	1.0	13.1	61	31.2	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245878

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

As-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245885

Project: Klaza

P.O. No.: 19-052

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245885

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K294651		5.37	0.06	7.76	6.1	2500	1.57	0.12	2.88	0.17	41.3	8.0	10	7.52	7.9	3.16
K294652		4.74	0.27	7.24	9.9	2110	1.59	0.37	2.44	0.40	52.0	6.4	9	7.76	68.5	2.64
K294653		0.26	30.1	7.25	137.0	140	0.60	10.50	6.02	33.2	29.1	89.8	116	1.58	6990	10.10
K294654		4.66	0.26	7.40	6.4	2410	1.63	0.14	2.68	0.15	42.1	7.8	12	8.12	47.3	3.00
K294655		5.87	0.38	7.41	33.9	2270	1.62	0.41	2.38	0.28	38.9	7.9	8	12.10	24.5	3.33
K294656		5.24	0.53	7.79	58.5	1980	1.62	0.45	2.06	2.46	51.7	6.1	9	15.10	18.9	3.30
K294657		5.28	0.08	7.68	8.0	2370	1.69	0.18	2.69	0.12	44.4	7.3	10	11.20	7.3	2.92
K294658		4.77	0.14	7.54	40.1	2240	1.74	0.46	2.67	0.14	42.1	8.2	9	10.75	16.5	3.25
K294659		<0.02	0.15	7.37	39.0	2170	1.58	0.44	2.59	0.15	42.4	7.9	9	10.60	16.3	3.13
K294660		4.53	0.24	7.81	16.8	2580	1.65	0.61	2.20	0.16	45.7	7.3	9	11.85	33.8	3.18
K294661		2.94	0.88	7.57	32.5	2140	1.61	1.23	2.70	0.24	47.0	7.4	10	8.99	81.8	3.46
K294662		1.28	2.14	7.39	180.5	1360	1.58	3.26	2.15	2.59	51.1	8.6	7	12.15	55.0	4.02
K294663		3.38	0.17	7.55	7.4	2230	1.61	0.26	2.54	0.15	47.2	7.3	10	7.01	32.3	2.76
K294664		4.21	0.11	7.17	7.1	2090	1.72	0.18	2.64	0.14	43.4	6.8	11	6.11	24.0	2.66
K294665		4.40	0.11	7.39	4.2	2340	1.69	0.17	2.78	0.14	43.9	8.0	10	6.06	20.3	3.04
K294666		0.26	34.4	7.15	147.0	150	0.61	9.94	6.02	35.0	28.6	98.8	115	1.64	6750	9.57
K294667		4.37	0.15	7.13	7.8	1900	1.86	0.20	2.28	0.16	50.5	6.6	9	7.00	19.0	2.60
K294668		4.80	0.10	7.38	18.3	2080	1.73	0.15	2.35	0.10	49.9	7.2	10	7.05	10.4	2.71
K294669		5.18	0.05	7.45	4.4	2300	1.70	0.08	2.60	0.08	50.1	7.7	10	7.02	8.2	2.89
K294670		5.07	0.06	7.36	5.2	2350	1.65	0.10	2.60	0.11	45.7	7.9	10	6.63	8.0	2.90
K294671		5.78	0.50	7.00	12.2	2230	1.62	0.59	2.79	0.13	43.7	9.5	11	7.50	37.3	3.13
K294672		4.85	0.49	7.16	28.6	1860	1.54	0.62	2.35	3.34	53.2	6.5	10	8.08	28.5	3.22
K294673		5.20	0.14	7.17	4.5	2090	1.63	0.23	2.46	0.20	47.4	7.0	10	6.37	12.3	2.67
K294674		4.85	0.05	0.29	<0.2	40	0.13	0.02	32.9	0.03	1.53	1.9	1	0.14	10.1	0.14
K294675		3.48	1.53	7.22	22.3	2620	1.61	1.38	2.90	0.25	43.5	12.8	14	9.67	106.5	2.98
K294676		5.25	0.15	7.50	19.7	1970	1.51	0.14	1.57	0.12	50.1	7.2	9	26.3	10.6	2.93
K294677		4.18	0.07	7.55	6.3	2200	1.70	0.13	2.67	0.09	45.4	7.8	10	11.35	7.9	2.93
K294678		4.94	0.18	7.55	8.4	2410	1.63	0.24	2.82	0.26	45.6	8.7	11	7.12	18.1	3.02
K294679		5.19	0.20	7.38	7.2	2340	1.65	0.40	2.72	0.13	44.1	8.1	9	7.90	22.6	3.01
K294680		4.43	0.62	7.45	105.0	2210	1.68	1.21	2.51	0.34	44.9	9.2	10	10.60	33.3	3.29
W593641		4.35	0.11	7.25	35.3	2180	1.74	0.42	2.65	1.09	45.0	6.4	9	12.85	12.4	2.75
W593642		4.58	0.13	7.31	32.1	2330	1.59	0.26	2.39	1.44	42.4	5.3	10	7.98	14.5	2.80
W593643		4.79	0.40	6.62	54.5	3510	1.74	0.91	2.55	0.82	38.7	12.4	8	19.35	44.8	3.26
W593644		4.63	0.26	6.83	67.9	2810	1.68	0.57	2.37	3.75	40.0	10.4	9	14.15	15.1	2.91
W593645		4.65	0.42	7.02	26.2	1950	1.85	0.72	2.29	2.08	49.3	9.9	8	10.55	13.8	2.45
W593646		2.93	0.84	7.10	59.7	2060	1.72	1.33	2.40	2.73	37.2	6.2	8	11.45	71.0	2.86
W593647		2.48	1.10	7.14	52.2	2030	1.72	1.61	2.23	2.45	37.8	5.6	8	9.56	96.2	2.73
W593648		4.95	0.19	7.41	13.2	2540	1.62	0.37	2.81	0.63	41.8	8.2	11	8.02	22.1	2.80
W593649		5.20	0.11	7.48	6.8	2380	1.87	0.15	2.85	0.19	44.9	8.1	11	9.39	18.8	3.04
W593650		4.84	0.20	7.25	11.6	2240	1.74	0.31	2.87	0.35	42.1	6.9	9	8.49	21.7	2.88

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245885

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
K294651		17.05	0.10	1.3	0.048	2.59	19.9	13.5	0.98	687	1.35	2.41	8.6	3.1	660	18.2
K294652		15.25	0.10	1.7	0.075	2.85	26.5	11.0	0.69	674	2.02	1.92	7.9	2.4	510	19.4
K294653		11.90	0.13	0.8	2.48	1.02	15.4	8.5	2.23	888	58.3	0.83	2.9	396	680	8680
K294654		16.30	0.07	1.1	0.063	2.65	20.0	12.5	0.85	658	1.30	2.36	8.0	3.1	620	22.2
K294655		16.10	0.09	1.3	0.103	3.00	18.6	23.2	0.77	855	1.49	1.02	7.9	2.9	590	22.2
K294656		16.30	0.10	1.2	0.157	3.11	27.0	14.9	0.70	958	4.43	0.96	7.8	2.7	580	105.5
K294657		16.90	0.09	1.3	0.055	2.61	22.0	14.7	0.76	653	1.90	1.85	8.2	2.7	630	18.7
K294658		17.00	0.09	1.3	0.083	2.78	20.5	12.0	0.77	792	1.61	1.74	8.1	2.9	630	17.0
K294659		16.45	0.10	1.2	0.090	2.66	20.5	11.7	0.75	769	1.38	1.67	7.8	2.9	610	16.0
K294660		16.40	0.10	1.2	0.072	2.77	22.8	13.9	0.77	668	1.51	1.46	7.9	2.8	650	17.9
K294661		16.70	0.10	1.3	0.110	2.79	23.1	9.2	0.84	957	1.40	1.76	7.6	2.8	610	40.3
K294662		14.50	0.08	1.4	0.284	3.38	27.7	10.1	0.67	1360	1.12	0.51	6.9	2.7	500	390
K294663		16.40	0.09	1.6	0.053	2.94	23.4	10.0	0.78	586	3.31	2.29	8.3	2.7	580	20.8
K294664		15.05	0.15	1.4	0.039	2.69	22.4	9.6	0.74	581	1.84	2.27	7.9	2.4	570	17.8
K294665		16.50	0.15	1.2	0.052	2.45	22.1	10.5	0.95	641	1.22	2.36	8.3	2.8	640	17.1
K294666		11.75	0.15	0.7	2.57	1.00	15.8	9.0	2.23	884	53.9	0.83	2.8	378	690	8640
K294667		15.20	0.14	1.7	0.052	2.96	26.2	10.8	0.74	542	1.27	2.27	8.7	2.6	530	31.1
K294668		15.70	0.15	1.4	0.037	2.82	26.7	10.0	0.79	609	1.12	2.21	7.8	2.5	550	20.1
K294669		16.80	0.15	1.3	0.037	2.59	25.8	10.4	0.90	634	1.47	2.31	8.7	2.7	640	17.0
K294670		16.55	0.15	1.1	0.041	2.51	23.3	12.2	0.92	636	1.63	2.30	8.2	2.8	640	17.1
K294671		16.25	0.14	1.2	0.085	2.57	20.9	11.0	0.93	812	1.61	2.13	8.3	2.8	640	20.3
K294672		15.40	0.16	1.5	0.138	3.05	28.1	10.3	0.78	1020	1.70	1.59	7.8	2.3	540	287
K294673		15.70	0.17	1.4	0.041	2.89	24.0	9.9	0.78	651	1.41	2.22	8.0	2.6	560	22.5
K294674		0.89	0.14	0.1	<0.005	0.12	1.4	1.4	1.73	117	0.88	0.12	0.4	3.7	90	7.2
K294675		16.35	0.20	1.3	0.126	2.80	21.3	9.3	0.74	775	1.77	1.81	8.2	3.6	690	25.9
K294676		16.20	0.19	1.2	0.042	2.57	26.8	25.4	0.52	638	1.96	0.28	7.9	2.5	610	15.7
K294677		17.00	0.17	1.3	0.043	2.52	22.5	16.0	0.76	676	2.40	1.70	8.8	2.8	650	16.6
K294678		16.60	0.17	1.4	0.062	2.56	23.7	11.2	0.89	695	1.55	2.32	8.3	3.2	640	20.5
K294679		16.85	0.19	1.3	0.071	2.64	22.3	10.7	0.83	741	1.56	2.20	8.2	2.9	630	19.7
K294680		16.40	0.15	1.3	0.113	2.72	21.7	11.0	0.73	1020	1.28	1.42	8.2	2.7	630	43.8
W593641		16.25	0.16	1.4	0.059	2.81	23.5	13.9	0.71	693	1.30	1.97	8.1	2.7	590	18.3
W593642		16.50	0.16	1.3	0.057	2.79	21.8	11.7	0.59	663	1.22	1.77	8.2	2.4	640	21.1
W593643		16.25	0.15	1.3	0.141	2.76	19.0	14.5	0.77	1100	0.87	0.94	7.7	3.2	600	26.2
W593644		15.80	0.16	1.2	0.140	2.68	19.5	14.3	0.70	1030	0.80	1.08	7.1	2.5	590	30.7
W593645		16.15	0.16	1.3	0.193	2.97	23.9	15.4	0.72	1100	1.00	0.84	7.2	2.4	650	30.8
W593646		16.45	0.15	1.2	0.198	3.43	18.8	21.1	0.85	1250	0.85	0.11	6.7	2.2	590	44.3
W593647		16.40	0.16	1.2	0.201	3.43	19.1	19.0	0.83	1190	1.01	0.11	6.6	2.0	580	51.1
W593648		15.80	0.17	1.3	0.056	2.87	20.9	10.4	0.84	780	1.08	1.90	7.6	2.6	640	35.3
W593649		17.15	0.16	1.3	0.049	2.54	22.4	14.3	0.89	613	1.59	2.35	8.5	3.2	650	15.5
W593650		16.85	0.15	1.2	0.056	2.51	20.7	11.5	0.84	698	7.92	2.54	8.6	3.0	720	19.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245885

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
K294651		87.9	<0.002	0.03	1.09	11.4	<1	1.9	443	0.66	<0.05	10.30	0.292	0.98	3.7	80
K294652		109.5	<0.002	0.13	2.48	9.2	<1	1.7	291	0.91	<0.05	17.75	0.220	1.15	5.8	61
K294653		26.4	0.016	6.43	33.7	12.3	14	7.4	153.0	0.23	0.73	3.43	0.207	2.34	6.2	396
K294654		89.7	<0.002	0.05	1.25	10.6	<1	1.8	411	0.65	<0.05	10.10	0.267	1.04	2.9	74
K294655		106.0	<0.002	0.13	9.35	10.1	<1	2.0	218	0.70	<0.05	11.75	0.262	1.36	5.6	74
K294656		144.0	<0.002	0.35	5.91	10.7	<1	2.3	206	0.68	<0.05	14.30	0.246	1.64	3.1	67
K294657		92.9	<0.002	0.05	3.08	10.9	<1	1.8	347	0.67	<0.05	11.15	0.274	1.09	6.1	75
K294658		102.0	<0.002	0.27	4.64	11.2	1	1.8	335	0.65	0.07	10.50	0.271	1.26	3.5	76
K294659		104.0	<0.002	0.26	4.63	11.0	<1	1.8	323	0.62	0.07	10.25	0.266	1.18	3.4	73
K294660		105.5	<0.002	0.26	4.02	11.2	<1	2.4	364	0.62	0.06	11.90	0.273	1.10	3.9	75
K294661		113.0	<0.002	0.49	3.38	11.1	<1	3.1	320	0.58	0.23	11.75	0.259	1.29	3.3	73
K294662		173.5	<0.002	1.65	8.61	8.7	1	6.3	108.0	0.65	0.52	17.90	0.210	1.92	6.7	60
K294663		100.0	<0.002	0.12	1.53	10.1	<1	2.2	368	0.78	<0.05	15.65	0.252	1.03	4.6	68
K294664		84.6	<0.002	0.04	1.26	9.7	<1	1.8	355	0.73	<0.05	13.50	0.245	0.86	5.0	66
K294665		87.0	<0.002	0.03	0.94	11.7	<1	2.0	407	0.60	<0.05	10.60	0.286	0.88	3.4	79
K294666		32.1	0.018	6.31	31.5	13.2	13	6.8	152.0	0.20	0.65	3.56	0.204	2.54	6.4	391
K294667		102.5	<0.002	0.03	1.08	9.2	<1	1.8	323	0.94	<0.05	17.70	0.229	0.96	5.8	61
K294668		103.5	<0.002	0.10	0.92	9.7	<1	1.7	349	0.74	<0.05	16.40	0.238	0.94	4.9	64
K294669		95.8	<0.002	0.01	0.95	11.5	<1	1.6	409	0.69	<0.05	14.55	0.274	0.92	4.0	73
K294670		91.3	<0.002	0.01	1.14	11.3	1	1.6	393	0.64	<0.05	13.30	0.275	0.95	3.2	74
K294671		90.8	<0.002	0.16	1.48	11.4	<1	1.8	362	0.64	0.08	10.45	0.281	1.08	2.8	80
K294672		114.5	<0.002	0.45	2.19	9.4	<1	1.8	249	0.79	0.06	18.25	0.225	1.43	5.3	62
K294673		95.2	<0.002	0.06	1.30	10.0	<1	1.5	345	0.74	<0.05	16.20	0.241	1.04	4.4	65
K294674		3.7	<0.002	0.02	0.59	0.5	<1	<0.2	80.9	<0.05	<0.05	0.29	0.010	0.04	0.3	2
K294675		110.0	<0.002	0.51	10.85	10.8	1	2.6	300	0.67	1.00	11.65	0.273	1.66	3.7	79
K294676		101.5	<0.002	0.14	8.77	11.1	<1	1.6	102.5	0.63	<0.05	13.35	0.259	1.58	3.9	73
K294677		91.3	<0.002	0.03	2.70	12.0	1	1.7	315	0.71	<0.05	12.00	0.288	1.05	3.6	77
K294678		95.2	<0.002	0.09	1.98	11.7	1	1.8	407	0.65	<0.05	12.55	0.279	1.04	4.0	76
K294679		92.5	<0.002	0.06	2.87	11.5	1	1.9	385	0.60	<0.05	12.15	0.277	1.16	3.5	75
K294680		108.5	<0.002	0.43	6.11	11.4	1	2.3	264	0.64	0.08	12.50	0.277	1.49	4.2	76
W593641		100.5	<0.002	0.05	2.40	10.7	1	2.0	344	0.67	<0.05	14.30	0.253	1.15	2.8	69
W593642		88.8	<0.002	0.07	3.47	10.5	<1	2.3	311	0.70	<0.05	12.20	0.271	1.10	3.1	75
W593643		92.8	<0.002	0.41	9.88	10.2	1	2.2	172.5	0.66	0.05	10.05	0.245	1.44	3.0	71
W593644		92.7	<0.002	0.24	6.12	10.9	1	1.9	172.0	0.61	0.05	9.25	0.240	1.47	3.4	75
W593645		109.5	<0.002	0.12	7.12	10.5	1	1.7	139.5	0.60	0.05	11.15	0.243	1.96	3.0	75
W593646		153.0	<0.002	0.48	10.55	10.6	1	3.6	96.3	0.55	0.10	11.25	0.224	2.47	3.1	70
W593647		165.0	<0.002	0.42	11.20	10.9	<1	3.9	91.6	0.51	0.14	12.80	0.216	2.49	2.7	70
W593648		103.0	<0.002	0.09	2.30	11.4	<1	1.7	348	0.61	<0.05	11.50	0.266	1.41	3.9	76
W593649		89.2	<0.002	0.06	1.46	11.7	1	1.7	422	0.71	<0.05	10.55	0.280	1.01	3.7	77
W593650		81.0	0.009	0.12	1.63	11.3	1	3.1	382	0.65	<0.05	10.00	0.291	1.02	3.6	80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245885

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
K294651		1.2	17.5	57	36.0	<0.005
K294652		1.8	16.0	71	42.9	0.007
K294653		6.5	12.3	8280	26.1	1.475
K294654		1.0	16.3	56	30.4	0.005
K294655		3.2	14.7	76	33.1	0.008
K294656		2.4	15.6	303	33.5	0.006
K294657		1.5	16.8	52	34.1	<0.005
K294658		1.3	16.4	61	36.9	0.009
K294659		1.3	16.4	60	34.8	0.009
K294660		1.7	16.0	59	35.6	0.015
K294661		1.4	15.2	74	36.9	0.020
K294662		2.6	16.1	314	39.3	0.151
K294663		0.7	16.7	51	41.0	0.005
K294664		0.9	15.7	50	37.5	<0.005
K294665		0.8	17.4	53	34.2	<0.005
K294666		6.1	12.9	8030	25.3	1.590
K294667		0.9	17.1	53	43.0	<0.005
K294668		1.4	16.2	50	37.4	0.009
K294669		0.8	18.5	51	36.0	<0.005
K294670		1.2	16.6	57	29.7	<0.005
K294671		1.3	17.6	62	31.9	0.006
K294672		2.8	16.2	360	38.1	0.012
K294673		2.1	17.2	57	36.9	<0.005
K294674		<0.1	2.8	13	3.7	<0.005
K294675		1.6	16.3	75	33.2	0.012
K294676		2.9	15.9	56	29.0	<0.005
K294677		2.5	17.4	52	32.0	<0.005
K294678		1.9	18.0	70	32.6	<0.005
K294679		2.8	17.9	57	33.2	<0.005
K294680		2.5	16.0	80	31.9	0.018
W593641		0.9	16.6	156	36.7	0.006
W593642		2.0	15.6	181	33.2	0.005
W593643		1.9	15.1	140	35.1	0.018
W593644		1.9	13.8	320	30.2	0.008
W593645		1.9	13.0	226	34.8	0.007
W593646		2.4	12.9	263	32.5	0.035
W593647		2.4	12.7	223	32.7	0.038
W593648		1.7	16.3	106	34.6	0.009
W593649		1.2	18.1	53	34.8	0.005
W593650		1.1	17.3	68	33.3	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245885

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245903

Project: Klaza

P.O. No.: 19-053

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245903

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K294681		1.83			3.00	7.03	1655	490	1.66	2.02	2.15	35.5	42.8	7.4	11	16.75
K294682		2.59			15.40	6.66	409	280	1.55	37.2	1.91	0.91	39.8	67.9	10	11.70
K294683		1.82			0.32	7.55	56.7	2190	1.68	0.74	2.49	0.25	43.9	8.5	11	13.10
K294684		4.23			0.23	6.93	16.4	2320	1.65	0.48	2.97	0.80	36.2	8.4	15	13.75
K294685		4.14			0.09	7.10	8.9	2140	1.62	0.19	2.61	0.13	40.6	7.4	14	14.40
K294686		1.95			0.59	7.10	28.1	2060	1.66	1.02	2.62	0.49	40.6	7.3	9	14.25
K294687		2.31			0.68	6.69	27.6	2080	1.67	1.03	2.64	0.62	39.2	7.1	9	14.15
K294688		3.79			1.70	7.12	48.3	1470	1.55	2.27	2.41	0.81	47.2	6.6	9	19.25
K294689		1.22			11.90	5.32	170.5	470	1.46	2.56	5.97	6.89	36.9	4.9	6	13.95
K294690		3.16			0.19	6.83	9.0	1860	1.14	0.30	2.56	0.13	42.2	5.7	11	12.65
K294691		2.82			0.50	7.04	59.1	2080	1.50	1.45	2.68	0.28	51.9	7.1	12	8.20
K294692		5.25			0.32	7.18	6.5	2010	1.73	1.86	2.38	0.22	49.0	6.3	14	5.51
K294693		0.26	101	1.030	>100	5.47	242	490	0.64	4.78	1.45	23.4	19.70	11.5	66	0.83
K294694		5.11			0.47	7.58	13.1	2090	1.42	0.60	2.10	0.33	55.8	8.5	10	7.41
K294695		6.02			0.76	7.00	14.1	2230	1.45	1.00	2.83	0.87	50.2	8.4	9	8.41
K294696		3.61			0.26	6.80	6.8	2180	1.15	0.29	3.49	0.16	41.2	6.7	10	6.02
K294697		4.46			0.11	7.44	5.8	2360	1.53	0.18	2.82	0.23	49.0	7.8	12	6.33
K294698		5.18			0.10	7.41	5.7	2200	1.46	0.16	2.88	0.09	44.4	8.0	11	6.57
K294699		4.96			0.06	7.35	5.8	2200	1.61	0.13	2.72	0.08	48.4	7.6	13	6.96
K294700		<0.02			0.05	7.27	6.1	2150	1.61	0.14	2.66	0.08	44.6	7.6	13	6.90
K294701		4.32			0.09	7.26	6.3	2160	1.48	0.18	2.69	0.08	47.9	7.3	13	5.73
K294702		2.19			3.21	7.28	79.8	400	1.59	2.06	2.20	7.82	50.6	7.6	10	13.40
K294703		3.63			0.06	7.37	3.8	2270	1.89	0.10	2.72	0.11	46.8	7.6	12	6.29
K294704		1.57			1.25	7.47	305	630	1.74	1.54	1.42	1.03	59.5	7.2	8	16.45
K294705		3.40			0.20	7.18	10.0	2340	1.57	0.26	2.74	0.23	42.1	8.2	12	10.65
K294706		2.03			1.48	6.63	174.5	2140	1.56	0.43	2.70	5.49	51.7	8.4	10	23.4
K294707		4.95			0.01	0.13	0.4	30	0.10	0.02	32.5	0.02	1.15	0.5	1	0.07
K294708		3.66			0.49	7.03	22.0	2330	1.42	0.22	2.99	2.03	42.5	7.1	12	11.25
K294709		3.19			3.31	7.00	167.5	1340	1.36	1.65	2.41	10.75	45.9	7.3	8	22.5
K294710		2.13			0.35	7.11	5.2	2260	1.42	0.21	2.52	0.18	44.6	7.6	11	7.45
K294711		0.88			11.45	7.01	58.7	1620	1.68	1.29	2.08	102.0	47.8	7.1	8	18.60
K294712		4.33			0.42	7.00	12.0	2200	1.54	0.51	2.66	0.41	50.0	7.7	12	8.08
K294713		1.46			12.20	6.47	81.9	540	1.50	1.26	3.90	138.0	49.8	7.1	7	15.65
K294714		3.94			1.06	7.36	22.3	2130	1.59	0.18	2.64	8.22	50.5	7.3	11	5.24
K294715		0.26			29.5	7.20	140.5	130	0.54	9.11	5.83	32.2	30.6	90.7	111	1.67
K294716		3.24			1.02	7.26	87.8	2000	1.56	2.84	2.47	0.71	46.8	5.5	9	11.10
K294717		4.17			0.11	7.29	8.3	2220	1.65	0.42	2.25	0.22	47.6	5.3	11	11.65
K294718		4.69			0.31	6.47	28.5	1780	1.86	2.17	3.19	0.24	41.6	6.9	24	15.90
K294719		5.04			0.22	6.76	53.7	1850	1.97	0.30	4.75	0.78	73.2	10.6	62	15.40
K294720		5.08			1.04	6.71	60.1	2100	1.60	2.80	2.81	0.42	31.3	6.4	8	15.80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245903

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K294681		60.0	4.64	15.25	0.14	1.1	0.854	3.01	21.8	9.1	0.71	1800	1.12	0.81	7.4	2.5
K294682		329	6.41	15.30	0.13	1.1	0.359	2.91	20.4	7.8	0.75	815	3.40	0.36	7.0	3.5
K294683		39.9	3.37	16.75	0.16	1.3	0.134	2.76	22.2	10.9	0.83	970	1.11	1.48	8.4	2.7
K294684		22.9	3.11	16.55	0.14	1.2	0.079	2.58	16.7	9.9	0.79	817	1.70	1.91	8.3	2.8
K294685		15.8	3.00	16.20	0.14	1.3	0.046	2.60	19.8	19.1	0.72	874	1.50	1.23	8.3	2.5
K294686		106.5	2.92	16.00	0.15	1.3	0.082	2.63	20.6	14.5	0.69	1090	2.17	1.04	8.3	2.3
K294687		126.5	2.85	15.35	0.14	1.3	0.085	2.54	19.2	14.3	0.72	1120	2.27	1.01	7.7	2.1
K294688		242	2.90	14.90	0.13	1.2	0.118	2.60	24.8	20.2	0.90	1160	2.37	0.06	7.6	2.2
K294689		1125	4.23	11.40	0.15	0.8	0.474	2.31	20.7	10.0	2.29	3630	2.19	0.03	5.0	1.6
K294690		22.0	2.60	15.05	0.10	1.0	0.052	2.53	22.1	11.3	0.69	681	3.55	1.60	7.3	2.2
K294691		74.5	2.76	16.55	0.10	1.1	0.060	2.72	25.6	10.1	0.80	784	2.91	1.97	8.4	2.6
K294692		28.5	2.62	15.95	0.10	1.3	0.059	2.74	25.8	9.2	0.74	595	6.33	2.10	8.3	2.5
K294693		6240	5.71	12.40	0.07	1.5	0.426	1.13	9.1	12.6	1.11	1720	21.0	1.62	3.3	26.7
K294694		53.2	2.82	16.35	0.10	1.2	0.082	2.91	30.4	15.6	0.79	708	6.70	1.38	8.5	2.7
K294695		81.1	2.92	16.35	0.10	1.0	0.075	2.70	25.2	11.7	0.74	901	1.91	1.58	7.9	2.6
K294696		39.9	2.68	16.00	0.09	1.0	0.049	2.56	20.9	20.0	0.66	735	1.12	0.78	8.1	2.5
K294697		16.8	3.12	17.55	0.09	1.1	0.052	2.56	23.9	10.5	0.84	743	1.23	2.28	8.8	3.0
K294698		15.2	2.92	16.70	0.10	1.0	0.044	2.56	22.6	11.5	0.81	632	1.17	2.20	8.5	2.6
K294699		7.2	2.88	17.05	0.10	1.0	0.040	2.63	23.6	11.0	0.85	612	2.47	2.34	8.3	2.7
K294700		6.1	2.82	16.70	0.10	1.0	0.039	2.58	22.1	10.9	0.84	597	3.38	2.28	8.2	3.0
K294701		14.2	2.77	16.15	0.10	1.2	0.045	2.74	24.0	10.1	0.80	615	2.31	2.25	7.8	2.7
K294702		22.7	3.55	16.25	0.12	1.2	0.152	3.36	27.2	8.8	0.63	968	2.47	0.61	7.8	2.6
K294703		6.5	2.87	17.05	0.10	1.1	0.042	2.72	23.4	9.9	0.87	658	6.43	2.34	9.4	2.6
K294704		20.8	4.47	17.30	0.11	1.1	0.165	3.26	32.3	12.1	0.59	1310	5.46	0.22	8.5	2.5
K294705		37.0	2.73	16.95	0.10	1.0	0.046	2.66	20.0	8.9	0.72	654	2.91	2.20	8.2	2.8
K294706		38.5	2.92	15.85	0.10	0.8	0.051	2.64	27.0	16.2	0.93	818	2.45	0.66	7.3	2.7
K294707		2.5	0.12	0.42	0.11	<0.1	0.006	0.03	1.2	1.2	1.78	116	<0.05	0.06	0.2	0.4
K294708		44.1	2.89	16.80	0.12	0.9	0.057	2.74	20.7	7.4	0.72	738	3.22	2.14	8.1	2.5
K294709		28.3	3.61	16.55	0.10	1.0	0.244	2.97	23.5	11.5	0.80	1170	2.24	0.31	7.7	2.4
K294710		56.9	2.85	15.95	0.09	1.0	0.050	2.69	22.2	7.9	0.78	721	11.75	2.04	8.0	2.5
K294711		258	3.44	17.90	0.09	0.9	0.413	3.13	25.9	9.2	0.80	1520	5.33	0.45	7.1	2.4
K294712		98.1	2.75	16.35	0.11	1.0	0.066	2.78	24.7	7.7	0.75	893	12.20	1.99	9.0	2.5
K294713		195.5	3.52	16.05	0.11	0.9	1.240	2.97	26.9	10.1	1.12	2250	3.16	0.22	6.6	2.3
K294714		23.8	2.80	17.10	0.10	1.1	0.067	2.67	24.9	9.8	0.82	695	2.79	2.23	8.2	2.6
K294715		6730	9.40	11.45	0.10	0.8	2.45	1.03	17.0	8.3	2.18	862	58.6	0.82	2.8	365
K294716		178.0	3.28	15.25	0.09	1.2	0.187	2.98	24.2	8.6	0.52	729	6.08	1.92	8.2	2.4
K294717		11.4	2.43	16.15	0.10	1.2	0.064	2.86	24.3	9.6	0.56	527	7.57	2.32	8.9	2.5
K294718		36.6	2.60	17.20	0.10	2.0	0.079	2.54	18.6	13.1	0.31	708	2.30	1.69	12.6	8.2
K294719		20.8	3.54	18.10	0.12	3.6	0.090	2.54	34.3	16.6	0.67	1030	2.81	0.68	18.8	20.4
K294720		25.6	2.97	16.10	0.10	1.4	0.097	2.71	14.5	16.9	0.35	667	3.16	1.26	8.6	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245903

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K294681		560	499	138.5	<0.002	2.53	17.65	10.2	1	3.6	165.0	0.59	0.22	11.80	0.237	1.92
K294682		540	123.0	156.0	<0.002	5.39	25.3	10.6	2	7.8	96.7	0.58	2.24	10.60	0.230	2.02
K294683		670	19.2	102.0	<0.002	0.39	5.71	12.0	<1	2.5	284	0.61	0.06	12.55	0.291	1.43
K294684		650	20.9	79.8	<0.002	0.20	1.91	10.3	<1	2.4	355	0.65	<0.05	8.88	0.278	1.19
K294685		610	15.7	79.7	<0.002	0.10	7.60	10.3	1	1.9	247	0.68	<0.05	12.95	0.264	1.06
K294686		580	36.0	95.2	<0.002	0.57	8.08	10.2	1	2.2	205	0.73	0.14	13.60	0.250	1.34
K294687		550	40.2	88.2	<0.002	0.62	7.74	9.4	<1	2.0	196.0	0.72	0.16	12.40	0.227	1.26
K294688		560	57.1	100.5	<0.002	0.82	10.35	9.9	<1	1.8	94.7	0.66	0.12	14.55	0.232	1.68
K294689		390	224	136.5	<0.002	1.87	73.7	7.3	1	2.4	116.0	0.36	0.21	11.65	0.166	2.24
K294690		560	15.6	84.4	<0.002	0.11	2.80	8.5	<1	1.9	281	0.51	0.08	11.25	0.237	1.01
K294691		590	25.6	104.0	<0.002	0.18	2.31	9.8	<1	2.0	330	0.59	<0.05	13.25	0.245	1.13
K294692		560	25.6	101.5	0.002	0.06	1.76	9.5	<1	1.5	333	0.75	<0.05	14.80	0.230	0.95
K294693		460	>10000	27.5	0.010	2.32	458	11.3	2	1.9	191.0	0.21	1.13	1.91	0.240	0.47
K294694		600	37.1	117.5	0.006	0.19	4.87	10.2	<1	2.5	242	0.67	0.15	16.20	0.252	1.19
K294695		590	52.3	103.0	<0.002	0.40	5.51	10.0	<1	1.6	279	0.55	0.07	10.85	0.247	1.25
K294696		620	18.2	72.8	<0.002	0.08	7.59	10.2	<1	1.7	212	0.54	<0.05	9.67	0.262	0.91
K294697		750	19.6	91.0	<0.002	0.06	2.72	11.9	<1	1.7	410	0.62	<0.05	10.50	0.294	0.96
K294698		630	15.1	94.4	<0.002	0.08	3.06	10.6	<1	1.6	389	0.59	<0.05	10.70	0.270	0.90
K294699		620	14.9	93.1	<0.002	0.07	1.34	10.6	<1	1.6	399	0.63	<0.05	10.55	0.265	0.91
K294700		610	15.7	94.4	<0.002	0.07	1.31	10.5	<1	1.5	389	0.69	<0.05	10.60	0.260	0.90
K294701		600	16.4	93.4	<0.002	0.08	1.47	9.8	<1	1.5	369	0.62	<0.05	13.20	0.253	0.94
K294702		560	862	174.0	<0.002	2.15	5.76	10.2	1	3.4	185.0	0.64	0.20	15.10	0.236	2.26
K294703		600	16.3	92.7	<0.002	0.03	1.08	10.9	<1	1.5	379	0.71	<0.05	14.05	0.263	0.89
K294704		570	102.0	190.0	0.003	2.87	8.84	11.1	1	3.7	68.0	0.63	0.20	16.40	0.243	2.58
K294705		670	21.6	97.0	<0.002	0.05	2.67	10.7	<1	1.9	369	0.55	<0.05	9.56	0.264	1.04
K294706		580	331	92.1	<0.002	0.38	11.80	9.7	1	2.5	164.0	0.46	<0.05	8.68	0.240	1.33
K294707		70	0.9	0.8	<0.002	0.01	0.12	0.2	1	<0.2	77.9	<0.05	<0.05	0.10	0.006	<0.02
K294708		640	104.0	89.0	<0.002	0.08	2.53	9.9	<1	1.8	378	0.56	<0.05	9.26	0.268	1.07
K294709		580	685	134.0	<0.002	1.69	12.30	9.7	1	2.6	117.0	0.54	0.23	10.20	0.238	2.00
K294710		580	29.4	97.6	0.003	0.02	2.49	9.2	<1	1.8	345	0.60	<0.05	10.75	0.257	1.04
K294711		530	3220	165.0	<0.002	1.16	15.15	9.9	1	2.9	125.0	0.49	0.19	12.45	0.210	2.33
K294712		580	33.6	109.0	0.002	0.22	2.22	10.1	<1	2.3	328	0.63	0.06	11.90	0.241	1.15
K294713		510	2760	156.5	<0.002	1.41	13.65	8.9	1	3.1	122.0	0.49	0.15	10.95	0.196	2.20
K294714		600	328	99.1	<0.002	0.10	1.39	10.2	<1	2.0	362	0.61	<0.05	12.70	0.253	0.86
K294715		670	8500	41.6	0.017	6.20	32.7	12.0	13	7.0	149.0	0.20	0.58	3.42	0.196	2.16
K294716		500	37.9	107.5	<0.002	1.06	3.80	8.4	1	1.5	288	0.74	0.28	16.05	0.212	1.21
K294717		510	18.6	99.4	0.003	0.09	2.21	9.2	<1	2.2	339	0.75	<0.05	15.25	0.231	0.90
K294718		860	20.5	79.6	<0.002	0.12	6.44	9.3	1	3.5	227	0.83	0.06	10.55	0.309	1.19
K294719		1720	40.9	71.0	<0.002	0.16	10.05	11.4	<1	2.0	199.0	0.89	<0.05	8.40	0.498	1.24
K294720		570	61.4	91.5	<0.002	0.57	6.15	9.2	<1	2.7	212	0.74	0.07	10.45	0.242	1.15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245903

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K294681		4.8	66	3.0	13.7	2580	30.1	0.165
K294682		4.6	66	4.0	11.8	100	27.1	0.852
K294683		3.4	80	2.6	17.2	74	33.5	0.016
K294684		3.0	77	2.2	15.2	136	30.9	0.006
K294685		3.0	71	3.6	15.4	54	36.2	<0.005
K294686		5.2	67	3.6	16.4	108	32.6	0.006
K294687		4.6	64	3.3	15.0	117	32.3	0.007
K294688		4.4	65	3.4	13.8	130	31.5	0.010
K294689		4.5	45	4.3	10.6	624	21.2	0.205
K294690		3.0	64	14.6	13.5	46	28.1	<0.005
K294691		3.8	67	5.4	16.0	65	33.2	0.032
K294692		4.7	63	7.6	16.4	54	34.7	<0.005
K294693		1.3	79	0.6	13.5	5130	52.3	0.270
K294694		4.0	70	2.9	15.5	75	35.4	0.007
K294695		4.6	68	1.9	15.5	133	28.6	<0.005
K294696		2.1	71	6.7	15.6	52	26.5	<0.005
K294697		2.9	87	2.1	15.6	62	30.0	<0.005
K294698		3.3	75	1.9	15.9	47	28.1	<0.005
K294699		3.9	72	0.8	16.9	42	26.3	<0.005
K294700		4.0	71	0.9	16.9	41	26.8	<0.005
K294701		3.7	70	1.0	16.0	41	31.3	<0.005
K294702		5.3	66	3.3	13.6	587	32.2	0.021
K294703		3.8	73	7.4	18.2	44	30.9	<0.005
K294704		4.5	67	5.1	12.5	115	31.9	0.104
K294705		2.9	72	1.3	15.7	57	29.8	<0.005
K294706		2.8	67	1.4	13.6	388	24.8	0.041
K294707		0.2	1	<0.1	2.2	4	1.5	<0.005
K294708		3.2	76	1.0	15.0	166	25.7	0.007
K294709		4.4	67	2.3	13.9	769	26.3	0.095
K294710		2.9	69	2.0	15.0	58	28.3	<0.005
K294711		4.2	61	2.7	12.6	5650	25.2	0.153
K294712		3.7	66	131.0	16.5	82	29.2	0.006
K294713		3.8	59	13.7	13.6	8210	26.0	0.601
K294714		3.6	68	3.9	16.8	553	30.8	0.020
K294715		5.3	384	5.4	13.3	7720	30.8	1.470
K294716		2.3	58	1.9	15.3	88	32.5	0.043
K294717		2.5	61	1.6	16.0	50	34.5	0.005
K294718		2.8	69	2.6	15.1	66	72.7	0.012
K294719		3.9	88	3.1	18.2	128	159.0	0.009
K294720		2.3	67	2.4	14.2	76	40.5	0.055

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245903

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245912

Project: Klaza

P.O. No.: 19-054

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245912

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K294721		4.84			0.18	7.77	8.2	2400	1.81	0.85	2.84	0.19	37.8	7.1	11	13.75
K294722		3.85			0.42	6.66	39.1	1980	1.78	1.04	2.53	0.41	34.6	7.3	8	15.65
K294723		4.62			0.23	7.33	34.9	2170	1.71	0.45	3.04	0.27	40.2	7.5	9	16.90
K294724		4.30			0.12	7.74	11.5	2430	1.45	0.33	1.51	0.25	45.4	7.7	8	12.55
K294725		4.26			0.28	6.43	21.9	2170	1.37	2.09	2.85	0.32	34.7	8.2	8	10.45
K294726		4.26			0.72	7.92	76.3	1900	1.68	0.51	1.71	1.21	55.2	7.8	9	16.90
K294727		5.14			0.91	8.07	137.5	1550	1.75	0.68	1.38	5.69	52.7	7.0	9	21.3
K294728		0.26	105	1.045	>100	5.66	251	450	0.72	5.10	1.53	24.9	20.9	11.9	61	0.90
K294729		5.06			0.79	6.83	220	1300	1.60	0.44	2.90	4.84	35.2	5.1	9	16.20
K294730		3.70			2.79	7.95	1445	1250	1.71	2.41	1.12	27.8	61.2	6.0	9	13.65
K294731		3.95			4.95	6.29	737	370	1.58	1.74	2.80	43.6	45.0	6.6	8	18.15
K294732		4.55			0.39	7.14	237	1850	2.18	0.12	3.13	0.60	62.1	6.6	17	21.6
K294733		4.63			0.72	7.25	490	1040	2.16	0.21	2.53	2.85	60.6	7.3	16	21.2
K294734		4.54			0.38	6.88	159.0	1690	1.60	0.29	2.56	1.38	41.0	6.4	8	19.75
K294735		5.03			<0.01	0.09	0.3	20	0.07	0.02	33.3	0.02	1.11	1.2	2	0.07
K294736		1.62			7.88	6.11	1825	230	1.37	1.08	3.79	80.4	45.2	6.9	6	13.50
K294737		4.78			0.47	6.60	178.5	1690	1.49	0.31	3.03	1.04	41.5	7.2	8	19.40
K294738		3.85			0.31	6.75	383	1940	1.35	0.17	3.33	0.38	43.3	6.9	8	22.3
K294739		1.22			18.15	5.80	1110	790	1.62	3.82	3.15	141.0	39.6	11.6	6	23.3
K294740		1.61			2.13	7.32	205	870	1.48	1.00	2.20	17.45	51.3	8.5	8	20.1
K294741		2.14			1.97	7.04	270	1130	1.59	0.55	3.05	12.65	48.4	7.6	8	24.6
K294742		1.95			2.62	6.81	294	1570	1.58	0.76	3.03	14.55	42.0	7.9	8	24.4
K294743		3.57			9.56	7.09	669	80	1.53	10.65	0.73	15.45	42.5	10.7	24	11.10
K294744		1.19			7.30	6.81	296	170	2.25	9.81	2.16	12.35	59.7	11.3	22	28.2
K294745		3.26			3.78	7.03	467	500	1.67	1.38	2.21	12.45	42.2	9.6	60	12.65
K294746		3.50			10.95	6.96	995	310	1.45	9.13	1.48	19.40	41.3	9.9	65	10.40
K294747		2.12			2.33	6.63	187.5	1070	1.47	2.47	3.42	3.47	37.1	9.3	64	21.0
K294748		4.51			2.15	6.67	97.0	1390	1.56	0.70	3.62	7.46	39.1	9.2	61	26.1
K294749		<0.02			2.20	6.84	105.0	1390	1.64	0.74	3.67	7.19	42.2	9.4	62	27.9
K294750		1.14			5.34	7.20	290	560	2.87	2.58	2.15	38.7	58.6	9.3	17	42.4
K294751		3.51			1.07	6.92	68.6	2150	1.49	0.20	2.72	2.52	40.9	10.1	57	19.85
K294752		4.27			0.36	6.90	50.1	1320	1.59	0.23	3.31	0.25	37.8	10.4	69	16.45
K294753		4.27			5.00	6.95	290	1230	1.73	1.86	2.64	12.25	42.9	10.6	86	15.50
K294754		5.67			5.45	7.16	223	1190	1.68	5.03	2.01	12.15	50.9	7.1	9	14.85
K294755		4.30			2.72	7.10	292	1140	1.65	3.70	1.90	14.15	49.4	6.8	7	14.05
K294756		0.26	103	1.040	>100	5.50	256	560	0.78	5.35	1.46	25.9	19.80	12.4	60	0.94
K294757		1.75			6.26	7.86	135.0	780	1.91	8.86	2.02	8.37	60.0	7.9	9	19.20
K294758		1.27			15.45	7.55	452	310	1.54	22.0	0.43	49.1	55.0	15.1	9	11.65
K294759		1.55			6.82	6.98	251	80	1.43	5.96	0.46	3.82	41.3	86.2	8	8.82
K294760		1.04			4.88	7.16	292	170	1.64	8.10	1.01	8.51	45.5	50.8	7	32.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245912

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K294721		29.7	3.03	17.25	0.17	1.1	0.066	2.67	17.5	12.1	0.65	625	3.01	2.21	8.0	2.7
K294722		28.4	3.02	16.50	0.22	1.2	0.188	2.64	15.6	13.2	0.54	894	3.36	1.38	7.2	2.8
K294723		26.9	2.91	18.20	0.18	1.1	0.082	2.51	18.0	16.2	0.56	745	3.36	1.73	8.3	2.5
K294724		15.1	3.33	17.45	0.20	1.2	0.065	2.70	21.9	29.8	0.41	792	3.32	0.20	8.2	2.7
K294725		33.5	3.14	15.90	0.19	1.0	0.114	2.37	15.7	27.5	0.39	920	5.03	0.73	7.7	2.7
K294726		45.6	3.61	18.75	0.19	1.3	0.132	3.09	27.4	27.8	0.51	907	7.49	0.51	8.4	2.6
K294727		37.7	4.42	18.20	0.19	1.3	0.352	3.18	26.6	20.9	0.59	1760	9.63	0.07	8.1	2.5
K294728		6250	5.90	12.45	0.14	1.6	0.457	1.16	9.1	13.2	1.15	1750	20.1	1.68	3.2	27.4
K294729		35.1	3.35	16.65	0.19	1.3	0.240	2.92	16.0	34.7	0.63	1340	4.07	0.06	8.0	2.1
K294730		137.0	4.26	17.60	0.22	1.5	0.144	3.42	31.4	25.0	0.54	1500	4.57	0.06	8.2	2.3
K294731		84.0	4.25	14.50	0.19	1.2	0.332	3.27	23.0	10.7	0.95	2330	3.74	0.04	6.4	2.5
K294732		9.5	2.67	19.15	0.22	3.7	0.036	3.27	31.5	16.6	1.03	1430	1.83	0.03	10.0	6.1
K294733		14.3	2.68	18.65	0.22	3.5	0.137	3.42	29.8	12.8	0.84	1600	2.24	0.04	9.8	5.9
K294734		17.5	3.08	15.70	0.20	1.2	0.075	3.51	19.9	16.0	0.69	1540	2.25	0.19	7.4	2.3
K294735		2.8	0.13	0.36	0.14	0.1	<0.005	0.02	1.2	1.2	1.92	123	0.07	0.04	0.1	0.5
K294736		134.0	6.17	13.70	0.13	1.0	2.43	2.86	24.6	8.9	1.35	8230	2.41	0.02	6.4	2.8
K294737		25.5	2.99	15.70	0.19	1.2	0.079	3.59	19.8	13.5	0.70	1550	2.14	0.30	7.6	2.3
K294738		22.2	2.93	16.00	0.20	1.3	0.058	3.18	20.9	18.1	0.87	1020	3.00	0.30	7.6	2.3
K294739		111.5	5.64	13.20	0.17	1.1	2.32	2.27	20.7	23.5	0.74	1570	5.48	0.03	5.6	2.6
K294740		19.9	3.48	15.70	0.20	1.2	0.174	3.18	26.9	12.5	0.84	1200	2.26	0.04	6.7	2.5
K294741		30.3	3.15	16.25	0.18	1.3	0.454	2.85	23.9	17.1	0.86	1240	3.04	0.04	7.5	2.6
K294742		41.4	3.26	16.00	0.20	1.3	0.519	2.80	20.6	17.5	0.87	1230	2.76	0.04	7.6	2.7
K294743		257	6.08	17.00	0.19	1.9	0.986	3.13	20.6	12.7	0.35	403	1.46	0.04	8.6	6.0
K294744		174.5	5.25	17.15	0.19	2.0	0.622	2.97	30.0	26.1	0.80	1780	2.20	0.05	8.2	11.4
K294745		59.4	5.49	16.45	0.14	1.6	0.875	3.26	22.9	6.6	1.04	9600	0.70	0.03	5.4	22.7
K294746		381	6.31	15.70	0.16	1.6	0.989	3.29	21.9	6.9	0.81	9020	1.02	0.03	5.3	25.6
K294747		72.0	3.33	15.15	0.15	1.7	0.228	2.52	19.2	162.5	1.31	4190	0.78	0.08	5.9	24.9
K294748		25.9	2.70	15.15	0.16	1.5	0.232	2.61	20.1	106.5	1.19	3180	0.95	0.06	6.1	22.4
K294749		24.8	2.73	15.70	0.18	1.6	0.243	2.67	21.5	109.0	1.22	3210	0.96	0.06	6.3	23.1
K294750		147.0	4.10	17.25	0.20	2.0	1.265	2.95	30.4	27.2	0.82	2020	2.22	0.06	8.0	9.0
K294751		5.8	2.23	16.65	0.21	1.7	0.057	3.24	21.1	25.5	0.99	3880	1.47	0.04	6.5	22.7
K294752		2.9	2.81	16.80	0.20	1.7	0.061	3.17	19.0	21.1	1.20	2020	0.86	0.05	5.5	25.7
K294753		281	4.32	16.75	0.18	1.7	0.689	3.27	22.3	10.7	1.21	4140	1.79	0.04	6.6	28.5
K294754		433	4.26	16.45	0.18	0.9	0.550	3.31	25.1	15.3	0.82	2650	1.77	0.05	7.1	3.9
K294755		224	3.92	15.30	0.17	0.9	0.321	3.34	26.8	12.8	0.85	2140	2.70	0.04	6.6	2.7
K294756		6040	5.74	12.55	0.13	1.5	0.460	1.15	9.2	13.3	1.12	1700	21.9	1.63	3.1	29.4
K294757		200	4.33	17.95	0.19	0.9	0.256	3.66	33.0	7.3	1.15	3040	2.96	0.03	7.9	3.2
K294758		545	6.43	19.15	0.16	0.8	0.588	3.79	29.2	5.7	0.65	3690	3.06	0.04	7.0	3.3
K294759		360	8.96	17.75	0.16	0.9	0.490	3.38	20.4	6.8	0.58	2720	3.32	0.04	6.4	5.7
K294760		187.5	6.92	16.95	0.15	0.8	0.638	3.34	23.5	11.1	0.65	3080	2.18	0.03	6.4	4.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245912

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K294721		690	17.3	93.3	0.004	0.04	2.27	12.1	<1	2.7	373	0.60	0.05	8.16	0.302	1.02
K294722		530	23.5	114.0	0.004	0.61	5.17	10.0	<1	4.7	172.5	0.73	0.08	11.15	0.226	1.72
K294723		680	21.5	86.4	0.004	0.11	5.49	12.2	<1	3.3	286	0.63	0.10	8.89	0.291	1.16
K294724		670	19.0	98.3	0.005	0.07	12.40	12.6	<1	2.5	88.8	0.67	0.05	11.40	0.291	1.09
K294725		590	16.7	74.6	0.003	0.17	11.70	9.8	<1	3.9	139.5	0.62	0.63	7.97	0.266	1.13
K294726		650	114.5	141.0	0.007	0.32	9.40	12.6	1	4.3	125.0	0.67	0.06	14.35	0.288	1.74
K294727		670	185.5	156.0	0.007	0.62	11.95	12.4	<1	3.1	69.2	0.70	0.06	13.00	0.279	2.27
K294728		470	>10000	30.5	0.010	2.41	468	12.9	2	1.9	197.0	0.21	1.26	1.86	0.251	0.56
K294729		610	215	110.5	<0.002	0.40	13.50	10.2	<1	2.4	131.0	0.69	0.05	9.66	0.263	2.06
K294730		640	449	195.0	0.002	1.67	12.70	12.4	<1	6.8	67.5	0.72	0.11	15.70	0.270	2.29
K294731		530	1770	187.5	0.004	2.62	14.60	9.4	1	4.6	95.7	0.58	0.33	11.25	0.216	3.10
K294732		1050	23.1	153.0	<0.002	0.48	9.98	7.6	<1	1.7	112.0	0.74	<0.05	8.99	0.295	3.38
K294733		1060	82.0	154.5	0.002	0.92	9.31	7.5	<1	1.8	115.5	0.75	<0.05	9.01	0.300	3.65
K294734		600	60.0	136.5	<0.002	0.64	6.71	10.3	<1	1.9	130.5	0.65	0.07	10.85	0.257	2.62
K294735		60	0.7	0.7	<0.002	0.01	0.13	0.3	<1	<0.2	79.2	<0.05	<0.05	0.08	0.006	0.02
K294736		570	1830	217	<0.002	4.75	25.5	10.1	<1	7.5	68.4	0.58	0.11	9.87	0.225	2.97
K294737		580	99.9	131.0	<0.002	0.46	7.47	10.1	<1	2.5	173.5	0.68	<0.05	10.25	0.257	2.60
K294738		550	25.7	110.5	<0.002	0.24	7.08	10.1	<1	2.3	235	0.75	<0.05	10.90	0.245	2.13
K294739		450	9220	128.5	0.003	5.41	17.25	8.3	1	9.9	248	0.49	0.60	10.00	0.185	1.92
K294740		550	1140	169.0	0.002	1.42	7.45	10.0	<1	3.8	98.4	0.59	0.11	13.60	0.225	2.79
K294741		580	556	113.5	<0.002	0.64	8.18	10.3	<1	3.2	150.0	0.64	<0.05	10.95	0.248	2.38
K294742		600	673	106.5	0.003	0.81	8.99	10.0	<1	3.8	152.0	0.66	0.07	10.45	0.248	2.37
K294743		750	452	185.5	0.002	6.13	18.30	9.9	1	7.8	59.2	0.67	1.07	8.60	0.243	2.92
K294744		790	403	172.0	<0.002	4.08	18.40	10.1	1	6.3	157.5	0.63	0.79	9.65	0.249	2.88
K294745		640	900	243	<0.002	1.78	12.75	9.3	1	2.1	70.2	0.47	0.31	9.00	0.185	3.35
K294746		630	1200	234	<0.002	3.19	28.5	9.4	<1	2.8	46.7	0.48	0.33	8.66	0.183	3.16
K294747		630	236	129.0	<0.002	0.86	11.70	9.2	<1	1.2	185.5	0.55	0.06	7.93	0.201	2.69
K294748		650	463	133.5	<0.002	0.61	9.50	9.5	<1	1.3	185.0	0.54	<0.05	8.26	0.212	2.80
K294749		670	503	144.5	<0.002	0.61	9.95	10.1	<1	1.3	190.5	0.54	0.06	8.84	0.222	2.82
K294750		790	645	168.0	0.002	2.84	17.20	9.9	<1	4.8	330	0.65	0.23	11.10	0.261	3.11
K294751		740	84.9	179.5	<0.002	0.44	9.68	9.9	<1	1.0	125.0	0.56	<0.05	8.85	0.213	3.60
K294752		690	19.4	152.0	<0.002	0.16	6.75	9.7	<1	0.8	175.0	0.49	<0.05	7.94	0.196	3.00
K294753		630	308	213	<0.002	1.22	21.1	11.5	<1	1.7	127.5	0.58	<0.05	8.68	0.230	3.27
K294754		590	300	186.5	<0.002	1.51	20.3	11.2	<1	2.2	90.2	0.60	0.28	11.05	0.245	2.96
K294755		570	386	208	<0.002	1.59	10.00	10.1	<1	2.3	84.7	0.55	0.22	12.95	0.238	2.77
K294756		460	10000	29.4	0.012	2.34	456	12.2	1	1.8	193.0	0.22	1.21	2.07	0.247	0.58
K294757		630	376	222	0.002	1.18	13.35	11.8	1	2.3	65.1	0.67	0.39	14.75	0.264	3.49
K294758		640	1370	238	0.002	4.14	28.5	11.6	1	9.1	16.5	0.53	0.92	10.35	0.259	3.24
K294759		600	377	207	0.002	7.01	28.0	11.3	2	8.0	16.5	0.52	2.50	10.50	0.224	2.72
K294760		580	334	213	<0.002	4.70	22.7	10.7	1	6.6	22.5	0.52	1.42	10.60	0.231	3.04

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245912

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K294721		1.9	81	1.6	17.1	57	31.6	0.010
K294722		2.9	66	2.7	15.0	75	33.1	0.057
K294723		2.4	81	5.2	17.8	64	34.4	0.020
K294724		2.0	80	4.7	18.0	66	34.7	<0.005
K294725		2.3	71	4.5	16.4	70	33.5	0.023
K294726		2.0	76	7.1	18.8	145	38.3	0.056
K294727		2.7	77	8.0	15.1	481	39.2	0.078
K294728		1.3	83	0.6	14.8	5230	49.9	0.286
K294729		2.0	71	5.7	11.0	456	39.6	0.068
K294730		2.8	75	12.0	15.9	1960	41.6	0.342
K294731		3.4	59	4.4	12.1	3110	35.1	0.322
K294732		6.4	63	3.9	15.3	172	144.0	0.014
K294733		4.5	64	4.5	13.3	272	138.0	0.065
K294734		3.1	70	3.0	13.9	205	36.1	0.020
K294735		0.1	1	<0.1	2.4	8	1.9	<0.005
K294736		3.0	67	8.2	9.1	5330	29.9	2.93
K294737		3.7	71	3.3	15.1	182	35.4	0.016
K294738		3.4	69	2.7	15.6	80	35.6	0.035
K294739		6.7	52	4.6	11.4	9050	32.2	2.28
K294740		3.6	64	4.1	12.7	1340	32.7	0.129
K294741		5.7	66	4.0	14.7	899	40.7	0.066
K294742		5.8	67	3.8	14.6	1020	38.0	0.067
K294743		4.6	70	5.0	9.2	1010	66.5	0.199
K294744		5.1	66	4.5	12.3	855	74.2	0.165
K294745		4.2	71	3.4	9.4	1100	51.1	0.127
K294746		3.5	72	4.1	8.5	1650	49.9	0.170
K294747		3.9	74	3.3	9.3	404	51.3	0.041
K294748		3.8	74	2.9	10.6	616	50.0	0.059
K294749		4.0	75	3.0	11.3	589	52.1	0.059
K294750		20.8	67	5.1	12.8	2790	73.1	0.219
K294751		3.8	76	3.0	10.3	246	57.7	0.077
K294752		3.2	78	1.8	10.3	217	54.7	0.011
K294753		4.2	81	4.2	11.9	1640	54.5	0.209
K294754		3.0	67	3.7	14.7	1020	23.8	0.083
K294755		3.0	64	3.8	13.7	928	22.0	0.076
K294756		1.5	80	0.6	14.5	5040	51.3	0.271
K294757		8.1	73	3.2	16.8	762	21.8	0.035
K294758		2.2	76	4.8	8.1	3630	20.7	0.341
K294759		2.3	83	4.8	7.8	376	23.5	0.092
K294760		2.9	72	5.5	10.1	868	22.5	0.079

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245912

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245913

Project: Klaza

P.O. No.: 19-056

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245913

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K294761		2.98			1.21	7.23	194.0	1200	1.84	2.62	2.70	5.14	41.1	8.1	29	12.95
K294762		2.47			2.30	6.79	95.8	1070	1.67	3.81	2.58	1.78	36.1	4.3	27	10.95
K294763		2.46			6.77	7.29	178.5	460	1.74	12.25	1.55	4.97	46.7	18.6	27	17.95
K294764		2.85			0.93	7.18	51.4	1570	1.80	6.97	2.31	1.04	48.6	9.4	9	19.15
K294765		1.40			4.11	7.51	165.0	720	1.72	8.40	2.27	3.67	43.4	10.0	8	10.95
K294766		0.98			11.00	6.69	2530	70	1.24	12.45	0.32	11.50	9.82	16.9	35	4.38
K294767		1.68			8.31	5.82	473	140	1.13	15.65	0.93	15.95	26.3	13.1	32	6.21
K294768		4.98			0.06	0.13	3.8	20	0.09	0.07	33.0	0.06	1.09	1.6	2	0.07
K294769		3.14			0.45	6.93	80.3	1530	2.13	0.23	3.14	1.75	53.9	5.9	15	28.4
K294770		1.18			0.25	6.48	50.9	2780	1.82	0.15	3.45	0.69	52.3	6.0	14	21.0
K294771		4.56			0.15	6.78	37.2	1490	1.96	0.14	3.17	0.27	60.4	6.4	14	20.7
K294772		5.29			0.13	6.88	22.6	1910	1.97	0.15	2.74	0.14	57.5	6.3	15	16.45
K294773		4.21			0.17	6.38	44.6	1910	1.94	0.36	2.59	0.31	56.0	4.8	15	17.90
K294774		1.86			9.35	5.37	420	200	1.56	19.50	2.56	15.50	45.9	25.5	12	15.70
K294775		3.29			4.54	7.72	243	310	1.75	5.96	1.45	6.75	55.3	9.5	9	10.10
K294776		1.10			4.44	7.58	405	340	1.79	6.44	1.26	3.87	54.1	9.2	10	14.00
K294777		1.26			5.50	7.47	439	390	1.77	7.57	1.31	5.43	56.1	9.0	9	13.25
K294778		3.29			0.22	8.10	18.8	1850	1.38	0.69	1.26	0.19	53.5	6.6	10	18.25
K294779		2.50			0.36	7.39	101.0	3660	1.64	1.12	0.76	0.20	54.9	7.2	9	11.85
K294780		2.43			0.38	7.35	34.6	2010	1.54	1.61	1.99	0.16	41.3	6.4	10	14.60
K294781		1.75			0.78	7.29	89.4	530	1.74	2.51	1.91	0.22	44.9	10.1	10	9.66
K294782		3.13			0.42	6.94	56.3	1850	1.70	1.85	2.66	0.13	43.6	6.4	11	11.50
K294783		4.69			0.73	6.56	36.5	1990	1.61	2.00	3.87	0.21	40.8	6.9	10	14.15
K294784		0.26	104		>100	5.41	251	560	0.70	5.31	1.45	25.5	19.90	12.0	58	0.91
K294785		2.95			0.73	6.99	29.4	1890	1.73	1.57	3.01	0.17	45.3	13.7	11	11.75
K294786		1.83			2.08	7.12	129.0	350	1.52	4.48	1.35	0.53	45.2	8.0	10	13.55
K294787		1.70			2.21	6.86	163.0	440	1.53	4.56	1.31	1.48	48.6	6.2	9	13.50
K294788		3.70			2.03	7.19	177.5	640	1.74	5.86	1.86	0.46	49.5	10.2	10	9.51
K294789		2.35			0.55	6.59	80.0	1760	1.46	1.50	3.95	0.40	41.7	11.2	9	15.45
K294790		5.05			0.74	6.59	74.3	2130	1.53	1.78	3.21	0.53	46.5	10.5	8	12.40
K294791		<0.02			0.65	6.54	77.9	3230	1.46	1.61	3.29	0.53	43.0	9.9	13	10.70
K294792		2.01			0.66	6.34	48.4	3500	1.54	2.10	2.98	0.32	44.0	8.5	7	19.80
K294793		2.23			0.50	7.36	96.7	870	1.60	1.88	2.42	0.26	42.5	34.7	9	10.05
K294794		2.72			3.99	7.00	446	630	1.66	5.18	2.26	2.21	46.7	11.8	8	16.35
K294795		1.89			1.66	6.76	88.5	1150	1.70	4.83	2.75	0.45	44.8	14.1	8	11.45
K294796		0.26	100	1.000	>100	5.47	244	590	0.65	5.06	1.47	25.1	20.4	11.5	62	0.85
K294797		3.81			1.37	6.78	66.1	2170	1.65	3.50	2.70	0.64	46.5	9.6	9	10.10
K294798		2.32			0.85	6.87	59.0	1900	1.56	1.71	2.80	1.69	45.9	10.4	10	8.13
K294799		4.50			0.32	7.20	58.5	2090	1.66	0.63	1.84	0.46	44.5	11.0	9	9.66
K294800		4.99			0.68	6.99	111.0	2140	1.74	1.20	2.37	0.60	43.5	10.2	9	8.36

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245913

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K294761		42.2	3.95	16.95	0.20	1.5	0.522	3.63	22.7	8.2	1.22	2650	2.05	0.05	8.5	6.2
K294762		98.5	4.44	17.50	0.17	1.3	0.629	3.57	18.5	6.4	1.04	3450	1.93	0.05	8.7	5.9
K294763		99.7	5.30	17.20	0.19	1.5	0.502	3.28	24.7	9.5	0.79	3720	1.77	0.04	8.3	7.3
K294764		211	3.39	16.65	0.17	1.0	0.287	2.98	25.2	49.4	0.87	1460	1.27	0.04	7.4	2.6
K294765		167.5	3.85	17.65	0.18	0.9	0.489	3.73	24.0	6.2	0.83	3160	2.48	0.04	7.3	6.2
K294766		94.4	7.37	18.70	0.14	2.0	0.671	3.15	4.7	10.9	0.26	182	2.35	0.04	7.0	9.4
K294767		79.8	8.42	15.10	0.13	1.6	0.584	2.56	11.4	10.1	0.34	369	3.55	0.03	6.5	8.9
K294768		4.0	0.13	0.48	0.12	0.1	0.005	0.04	1.2	0.9	1.82	110	0.11	0.05	0.3	0.8
K294769		15.0	2.62	19.20	0.24	3.7	0.046	2.77	26.2	26.5	1.03	948	1.49	0.04	10.1	5.8
K294770		18.7	2.50	17.75	0.24	3.3	0.035	2.71	26.4	26.9	0.94	946	0.91	0.04	9.1	5.3
K294771		12.1	2.46	17.90	0.25	3.4	0.038	2.95	31.3	38.8	1.08	947	1.04	0.04	9.3	5.9
K294772		10.1	2.54	17.70	0.25	3.3	0.034	2.93	29.8	52.0	1.01	991	1.26	0.04	9.1	5.4
K294773		11.5	2.11	17.20	0.22	3.2	0.030	2.50	29.1	65.3	0.95	880	1.38	0.06	8.9	5.1
K294774		99.2	7.10	14.15	0.13	2.4	0.657	1.89	23.4	83.0	0.97	949	2.50	0.04	6.9	5.1
K294775		124.5	4.42	17.45	0.18	1.0	0.246	3.64	29.9	5.7	0.66	2420	1.96	0.04	7.4	2.6
K294776		185.5	3.88	17.45	0.18	1.1	0.177	3.25	29.9	13.7	0.56	1340	1.48	0.04	7.4	3.1
K294777		245	3.91	17.45	0.17	1.1	0.197	3.28	30.2	11.7	0.57	1720	1.41	0.04	7.5	3.2
K294778		39.2	2.93	17.80	0.17	1.1	0.089	2.37	27.7	36.8	0.51	789	1.41	0.06	8.4	2.1
K294779		42.4	2.81	16.55	0.19	0.9	0.134	2.45	30.6	36.8	0.40	763	1.43	0.04	7.3	2.5
K294780		102.5	3.32	18.20	0.19	1.0	0.153	2.80	19.9	28.6	0.69	1050	2.08	0.07	8.5	2.8
K294781		14.1	4.09	17.10	0.16	0.8	0.260	3.51	23.9	6.8	0.87	1080	1.99	0.05	6.8	2.5
K294782		119.5	3.51	17.30	0.19	1.0	0.196	2.92	21.5	16.0	0.89	1060	3.70	0.43	7.4	2.6
K294783		130.5	3.19	15.65	0.19	1.0	0.191	2.60	19.7	10.2	0.68	1060	2.13	1.31	7.2	2.4
K294784		6010	5.65	12.45	0.14	1.5	0.434	1.12	9.1	13.0	1.11	1690	20.6	1.60	3.2	28.6
K294785		104.5	3.40	16.30	0.18	1.0	0.263	2.51	22.5	10.5	0.73	973	1.82	1.56	7.6	2.9
K294786		83.3	4.13	14.65	0.19	0.9	0.317	3.19	24.2	7.4	0.64	1080	1.79	0.07	6.8	2.5
K294787		93.1	3.72	16.85	0.15	1.0	0.351	3.22	26.4	8.7	0.67	1070	2.51	0.04	6.8	2.9
K294788		617	4.00	16.05	0.18	0.9	0.852	3.43	27.1	6.5	0.83	1110	2.43	0.05	6.4	2.5
K294789		105.0	3.21	16.35	0.21	1.0	0.197	2.68	21.2	28.7	0.70	1100	6.98	0.06	7.1	2.7
K294790		78.4	3.42	15.65	0.19	0.9	0.238	2.69	24.8	20.9	1.02	1070	2.29	0.05	6.6	2.6
K294791		79.8	3.46	14.20	0.07	0.9	0.226	2.70	21.9	21.0	1.01	1100	2.23	0.04	6.3	2.6
K294792		123.0	3.07	14.80	0.08	1.0	0.178	2.36	22.2	38.6	0.73	998	1.46	0.05	6.3	2.2
K294793		32.6	3.77	15.80	0.08	1.0	0.124	2.72	22.0	30.7	0.87	958	1.20	0.06	7.3	2.6
K294794		144.0	3.71	14.25	0.08	0.9	0.242	2.95	25.1	17.4	0.91	1240	1.61	0.04	5.8	2.1
K294795		94.2	3.91	16.05	0.08	0.9	0.225	3.07	21.9	22.2	0.82	1390	2.40	0.23	6.9	2.6
K294796		5950	5.67	11.70	0.08	1.6	0.444	1.11	8.5	13.7	1.11	1710	21.2	1.61	3.1	26.6
K294797		136.0	3.39	14.90	0.08	1.0	0.260	2.66	23.7	16.4	0.68	942	1.97	0.69	6.4	2.1
K294798		54.5	3.42	15.70	0.08	1.1	0.240	2.60	23.5	10.7	0.73	886	1.05	1.30	7.4	2.3
K294799		20.5	2.81	14.85	0.09	1.2	0.061	2.70	23.0	18.2	0.71	515	1.55	1.15	8.1	2.0
K294800		40.9	2.94	15.00	0.07	1.1	0.102	2.36	21.7	16.6	0.71	648	1.92	1.38	7.5	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245913

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K294761		840	130.0	255	<0.002	0.91	10.40	10.5	1	2.1	107.0	0.66	0.11	9.42	0.257	3.69
K294762		770	104.0	229	<0.002	1.27	7.20	8.9	<1	1.9	50.1	0.65	0.28	8.08	0.235	3.68
K294763		790	606	210	<0.002	3.00	9.39	11.3	1	3.9	35.2	0.63	0.67	10.85	0.255	3.15
K294764		610	36.6	149.0	<0.002	1.00	9.60	11.1	1	2.3	110.5	0.61	0.26	12.25	0.262	2.66
K294765		620	143.5	244	<0.002	2.31	18.65	11.2	1	3.5	43.2	0.58	0.33	10.55	0.259	3.56
K294766		730	768	145.5	<0.002	7.97	37.7	11.0	1	16.3	17.0	0.53	0.68	7.89	0.196	2.80
K294767		700	584	114.0	<0.002	9.19	19.20	9.3	4	10.1	32.3	0.51	1.10	6.72	0.191	1.94
K294768		70	3.4	1.6	<0.002	0.03	0.22	0.3	1	<0.2	80.3	<0.05	<0.05	0.13	0.005	0.03
K294769		1040	77.4	97.8	<0.002	0.10	19.30	6.5	<1	1.5	102.5	0.74	<0.05	8.26	0.297	2.67
K294770		940	30.9	109.5	<0.002	0.09	15.20	6.2	<1	1.5	138.0	0.67	<0.05	8.53	0.273	2.64
K294771		960	19.0	143.5	<0.002	0.13	11.85	6.6	1	1.4	129.5	0.70	<0.05	9.20	0.271	3.19
K294772		1000	14.0	137.0	<0.002	0.20	11.30	6.5	<1	1.3	134.5	0.69	<0.05	9.12	0.281	3.14
K294773		910	13.2	123.0	<0.002	0.15	20.5	6.5	<1	1.3	156.5	0.65	<0.05	8.82	0.263	2.84
K294774		750	229	105.0	<0.002	6.32	30.5	5.5	2	5.0	128.5	0.50	3.50	7.36	0.215	2.05
K294775		570	261	196.0	<0.002	3.40	29.9	11.5	1	4.2	29.8	0.60	0.25	13.60	0.255	3.27
K294776		590	213	170.5	<0.002	2.84	31.3	11.7	<1	3.9	42.5	0.59	0.17	14.25	0.250	2.69
K294777		600	239	175.5	<0.002	2.85	42.1	11.8	<1	3.8	40.0	0.60	0.15	14.60	0.247	2.83
K294778		680	13.5	108.0	<0.002	0.20	20.1	12.6	<1	1.7	83.8	0.77	<0.05	14.75	0.291	1.43
K294779		580	19.0	150.0	<0.002	0.41	42.4	11.2	1	2.1	67.0	0.62	<0.05	15.25	0.240	1.84
K294780		640	15.9	106.5	<0.002	0.60	15.40	11.6	1	2.0	99.5	0.85	0.14	10.80	0.281	1.81
K294781		610	72.6	185.0	<0.002	1.93	4.53	11.1	<1	3.6	83.8	0.68	0.38	12.35	0.236	2.60
K294782		610	15.9	127.0	0.002	0.98	11.85	10.8	1	4.3	179.0	0.62	0.19	11.10	0.252	2.02
K294783		600	18.9	96.8	0.002	0.59	13.10	10.8	<1	1.9	304	0.63	0.16	10.40	0.261	1.50
K294784		440	9910	28.6	0.008	2.32	446	12.2	2	1.8	190.5	0.21	1.31	2.03	0.244	0.58
K294785		640	24.8	113.5	<0.002	0.53	8.14	11.5	1	2.3	264	0.68	0.25	10.25	0.273	1.53
K294786		580	87.3	180.5	<0.002	3.02	16.05	10.1	2	3.7	49.4	0.56	0.39	10.25	0.248	2.43
K294787		540	249	191.0	0.002	2.54	16.00	10.2	1	4.7	38.6	0.58	0.46	11.50	0.226	2.80
K294788		580	44.9	191.5	<0.002	1.59	32.0	10.4	1	2.9	79.8	0.56	0.58	12.70	0.226	2.83
K294789		590	23.9	105.5	0.007	0.74	13.10	10.7	<1	2.3	145.5	0.57	0.17	9.88	0.255	1.88
K294790		570	41.1	118.0	0.004	1.01	13.35	10.5	<1	2.3	171.5	0.51	0.29	9.93	0.235	1.89
K294791		570	41.3	103.5	0.003	1.01	12.10	9.4	<1	2.2	169.0	0.49	0.26	8.72	0.234	1.72
K294792		580	23.8	88.9	<0.002	0.74	15.70	9.6	1	1.6	152.5	0.49	0.27	9.85	0.232	1.42
K294793		660	22.3	116.0	<0.002	1.70	10.05	11.0	1	1.8	151.5	0.53	0.42	10.55	0.260	1.67
K294794		550	181.5	176.5	<0.002	1.82	33.1	9.7	1	2.3	99.8	0.46	0.90	10.80	0.213	2.10
K294795		600	48.8	139.0	<0.002	1.55	11.70	11.0	1	2.0	139.5	0.51	0.55	9.67	0.242	2.05
K294796		450	>10000	29.2	0.010	2.29	446	11.7	1	1.8	190.5	0.21	1.23	1.91	0.241	0.48
K294797		560	53.9	114.0	<0.002	1.13	9.63	9.9	1	2.2	182.0	0.53	0.38	11.00	0.210	1.63
K294798		560	95.1	111.0	<0.002	1.27	5.09	10.3	1	2.2	267	0.53	0.28	11.15	0.242	1.52
K294799		540	28.4	107.0	0.002	0.24	6.40	9.5	<1	1.5	205	0.77	0.08	14.75	0.243	1.15
K294800		600	38.9	94.9	<0.002	0.67	12.60	10.4	1	2.1	230	0.59	0.19	11.55	0.252	1.19

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245913

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K294761		3.6	79	2.0	13.3	454	46.4	0.048
K294762		2.6	74	2.1	12.0	208	46.8	0.011
K294763		3.4	80	4.3	10.8	429	47.5	0.046
K294764		3.8	71	2.8	16.1	129	26.0	0.021
K294765		2.6	72	3.8	13.1	199	22.5	0.049
K294766		4.6	80	8.5	8.1	758	69.4	0.496
K294767		4.0	69	6.5	7.8	1050	54.1	0.321
K294768		0.2	1	0.1	2.4	7	1.9	<0.005
K294769		4.0	62	1.9	13.4	242	142.0	0.010
K294770		4.3	59	1.4	14.1	147	126.0	<0.005
K294771		4.6	57	1.8	14.1	70	130.5	<0.005
K294772		5.3	60	2.6	13.3	65	131.5	<0.005
K294773		4.6	58	1.9	13.7	97	124.5	<0.005
K294774		6.2	48	2.3	11.7	1100	96.7	0.372
K294775		3.6	72	5.2	12.2	478	29.3	0.055
K294776		8.3	71	4.7	14.1	330	28.1	0.042
K294777		7.8	71	4.6	14.5	435	28.0	0.054
K294778		4.9	80	3.9	18.6	73	27.4	0.008
K294779		2.8	65	4.0	17.3	108	23.1	0.027
K294780		4.1	77	2.9	14.7	85	23.1	0.058
K294781		2.6	70	2.4	13.5	85	18.9	0.034
K294782		4.6	72	2.3	13.8	70	23.9	0.065
K294783		4.3	75	2.5	14.5	80	21.9	0.278
K294784		1.5	79	0.6	14.6	4960	52.3	0.301
K294785		4.0	78	1.9	15.6	79	26.6	0.203
K294786		4.5	66	3.5	12.1	91	25.3	0.226
K294787		3.5	65	3.6	12.2	149	23.7	0.082
K294788		3.0	67	3.1	12.4	108	21.1	0.061
K294789		3.7	70	2.6	16.4	108	27.6	0.037
K294790		3.4	66	2.4	15.6	116	25.1	0.031
K294791		3.1	70	2.1	12.8	116	24.2	0.035
K294792		2.3	70	2.1	13.2	82	27.2	0.022
K294793		2.7	77	2.3	13.3	65	28.7	0.021
K294794		2.9	69	2.3	11.7	247	26.7	0.058
K294795		5.8	79	2.4	13.3	99	27.2	0.032
K294796		1.3	81	0.6	13.5	5030	51.0	0.295
K294797		4.1	69	1.8	12.0	117	30.0	0.030
K294798		3.8	69	1.7	13.0	184	31.1	0.014
K294799		4.6	66	1.8	13.7	78	32.2	0.013
K294800		3.0	71	1.5	12.4	106	31.9	0.065

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245913

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE WH19245914

Project: Klaza

P.O. No.: 19-057

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245914

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K294801		2.24			1.03	6.52	65.3	2170	1.51	2.29	2.89	0.32	39.5	8.4	11	10.75
K294802		5.05			0.54	7.16	56.7	2010	1.55	1.29	2.55	0.53	41.2	14.4	11	10.55
K294803		3.13			0.39	7.26	53.1	2500	1.80	1.21	2.03	0.17	53.1	9.2	10	22.8
K294804		4.58			0.63	7.44	43.7	2110	1.65	1.06	1.73	0.37	47.0	7.1	10	15.00
K294805		4.16			0.23	7.48	27.9	2430	1.69	0.55	1.94	0.24	48.2	19.0	12	8.85
K294806		<0.02			0.28	7.90	27.9	2590	1.64	0.61	2.07	0.27	46.7	18.7	14	9.28
K294807		1.92			4.33	6.92	960	1640	1.55	20.3	1.50	4.39	43.7	21.0	12	9.06
K294808		4.39			0.32	8.38	53.6	2090	1.35	0.49	0.82	0.72	59.9	7.2	12	10.20
K294809		1.71			0.62	8.50	42.3	2300	1.44	0.35	1.15	0.45	48.1	7.0	14	13.15
K294810		1.76			31.8	7.41	7280	650	1.70	21.1	1.81	6.72	46.4	9.2	11	17.00
K294811		5.02			0.02	0.19	8.6	30	0.11	0.01	31.8	0.02	1.51	0.6	2	0.11
K294812		1.93			0.32	7.65	27.4	2270	1.33	0.91	2.62	0.20	41.5	5.5	11	7.84
K294813		2.90			0.28	6.56	30.9	1260	1.86	0.56	2.39	0.25	56.3	6.6	11	11.55
K294814		2.85			0.22	7.75	80.4	2100	1.82	0.34	2.47	0.46	52.2	6.6	13	15.00
K294815		1.07			3.55	7.01	2360	820	1.47	3.83	2.80	2.11	43.3	4.6	12	12.85
K294816		2.81			0.27	7.76	16.3	2860	1.52	0.71	3.06	0.32	47.7	10.3	15	7.97
K294817		0.26			39.6	5.84	2530	1150	1.32	36.3	1.70	45.2	37.0	18.0	23	10.15
K294818		5.12			0.25	7.35	17.0	4160	1.69	0.78	3.06	0.16	45.3	10.7	17	10.05
K294819		4.61			0.35	7.83	23.3	2660	1.51	1.15	3.37	0.11	42.3	9.6	15	8.27
K294820		2.46			0.60	7.61	351	1760	1.50	1.24	3.04	1.18	48.9	7.2	13	13.45
K294821		3.87			0.23	7.88	17.1	2590	1.63	0.51	2.94	0.40	45.4	9.3	15	7.31
K294822		2.40			0.25	7.82	17.1	2550	1.55	0.35	2.92	0.57	45.3	6.8	15	7.39
K294823		1.54			0.61	7.65	145.0	960	1.52	3.25	3.07	0.14	51.8	7.1	13	10.30
K294824		4.90			0.20	7.81	9.5	2650	1.67	0.22	2.70	0.26	47.7	8.6	14	6.58
K294825		0.26	104	1.020	>100	5.62	245	630	0.74	5.33	1.51	24.7	19.60	12.8	66	0.89
K294826		4.54			0.39	8.03	15.8	2680	1.68	0.61	3.11	0.33	47.5	10.2	15	5.80
K294827		4.88			0.84	7.73	280	2160	1.57	2.09	2.89	0.71	45.8	9.8	16	10.25
K294828		4.66			0.64	7.97	9.2	2420	1.76	0.31	2.99	0.17	50.1	8.7	16	6.85
K294829		5.45			0.22	7.64	9.9	2240	1.58	0.28	2.64	0.35	50.2	8.0	15	7.90
K294830		5.03			0.15	7.83	10.4	2500	1.60	0.45	3.11	0.18	44.6	14.4	18	5.89
K294831		2.44			0.21	7.98	10.2	2620	1.64	0.30	3.08	0.48	49.0	9.2	17	8.33
K294832		2.21			0.26	7.84	12.7	2640	1.65	0.42	3.07	0.75	43.9	9.5	17	7.35
K294833		2.97			0.08	7.64	6.3	2340	1.67	0.18	2.88	0.20	47.4	7.3	16	11.35
K294834		2.82			0.49	7.16	46.4	1810	1.45	1.69	2.87	0.15	51.4	25.4	13	17.70
K294835		1.97			0.14	7.20	5.2	2030	1.59	0.16	2.43	0.50	49.0	6.7	15	8.56
K294836		3.32			1.45	7.22	143.0	1480	1.64	1.70	1.97	1.37	57.7	10.3	12	19.10
K294837		2.24			5.71	6.03	9690	780	1.35	12.30	1.09	8.24	42.4	8.7	11	7.69
K294838		1.65			1.53	7.53	84.5	930	1.73	3.01	2.81	0.55	49.5	9.8	13	17.85
K294839		3.17			0.10	7.83	15.3	2560	1.73	0.30	3.34	0.13	45.6	8.6	17	7.95
K294840		1.13			0.57	7.29	21.4	2190	1.67	0.71	3.02	0.61	43.1	8.3	15	19.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245914

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K294801		153.5	3.02	15.95	0.09	0.9	0.268	2.59	19.6	6.8	0.53	1000	2.07	1.21	6.7	2.2
K294802		40.4	2.95	16.80	0.11	1.2	0.114	2.59	19.5	35.3	0.55	795	1.47	0.83	8.5	2.8
K294803		22.4	3.19	17.15	0.11	1.1	0.109	2.66	28.9	13.7	0.73	862	1.16	0.11	7.9	3.1
K294804		44.3	2.99	16.70	0.10	1.0	0.092	2.66	23.8	23.9	0.56	767	6.74	0.43	8.1	2.3
K294805		23.1	2.81	18.10	0.10	1.0	0.089	2.69	24.4	16.6	0.60	681	2.80	1.25	8.7	2.5
K294806		25.9	3.06	17.40	0.14	1.0	0.087	2.77	23.2	16.0	0.64	725	2.91	1.27	8.6	2.7
K294807		40.1	7.00	16.25	0.15	0.9	0.323	3.35	23.4	6.5	0.67	702	3.66	0.04	6.6	2.7
K294808		33.4	3.27	17.85	0.13	1.0	0.092	2.98	31.8	25.5	0.42	919	2.33	0.08	8.6	2.4
K294809		89.2	2.99	18.50	0.14	1.0	0.074	3.04	23.7	20.3	0.44	898	2.44	0.19	8.8	2.2
K294810		994	6.40	16.80	0.14	0.9	0.627	3.29	24.0	12.4	0.68	1660	5.96	0.05	7.5	2.8
K294811		3.3	0.16	0.60	0.09	0.1	<0.005	0.05	1.3	1.2	1.85	121	0.05	0.07	0.4	0.5
K294812		93.9	3.03	15.50	0.13	1.1	0.120	2.84	20.4	21.1	0.71	867	1.64	0.94	7.8	2.0
K294813		37.8	1.82	13.95	0.16	2.2	0.126	2.88	30.0	8.4	0.67	581	2.63	1.20	7.5	1.5
K294814		15.7	3.05	17.45	0.14	1.3	0.062	3.01	25.8	11.5	0.71	741	2.14	1.61	9.1	2.6
K294815		54.9	5.85	15.05	0.14	0.9	0.204	3.22	23.0	8.4	1.05	1200	1.61	0.18	6.8	2.3
K294816		17.8	3.35	17.10	0.13	1.3	0.085	2.76	23.9	9.1	0.89	683	2.31	2.14	8.4	5.8
K294817		1175	9.13	14.40	0.12	0.9	1.520	2.62	19.3	17.5	0.69	2300	17.15	0.06	5.0	15.6
K294818		32.1	2.92	17.20	0.13	1.3	0.070	2.94	22.0	9.3	0.77	679	2.81	1.76	8.5	2.9
K294819		38.7	2.89	17.20	0.13	1.2	0.094	2.98	20.7	8.9	0.78	726	2.47	1.64	8.4	2.6
K294820		17.9	3.03	16.75	0.13	1.2	0.120	3.30	23.9	14.2	0.72	840	2.55	0.69	7.8	2.5
K294821		42.4	3.36	17.35	0.13	1.0	0.069	2.71	22.5	10.3	0.86	715	1.70	2.21	8.3	2.8
K294822		36.2	3.40	16.70	0.12	1.0	0.068	2.58	22.3	10.8	0.93	770	1.89	2.20	8.2	2.9
K294823		27.5	3.93	16.40	0.14	1.0	0.196	3.24	27.1	10.6	0.93	1490	1.67	0.79	7.5	2.6
K294824		34.3	3.26	17.25	0.13	1.0	0.055	2.51	23.0	14.9	0.94	728	1.31	2.10	8.6	2.8
K294825		6140	5.81	12.30	0.13	1.6	0.423	1.14	9.2	14.2	1.15	1780	20.8	1.63	3.4	29.8
K294826		50.2	3.56	17.85	0.11	1.0	0.112	2.62	23.5	13.5	1.02	837	1.76	2.40	8.8	3.1
K294827		58.0	3.95	16.80	0.13	0.9	0.100	2.86	22.7	11.1	0.87	994	2.14	1.51	7.8	2.7
K294828		145.0	3.18	17.40	0.14	1.2	0.069	2.73	24.8	11.6	0.92	692	9.25	2.45	8.7	2.8
K294829		27.4	2.94	16.35	0.14	1.2	0.053	3.00	25.7	12.0	0.77	685	1.61	2.25	8.1	2.5
K294830		16.4	3.55	17.30	0.13	1.1	0.056	2.56	22.0	11.3	0.95	786	1.94	2.35	8.5	3.0
K294831		17.2	3.45	17.05	0.14	1.0	0.079	2.59	23.8	11.9	0.96	820	1.66	2.40	8.5	3.1
K294832		20.9	3.45	16.85	0.12	1.0	0.080	2.57	21.4	11.5	0.96	819	1.62	2.40	8.3	3.0
K294833		9.9	3.02	17.05	0.13	1.1	0.047	2.52	22.9	13.3	0.74	645	2.41	2.12	8.7	2.8
K294834		59.8	3.92	15.80	0.14	0.9	0.157	2.50	26.6	19.8	0.96	975	1.87	0.34	7.1	2.5
K294835		17.5	2.62	15.25	0.11	1.3	0.057	3.03	25.1	8.6	0.69	585	1.74	2.11	7.8	2.2
K294836		53.6	3.59	15.75	0.14	1.3	0.239	3.02	31.5	15.8	0.78	1560	1.84	0.28	7.5	2.3
K294837		50.3	9.26	14.25	0.14	1.0	0.338	2.78	22.4	8.2	0.57	1160	5.19	0.04	5.9	2.4
K294838		36.8	3.88	17.35	0.14	0.9	0.098	3.29	25.6	11.5	1.14	1740	1.80	0.09	8.0	2.9
K294839		13.6	3.50	17.35	0.13	1.0	0.056	2.51	21.4	10.0	0.96	773	2.40	2.37	9.1	3.1
K294840		28.3	3.43	16.70	0.15	1.0	0.068	2.93	21.5	12.2	0.85	1120	2.15	1.22	8.3	2.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245914

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K294801		560	34.5	113.5	0.002	1.04	8.74	9.5	<1	2.1	200	0.51	0.37	9.74	0.214	1.81
K294802		630	24.0	86.2	<0.002	0.75	5.85	11.0	<1	2.1	208	0.65	0.19	11.05	0.261	1.34
K294803		580	20.3	107.5	<0.002	0.89	6.69	10.6	<1	1.9	75.9	0.60	0.18	11.85	0.241	1.47
K294804		640	37.0	96.5	0.002	0.73	8.34	10.6	<1	2.0	121.0	0.61	0.13	10.90	0.260	1.25
K294805		620	23.2	109.0	0.002	0.42	6.22	11.1	<1	3.0	245	0.64	0.08	11.95	0.261	1.33
K294806		660	24.2	107.0	0.002	0.45	5.99	12.3	1	3.1	257	0.67	0.10	13.25	0.280	1.32
K294807		560	421	224	0.004	6.59	16.20	11.4	3	4.8	43.3	0.53	2.34	11.85	0.223	2.72
K294808		740	46.8	133.0	0.002	0.35	9.71	14.1	<1	2.4	70.7	0.67	<0.05	15.45	0.310	1.51
K294809		710	35.5	132.0	<0.002	0.26	23.1	13.3	<1	2.6	86.6	0.67	<0.05	13.35	0.306	1.70
K294810		610	847	216	0.003	5.68	53.8	12.2	1	4.9	50.1	0.53	0.54	9.88	0.263	2.56
K294811		70	1.1	2.0	<0.002	<0.01	0.18	0.3	1	0.2	77.9	<0.05	<0.05	0.33	0.008	0.02
K294812		670	18.8	96.6	<0.002	0.47	5.39	10.8	1	1.9	216	0.57	0.10	11.05	0.289	1.37
K294813		290	14.3	149.5	0.002	0.28	7.58	6.0	<1	1.4	132.0	1.17	0.14	27.6	0.124	1.92
K294814		670	25.6	130.5	0.002	0.27	5.73	12.2	<1	2.1	297	0.80	0.06	14.35	0.277	1.49
K294815		590	266	189.5	<0.002	5.06	39.5	11.1	2	4.6	93.9	0.51	1.23	11.55	0.245	2.33
K294816		690	23.5	107.5	<0.002	0.32	2.92	13.0	1	2.0	420	0.64	0.08	12.65	0.301	1.23
K294817		460	1690	152.5	0.002	7.86	100.5	9.1	2	10.4	64.8	0.41	0.73	9.81	0.168	2.16
K294818		660	17.8	118.0	<0.002	0.38	4.47	12.2	<1	1.9	434	0.67	0.07	11.90	0.277	1.56
K294819		700	13.3	133.0	<0.002	0.50	5.21	12.7	1	1.9	338	0.62	0.16	11.05	0.290	1.84
K294820		650	94.5	161.0	<0.002	1.36	7.26	11.7	1	2.0	175.5	0.65	0.16	12.60	0.260	2.23
K294821		670	19.4	94.4	<0.002	0.31	2.56	12.2	<1	1.8	422	0.63	0.08	10.85	0.289	1.12
K294822		680	18.9	88.0	<0.002	0.16	2.90	12.2	<1	1.7	411	0.63	<0.05	12.20	0.290	1.04
K294823		660	18.2	195.5	<0.002	2.15	7.46	12.3	1	2.7	171.5	0.54	0.66	11.70	0.262	2.43
K294824		680	18.8	83.3	<0.002	0.09	2.32	12.4	<1	1.9	405	0.68	<0.05	11.65	0.300	0.99
K294825		470	>10000	29.0	0.010	2.36	467	13.1	1	2.0	195.5	0.22	1.24	2.02	0.251	0.50
K294826		720	29.0	86.1	<0.002	0.26	1.94	13.0	<1	2.4	462	0.66	0.13	11.45	0.306	1.03
K294827		660	70.1	116.0	<0.002	0.85	2.52	11.8	<1	3.4	308	0.59	0.14	11.55	0.273	1.44
K294828		660	20.8	92.2	0.022	0.07	1.03	12.1	1	2.2	415	0.70	<0.05	14.00	0.282	1.00
K294829		600	22.1	105.5	<0.002	0.08	2.22	10.7	<1	1.8	361	0.72	<0.05	16.00	0.253	1.09
K294830		700	20.1	84.1	<0.002	0.32	1.47	12.2	<1	1.9	431	0.63	0.19	11.25	0.292	0.97
K294831		700	26.6	86.3	<0.002	0.11	1.29	12.2	<1	2.2	434	0.63	<0.05	11.20	0.301	1.05
K294832		690	35.2	82.7	<0.002	0.15	1.33	12.0	<1	2.2	433	0.62	0.05	11.55	0.294	1.10
K294833		660	20.0	88.5	<0.002	0.05	2.45	11.7	<1	1.8	386	0.66	<0.05	11.60	0.280	1.01
K294834		600	14.1	111.0	<0.002	1.27	17.40	10.7	1	3.9	120.0	0.54	0.83	13.55	0.238	1.47
K294835		560	22.9	96.6	<0.002	0.04	1.03	9.3	<1	1.7	329	0.70	<0.05	16.00	0.227	1.02
K294836		540	62.4	155.0	<0.002	1.41	13.75	10.0	<1	3.0	84.3	0.68	0.16	19.30	0.216	1.97
K294837		420	269	160.5	0.002	8.82	78.6	8.9	1	5.0	25.0	0.54	0.65	14.60	0.173	2.25
K294838		640	59.7	199.5	<0.002	2.37	10.40	12.5	1	2.8	92.9	0.53	0.42	9.25	0.268	2.80
K294839		720	17.3	81.5	<0.002	0.05	1.19	12.9	<1	1.9	443	0.69	<0.05	8.60	0.320	1.00
K294840		660	45.2	117.5	<0.002	0.91	3.82	11.8	1	2.1	270	0.68	0.09	9.63	0.282	1.68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19245914

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K294801		5.0	68	1.7	11.5	86	25.5	0.025
K294802		3.7	70	1.9	14.9	99	32.3	0.020
K294803		4.4	69	1.5	14.7	61	30.4	0.025
K294804		3.8	72	1.9	15.3	92	28.1	0.033
K294805		3.7	71	3.2	16.7	67	26.1	0.016
K294806		3.9	77	3.5	17.2	71	24.0	0.016
K294807		4.9	73	3.8	11.0	494	21.5	0.493
K294808		2.6	87	8.7	17.7	122	25.9	0.033
K294809		3.4	82	4.4	17.1	84	24.4	0.090
K294810		4.0	73	4.5	14.0	649	23.9	1.365
K294811		0.2	2	0.1	2.6	5	2.2	<0.005
K294812		2.7	77	2.8	14.8	81	30.3	0.014
K294813		7.3	35	0.9	11.4	68	53.9	0.017
K294814		4.8	77	1.9	16.3	102	33.8	0.007
K294815		4.8	70	3.0	11.9	261	25.8	0.243
K294816		3.5	85	1.4	17.9	89	35.0	0.006
K294817		5.3	57	7.5	10.0	3380	24.0	1.810
K294818		3.6	78	1.4	16.3	60	35.6	0.014
K294819		3.3	82	1.6	15.8	59	30.8	0.013
K294820		4.0	76	2.3	13.8	144	31.5	0.201
K294821		3.5	80	1.3	16.5	95	24.9	0.009
K294822		3.6	80	1.4	16.8	125	24.8	0.007
K294823		4.3	76	2.8	14.9	61	22.8	0.058
K294824		3.1	82	2.1	17.2	76	24.1	0.008
K294825		1.3	84	0.6	14.2	5320	56.2	0.281
K294826		3.5	85	1.4	18.8	85	25.2	0.022
K294827		3.5	77	2.6	16.1	123	23.7	0.080
K294828		4.3	77	1.5	18.2	60	29.2	0.030
K294829		4.5	69	1.4	16.5	80	30.6	0.011
K294830		3.3	81	1.9	17.1	68	25.9	0.005
K294831		3.3	83	1.4	17.4	104	25.2	0.005
K294832		4.2	82	1.5	17.0	132	24.6	0.008
K294833		3.3	78	1.4	17.2	60	27.9	<0.005
K294834		4.4	67	2.3	15.4	61	25.5	0.019
K294835		4.5	64	1.0	15.6	99	32.8	<0.005
K294836		6.2	61	2.6	14.9	146	34.3	0.047
K294837		5.0	52	5.0	9.0	693	35.5	0.631
K294838		5.1	75	2.6	15.6	75	23.0	0.027
K294839		3.2	86	1.1	17.8	58	24.3	0.010
K294840		3.8	77	1.6	15.5	97	23.3	0.010

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19245914

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247965

Project: Klaza

P.O. No.: 19-058

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247965

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	As-OG62 As % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
K294841		4.77				0.13	7.30	6.1	2380	1.42	0.25	2.93	0.14	37.5	7.6	14
K294842		1.03				1.77	6.90	147.5	1300	1.41	1.42	1.86	8.44	48.0	5.4	10
K294843		4.16				0.13	7.24	4.9	2470	1.47	0.25	3.03	0.21	35.4	8.6	13
K294844		2.12				0.47	6.85	19.3	1940	1.26	0.94	2.80	0.14	36.6	7.6	11
K294845		2.65				0.34	7.10	12.6	2230	1.45	0.56	2.90	0.57	37.1	8.2	14
K294846		2.27				0.37	7.05	12.3	2190	1.44	0.69	2.92	1.12	39.2	8.5	14
K294847		4.56				0.09	6.95	5.4	2360	1.51	0.18	2.91	0.12	38.6	8.0	13
K294848		3.56				0.18	7.07	13.4	2220	1.44	0.50	2.71	0.26	37.9	7.8	12
K294849		2.54				0.55	7.32	141.0	1820	1.50	0.38	2.30	3.64	50.5	7.7	13
K294850		1.73			1.415	13.00	4.94	>10000	130	1.07	17.70	2.28	113.5	20.5	10.0	7
K294851		5.19				0.13	7.37	30.6	2310	1.48	0.30	2.61	0.37	39.2	8.8	11
K294852		4.31				0.20	7.20	23.3	2300	1.44	0.30	2.64	0.32	34.2	7.0	11
K294853		<0.02				0.14	7.17	6.5	2270	1.50	0.26	2.61	0.15	31.9	6.8	11
K294854		5.92				0.11	7.10	5.8	2260	1.44	0.60	2.76	0.14	37.4	7.3	11
K294855		5.78				0.05	7.31	4.2	2270	1.55	0.12	2.44	0.08	43.6	7.3	11
K294856		4.78				0.07	7.05	9.0	2330	1.49	0.15	2.87	0.09	36.9	8.1	12
K294857		3.89				0.04	7.19	3.2	2370	1.49	0.10	2.83	0.09	35.6	8.0	13
K294858		2.38				0.31	7.52	28.7	2550	1.45	1.82	1.98	0.33	45.1	5.0	10
K294859		4.83				0.29	6.89	31.5	2300	1.50	1.12	2.77	0.17	36.2	5.7	13
K294860		2.06				0.12	7.23	5.7	2830	1.48	0.63	2.63	0.12	41.0	6.0	12
K294861		3.28				0.65	6.82	58.1	1920	1.48	1.05	2.59	0.96	36.9	5.9	9
K294862		0.26	103	1.040		>100	5.54	251	620	0.69	5.13	1.45	24.6	18.15	11.8	65
K294863		4.26				0.33	7.10	43.6	2400	1.45	0.97	2.72	0.14	44.4	5.2	9
K294864		2.17				0.49	6.90	110.5	2120	1.50	0.92	2.36	0.44	47.5	4.2	8
K294865		2.48				1.38	6.94	132.5	1100	1.43	1.69	2.68	1.35	43.9	10.0	9
K294866		4.99				0.01	0.16	0.4	40	0.06	0.03	32.7	<0.02	1.25	0.9	2
K294867		2.09				0.58	6.95	47.8	1370	1.33	1.81	2.38	0.28	42.4	4.1	9
K294868		3.58				2.15	6.77	57.2	470	1.20	22.1	1.90	0.41	45.9	9.8	9
K294869		4.92				0.88	7.12	92.4	1700	1.40	5.89	2.50	0.51	43.0	5.3	9
K294870		1.66				23.7	6.40	773	1300	1.26	5.93	4.05	36.1	37.3	6.1	9
K294871		1.79				0.78	6.74	45.3	1990	1.61	0.54	2.46	2.59	38.2	5.5	10
K294872		3.36				0.62	7.29	33.0	2080	1.60	1.35	2.51	1.24	45.5	5.3	10
K294873		3.80				0.28	7.05	33.5	2450	1.84	0.18	2.55	0.36	59.7	6.4	30
K294874		0.26				39.1	5.63	2520	180	1.11	37.9	1.63	45.7	33.3	16.6	25
K294875		4.43				0.20	7.25	34.0	1550	1.73	0.24	2.60	0.17	63.4	6.3	30
K294876		2.90				0.58	6.87	51.1	2640	1.59	0.27	3.77	0.27	59.8	7.8	24
K294877		4.77				0.38	7.01	23.0	2450	1.75	0.11	2.24	0.21	55.8	5.7	29
K294878		3.02				1.94	6.71	114.0	1500	1.70	1.65	2.60	11.65	39.5	7.1	15
K294879		3.71				1.59	7.21	608	980	1.60	3.80	2.50	0.33	43.4	7.6	11
K294880		2.43				1.63	7.03	149.5	1730	1.45	21.6	2.13	4.48	43.5	6.7	9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247965

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K294841		6.80	11.5	3.00	15.35	0.06	1.0	0.051	2.46	18.2	9.2	0.83	714	2.21	2.28	7.6
K294842		16.80	18.8	3.05	14.45	0.09	1.4	0.252	3.29	25.9	12.4	0.74	1520	1.87	0.44	7.3
K294843		7.43	21.1	3.18	16.50	0.08	1.0	0.058	2.39	16.5	10.2	0.90	763	2.40	2.35	8.2
K294844		29.2	47.4	2.82	15.65	0.08	0.9	0.109	2.48	17.6	28.8	0.84	771	1.78	1.02	7.5
K294845		9.60	101.5	3.04	15.80	0.09	1.0	0.076	2.43	18.3	10.7	0.87	842	1.44	2.06	7.7
K294846		9.82	110.5	2.98	16.25	0.09	1.0	0.075	2.42	18.3	9.4	0.86	863	1.46	2.02	7.6
K294847		7.65	14.8	2.98	16.10	0.09	1.0	0.047	2.34	18.7	10.0	0.81	736	1.47	2.21	8.0
K294848		11.10	13.0	2.90	15.15	0.09	1.0	0.057	2.68	19.1	10.3	0.74	772	1.76	1.94	7.6
K294849		12.65	25.8	3.09	15.70	0.10	1.0	0.152	2.74	26.5	11.3	0.70	1060	1.45	1.31	7.6
K294850		8.69	153.0	15.00	11.65	0.11	0.6	1.760	2.17	9.4	9.6	0.81	2690	2.45	0.04	4.3
K294851		10.65	11.8	3.06	17.15	0.09	1.1	0.054	2.50	18.5	14.0	0.81	635	2.18	2.00	8.4
K294852		9.09	16.4	2.97	15.40	0.08	1.0	0.061	2.58	16.6	13.2	0.76	575	1.72	2.11	7.8
K294853		8.92	15.4	2.92	15.40	0.07	1.0	0.060	2.57	15.7	13.3	0.75	566	1.63	2.12	7.7
K294854		8.61	9.9	2.88	15.25	0.08	1.0	0.046	2.56	18.3	12.6	0.84	634	2.53	2.23	7.9
K294855		8.71	6.2	2.87	15.65	0.11	1.1	0.042	2.58	22.3	15.4	0.89	568	4.07	2.17	8.2
K294856		7.69	8.7	2.95	16.10	0.09	1.0	0.049	2.52	17.8	12.7	0.81	654	2.70	2.23	8.1
K294857		7.44	6.8	2.97	16.25	0.10	1.0	0.042	2.41	17.1	13.0	0.86	626	5.04	2.34	7.9
K294858		8.22	46.5	3.18	15.30	0.10	1.2	0.178	2.46	23.5	19.3	0.54	804	1.71	2.17	7.5
K294859		6.56	27.5	3.23	15.40	0.09	1.2	0.133	2.53	17.5	14.8	0.78	790	1.35	2.28	7.3
K294860		5.84	25.3	3.15	15.55	0.10	1.3	0.096	2.52	21.5	11.0	0.82	543	1.12	2.22	7.5
K294861		16.95	29.8	3.42	15.00	0.09	1.3	0.132	3.09	18.2	19.5	0.69	965	1.42	0.73	7.1
K294862		0.88	6150	5.81	11.95	0.10	1.6	0.442	1.14	8.2	12.9	1.12	1740	23.8	1.64	3.2
K294863		17.30	30.5	3.13	15.15	0.10	1.2	0.144	3.00	22.5	42.0	0.89	832	1.72	0.51	7.2
K294864		16.95	32.3	3.12	14.15	0.09	1.4	0.175	2.85	25.8	16.0	0.77	1270	3.17	0.04	6.7
K294865		19.00	106.5	3.55	14.60	0.09	1.1	0.202	3.03	23.1	14.6	0.96	1690	10.75	0.05	6.6
K294866		0.12	2.3	0.18	0.45	0.06	0.1	0.012	0.04	1.1	1.2	1.89	123	0.07	0.06	0.2
K294867		14.40	68.5	3.19	15.90	0.11	1.1	0.368	3.16	20.9	12.4	0.82	996	1.59	0.05	6.9
K294868		11.25	30.9	4.75	16.70	0.12	1.0	0.389	3.05	25.5	10.3	0.80	824	36.8	0.09	5.3
K294869		13.75	172.0	3.99	16.50	0.11	1.2	0.299	3.06	23.1	19.5	0.86	1060	50.5	0.63	6.7
K294870		13.80	59.5	7.91	12.30	0.10	1.4	0.870	2.86	20.0	6.4	1.33	2990	3.06	0.03	5.7
K294871		16.00	17.1	3.08	15.35	0.08	1.4	0.251	2.84	18.2	31.9	0.75	1400	1.26	0.50	7.6
K294872		14.95	30.0	3.02	16.00	0.09	1.5	0.196	2.64	23.5	23.3	0.78	886	2.01	1.72	7.7
K294873		30.0	23.6	2.25	17.55	0.11	4.2	0.039	2.73	31.3	19.5	0.95	641	2.15	0.08	10.6
K294874		9.45	1160	9.00	13.80	0.10	0.9	1.510	2.59	16.4	14.8	0.65	2270	17.00	0.06	4.5
K294875		28.7	22.8	2.17	19.65	0.10	4.0	0.038	2.90	32.5	16.6	0.93	552	0.78	0.07	10.8
K294876		24.0	48.1	2.29	17.70	0.10	3.1	0.037	2.66	31.9	17.8	1.23	646	0.96	0.06	9.5
K294877		29.2	14.7	2.23	19.00	0.09	4.3	0.035	2.86	28.4	17.2	0.81	698	1.23	0.06	10.5
K294878		21.9	44.2	3.41	16.70	0.10	2.0	0.365	2.74	19.2	31.9	0.73	1520	3.99	0.06	7.9
K294879		18.55	32.7	3.16	16.05	0.10	1.4	0.131	2.71	22.1	27.6	0.79	994	1.28	0.55	7.3
K294880		13.40	52.7	3.49	16.20	0.10	1.3	0.277	2.30	21.4	12.4	0.76	1330	1.74	1.82	7.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247965

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K294841		2.8	650	19.7	78.3	<0.002	0.07	1.24	10.1	<1	1.6	408	0.58	<0.05	8.74	0.270
K294842		1.9	450	468	175.5	<0.002	1.77	7.81	7.4	1	2.6	101.0	0.74	0.17	17.65	0.183
K294843		3.0	690	18.1	72.2	<0.002	0.05	0.99	10.8	<1	1.8	430	0.57	<0.05	7.48	0.289
K294844		3.0	680	14.1	76.6	<0.002	0.15	2.54	10.2	<1	2.0	219	0.50	<0.05	8.29	0.275
K294845		3.4	640	27.7	78.6	<0.002	0.17	1.81	10.4	<1	1.8	381	0.55	0.05	9.04	0.272
K294846		3.3	620	30.6	77.7	<0.002	0.16	1.73	10.2	<1	1.9	377	0.51	<0.05	9.20	0.265
K294847		2.8	640	18.9	70.9	<0.002	0.03	1.25	10.0	<1	1.7	407	0.52	<0.05	8.60	0.269
K294848		2.6	600	19.7	92.6	<0.002	0.26	1.94	9.0	<1	1.9	339	0.56	0.08	10.85	0.252
K294849		2.6	630	183.5	119.5	0.002	0.77	3.84	10.0	<1	2.3	261	0.52	<0.05	10.95	0.265
K294850		2.6	380	503	114.0	<0.002	>10.0	69.8	6.7	2	9.7	89.1	0.29	0.65	6.10	0.147
K294851		3.1	660	18.6	85.2	<0.002	0.09	2.52	10.6	<1	1.8	370	0.61	<0.05	9.26	0.281
K294852		2.8	630	19.5	82.3	<0.002	0.05	2.39	9.3	<1	1.7	385	0.52	<0.05	9.20	0.269
K294853		2.7	640	18.6	81.0	<0.002	0.03	2.31	9.3	<1	1.7	386	0.54	<0.05	8.95	0.267
K294854		2.7	620	19.2	83.4	<0.002	0.03	1.19	9.3	<1	1.6	401	0.60	0.29	10.05	0.261
K294855		2.8	630	17.5	85.0	0.002	0.03	1.21	9.8	<1	1.5	387	0.59	<0.05	11.25	0.268
K294856		2.8	630	17.9	76.7	<0.002	0.09	1.07	9.3	1	1.9	396	0.58	<0.05	8.54	0.271
K294857		3.0	640	16.3	72.8	<0.002	0.01	0.66	10.0	1	1.7	422	0.54	<0.05	8.03	0.272
K294858		3.1	610	17.9	92.8	0.002	0.26	3.88	9.7	<1	2.8	299	0.59	0.36	12.45	0.252
K294859		2.5	610	17.9	79.2	0.002	0.34	3.18	9.2	<1	2.6	377	0.51	0.15	9.57	0.253
K294860		2.5	620	17.3	83.1	<0.002	0.32	1.86	9.8	1	2.2	431	0.56	0.09	11.80	0.259
K294861		2.3	580	37.5	110.0	<0.002	1.06	6.65	9.0	1	2.7	195.0	0.56	0.15	10.80	0.242
K294862		27.6	470	>10000	27.5	0.011	2.35	444	11.0	2	2.2	192.5	0.18	1.26	1.96	0.242
K294863		2.2	610	18.3	113.0	0.002	0.56	8.93	9.6	<1	3.1	195.5	0.54	0.12	11.80	0.249
K294864		2.1	520	29.3	123.5	0.002	1.13	9.36	8.4	<1	2.5	102.0	0.58	0.12	14.10	0.219
K294865		56.6	610	146.0	120.5	0.004	1.71	16.15	9.1	1	3.7	112.0	0.49	0.24	11.10	0.230
K294866		0.6	90	1.0	1.2	<0.002	0.02	0.12	0.6	1	<0.2	74.5	<0.05	<0.05	0.14	0.020
K294867		1.9	640	16.9	108.5	<0.002	0.68	9.61	9.9	<1	3.7	125.5	0.49	0.25	9.40	0.237
K294868		2.8	530	37.6	157.5	0.006	2.76	4.73	9.5	2	7.5	106.0	0.41	2.35	10.30	0.182
K294869		2.8	610	37.1	125.0	0.011	1.31	12.50	10.2	1	4.7	185.5	0.50	1.00	9.84	0.233
K294870		3.6	540	9550	126.5	<0.002	7.07	21.7	7.5	1	7.4	167.0	0.47	1.06	8.95	0.209
K294871		2.1	580	174.0	92.4	<0.002	0.40	7.04	9.2	<1	4.6	209	0.57	0.07	10.35	0.244
K294872		2.7	610	124.0	106.0	<0.002	0.25	5.49	10.3	1	3.5	343	0.62	0.16	12.00	0.258
K294873		14.5	960	34.7	85.6	<0.002	0.18	13.50	5.4	<1	2.7	207	0.68	<0.05	10.85	0.275
K294874		17.8	440	1625	145.5	0.004	7.68	104.5	8.2	1	10.3	61.3	0.35	0.68	9.10	0.163
K294875		14.3	940	21.4	93.0	<0.002	0.11	11.95	6.1	<1	3.0	219	0.75	<0.05	11.65	0.276
K294876		13.3	820	25.1	97.8	<0.002	0.19	17.10	5.5	<1	2.3	253	0.66	<0.05	11.10	0.237
K294877		14.3	940	23.4	85.7	<0.002	0.12	12.95	5.8	<1	1.5	174.5	0.74	<0.05	10.80	0.274
K294878		6.8	660	477	90.2	<0.002	1.54	12.20	9.0	1	3.9	150.5	0.58	0.15	10.35	0.258
K294879		2.9	620	30.8	123.0	0.003	1.34	16.45	10.6	<1	3.1	163.0	0.54	0.17	12.25	0.254
K294880		3.0	600	186.5	122.0	<0.002	1.32	8.36	10.6	1	4.7	235	0.54	0.22	12.75	0.241

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247965

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K294841		0.99	3.4	74	1.2	15.7	60	23.5	<0.005
K294842		2.43	6.6	50	2.5	12.7	824	34.3	0.022
K294843		1.00	3.1	80	1.2	16.0	72	24.7	0.008
K294844		1.29	2.5	77	1.6	14.5	55	24.3	0.007
K294845		1.14	3.4	76	1.3	15.2	96	27.1	0.031
K294846		1.21	3.3	75	1.3	14.6	136	26.3	0.020
K294847		0.94	3.0	76	1.3	15.2	59	26.3	<0.005
K294848		1.31	3.7	69	1.5	14.2	62	27.3	0.008
K294849		1.75	3.2	73	2.4	13.8	367	25.4	0.014
K294850		1.90	3.1	47	5.8	8.0	7630	14.9	1.830
K294851		1.02	3.8	77	3.5	15.3	70	27.6	0.007
K294852		1.02	3.2	73	5.0	12.4	65	26.2	0.006
K294853		1.01	3.1	73	5.3	12.9	51	25.6	<0.005
K294854		0.97	4.0	72	1.3	15.0	50	25.4	<0.005
K294855		0.95	3.6	74	2.0	14.4	49	27.3	<0.005
K294856		0.94	3.0	75	1.2	14.7	52	26.8	<0.005
K294857		0.84	3.1	76	3.0	15.1	50	25.3	<0.005
K294858		1.43	2.7	71	2.5	15.7	50	33.9	0.064
K294859		1.25	2.9	71	1.4	13.9	49	35.2	0.033
K294860		1.17	3.2	73	0.9	14.9	44	37.2	0.011
K294861		2.13	3.3	69	3.5	12.8	107	33.7	0.050
K294862		0.53	1.4	82	0.6	13.8	5180	52.7	0.264
K294863		2.04	2.7	71	2.0	13.9	52	35.6	0.047
K294864		2.72	4.5	62	2.1	12.8	79	39.0	0.083
K294865		2.61	3.4	69	2.6	13.1	200	33.8	0.162
K294866		0.02	0.3	5	0.1	2.3	4	2.1	<0.005
K294867		2.34	3.3	71	2.7	11.7	66	33.9	0.061
K294868		2.41	3.5	69	3.2	11.6	58	28.2	0.243
K294869		2.18	3.4	74	2.8	13.6	93	33.5	0.085
K294870		2.30	3.6	58	3.8	9.1	2950	43.3	1.420
K294871		2.32	3.4	68	3.1	12.6	278	42.2	0.022
K294872		1.89	3.8	71	1.8	15.3	140	37.7	0.036
K294873		2.01	5.1	51	2.8	11.3	87	169.0	0.005
K294874		2.24	5.2	54	7.0	9.0	3290	21.6	1.730
K294875		2.16	4.7	49	2.4	10.8	73	146.5	<0.005
K294876		1.89	5.6	49	2.0	10.8	89	113.5	<0.005
K294877		2.08	4.6	53	2.1	10.9	77	151.5	<0.005
K294878		2.08	4.5	67	3.1	11.3	916	66.3	0.135
K294879		2.55	3.0	72	5.0	12.9	100	37.9	0.236
K294880		1.92	2.4	67	3.6	13.0	327	38.3	0.136

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247965

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Pb-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247966

Project: Klaza

P.O. No.: 19-059

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247966

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593652		5.19			0.31	6.70	45.8	2810	1.49	0.47	1.83	0.42	36.3	6.6	8	12.10
W593653		3.40			0.24	5.86	32.1	2650	1.34	0.64	3.06	0.37	39.0	7.5	8	10.05
W593654		5.86			0.15	6.87	10.4	1850	1.40	0.39	2.09	0.16	46.8	5.0	10	13.25
W593655		7.63			0.09	7.88	8.4	2370	1.63	0.16	1.65	0.19	45.0	7.1	9	23.1
W593656		0.26			38.5	5.84	2620	330	1.14	36.6	1.68	46.8	35.6	16.3	22	9.90
W593657		5.15			0.08	7.52	7.3	2390	1.32	0.17	0.87	0.10	69.2	4.4	8	10.85
W593658		6.30			0.09	6.57	8.1	1300	1.37	0.13	2.77	0.20	40.3	6.6	9	15.25
W593659		6.70			0.05	7.60	4.7	2060	1.39	0.07	2.12	0.09	39.8	6.8	9	29.1
W593660		7.41			0.08	7.27	7.6	2080	1.73	0.09	2.52	0.10	39.4	7.9	8	25.1
W593661		12.20			0.08	7.64	3.9	2290	1.75	0.06	2.84	0.09	48.9	7.1	11	14.55
W593662		7.67			0.07	6.83	8.7	2320	1.65	0.07	2.68	0.14	36.6	6.9	9	23.2
W593663		<0.02			0.07	6.81	8.6	2450	1.61	0.07	2.72	0.13	34.3	6.9	10	22.9
W593664		5.65			0.25	6.84	30.3	1570	1.48	0.08	3.16	0.21	40.1	6.8	9	10.40
W593665		12.42			0.08	7.47	7.0	2510	1.64	0.09	2.64	0.10	39.1	6.5	9	16.75
W593666		5.69			0.58	6.61	19.5	2670	1.84	1.84	2.84	0.11	37.0	8.6	8	20.7
W593667		6.01			0.09	8.23	5.8	2340	1.59	0.10	1.65	0.11	54.8	7.4	8	12.50
W593668		3.20			0.08	8.47	5.3	2390	1.46	0.11	1.27	0.20	53.3	8.5	8	11.05
W593669		6.39			0.08	7.76	4.7	2220	1.70	0.16	2.32	0.16	48.5	7.2	11	9.23
W593670		1.89			0.06	7.00	4.2	2130	1.68	0.14	2.76	0.11	39.8	8.0	12	8.55
W593671		3.25			0.10	6.00	5.6	1950	1.28	0.19	3.10	0.14	33.4	7.6	11	8.11
W593672		5.00			0.01	0.20	<0.2	40	0.12	0.02	34.0	<0.02	1.31	0.7	2	0.10
W593673		4.45			0.09	7.42	4.7	2440	1.55	0.07	2.57	0.12	40.3	6.9	12	10.00
W593674		3.99			0.09	7.46	5.9	2280	1.43	0.07	1.98	0.14	42.1	7.2	9	20.3
W593675		1.35			1.79	2.95	371	450	1.04	0.11	1.11	18.85	17.25	4.9	10	10.40
W593676		4.28			0.09	7.50	9.8	2260	1.51	0.08	1.89	0.20	42.8	6.9	11	15.90
W593677		8.28			0.09	7.17	7.1	2480	1.60	0.11	2.53	0.13	42.5	7.4	11	12.90
W593678		3.26			0.07	7.21	3.6	2280	1.65	0.08	2.50	0.08	42.5	6.7	12	12.05
W593679		0.26	101	1.005	>100	5.60	259	610	0.72	5.21	1.47	26.1	20.4	12.5	64	0.91
W593680		2.14			0.71	6.86	261	1900	1.54	0.14	2.33	0.34	45.6	7.6	11	14.95
W593681		3.02			0.22	7.94	63.7	2190	1.49	0.10	1.18	0.26	54.7	7.7	9	14.90
W593682		2.15			0.24	7.98	107.5	2530	1.45	0.14	1.14	0.13	45.8	8.1	8	14.55
W593683		3.13			0.08	7.46	20.2	2270	1.64	0.12	1.94	0.08	62.1	6.1	10	9.79
W593684		3.16			0.06	7.73	4.0	2520	1.68	0.11	2.96	0.06	42.2	7.3	12	9.64
W593685		1.90			0.06	7.06	9.1	1960	1.61	0.14	3.54	0.05	39.9	8.4	11	20.7
W593686		1.61			0.04	6.76	7.2	1790	1.70	0.12	3.29	0.04	39.6	8.0	11	19.85
W593687		5.60			0.05	6.61	14.1	1480	1.60	0.13	2.97	0.06	33.5	7.3	16	15.85
W593688		3.84			0.04	7.20	3.0	2130	1.67	0.08	2.67	0.06	41.3	7.0	12	9.11
W593689		4.93			0.06	6.90	3.8	2330	1.63	0.06	2.72	0.07	40.2	7.7	11	14.95
W593690		2.81			0.61	6.40	57.7	1690	1.64	0.18	3.50	0.35	48.3	7.8	7	34.2
W593691		3.07			1.22	6.08	82.0	660	1.52	0.07	2.79	1.65	46.0	6.7	7	22.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247966

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593652		23.9	3.05	16.50	0.10	1.2	0.091	4.21	16.9	16.2	0.31	3080	0.83	0.06	7.6	2.4
W593653		7.2	2.32	13.50	0.10	1.4	0.032	3.95	19.1	25.2	0.56	3050	1.06	0.08	6.3	2.0
W593654		10.1	2.16	13.75	0.10	1.9	0.032	3.78	25.5	82.9	0.50	953	1.11	0.55	7.4	1.6
W593655		9.3	3.15	18.15	0.11	1.3	0.044	3.19	22.1	109.0	0.34	989	1.09	0.39	8.8	2.3
W593656		1200	9.27	13.75	0.11	0.9	1.565	2.70	17.9	15.5	0.68	2360	16.45	0.06	4.5	14.5
W593657		7.4	1.97	15.00	0.10	1.7	0.029	3.81	41.0	22.7	0.25	465	1.24	1.27	7.2	1.6
W593658		15.4	2.60	15.15	0.10	1.2	0.043	2.61	19.7	98.8	0.65	788	0.92	0.14	7.4	2.1
W593659		8.0	2.83	16.70	0.09	1.4	0.044	2.94	19.6	66.8	0.45	677	0.96	0.79	8.2	2.1
W593660		10.4	2.80	16.55	0.09	1.6	0.040	2.98	19.1	81.5	0.48	760	1.06	1.30	8.1	2.4
W593661		19.6	2.82	16.75	0.11	1.4	0.040	2.78	25.4	14.8	0.67	700	1.18	2.35	8.2	2.5
W593662		6.6	2.69	15.85	0.10	1.4	0.048	2.83	17.9	152.0	0.58	821	1.06	0.92	8.0	2.2
W593663		6.8	2.75	16.20	0.09	1.4	0.041	2.94	16.5	150.0	0.58	831	1.03	0.94	7.7	2.3
W593664		8.4	2.52	15.75	0.08	1.3	0.043	2.31	18.9	108.0	0.86	1650	1.56	0.09	7.6	2.4
W593665		9.8	2.64	16.75	0.10	1.7	0.041	2.88	19.1	34.6	0.54	693	1.55	1.97	8.2	2.0
W593666		10.0	2.38	15.45	0.09	1.3	0.043	2.69	18.8	15.8	0.65	959	0.73	1.38	7.0	2.3
W593667		9.9	2.96	17.40	0.11	1.6	0.051	2.95	27.2	24.3	0.47	698	1.16	1.51	8.8	2.5
W593668		7.8	3.43	17.90	0.12	1.6	0.047	2.93	28.8	31.5	0.43	972	1.31	0.46	8.4	3.1
W593669		12.9	2.87	17.30	0.11	1.5	0.045	2.75	24.5	16.7	0.73	713	1.35	2.36	8.5	2.6
W593670		11.1	2.86	16.20	0.10	1.6	0.046	2.92	18.9	16.5	0.48	758	1.87	1.93	8.6	2.4
W593671		3.0	2.71	14.00	0.10	1.2	0.046	2.65	16.8	15.5	0.62	969	1.96	0.99	6.2	2.0
W593672		1.6	0.10	0.65	0.08	0.1	0.007	0.08	1.3	1.1	1.55	112	0.14	0.08	0.4	0.5
W593673		6.3	2.75	16.60	0.13	1.4	0.037	2.69	20.6	13.8	0.78	696	1.40	2.48	7.4	2.5
W593674		9.3	2.72	17.25	0.11	1.5	0.045	2.80	20.8	49.1	0.43	973	1.02	1.44	8.0	2.5
W593675		19.3	1.69	6.43	0.06	0.4	0.020	1.14	9.1	97.4	0.28	2480	1.47	0.04	2.4	1.6
W593676		9.2	2.76	16.85	0.09	1.5	0.041	3.11	21.6	36.4	0.44	996	0.83	1.20	7.7	2.5
W593677		8.8	2.74	16.40	0.10	1.4	0.040	2.89	21.3	19.2	0.68	751	1.06	2.21	7.9	2.5
W593678		5.4	2.65	16.25	0.11	1.4	0.041	2.67	21.2	14.9	0.59	687	0.98	2.29	7.8	2.3
W593679		6230	5.84	12.35	0.09	1.9	0.458	1.15	8.9	12.8	1.14	1760	21.1	1.65	3.2	30.3
W593680		17.4	2.77	15.25	0.13	1.4	0.036	4.29	21.4	25.8	0.68	2540	1.35	0.41	7.3	2.6
W593681		8.0	2.72	16.90	0.11	1.5	0.037	3.68	29.1	38.3	0.41	1640	1.21	0.37	8.4	3.3
W593682		8.0	2.70	17.00	0.11	1.4	0.041	3.74	23.4	22.6	0.34	2240	1.24	0.56	8.6	2.3
W593683		5.6	2.32	15.85	0.13	1.7	0.031	3.64	34.2	12.5	0.50	678	1.10	2.01	8.4	2.2
W593684		6.1	2.84	16.75	0.13	1.3	0.039	2.80	20.7	8.4	0.72	788	0.96	2.32	8.1	2.4
W593685		4.3	2.82	15.45	0.13	1.4	0.041	3.10	20.0	14.1	0.71	1110	0.65	1.04	8.1	2.4
W593686		5.1	2.78	15.25	0.09	1.4	0.040	2.94	19.7	14.6	0.69	1080	0.65	0.95	8.2	2.4
W593687		4.1	2.57	16.05	0.10	1.3	0.045	2.85	16.2	17.1	0.52	1120	0.91	1.42	7.9	2.4
W593688		6.4	2.59	16.15	0.12	1.4	0.035	2.66	21.0	10.1	0.59	717	1.19	2.08	8.1	13.7
W593689		7.0	2.80	16.45	0.12	1.2	0.036	2.89	19.7	16.5	0.67	775	1.06	2.00	8.6	2.4
W593690		10.5	2.83	14.45	0.11	1.2	0.031	2.71	26.2	45.6	1.01	2030	1.74	0.07	7.1	2.3
W593691		6.9	2.43	13.65	0.10	1.4	0.022	2.20	25.8	71.8	0.88	3070	1.18	0.03	7.0	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247966

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593652		540	17.0	196.5	<0.002	0.16	21.5	9.3	<1	1.6	63.3	0.56	<0.05	10.10	0.242	3.12
W593653		380	20.2	145.5	<0.002	0.16	15.35	6.0	<1	1.3	93.3	0.60	<0.05	12.65	0.168	2.58
W593654		400	14.4	140.0	<0.002	0.07	14.35	6.2	<1	1.4	132.0	0.81	<0.05	17.45	0.173	2.03
W593655		640	19.0	130.5	<0.002	0.03	20.3	11.1	<1	1.9	117.5	0.65	<0.05	12.85	0.273	1.68
W593656		450	1685	150.5	0.002	7.91	106.0	8.1	2	11.0	62.1	0.38	0.72	9.50	0.171	2.30
W593657		380	20.2	154.5	<0.002	0.02	7.55	6.5	<1	1.7	120.0	0.75	<0.05	23.4	0.170	1.62
W593658		550	15.3	87.1	<0.002	0.01	20.8	9.0	<1	1.7	151.0	0.60	<0.05	11.20	0.230	1.62
W593659		590	17.8	114.5	<0.002	<0.01	11.50	9.9	<1	2.1	218	0.63	<0.05	12.30	0.258	1.53
W593660		570	16.6	117.0	<0.002	0.01	11.45	9.2	<1	2.1	244	0.68	<0.05	12.65	0.250	1.59
W593661		600	15.6	111.0	<0.002	0.01	2.11	10.4	<1	1.6	391	0.59	<0.05	13.00	0.256	1.19
W593662		580	16.2	97.5	<0.002	0.03	15.10	9.1	<1	1.6	234	0.60	<0.05	10.15	0.250	1.56
W593663		590	16.1	90.2	<0.002	0.03	14.95	8.6	<1	1.6	240	0.60	<0.05	9.49	0.256	1.66
W593664		570	15.4	65.7	<0.002	0.13	22.1	8.7	<1	1.4	131.5	0.57	<0.05	10.30	0.248	1.72
W593665		630	18.3	104.0	<0.002	0.01	4.10	8.7	1	1.5	337	0.57	<0.05	10.95	0.258	1.26
W593666		540	29.4	108.0	<0.002	0.06	11.00	8.5	<1	1.2	196.0	0.55	<0.05	9.97	0.234	1.64
W593667		680	19.2	115.0	<0.002	0.01	9.84	11.5	<1	1.7	225	0.68	<0.05	14.10	0.284	1.20
W593668		670	20.9	121.0	<0.002	0.01	24.7	11.8	<1	1.7	95.5	0.68	<0.05	15.10	0.274	1.28
W593669		630	16.8	106.0	<0.002	0.02	3.42	10.6	<1	1.6	308	0.64	<0.05	12.70	0.265	1.16
W593670		620	13.5	114.5	<0.002	0.06	4.21	10.3	<1	1.6	230	0.66	<0.05	10.80	0.266	1.45
W593671		500	5.7	116.0	<0.002	0.15	4.84	7.8	<1	1.3	122.0	0.49	<0.05	8.83	0.210	1.73
W593672		70	0.8	2.6	<0.002	<0.01	0.09	0.3	1	<0.2	81.4	0.05	<0.05	0.26	0.006	0.03
W593673		600	16.9	97.8	<0.002	0.01	1.00	10.1	<1	1.4	411	0.58	<0.05	11.20	0.252	1.07
W593674		600	17.4	108.0	<0.002	0.01	13.80	10.4	<1	1.9	238	0.63	<0.05	11.55	0.257	1.33
W593675		140	71.5	58.5	<0.002	0.73	126.0	3.4	<1	1.7	160.5	0.20	<0.05	4.35	0.082	1.20
W593676		590	17.4	123.5	<0.002	0.04	11.55	10.0	<1	1.9	201	0.62	<0.05	12.15	0.253	1.53
W593677		580	18.1	107.5	<0.002	0.01	2.44	9.6	<1	1.7	379	0.62	<0.05	11.45	0.247	1.29
W593678		570	17.4	97.5	<0.002	0.01	2.46	9.3	<1	1.6	364	0.60	<0.05	11.35	0.244	1.05
W593679		470	>10000	29.6	0.011	2.36	458	12.3	1	2.0	195.5	0.21	1.19	2.24	0.246	0.50
W593680		540	31.3	171.5	<0.002	1.24	32.1	9.1	<1	1.5	114.5	0.59	<0.05	12.20	0.230	3.37
W593681		600	20.6	167.0	<0.002	0.48	19.50	10.8	<1	1.7	101.0	0.68	<0.05	15.40	0.255	2.30
W593682		610	17.4	167.5	<0.002	0.48	25.1	10.6	<1	1.7	114.5	0.64	<0.05	14.10	0.264	2.35
W593683		470	18.1	144.5	<0.002	0.04	5.74	8.3	1	1.5	284	0.79	<0.05	19.35	0.210	1.62
W593684		600	16.9	107.0	<0.002	0.01	1.99	10.3	<1	1.5	387	0.59	<0.05	11.05	0.259	1.14
W593685		600	8.0	118.0	<0.002	0.07	5.49	9.9	<1	1.6	184.5	0.63	<0.05	10.35	0.256	1.66
W593686		580	8.1	114.0	<0.002	0.05	5.49	9.6	<1	1.6	170.5	0.61	<0.05	10.25	0.253	1.64
W593687		570	9.6	112.0	<0.002	0.07	5.21	9.2	<1	1.5	176.0	0.61	<0.05	9.49	0.240	1.69
W593688		540	16.5	103.5	<0.002	0.01	2.30	9.5	<1	1.6	317	0.66	<0.05	12.05	0.238	1.11
W593689		590	16.0	106.0	<0.002	0.02	5.40	10.3	<1	1.6	332	0.68	<0.05	11.70	0.253	1.30
W593690		480	23.0	148.5	<0.002	0.64	39.3	9.5	<1	1.7	170.5	0.60	<0.05	13.60	0.203	1.94
W593691		440	33.6	124.5	<0.002	0.91	41.4	8.5	<1	1.5	231	0.59	<0.05	12.80	0.191	1.93

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247966

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593652		2.6	65	6.1	12.6	69	33.7	0.015
W593653		3.4	45	2.6	11.8	72	40.9	0.010
W593654		3.4	43	3.2	13.9	55	48.2	<0.005
W593655		3.3	74	4.9	17.3	71	36.2	<0.005
W593656		5.1	57	7.6	8.6	3410	21.7	1.785
W593657		2.5	42	2.3	13.6	44	44.3	<0.005
W593658		2.9	64	2.3	14.3	61	31.9	<0.005
W593659		3.2	69	2.3	13.6	58	38.5	<0.005
W593660		2.7	66	1.6	15.0	59	43.4	<0.005
W593661		2.1	68	2.2	16.5	57	40.9	<0.005
W593662		2.7	67	2.5	14.1	60	39.1	<0.005
W593663		2.7	68	2.5	13.1	61	38.8	<0.005
W593664		4.6	66	2.6	14.0	55	38.1	0.010
W593665		2.1	63	4.8	14.4	56	49.7	<0.005
W593666		4.1	65	1.6	13.6	59	36.4	<0.005
W593667		2.8	75	2.1	18.4	67	47.8	<0.005
W593668		2.9	78	6.0	19.3	79	45.8	<0.005
W593669		2.1	71	2.2	17.1	63	41.8	<0.005
W593670		2.9	72	2.8	14.2	54	45.7	<0.005
W593671		2.1	61	2.6	12.0	48	34.7	<0.005
W593672		0.3	2	0.1	2.7	4	2.2	<0.005
W593673		1.8	67	2.3	16.1	61	35.2	<0.005
W593674		2.9	68	2.3	15.7	65	40.7	<0.005
W593675		4.5	26	3.3	5.9	601	10.4	0.461
W593676		3.1	67	1.4	14.9	66	41.6	<0.005
W593677		2.4	65	0.6	15.3	62	42.0	<0.005
W593678		2.0	65	0.6	14.9	61	39.5	<0.005
W593679		1.4	83	0.6	13.5	5210	53.3	0.282
W593680		2.7	61	2.8	14.0	84	40.1	0.216
W593681		4.7	68	2.2	16.8	72	44.1	0.028
W593682		4.1	69	2.9	16.3	65	45.4	0.041
W593683		3.7	53	0.9	15.9	53	49.2	<0.005
W593684		2.4	69	0.6	15.1	63	40.8	<0.005
W593685		3.4	65	1.1	14.0	54	41.3	<0.005
W593686		3.3	64	1.1	13.8	53	42.2	<0.005
W593687		3.8	64	1.2	12.3	50	38.6	<0.005
W593688		2.7	62	0.6	14.9	61	41.8	<0.005
W593689		3.3	68	1.0	15.5	59	36.2	<0.005
W593690		11.2	57	1.8	15.1	51	34.9	0.017
W593691		5.7	50	2.1	13.8	125	40.3	0.090

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247966

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247967

Project: Klaza

P.O. No.: 19-060

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247967

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593692		3.05			0.14	7.97	14.5	2220	1.36	0.09	0.92	0.19	52.9	7.2	8	18.45
W593693		4.08			0.10	7.64	6.0	2450	1.45	0.18	1.46	0.15	50.8	7.0	9	11.05
W593694		3.61			0.16	7.38	4.5	2710	1.58	0.33	2.35	0.13	45.0	7.3	10	10.90
W593695		3.42			0.13	6.60	17.5	1540	1.45	0.09	4.40	0.12	47.4	8.1	10	11.75
W593696		8.20			0.14	6.78	17.1	2070	1.61	0.07	2.78	0.10	37.6	7.3	12	12.55
W593697		1.96			0.10	7.30	7.4	2280	1.61	0.09	2.56	0.15	45.4	8.0	10	10.20
W593698		2.42			0.11	6.83	7.8	2360	1.72	0.10	2.89	0.35	40.0	8.0	12	9.96
W593699		2.84			0.13	7.37	7.2	1900	1.49	0.19	1.59	0.22	38.3	7.0	9	10.80
W593700		1.22			1.20	5.81	9.6	2370	1.24	4.09	1.23	0.95	40.4	5.9	10	8.00
W593701		2.46			0.25	7.68	5.2	2040	1.36	0.74	1.41	0.49	50.2	6.7	11	8.97
W593702		5.58			0.09	7.21	4.7	2380	1.73	0.08	2.38	0.12	45.7	7.3	13	11.00
W593703		4.32			0.14	7.59	5.0	2320	1.85	0.09	2.43	0.12	46.2	7.5	13	11.05
W593704		8.12			0.13	7.18	6.7	2280	1.75	0.09	2.72	0.11	42.7	7.3	12	13.25
W593705		9.32			0.11	7.23	4.8	2120	1.83	0.13	2.44	0.13	42.8	6.5	12	12.45
W593706		0.26	100	1.025	>100	5.50	266	560	0.76	5.33	1.44	25.0	19.90	12.6	63	0.95
W593707		8.50			0.18	6.65	8.3	1950	1.66	0.07	2.62	0.11	35.0	7.1	11	16.85
W593708		3.17			0.09	6.53	10.5	2430	1.71	0.08	2.73	0.08	40.5	6.6	10	15.25
W593709		9.18			0.07	6.95	5.1	2270	1.77	0.05	2.66	0.08	40.0	7.0	13	13.45
W593710		4.39			0.08	7.23	7.2	2190	1.67	0.07	2.10	0.07	45.6	6.8	10	16.45
W593711		4.98			0.12	7.20	24.7	2060	1.57	0.09	2.28	0.13	45.2	6.7	11	21.5
W593712		1.65			2.01	5.78	577	700	1.53	0.21	3.96	1.35	42.3	7.3	7	14.05
W593713		5.00			0.01	0.18	2.3	40	0.11	0.04	32.3	0.02	1.45	0.7	2	0.16
W593714		2.43			0.64	6.23	122.5	820	1.39	0.16	2.23	0.39	42.0	5.4	9	12.00
W593715		1.02			2.64	6.65	703	1400	1.45	0.12	1.57	1.42	46.8	9.2	9	14.95
W593716		9.03			0.22	7.11	105.5	2260	1.70	0.07	2.39	0.17	46.2	7.2	12	17.10
W593717		4.16			1.14	6.75	178.0	1900	1.61	0.06	2.35	0.28	42.7	6.4	12	17.50
W593718		2.51			1.55	6.71	444	1340	1.47	0.06	2.18	2.51	47.2	6.2	12	15.85
W593719		0.26			37.6	5.75	2540	930	1.21	37.7	1.72	46.7	39.9	16.0	23	9.84
W593720		8.79			1.05	6.96	13.9	2390	1.46	0.10	2.03	1.16	40.6	6.9	10	13.80
W593721		5.37			1.28	6.36	255	2230	1.41	0.08	2.08	2.65	46.2	6.4	12	15.50
W593722		4.68			0.29	6.83	118.5	2130	1.69	0.09	2.41	0.33	40.0	6.6	11	16.25
W593723		1.56			0.75	6.47	696	1290	1.63	0.08	3.43	0.82	51.8	6.9	9	18.90
W593724		5.67			0.77	6.93	244	1990	1.34	0.09	2.09	0.53	42.9	6.7	12	14.65
W593725		3.23			0.15	6.70	42.0	1250	1.69	0.15	2.75	0.47	45.5	7.0	12	20.0
W593726		6.56			0.34	6.66	375	1400	1.39	0.09	1.94	0.21	40.0	6.3	10	14.35
W593727		<0.02			0.36	6.73	363	1430	1.52	0.09	1.97	0.25	39.4	6.5	10	14.75
W593728		8.47			0.13	7.40	9.5	2020	1.26	0.07	1.35	0.30	48.9	8.1	13	13.10
W593729		5.32			0.35	6.79	51.8	1780	1.45	0.11	2.10	1.11	38.0	7.3	12	13.10
W593730		1.61			2.15	5.33	285	1460	1.31	0.07	5.78	1.11	39.8	5.7	8	13.55
W593731		3.36			0.06	6.77	9.1	1940	1.32	0.09	1.62	0.18	40.2	5.9	9	14.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247967

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593692		20.5	2.71	17.05	0.12	1.6	0.037	3.14	28.3	74.4	0.40	817	0.79	0.25	8.7	2.4
W593693		26.7	2.65	16.40	0.12	1.5	0.032	3.10	26.7	21.9	0.48	744	0.70	0.94	8.3	2.3
W593694		11.4	2.63	16.05	0.13	1.5	0.030	2.85	23.3	17.7	0.70	695	0.87	1.90	8.2	2.2
W593695		8.4	2.83	14.90	0.13	1.5	0.037	1.97	24.3	33.9	0.85	1390	1.07	0.39	8.1	2.3
W593696		9.3	2.66	15.80	0.12	1.4	0.037	2.65	17.9	18.8	0.61	917	1.08	1.96	8.3	2.3
W593697		11.5	2.73	15.90	0.15	1.4	0.037	2.81	23.7	13.5	0.67	784	0.92	1.93	8.6	2.3
W593698		13.5	2.82	16.20	0.12	1.6	0.038	2.84	18.9	12.4	0.70	842	0.90	2.14	8.7	2.5
W593699		11.4	2.57	16.30	0.10	1.5	0.041	2.89	18.6	24.7	0.43	675	0.81	0.71	8.7	2.1
W593700		54.3	2.14	12.15	0.12	1.1	0.027	1.78	21.7	13.5	0.49	622	0.58	1.04	6.0	1.8
W593701		22.5	2.62	16.20	0.12	1.4	0.037	2.68	26.3	21.8	0.43	671	0.75	0.85	8.3	2.1
W593702		9.8	2.71	16.05	0.14	1.5	0.035	2.87	22.4	14.0	0.69	744	0.91	2.40	8.5	2.4
W593703		6.9	2.77	16.90	0.15	1.5	0.032	2.90	23.9	15.8	0.73	742	1.04	2.49	8.7	2.5
W593704		7.2	2.67	16.20	0.14	1.5	0.037	2.86	21.9	23.3	0.68	797	0.97	2.12	8.5	2.1
W593705		6.1	2.54	15.35	0.15	1.7	0.032	3.00	21.7	15.7	0.63	757	1.30	2.36	8.7	2.1
W593706		6070	5.74	12.05	0.10	1.6	0.450	1.13	9.6	12.9	1.11	1720	20.7	1.62	3.4	28.9
W593707		10.4	2.55	15.55	0.13	1.6	0.031	2.80	16.9	32.0	0.62	811	0.86	1.49	8.6	2.3
W593708		6.5	2.52	14.85	0.14	1.5	0.035	2.53	20.3	17.2	0.55	785	1.04	2.00	8.1	2.6
W593709		5.5	2.70	15.95	0.16	1.7	0.033	2.81	19.5	14.3	0.66	752	0.97	2.30	8.7	2.2
W593710		5.8	2.60	15.85	0.15	1.6	0.028	2.96	23.4	19.6	0.57	702	0.89	1.61	9.0	2.2
W593711		8.6	2.67	16.00	0.16	1.6	0.033	2.92	22.3	33.2	0.59	1180	1.04	1.13	9.0	2.2
W593712		38.8	2.72	12.40	0.11	1.2	0.027	2.64	23.0	47.2	1.17	7150	3.56	0.07	6.6	2.3
W593713		1.8	0.12	0.66	0.13	0.1	<0.005	0.06	1.3	1.4	1.87	128	0.09	0.08	0.3	<0.2
W593714		19.7	1.81	13.70	0.17	1.9	0.027	3.25	21.3	61.3	0.61	1920	2.05	0.05	7.7	1.7
W593715		9.6	2.34	14.65	0.16	1.4	0.027	4.23	25.0	18.5	0.48	1740	5.40	0.07	7.6	2.9
W593716		9.6	2.59	16.05	0.17	1.4	0.035	3.21	23.0	14.7	0.61	1000	1.10	1.88	8.6	2.3
W593717		8.8	2.62	16.35	0.16	1.5	0.033	3.54	21.1	23.5	0.65	1640	1.30	1.18	8.2	2.2
W593718		7.0	2.58	15.20	0.19	1.4	0.032	4.44	24.3	14.0	0.68	4380	1.71	0.10	7.5	2.1
W593719		1170	9.19	14.30	0.08	0.9	1.530	2.65	20.2	16.4	0.70	2290	17.35	0.06	5.0	14.3
W593720		9.4	2.78	17.40	0.09	1.4	0.036	3.00	20.4	29.6	0.58	2010	0.94	1.00	8.5	2.3
W593721		5.0	2.51	15.00	0.14	1.3	0.035	3.97	23.8	26.0	0.63	4820	1.52	0.12	7.3	1.8
W593722		6.8	2.74	16.90	0.16	1.3	0.030	3.82	20.2	16.9	0.61	1450	1.03	1.07	8.1	2.5
W593723		5.7	2.90	14.80	0.18	1.2	0.033	3.88	28.6	12.1	1.01	3760	1.19	0.06	7.2	2.2
W593724		6.7	2.75	16.10	0.16	1.2	0.032	3.58	21.1	33.0	0.57	2640	1.10	1.08	7.8	2.2
W593725		4.7	2.76	15.60	0.17	1.2	0.038	3.25	23.6	30.9	0.85	2040	0.79	0.11	7.6	2.1
W593726		8.3	2.64	16.35	0.16	1.2	0.037	3.40	20.0	34.8	0.60	1980	1.06	0.10	7.9	2.3
W593727		7.6	2.65	17.10	0.19	1.3	0.041	3.48	18.9	36.7	0.60	2000	1.08	0.10	8.3	2.4
W593728		12.5	3.13	16.25	0.17	1.2	0.030	2.91	25.3	37.1	0.50	1310	1.60	0.32	7.8	2.6
W593729		10.4	2.81	16.55	0.18	1.3	0.034	3.20	18.3	35.3	0.66	2100	1.65	0.30	8.1	2.2
W593730		9.7	2.89	12.30	0.13	1.0	0.025	3.05	22.4	22.0	1.59	28800	2.55	0.05	5.8	1.7
W593731		8.2	2.62	16.15	0.16	1.2	0.032	3.01	20.1	42.2	0.57	1040	2.99	0.20	7.9	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247967

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593692		610	15.3	132.0	<0.002	0.23	25.3	11.0	<1	1.8	108.0	0.68	<0.05	14.90	0.263	1.52
W593693		560	16.3	132.0	<0.002	0.03	15.35	10.0	<1	1.8	126.0	0.69	<0.05	14.40	0.237	1.39
W593694		560	19.4	111.0	<0.002	0.03	5.01	9.4	<1	1.6	284	0.64	<0.05	13.35	0.236	1.13
W593695		510	16.2	78.2	<0.002	0.21	11.75	9.9	<1	1.8	146.0	0.71	<0.05	13.10	0.233	1.55
W593696		570	20.0	94.9	<0.002	0.11	4.30	9.5	<1	1.8	314	0.65	<0.05	10.65	0.245	1.21
W593697		570	18.1	115.0	<0.002	0.05	2.47	10.3	<1	2.2	282	0.68	<0.05	13.60	0.245	1.22
W593698		580	19.7	95.2	<0.002	0.05	2.31	10.0	<1	2.3	315	0.72	<0.05	11.25	0.255	1.19
W593699		590	20.2	105.5	<0.002	0.04	11.30	9.8	<1	1.7	115.5	0.69	<0.05	12.70	0.252	1.18
W593700		420	16.0	87.5	<0.002	0.15	14.80	7.6	1	1.3	77.6	0.48	0.12	11.45	0.179	0.97
W593701		570	19.8	114.5	<0.002	0.03	11.45	9.9	<1	1.9	101.5	0.68	<0.05	14.75	0.247	1.16
W593702		550	23.0	112.5	<0.002	0.02	2.10	9.9	<1	1.7	333	0.70	<0.05	12.95	0.241	1.17
W593703		570	25.4	114.0	<0.002	0.01	2.10	10.0	<1	1.6	355	0.69	<0.05	14.05	0.246	1.15
W593704		560	22.0	110.0	<0.002	0.03	3.30	9.7	<1	1.7	318	0.75	<0.05	12.50	0.239	1.22
W593705		530	22.5	117.0	<0.002	0.01	2.63	8.6	<1	1.7	307	0.81	<0.05	14.45	0.225	1.28
W593706		460	>10000	29.8	0.010	2.32	452	12.5	1	1.9	193.5	0.22	1.14	2.03	0.239	0.49
W593707		540	27.0	95.8	<0.002	0.07	7.17	8.9	<1	1.6	236	0.75	<0.05	11.05	0.233	1.49
W593708		530	19.1	96.9	<0.002	0.08	4.46	9.1	<1	1.4	280	0.70	<0.05	12.50	0.227	1.33
W593709		550	19.2	102.5	<0.002	0.03	2.01	9.1	<1	1.4	354	0.79	<0.05	12.30	0.234	1.17
W593710		550	20.4	119.5	<0.002	0.02	7.43	9.5	<1	1.5	250	0.83	<0.05	13.45	0.234	1.26
W593711		570	18.3	124.0	<0.002	0.11	12.90	9.8	<1	1.6	222	0.81	<0.05	13.10	0.240	1.53
W593712		420	53.7	128.5	<0.002	1.19	62.3	7.8	<1	1.5	149.5	0.58	<0.05	11.40	0.181	2.64
W593713		70	1.0	2.5	<0.002	<0.01	0.32	0.2	1	<0.2	80.3	<0.05	<0.05	0.23	0.006	0.03
W593714		390	23.1	120.5	<0.002	0.38	32.2	6.4	<1	1.8	105.0	0.82	<0.05	16.60	0.168	2.57
W593715		480	90.2	202	<0.002	1.48	58.0	8.8	<1	1.7	77.7	0.63	<0.05	13.30	0.206	5.24
W593716		550	22.3	134.5	<0.002	0.14	9.98	9.4	<1	2.0	314	0.70	<0.05	13.45	0.235	1.97
W593717		520	98.1	141.0	0.002	0.32	61.3	8.9	1	1.8	213	0.70	<0.05	11.45	0.231	2.60
W593718		480	71.6	186.0	<0.002	0.80	43.4	8.6	1	1.7	82.4	0.67	<0.05	12.00	0.220	3.95
W593719		450	1655	149.0	0.003	7.85	105.5	8.3	1	10.8	63.3	0.40	0.69	8.94	0.172	2.34
W593720		560	161.0	110.5	<0.002	0.08	42.7	9.8	<1	2.1	200	0.67	<0.05	9.71	0.247	1.64
W593721		440	102.5	158.5	<0.002	0.88	45.4	7.9	<1	1.6	95.2	0.65	<0.05	13.10	0.202	3.12
W593722		540	18.7	145.5	0.002	0.23	14.40	9.6	<1	1.7	201	0.65	<0.05	10.65	0.250	2.68
W593723		490	21.1	176.0	<0.002	1.45	29.6	9.0	<1	1.8	100.0	0.57	<0.05	12.10	0.219	3.52
W593724		550	33.8	141.5	<0.002	0.50	20.6	9.6	1	1.6	212	0.63	<0.05	11.65	0.244	2.71
W593725		520	12.8	128.5	0.002	0.31	15.20	9.3	1	1.6	109.0	0.59	<0.05	10.90	0.227	2.23
W593726		570	18.8	123.5	0.002	0.58	21.5	9.2	1	1.7	92.8	0.66	<0.05	10.10	0.245	2.12
W593727		570	18.9	122.0	0.002	0.58	22.1	9.6	1	1.8	96.7	0.69	<0.05	10.25	0.250	2.23
W593728		570	17.9	114.0	<0.002	0.04	24.6	10.1	1	1.7	98.9	0.63	<0.05	12.50	0.250	1.52
W593729		570	74.6	108.0	<0.002	0.21	21.6	10.1	1	2.0	115.0	0.65	<0.05	10.00	0.252	1.95
W593730		380	57.7	141.5	0.002	0.92	25.5	7.0	<1	1.8	181.0	0.52	<0.05	10.70	0.165	2.09
W593731		540	15.7	108.0	0.002	0.05	17.95	9.5	<1	1.8	100.5	0.68	<0.05	11.30	0.244	1.57

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247967

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593692		3.2	68	4.2	16.6	67	45.5	0.007
W593693		3.2	64	2.0	17.2	62	44.2	<0.005
W593694		3.0	62	1.2	15.9	59	42.9	<0.005
W593695		9.7	65	2.2	17.6	47	41.1	<0.005
W593696		3.5	64	1.0	14.7	63	43.2	0.009
W593697		3.9	65	0.9	16.8	61	42.5	<0.005
W593698		3.8	68	0.7	15.7	64	45.2	<0.005
W593699		4.2	64	2.6	14.5	62	45.6	<0.005
W593700		1.9	48	0.9	10.3	57	31.8	<0.005
W593701		2.7	63	2.5	15.4	64	42.0	<0.005
W593702		2.7	63	0.6	16.6	62	45.5	<0.005
W593703		3.5	65	1.0	17.3	67	43.4	<0.005
W593704		4.4	63	0.9	15.9	72	43.0	<0.005
W593705		4.6	59	1.2	16.2	73	48.1	<0.005
W593706		1.4	80	0.6	14.7	5190	54.6	0.269
W593707		4.7	62	1.6	14.9	59	46.0	<0.005
W593708		4.4	60	1.2	15.6	48	42.0	<0.005
W593709		4.6	63	1.6	16.6	56	47.0	<0.005
W593710		4.2	62	1.3	17.7	59	47.6	<0.005
W593711		5.0	62	1.4	17.5	61	48.0	<0.005
W593712		13.2	47	3.4	14.2	144	34.4	0.588
W593713		0.3	1	<0.1	2.5	5	3.0	<0.005
W593714		8.9	42	2.0	12.4	52	51.0	0.063
W593715		5.9	53	13.0	12.2	158	42.4	0.170
W593716		3.8	63	2.0	16.3	63	42.2	0.037
W593717		4.6	59	1.7	14.0	66	44.8	0.014
W593718		5.4	55	1.9	12.1	242	40.1	0.043
W593719		5.4	56	7.5	9.2	3330	24.0	1.750
W593720		3.5	63	3.0	14.3	121	41.5	<0.005
W593721		5.4	51	1.7	11.4	212	40.8	0.042
W593722		3.7	64	1.3	13.1	72	39.2	0.006
W593723		3.3	56	1.9	13.5	123	37.6	0.677
W593724		3.5	64	1.6	13.1	87	36.1	0.025
W593725		3.9	60	1.1	12.6	64	36.3	0.017
W593726		3.0	63	3.3	12.1	65	37.8	0.383
W593727		3.0	64	3.4	12.3	65	39.0	0.369
W593728		4.3	66	3.9	15.1	91	35.2	<0.005
W593729		5.0	66	3.1	13.4	117	39.3	0.012
W593730		5.5	43	6.5	14.9	119	27.2	0.141
W593731		3.6	61	4.6	12.9	66	36.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247967

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247969

Project: Klaza

P.O. No.: 19-061

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: Sample#23(ID: K294903)was dumped on the ground and completely loss during processed.

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247969

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
K294881		3.93				0.18	7.30	42.8	2340	1.40	3.26	2.64	0.14	44.7	6.4	15
K294882		1.90				1.57	7.20	176.5	2170	1.44	2.62	5.28	2.31	42.3	18.2	174
K294883		3.19				0.22	6.78	30.7	2530	1.17	0.81	3.03	0.12	32.7	8.1	89
K294884		4.45				2.38	7.29	107.5	1990	1.22	1.82	2.01	0.21	40.2	5.1	12
K294885		4.14				2.61	7.33	188.5	1120	1.30	4.46	1.96	2.12	40.5	11.0	9
K294886		0.26	106	1.040		>100	5.63	255	510	0.68	5.13	1.49	24.7	20.8	11.7	62
K294887		5.05				0.23	7.40	12.8	2360	1.51	0.88	2.46	0.12	43.2	6.1	12
K294888		5.35				0.20	7.23	15.7	2370	1.46	0.95	2.52	0.10	39.9	6.0	12
K294889		4.61				0.29	7.58	60.8	1880	2.19	1.82	2.38	0.08	32.5	5.6	9
K294890		5.12				0.08	7.57	10.5	1110	2.30	0.42	1.31	0.10	48.7	2.6	5
K294891		4.26				0.04	6.21	7.2	750	2.17	0.15	2.07	0.05	27.6	1.6	3
K294892		4.90				0.04	6.80	7.2	950	2.46	0.21	1.51	0.04	37.8	1.7	3
K294893		2.31				0.32	6.98	7.5	990	2.42	0.19	1.68	0.07	39.3	2.3	3
K294894		2.24				0.03	6.92	8.1	950	2.55	0.18	1.61	0.05	36.7	2.7	3
K294895		4.98				0.02	7.08	5.6	830	2.55	0.13	1.20	0.09	35.7	2.0	2
K294896		4.88				1.23	7.73	55.7	2090	2.32	2.29	2.07	1.85	20.3	3.3	9
K294897		4.52				0.87	8.00	42.2	2490	2.24	3.83	1.82	1.25	12.00	3.8	8
K294898		4.01				0.86	7.02	49.9	1950	1.56	3.41	3.03	0.19	29.2	8.6	67
K294899		0.26				40.2	5.77	2650	1020	1.18	36.7	1.70	44.4	38.6	17.6	21
K294900		2.92				0.85	6.82	37.9	2330	1.51	2.47	3.40	0.27	31.6	11.4	96
K294901		5.24				0.62	6.77	32.9	2440	1.48	1.73	3.18	0.46	32.3	9.6	64
K294902		2.41				1.10	7.01	85.9	2100	1.61	2.43	2.92	0.67	35.8	9.3	59
K294903		Destroyed														
K294904		1.11			1.405	24.3	6.56	420	360	1.40	8.36	3.48	143.5	35.6	9.6	52
K294905		5.08				0.05	0.12	0.8	20	0.08	0.04	33.6	0.12	1.17	0.5	1
K294906		5.31				0.97	6.97	69.3	1680	1.35	2.08	3.64	0.56	36.9	11.5	90
K294907		3.33				0.66	6.73	84.0	2020	1.26	2.36	3.22	0.26	31.0	8.7	76
K294908		4.40				0.65	7.12	49.7	2190	1.31	3.59	2.77	0.15	41.9	6.3	9
K294909		4.57				0.46	7.01	52.1	1950	1.24	2.85	2.94	0.18	44.7	6.2	9
K294910		4.22				1.25	6.85	70.2	1730	1.26	2.96	2.59	0.46	41.6	6.9	10
K294911		3.82				0.86	7.06	63.6	1760	1.48	2.84	2.62	0.58	39.9	5.5	8
K294912		<0.02				0.80	7.02	59.1	1780	1.30	2.61	2.67	0.48	36.2	5.0	10
K294913		1.24				8.23	5.61	257	300	1.37	3.01	4.87	51.9	45.1	9.0	12
K294914		3.18				0.40	7.85	64.8	1140	2.00	0.35	2.71	0.83	80.5	12.3	80
K294915		4.27				0.24	6.94	46.6	1030	2.31	0.11	3.14	0.68	47.2	4.9	5
K294916		4.98				0.47	6.94	24.1	2610	2.20	0.10	3.17	0.62	48.0	4.9	5
K294917		5.37				0.44	6.91	44.4	1500	2.19	0.09	3.33	0.60	48.3	4.7	5
K294918		6.05				0.15	6.69	19.7	1710	2.14	0.04	3.81	0.21	42.5	4.6	5
K294919		4.80				0.84	7.52	22.9	1080	2.26	0.59	2.72	1.78	52.1	4.9	5
K294920		3.21				3.19	8.21	109.0	2080	2.02	0.31	2.76	11.45	82.9	16.9	104

Comments: Sample#23(ID: K294903)was dumped on the ground and completely loss during processed.

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247969

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K294881		9.84	37.7	3.07	15.40	0.10	1.3	0.106	2.89	23.0	9.5	0.80	648	2.37	2.10	7.7
K294882		25.9	38.3	4.27	14.05	0.09	1.7	0.216	2.88	22.0	19.3	2.34	2500	2.27	0.29	6.3
K294883		13.35	20.7	3.63	13.80	0.08	1.4	0.085	2.72	15.8	16.2	1.23	955	1.55	1.45	7.0
K294884		13.40	584	3.88	14.75	0.09	1.0	0.225	2.20	19.5	13.1	0.71	1000	120.5	2.17	5.6
K294885		15.65	407	4.59	16.00	0.11	1.1	0.283	2.75	18.6	7.3	0.81	1480	247	1.32	5.6
K294886		0.91	6290	5.85	11.50	0.09	1.6	0.459	1.15	10.0	12.0	1.15	1760	22.7	1.66	3.4
K294887		8.11	19.4	3.30	15.90	0.10	1.3	0.104	2.87	21.6	12.9	0.83	724	2.97	2.13	7.8
K294888		11.50	21.5	3.11	15.05	0.10	1.2	0.102	2.92	20.5	18.1	0.72	726	3.11	1.81	7.6
K294889		21.3	118.0	2.33	14.85	0.10	1.2	0.354	3.26	15.2	25.1	0.67	1020	9.70	0.71	7.0
K294890		20.2	4.5	1.60	17.75	0.12	2.6	0.096	3.13	25.0	16.0	0.47	658	2.10	0.08	16.6
K294891		19.90	1.7	1.26	16.50	0.09	2.4	0.017	2.81	13.2	10.7	0.33	474	0.53	0.06	16.0
K294892		21.5	1.5	1.28	17.40	0.11	2.6	0.023	2.88	18.9	10.0	0.32	446	0.40	0.07	17.2
K294893		21.4	7.9	1.38	17.25	0.12	2.5	0.022	2.89	19.3	11.6	0.37	478	0.38	0.07	15.5
K294894		22.3	8.2	1.37	17.90	0.10	2.6	0.022	2.93	18.4	12.2	0.34	477	0.41	0.08	16.2
K294895		21.1	1.2	1.28	17.60	0.09	2.6	0.016	2.85	17.7	14.9	0.23	352	0.53	0.07	16.2
K294896		16.35	34.4	1.84	13.80	0.10	1.5	0.370	3.80	9.4	17.6	0.60	890	4.16	0.06	9.0
K294897		9.07	10.0	1.88	13.50	0.09	1.4	0.450	3.97	5.5	11.8	0.70	817	4.79	0.05	7.7
K294898		10.90	69.8	3.27	14.55	0.12	1.5	0.465	3.02	14.8	23.1	1.36	1140	1.76	1.02	6.4
K294899		10.15	1185	9.04	13.15	0.11	0.8	1.595	2.65	20.3	16.3	0.69	2290	16.30	0.06	4.6
K294900		10.70	48.5	3.46	14.75	0.12	1.7	0.299	2.83	15.4	28.2	1.49	1100	1.93	1.25	6.7
K294901		9.68	28.7	3.09	15.00	0.10	1.7	0.268	2.82	16.6	46.5	1.37	991	1.91	1.28	5.8
K294902		13.05	70.1	3.28	15.10	0.13	1.7	0.503	3.18	18.3	34.9	1.43	1170	1.84	0.86	6.0
K294903																
K294904		12.10	257	4.14	13.20	0.11	1.4	1.320	3.09	19.2	9.2	1.48	3300	1.86	0.03	5.0
K294905		0.08	1.8	0.12	0.36	0.09	0.1	0.008	0.04	1.2	1.1	2.11	122	0.05	0.05	0.2
K294906		16.65	32.3	3.59	14.80	0.11	1.7	0.359	2.72	18.8	17.8	1.58	1460	1.97	0.73	5.5
K294907		15.05	63.4	3.70	13.50	0.08	1.4	0.283	2.76	15.7	25.7	1.24	1300	1.66	0.70	5.3
K294908		12.25	79.8	3.40	14.80	0.10	1.2	0.145	2.80	20.4	11.8	0.79	963	2.58	1.86	7.7
K294909		14.80	42.1	3.28	14.10	0.10	1.2	0.228	2.75	22.9	12.6	0.78	932	2.19	1.41	6.6
K294910		11.60	122.5	3.60	14.25	0.10	1.1	0.225	3.00	20.5	14.5	0.79	966	4.51	1.22	6.9
K294911		14.15	123.0	3.32	14.60	0.11	1.1	0.181	3.19	20.1	23.0	0.75	1220	2.20	0.96	6.7
K294912		12.50	120.0	3.38	13.05	0.10	1.0	0.168	3.23	17.4	21.5	0.75	1260	1.72	0.99	6.1
K294913		19.50	229	4.46	12.30	0.11	1.4	0.684	2.30	23.8	19.1	0.97	1810	2.71	0.04	7.0
K294914		22.7	20.7	4.18	20.0	0.12	5.1	0.083	2.63	34.6	32.9	0.81	1210	1.66	0.23	24.6
K294915		31.1	6.0	2.55	18.05	0.11	2.1	0.041	2.60	22.5	29.6	0.69	646	1.65	0.08	10.1
K294916		24.8	6.6	2.67	17.75	0.12	2.0	0.040	2.55	21.9	45.3	0.87	771	1.18	0.07	9.9
K294917		27.0	7.5	2.55	17.85	0.11	2.0	0.039	2.62	22.7	36.0	0.68	928	1.42	0.11	10.0
K294918		25.4	6.3	2.57	18.40	0.20	2.1	0.032	2.49	20.0	49.7	0.71	654	0.94	0.26	8.9
K294919		27.6	8.1	2.81	19.25	0.19	2.3	0.043	2.71	26.1	31.8	0.82	819	1.98	0.07	9.3
K294920		11.00	28.1	4.36	21.2	0.20	5.2	0.238	1.21	38.5	53.4	1.03	2610	1.48	0.03	23.7

Comments: Sample#23(ID: K294903)was dumped on the ground and completely loss during processed.

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247969

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K294881		3.2	630	15.3	99.3	0.002	0.38	3.11	9.8	1	1.9	382	0.61	0.08	10.55	0.259
K294882		65.6	630	139.0	142.0	0.003	1.20	14.35	15.1	1	1.8	459	0.51	0.15	8.59	0.294
K294883		24.8	630	14.3	76.0	<0.002	0.28	6.09	11.5	<1	1.8	404	0.55	0.06	7.76	0.286
K294884		2.8	570	18.5	94.3	0.005	0.76	5.92	10.4	1	3.6	232	0.42	0.51	9.91	0.215
K294885		2.9	560	115.5	139.5	0.029	1.86	7.48	9.7	2	4.9	159.5	0.46	1.27	12.10	0.213
K294886		26.2	480	>10000	28.8	0.010	2.39	474	12.7	2	1.9	197.5	0.22	1.32	1.96	0.247
K294887		2.2	650	19.2	99.6	0.004	0.38	2.61	10.8	1	2.1	363	0.60	0.06	11.10	0.267
K294888		2.2	660	14.5	90.7	0.002	0.34	3.03	10.2	<1	2.0	350	0.57	0.06	9.43	0.271
K294889		2.3	700	9.3	147.5	0.004	0.27	9.32	11.4	1	12.1	245	0.53	0.08	10.35	0.253
K294890		1.0	400	26.8	133.5	<0.002	0.13	2.38	4.2	<1	7.7	150.0	1.44	<0.05	9.96	0.160
K294891		0.7	320	25.2	95.5	<0.002	0.13	1.42	2.2	<1	1.6	193.5	1.37	<0.05	5.98	0.132
K294892		0.8	350	25.9	111.5	<0.002	0.10	1.33	2.4	1	1.8	142.0	1.39	<0.05	7.36	0.137
K294893		0.9	360	25.8	110.0	<0.002	0.09	2.31	2.6	<1	2.5	162.0	1.38	<0.05	7.92	0.137
K294894		0.8	350	29.1	111.0	<0.002	0.08	1.37	2.5	1	2.9	163.0	1.45	<0.05	7.39	0.139
K294895		1.2	340	23.3	112.0	<0.002	0.01	1.66	2.5	<1	1.9	151.5	1.57	<0.05	8.17	0.133
K294896		1.4	650	87.7	181.0	<0.002	0.43	10.80	9.2	<1	4.7	150.0	0.66	0.43	12.25	0.246
K294897		1.7	690	81.8	225	0.002	0.46	7.57	12.4	<1	2.2	132.0	0.57	0.23	13.45	0.256
K294898		22.6	680	19.3	108.5	<0.002	0.36	8.02	10.4	1	1.7	378	0.55	0.08	9.02	0.225
K294899		13.8	450	1655	151.5	0.004	7.92	105.5	8.0	2	10.3	65.1	0.36	0.86	9.20	0.162
K294900		34.5	710	20.8	74.4	<0.002	0.32	8.17	9.7	<1	0.9	455	0.53	0.05	6.83	0.239
K294901		21.9	690	27.7	78.7	<0.002	0.52	5.95	8.0	<1	0.8	462	0.50	0.08	7.27	0.200
K294902		20.3	700	31.0	125.5	<0.002	0.52	9.80	8.3	<1	0.8	394	0.48	0.07	8.17	0.200
K294903																
K294904		21.0	630	2170	215	<0.002	2.84	52.9	7.9	1	2.2	202	0.38	0.34	8.26	0.169
K294905		0.5	80	2.8	1.3	<0.002	0.01	0.18	0.2	1	<0.2	80.1	<0.05	<0.05	0.14	0.006
K294906		31.6	700	49.5	125.0	<0.002	0.75	9.11	9.3	1	0.9	372	0.44	0.11	8.11	0.198
K294907		24.1	650	23.3	91.1	<0.002	0.98	7.36	8.4	<1	1.0	341	0.43	0.17	6.54	0.212
K294908		2.2	640	18.4	96.4	<0.002	0.78	5.12	10.3	<1	1.9	351	0.60	0.42	9.84	0.265
K294909		2.0	570	20.7	109.5	0.002	1.26	4.43	8.9	1	1.6	301	0.53	0.35	12.30	0.227
K294910		2.2	580	41.7	114.5	0.002	1.62	4.68	9.3	1	2.0	293	0.51	0.57	10.75	0.238
K294911		2.6	610	40.6	134.0	<0.002	1.23	9.13	9.4	<1	1.7	264	0.52	0.48	10.40	0.244
K294912		2.3	620	37.1	120.0	<0.002	1.26	8.32	8.4	1	1.6	267	0.48	0.41	8.98	0.251
K294913		9.2	620	1730	134.5	<0.002	3.05	23.6	7.0	1	4.5	171.0	0.53	0.42	8.22	0.217
K294914		20.8	2470	35.9	59.1	<0.002	0.24	16.40	10.0	1	2.2	127.0	1.15	<0.05	6.72	0.684
K294915		3.3	900	42.4	75.2	<0.002	0.13	10.30	4.7	1	1.7	259	0.65	<0.05	7.08	0.301
K294916		2.4	880	41.5	72.3	<0.002	0.13	11.45	4.7	<1	1.4	248	0.65	<0.05	6.95	0.296
K294917		2.1	870	41.0	82.7	<0.002	0.13	13.95	4.7	1	1.5	269	0.64	<0.05	7.29	0.305
K294918		2.7	880	22.2	68.3	0.002	0.05	13.90	4.5	<1	1.5	319	0.65	<0.05	6.68	0.292
K294919		3.3	910	205	88.3	<0.002	0.09	15.00	5.3	<1	1.4	217	0.70	<0.05	8.13	0.312
K294920		29.1	2360	421	29.4	0.002	0.56	40.8	11.6	<1	2.4	221	1.20	<0.05	7.56	0.682

Comments: Sample#23(ID: K294903)was dumped on the ground and completely loss during processed.

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247969

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K294881		1.22	2.3	73	2.2	14.9	45	38.1	0.027
K294882		2.42	5.9	108	3.8	14.4	273	57.5	0.107
K294883		1.47	2.7	91	1.7	12.1	74	41.7	0.012
K294884		1.46	2.4	73	2.3	12.1	82	31.3	0.171
K294885		2.18	2.7	73	4.9	11.9	234	32.2	0.246
K294886		0.47	1.3	83	0.6	14.5	5220	54.7	0.268
K294887		1.23	2.4	75	1.7	14.2	54	36.6	0.011
K294888		1.20	2.8	75	1.9	14.1	46	35.8	0.010
K294889		2.28	4.2	78	3.9	12.6	58	37.1	0.008
K294890		1.48	5.1	26	2.6	15.7	63	59.6	<0.005
K294891		1.26	2.8	14	1.6	12.8	52	62.4	<0.005
K294892		1.22	4.9	15	1.6	13.3	53	66.7	<0.005
K294893		1.17	5.2	15	1.5	14.8	54	61.8	<0.005
K294894		1.19	4.6	15	1.5	14.0	54	62.2	<0.005
K294895		1.14	3.3	14	1.3	13.9	72	61.7	<0.005
K294896		2.57	3.6	66	6.0	11.6	141	44.3	0.065
K294897		3.48	5.3	74	5.4	10.2	126	39.9	0.071
K294898		2.01	3.5	84	3.0	11.0	83	45.4	0.007
K294899		2.07	5.1	57	6.6	9.1	3350	39.6	1.790
K294900		1.54	2.9	87	1.6	9.0	116	55.3	<0.005
K294901		1.53	3.2	78	1.5	8.9	146	52.2	<0.005
K294902		2.24	4.6	76	1.5	9.3	161	54.2	0.014
K294903									
K294904		2.83	3.9	67	4.0	8.7	>10000	45.9	1.200
K294905		0.02	0.2	1	0.1	2.3	19	1.9	<0.005
K294906		2.27	4.0	82	1.6	10.0	157	54.1	0.008
K294907		1.84	3.2	82	1.8	9.6	119	44.5	0.013
K294908		1.34	2.9	76	1.7	14.0	60	34.8	0.027
K294909		1.65	3.5	67	1.9	12.5	58	34.8	0.028
K294910		1.71	2.9	69	2.4	12.6	78	33.1	0.041
K294911		2.20	3.2	71	2.1	12.6	108	31.3	0.020
K294912		2.00	2.8	72	1.9	11.1	102	30.0	0.020
K294913		2.16	4.6	56	4.4	11.5	3740	50.4	0.255
K294914		1.70	6.7	96	4.7	17.6	179	220	0.005
K294915		1.62	3.6	47	1.3	10.7	119	69.0	<0.005
K294916		1.57	3.9	48	1.3	10.7	132	67.8	0.007
K294917		1.68	4.7	46	1.4	10.4	139	67.0	0.020
K294918		1.65	4.1	47	1.3	10.7	97	65.1	<0.005
K294919		1.78	4.2	48	1.5	11.7	254	69.5	0.024
K294920		1.58	21.2	101	21.8	20.7	881	216	0.165

Comments: Sample#23(ID: K294903)was dumped on the ground and completely loss during processed.

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247969

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247972

Project: Klaza

P.O. No.: 19-062

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247972

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
K294921		3.24				4.19	6.39	329	600	1.50	0.55	2.62	20.5	42.0	12.9	51
K294922		5.70				4.37	7.09	135.0	2360	1.67	2.11	3.00	40.2	36.8	9.1	70
K294923		4.47				0.35	7.61	46.4	2210	1.53	0.82	2.98	0.39	37.4	11.0	97
K294924		3.06				1.71	7.05	249	1580	1.54	1.31	3.17	18.30	37.3	8.9	88
K294925		2.07				2.98	6.77	258	860	1.64	4.86	3.30	8.64	46.8	3.4	9
K294926		3.46				1.04	7.57	296	1710	1.61	1.78	2.24	1.87	57.3	4.3	12
K294927		0.98			1.710	8.72	5.88	2580	1260	1.35	1.24	2.59	218	45.0	4.4	8
K294928		5.65				0.10	0.17	3.9	30	0.10	0.02	33.2	0.42	1.08	0.6	1
K294929		3.51				1.55	7.17	176.5	1750	1.59	2.14	2.27	4.94	52.2	8.7	10
K294930		4.30				0.43	7.57	56.1	1690	1.40	1.40	1.94	0.15	42.4	6.0	9
K294931		4.89				0.44	7.66	47.5	1940	1.50	1.56	2.69	0.19	44.3	8.7	11
K294932		4.70				0.49	7.79	48.3	2950	1.73	1.50	2.05	0.78	25.3	8.7	10
K294933		0.26	103	1.030		>100	5.54	256	650	0.67	5.10	1.45	24.0	18.70	11.9	65
K294934		4.98				1.12	7.18	82.9	1020	1.43	6.06	1.90	0.52	47.9	51.7	10
K294935		2.53				0.94	7.82	112.5	1400	1.75	1.96	2.30	1.09	56.6	8.0	9
K294936		2.12				0.66	7.39	74.1	1310	1.68	2.48	2.45	0.86	54.8	4.9	10
K294937		2.90				2.16	7.27	59.3	1520	1.58	3.92	2.38	3.89	46.7	5.5	9
K294938		2.59				0.38	7.32	53.8	2280	1.98	1.47	2.57	0.28	42.1	11.2	10
K294939		2.82				0.14	7.72	78.3	880	1.79	0.09	4.17	0.20	106.0	17.8	133
K294940		1.37				0.16	6.54	49.6	2840	2.31	0.28	5.21	0.29	45.8	6.3	27
K294941		1.19				0.15	6.62	39.8	2120	2.31	0.25	4.30	0.30	41.9	6.0	30
K294942		4.77				0.41	6.79	35.3	2170	1.91	0.40	2.54	0.52	40.8	6.4	28
K294943		2.90				2.28	7.52	88.0	1070	1.93	3.76	1.82	4.45	51.2	16.9	19
K294944		5.37				0.10	7.04	16.4	2020	1.85	0.19	3.72	0.26	42.6	8.0	20
K294945		5.88				0.03	6.37	10.9	1730	1.88	0.20	3.51	0.18	33.7	6.9	15
K294946		5.17				0.07	6.71	13.7	1180	1.97	0.28	3.69	0.35	38.8	6.7	13
K294947		0.26	102	1.055		>100	5.45	245	640	0.71	5.07	1.43	23.5	18.90	11.7	64
K294948		5.29				0.08	7.01	11.9	1300	2.09	0.25	3.43	0.40	43.3	5.8	11
K294949		4.73				0.02	7.16	13.6	1160	2.04	0.17	3.91	0.48	47.1	6.1	10
K294950		5.29				0.04	6.80	13.6	1210	1.89	0.22	3.56	0.28	42.5	5.9	10
K294951		4.78				0.08	7.10	12.1	1610	2.03	0.71	3.42	0.16	45.2	6.0	10
K294952		4.33				0.03	7.04	10.6	950	1.91	0.18	3.37	0.18	43.3	5.4	11
K294953		4.85				0.06	7.45	14.0	1180	2.21	0.23	2.94	0.20	50.4	5.9	13
K294954		<0.02				0.05	7.11	13.9	1120	2.16	0.22	2.89	0.20	43.9	5.8	13
K294955		4.90				0.58	7.71	32.2	1100	2.13	0.41	2.44	0.69	46.3	8.6	19
K294956		1.04				8.41	7.69	125.5	250	1.65	9.65	0.62	2.16	27.6	5.8	10
K294957		3.01			1.025	37.4	7.68	299	330	1.57	38.1	0.46	147.0	9.03	29.3	10
K294958		4.13				0.30	6.97	16.9	1930	1.86	0.34	2.88	0.34	48.1	7.5	20
K294959		5.59				0.17	7.16	15.7	1230	1.93	0.20	3.38	0.49	47.6	6.6	21
K294960		5.03				0.59	6.93	26.3	1940	1.96	0.17	3.37	0.58	44.1	8.4	21

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247972

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K294921		15.95	28.7	4.32	15.30	0.12	1.7	0.595	2.82	22.9	14.8	1.03	2750	1.21	0.04	6.8
K294922		23.7	77.8	3.78	15.30	0.08	1.6	0.561	2.92	20.6	16.0	1.37	2350	1.34	0.05	6.0
K294923		16.90	5.4	3.57	16.60	0.10	1.7	0.156	2.71	20.4	34.2	1.38	1640	0.45	0.06	6.8
K294924		15.40	99.2	4.01	14.90	0.10	1.5	0.425	3.13	21.3	11.9	1.40	3370	0.72	0.05	5.9
K294925		9.71	21.5	4.31	14.45	0.11	1.0	0.318	3.19	26.0	8.6	1.15	5100	1.35	0.03	5.7
K294926		13.40	45.5	3.55	15.75	0.14	1.1	0.349	3.40	32.1	8.1	0.92	2390	1.90	0.04	6.7
K294927		8.12	113.5	5.43	11.95	0.13	0.8	1.570	2.77	24.0	8.2	0.97	6390	6.21	0.03	4.9
K294928		0.09	1.5	0.14	0.53	<0.05	<0.1	0.010	0.05	1.1	1.0	1.93	135	<0.05	0.07	0.5
K294929		13.00	65.9	4.73	15.40	0.12	1.1	0.550	3.22	29.2	8.3	0.96	3070	1.01	0.04	6.1
K294930		13.25	73.8	3.40	15.90	0.09	1.3	0.176	2.29	22.2	33.4	0.76	1060	0.89	0.05	6.9
K294931		16.05	38.9	3.46	15.70	0.11	1.3	0.171	2.80	23.2	18.9	0.94	1060	4.57	0.08	6.8
K294932		12.10	30.2	2.53	14.90	0.11	1.3	0.261	3.71	12.0	8.8	0.76	860	11.25	0.06	6.7
K294933		0.87	6160	5.80	11.80	0.08	1.6	0.413	1.14	8.1	12.0	1.13	1760	22.1	1.65	3.0
K294934		11.25	52.0	5.69	15.55	0.13	1.3	0.180	3.12	25.8	18.2	0.84	1030	2.63	0.41	6.4
K294935		15.30	74.1	3.63	16.70	0.14	1.3	0.191	3.52	33.0	13.9	1.01	1500	7.00	0.05	6.9
K294936		16.50	66.6	3.45	16.10	0.13	1.5	0.168	3.21	31.0	27.0	0.91	1360	0.65	0.38	6.8
K294937		12.25	33.6	3.89	17.45	0.13	1.3	0.281	3.68	24.4	21.2	0.75	986	1.63	0.52	6.6
K294938		21.3	42.6	3.59	16.80	0.13	1.2	0.151	3.00	20.8	20.5	0.60	741	1.71	1.00	6.9
K294939		6.23	19.6	5.06	19.35	0.15	6.0	0.063	2.04	50.2	39.3	1.22	1160	1.97	0.24	28.2
K294940		30.7	17.5	2.00	18.05	0.12	3.5	0.030	2.58	23.5	33.7	0.63	607	0.97	0.07	8.2
K294941		30.2	13.6	2.14	18.10	0.11	3.7	0.027	2.67	20.8	33.7	0.71	549	0.89	0.07	8.7
K294942		26.5	40.3	2.20	17.85	0.12	3.3	0.040	2.72	20.4	18.3	0.87	537	0.83	0.07	8.0
K294943		20.9	65.7	3.91	17.45	0.15	2.2	0.261	3.33	27.3	9.0	0.78	814	1.89	0.06	7.3
K294944		26.4	10.6	2.87	18.35	0.13	3.0	0.039	2.51	20.7	19.1	1.23	610	0.60	0.64	7.0
K294945		21.7	9.5	2.63	17.35	0.10	2.6	0.034	2.42	15.3	29.4	1.07	517	0.51	0.91	7.1
K294946		24.5	28.5	2.64	18.10	0.11	2.4	0.033	2.54	18.1	20.0	0.99	493	0.51	0.88	7.6
K294947		0.88	6200	5.72	11.90	0.09	1.7	0.411	1.11	8.4	12.0	1.10	1720	20.0	1.62	2.9
K294948		27.4	21.6	2.49	17.90	0.11	2.2	0.033	2.62	21.1	25.6	0.90	440	0.54	0.17	7.8
K294949		30.7	13.8	2.67	18.50	0.12	2.3	0.034	2.72	23.6	25.3	0.94	487	0.44	0.26	7.9
K294950		28.4	8.7	2.58	17.85	0.11	2.1	0.031	2.60	20.4	23.2	0.95	494	0.45	0.80	7.7
K294951		26.4	21.7	2.48	18.70	0.12	2.3	0.033	2.57	21.0	34.3	1.00	466	0.55	0.50	8.2
K294952		24.8	13.7	2.57	19.05	0.12	2.4	0.033	2.57	20.9	43.2	0.97	481	0.57	0.06	8.1
K294953		28.0	10.4	2.84	19.10	0.11	2.5	0.035	2.62	24.3	43.7	1.06	526	0.86	0.06	8.1
K294954		27.3	10.3	2.77	18.50	0.13	2.4	0.034	2.58	20.8	41.9	1.02	511	0.77	0.06	7.8
K294955		27.6	23.1	2.65	19.30	0.14	2.9	0.050	3.15	22.8	15.1	1.13	522	1.49	0.07	7.4
K294956		10.10	373	4.20	17.15	0.13	1.6	0.212	3.64	13.6	10.2	0.45	328	2.62	0.05	6.1
K294957		7.89	228	11.10	15.50	0.12	1.3	0.584	3.71	3.9	8.0	0.56	1370	2.15	0.05	5.2
K294958		21.4	25.2	2.84	17.70	0.16	3.1	0.035	2.28	22.3	55.1	1.19	675	1.55	0.06	7.1
K294959		24.4	13.7	2.73	17.75	0.15	3.1	0.033	2.56	21.8	35.5	1.30	690	1.01	0.07	7.1
K294960		24.3	34.6	2.83	18.20	0.15	3.1	0.038	2.41	20.2	55.9	1.22	582	1.08	0.94	7.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247972

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K294921		25.5	620	568	164.0	<0.002	2.88	20.5	9.5	<1	1.7	145.0	0.56	<0.05	8.04	0.219
K294922		23.4	650	1015	161.5	<0.002	1.05	16.60	9.2	<1	2.1	231	0.57	<0.05	9.13	0.220
K294923		32.5	710	37.5	115.5	<0.002	0.42	8.14	10.8	<1	1.0	237	0.62	<0.05	9.36	0.257
K294924		28.0	650	290	167.0	<0.002	0.81	20.6	9.8	<1	1.7	183.0	0.52	0.07	9.21	0.231
K294925		4.0	560	459	202	<0.002	2.17	8.30	9.6	<1	3.8	91.2	0.50	0.19	10.90	0.226
K294926		3.2	640	101.0	190.0	<0.002	1.39	12.15	12.1	<1	2.9	99.9	0.55	0.17	12.55	0.264
K294927		3.2	520	2570	141.5	<0.002	4.43	43.2	7.9	<1	5.8	63.1	0.41	0.18	8.69	0.196
K294928		<0.2	80	4.5	1.7	<0.002	<0.01	0.17	0.2	<1	<0.2	77.8	<0.05	<0.05	0.17	0.005
K294929		2.6	590	202	170.5	<0.002	1.60	11.90	10.7	<1	3.6	83.8	0.52	0.28	11.45	0.233
K294930		3.0	680	15.1	90.5	<0.002	0.93	16.15	11.1	1	2.2	120.0	0.56	0.17	11.55	0.270
K294931		2.8	690	19.7	102.0	0.002	1.04	10.30	11.1	<1	1.9	143.5	0.57	0.15	10.90	0.280
K294932		2.3	700	32.7	183.5	0.008	1.09	10.10	11.3	<1	3.4	92.1	0.53	0.30	11.30	0.261
K294933		28.2	470	>10000	29.1	0.013	2.33	466	11.9	2	2.0	195.0	0.21	1.21	1.95	0.246
K294934		3.3	610	57.6	182.5	0.003	4.07	5.94	10.5	2	4.1	152.0	0.54	2.40	11.95	0.242
K294935		2.5	650	40.8	209	0.010	1.46	6.83	11.5	<1	4.0	147.5	0.58	0.53	11.75	0.265
K294936		2.3	580	48.8	191.0	<0.002	1.33	6.83	10.2	<1	2.9	183.5	0.72	0.40	14.25	0.237
K294937		2.5	620	198.5	182.0	<0.002	1.83	5.01	10.1	1	3.8	244	0.60	1.17	11.40	0.244
K294938		8.6	670	20.5	128.5	0.003	0.80	8.65	10.5	<1	2.2	224	0.60	0.22	10.00	0.262
K294939		37.2	3240	18.6	45.4	<0.002	0.14	17.20	13.4	<1	2.2	173.0	1.34	<0.05	6.59	0.841
K294940		19.5	660	23.9	77.0	<0.002	0.13	6.37	5.6	<1	2.1	286	0.69	<0.05	8.79	0.259
K294941		19.3	700	19.5	70.9	<0.002	0.10	5.75	5.3	<1	2.3	286	0.71	<0.05	8.19	0.274
K294942		18.6	710	27.2	71.8	<0.002	0.22	6.07	5.4	<1	1.9	182.0	0.67	0.05	8.23	0.270
K294943		10.1	720	142.0	177.0	<0.002	1.85	12.80	9.5	1	6.3	115.0	0.58	0.89	10.20	0.277
K294944		9.3	840	15.6	73.2	<0.002	0.08	5.13	8.6	<1	1.5	493	0.53	<0.05	6.53	0.328
K294945		6.6	790	31.0	53.0	<0.002	0.04	3.65	6.9	<1	1.4	493	0.54	<0.05	5.13	0.302
K294946		5.9	820	19.0	65.2	<0.002	0.02	8.59	7.0	<1	1.7	503	0.60	<0.05	6.16	0.296
K294947		28.0	460	>10000	28.0	0.013	2.31	450	11.7	2	2.0	191.0	0.21	1.16	1.96	0.239
K294948		4.1	850	16.3	70.4	<0.002	0.03	12.30	7.0	<1	1.6	324	0.58	<0.05	6.98	0.297
K294949		3.7	850	19.4	79.2	<0.002	0.02	8.64	7.2	<1	2.1	392	0.60	<0.05	7.63	0.298
K294950		3.5	830	17.0	70.5	<0.002	0.02	6.88	6.6	<1	1.5	431	0.59	<0.05	6.76	0.290
K294951		3.7	840	16.3	71.6	<0.002	0.03	12.30	7.2	<1	1.7	338	0.62	<0.05	7.15	0.297
K294952		3.8	860	12.8	63.0	<0.002	0.01	9.42	7.1	<1	1.8	266	0.62	<0.05	6.72	0.299
K294953		5.0	850	13.7	75.1	<0.002	0.07	6.87	7.7	<1	1.7	210	0.60	<0.05	7.65	0.305
K294954		4.8	830	14.6	65.1	<0.002	0.07	6.65	7.4	<1	1.7	205	0.59	<0.05	7.13	0.300
K294955		8.4	850	25.8	101.0	<0.002	0.54	12.45	9.4	<1	2.5	137.0	0.56	0.08	7.94	0.329
K294956		3.3	680	242	180.0	0.002	3.76	38.9	11.0	2	5.6	37.5	0.53	2.53	11.45	0.227
K294957		3.7	570	4350	204	<0.002	>10.0	13.70	10.7	7	12.3	28.3	0.46	16.40	10.00	0.195
K294958		11.7	810	16.2	64.1	<0.002	0.11	8.65	8.5	<1	1.6	221	0.46	0.06	6.16	0.319
K294959		8.6	850	12.3	69.4	<0.002	0.06	8.44	8.4	<1	1.4	244	0.45	<0.05	5.93	0.328
K294960		10.6	860	21.0	68.0	<0.002	0.09	10.00	8.4	<1	1.4	586	0.50	<0.05	5.60	0.334

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247972

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K294921		3.00	3.8	71	2.8	8.1	1270	53.9	0.593
K294922		2.87	5.7	75	3.5	9.4	3270	56.5	0.330
K294923		2.35	3.5	85	3.3	10.5	126	61.0	0.021
K294924		2.95	3.5	80	2.5	9.9	1540	50.5	0.144
K294925		3.27	3.0	70	2.3	13.2	777	36.2	0.392
K294926		3.19	4.2	80	2.5	12.5	224	41.4	0.076
K294927		2.71	3.5	59	2.7	8.7	>10000	27.6	1.400
K294928		0.03	0.2	2	0.1	2.2	29	1.6	<0.005
K294929		2.82	3.8	72	2.6	13.7	493	36.7	0.056
K294930		1.78	3.3	80	2.4	13.3	70	43.1	0.019
K294931		2.16	3.4	82	2.3	13.7	68	42.1	0.017
K294932		3.20	4.4	79	6.9	11.8	93	46.1	0.021
K294933		0.53	1.3	81	0.6	14.3	5210	63.3	0.297
K294934		2.64	3.8	73	3.1	12.6	87	41.0	0.037
K294935		2.97	4.0	78	3.8	14.8	143	51.7	0.029
K294936		2.90	5.5	69	2.4	14.5	117	46.9	0.028
K294937		2.89	3.9	75	2.2	12.3	396	42.7	0.047
K294938		2.20	3.5	80	1.9	12.7	91	40.6	0.020
K294939		1.39	11.9	119	4.6	23.7	118	296	<0.005
K294940		1.64	4.9	51	2.8	11.6	80	148.0	<0.005
K294941		1.76	4.7	54	2.8	10.0	78	154.5	<0.005
K294942		1.71	4.5	54	2.6	10.2	101	132.5	0.008
K294943		2.33	4.1	71	4.1	11.3	342	88.5	0.148
K294944		1.25	3.2	83	1.1	12.7	90	120.0	<0.005
K294945		1.08	2.7	75	1.2	10.3	72	99.4	0.005
K294946		1.14	3.2	71	1.4	11.3	79	91.4	0.005
K294947		0.54	1.4	80	0.6	14.1	5090	57.4	0.272
K294948		1.16	4.0	70	1.5	12.0	90	83.8	<0.005
K294949		1.18	3.5	71	1.2	12.6	99	81.7	<0.005
K294950		1.15	3.2	69	1.1	10.5	85	77.9	<0.005
K294951		1.19	3.6	69	1.5	11.1	75	82.1	<0.005
K294952		1.20	2.7	71	1.6	12.0	81	84.9	<0.005
K294953		1.31	4.0	72	1.4	13.7	85	93.5	<0.005
K294954		1.36	3.9	71	1.3	12.4	82	91.1	<0.005
K294955		1.70	5.7	85	2.1	13.6	114	116.0	0.010
K294956		2.95	3.4	78	11.6	7.5	170	54.0	0.117
K294957		3.10	3.1	76	11.6	6.4	>10000	46.5	1.965
K294958		1.06	3.2	84	1.7	12.9	85	118.5	0.006
K294959		1.20	4.2	87	1.2	13.4	101	120.0	0.006
K294960		1.23	4.1	88	1.9	11.7	115	117.5	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247972

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247974

Project: Klaza

P.O. No.: 19-063

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247974

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
K294961		4.90				0.14	6.62	17.2	1740	1.88	0.17	3.37	0.29	40.0	7.8	21
K294962		4.43				0.15	7.12	17.8	1670	2.01	0.18	3.76	0.44	45.9	8.0	21
K294963		5.64				0.17	7.30	24.6	1670	2.20	0.22	2.87	0.38	50.7	5.4	17
K294964		5.32				0.13	6.69	26.1	1780	2.26	0.21	3.00	0.14	55.6	4.9	12
K294965		5.33				0.10	6.96	28.9	2090	2.16	0.22	3.49	0.14	57.1	4.4	11
K294966		6.29				1.19	6.62	65.0	2460	2.19	0.69	4.04	2.22	54.8	6.5	15
K294967		<0.02				1.15	6.87	62.6	2520	2.07	0.73	4.06	1.91	58.2	6.3	15
K294968		5.29				2.87	7.59	181.0	1450	2.02	2.21	2.95	3.38	56.6	11.3	14
K294969		2.86				2.44	7.53	111.5	1090	1.73	2.53	2.00	3.65	62.6	24.5	9
K294970		3.50				6.82	7.07	478	960	1.50	2.84	1.26	45.1	68.8	21.1	14
K294971		4.08				22.5	7.36	1390	580	1.55	4.37	0.83	184.0	51.6	32.5	14
K294972		3.29				3.94	6.95	417	910	1.48	2.19	2.14	24.2	68.5	26.4	7
K294973		4.43				3.88	7.73	1335	1150	1.57	1.76	1.58	24.6	56.8	8.6	11
K294974		0.26	104	1.050		>100	5.43	245	610	0.73	4.92	1.42	24.7	19.85	11.2	61
K294975		3.42				7.89	7.57	411	1040	1.78	1.51	1.16	35.3	53.4	5.5	8
K294976		2.48				16.45	7.39	1210	830	1.54	15.35	1.57	28.3	47.7	7.7	9
K294977		1.40				17.20	7.31	2830	330	1.62	4.97	0.74	117.0	72.0	12.4	8
K294978		3.25				6.46	8.22	189.5	1580	1.60	2.50	1.36	27.0	18.55	19.2	9
K294979		3.00				4.89	8.30	72.1	1860	1.61	2.68	1.19	3.00	21.3	6.3	9
K294980		2.53				14.80	7.71	3150	620	1.60	8.02	1.06	30.0	33.4	19.6	9
K294981		5.27				0.04	0.09	1.9	20	0.08	0.02	33.9	0.07	1.10	0.9	1
K294982		3.30				2.59	7.59	109.5	1380	1.70	1.47	2.19	3.45	65.7	10.6	8
K294983		4.08				16.25	7.36	3340	740	1.44	2.25	1.39	58.5	60.0	15.6	8
K294984		4.16				11.45	7.17	670	1220	1.47	1.71	1.68	33.8	28.5	10.7	8
K294985		3.04				2.92	7.80	33.0	1170	1.46	0.87	1.22	3.38	13.70	9.4	9
K294986		3.77				6.19	7.94	227	1320	1.60	1.85	1.02	19.55	49.7	23.8	9
K294987		2.13			1.420	14.30	5.72	667	1090	1.55	2.56	4.21	193.5	35.7	8.2	39
K294988		0.26	104	1.045		>100	5.42	245	610	0.76	4.74	1.43	24.7	19.65	11.3	63
K294989		4.56				0.27	7.08	17.0	1520	1.78	0.20	3.02	0.31	50.4	6.7	13
K294990		2.70				0.19	8.03	33.5	1000	2.13	0.23	2.35	0.47	63.7	6.7	12
K294991		3.38				5.54	7.88	2810	430	1.70	4.42	1.12	20.2	29.9	15.9	8
K294992		3.78				14.65	8.01	3200	160	1.46	6.94	0.24	75.0	15.25	23.9	9
K294993		1.13				7.22	7.47	284	180	1.27	14.25	0.16	1.70	46.9	38.7	11
K294994		0.81				8.35	7.08	290	660	1.20	17.70	0.17	0.96	54.4	90.9	9
K294995		3.41				23.8	5.70	765	560	1.03	31.6	0.13	95.3	24.8	62.5	11
K294996		2.61				7.29	7.73	180.0	530	1.44	8.65	0.47	21.7	31.7	10.5	10
K294997		2.78				2.01	8.06	123.5	700	1.90	1.41	1.64	7.41	67.3	6.2	11
K294998		2.96				0.13	7.54	20.4	1220	1.77	0.24	2.97	0.16	49.4	8.3	21
K294999		4.46				0.12	7.45	25.6	1370	1.69	0.22	3.09	0.13	47.8	7.8	16
K295000		3.62				0.14	7.23	20.8	1090	1.74	0.23	2.76	0.18	48.8	7.2	13

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247974

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K294961		21.0	12.2	2.90	17.85	0.14	3.1	0.036	2.31	17.8	61.0	1.18	605	0.57	0.71	7.2
K294962		24.1	18.8	2.97	18.30	0.19	3.2	0.037	2.34	21.2	33.9	1.20	593	0.49	1.34	7.5
K294963		21.2	10.5	2.46	18.55	0.19	2.9	0.040	2.57	24.2	58.7	0.86	537	0.79	1.30	10.1
K294964		18.00	5.2	2.48	17.35	0.18	2.4	0.035	2.26	26.3	63.5	0.82	623	1.63	1.27	11.6
K294965		10.70	4.8	2.56	17.35	0.19	2.3	0.036	2.41	27.9	33.6	0.90	692	1.57	1.11	11.5
K294966		22.6	46.4	2.40	17.35	0.22	2.6	0.147	2.49	26.5	34.7	0.85	764	1.52	0.07	9.7
K294967		23.1	40.8	2.42	16.55	0.21	2.5	0.134	2.50	29.3	32.5	0.88	754	1.38	0.07	9.1
K294968		31.2	134.0	3.42	17.70	0.17	2.2	0.199	3.06	29.2	20.8	1.21	1500	2.29	0.06	7.6
K294969		19.80	55.8	3.94	16.85	0.17	1.4	0.334	3.50	33.9	9.3	1.05	1920	1.39	0.04	6.9
K294970		10.65	138.5	5.01	16.60	0.15	1.5	1.395	3.35	36.7	8.9	0.68	2000	4.32	0.04	6.6
K294971		8.60	184.0	6.17	19.05	0.14	1.4	1.020	3.54	25.8	7.8	0.54	1670	0.76	0.05	6.3
K294972		8.43	35.9	4.93	16.35	0.14	1.3	0.701	3.40	36.4	8.4	0.95	3720	0.95	0.04	5.6
K294973		13.10	73.0	4.16	16.50	0.13	1.5	0.640	2.45	30.2	68.2	0.77	1540	2.59	0.04	7.7
K294974		0.85	6150	5.68	11.90	0.09	1.6	0.462	1.12	8.4	13.0	1.10	1720	21.2	1.60	3.2
K294975		13.95	133.0	4.75	16.85	0.12	1.6	1.300	2.98	28.7	30.2	0.81	1500	1.95	0.04	7.6
K294976		12.80	198.5	4.16	16.15	0.10	1.5	0.224	3.09	24.9	37.3	0.72	1400	1.24	0.04	7.0
K294977		9.64	115.0	4.78	17.45	0.15	1.3	4.84	3.55	36.5	8.3	0.52	2790	2.60	0.04	5.5
K294978		6.01	36.2	3.50	14.80	0.11	1.6	0.512	4.17	8.2	5.2	0.64	4240	4.53	0.04	6.5
K294979		7.06	139.5	1.63	14.55	0.09	1.7	0.126	4.22	9.5	5.9	0.59	1820	4.33	0.05	8.2
K294980		6.91	35.6	4.27	15.20	0.14	1.5	0.461	3.80	16.7	5.8	0.59	3580	14.85	0.04	6.1
K294981		0.06	4.1	0.14	0.32	0.11	<0.1	0.007	0.03	1.2	1.0	1.80	130	0.08	0.03	0.1
K294982		11.00	41.2	3.36	16.45	0.20	1.6	0.176	3.59	35.1	7.0	0.89	2420	1.27	0.04	6.6
K294983		6.58	80.3	4.88	17.15	0.13	1.4	0.980	3.69	29.3	5.7	0.66	2250	0.57	0.04	6.3
K294984		8.77	54.3	2.66	14.55	0.14	1.4	0.387	3.31	14.7	10.6	0.70	2290	1.53	0.03	5.9
K294985		7.80	23.2	1.45	13.40	0.14	1.6	0.094	3.94	5.9	6.9	0.63	2080	4.42	0.05	7.9
K294986		8.14	37.0	2.78	15.60	0.16	1.6	0.294	4.00	24.5	6.3	0.60	1660	5.63	0.04	6.8
K294987		15.55	203	4.77	14.30	0.12	1.7	3.41	2.05	17.6	51.6	1.65	4590	1.73	0.05	5.6
K294988		0.85	6110	5.65	12.00	0.10	1.6	0.454	1.11	8.2	13.2	1.10	1720	21.6	1.60	3.2
K294989		20.5	15.8	2.72	18.40	0.16	2.6	0.038	2.58	23.8	117.0	1.14	649	0.64	0.11	7.8
K294990		23.0	13.3	2.55	19.45	0.17	2.5	0.044	2.73	32.4	70.1	0.95	582	1.28	0.09	9.5
K294991		7.89	72.4	4.45	15.40	0.11	1.3	0.786	3.92	15.3	6.8	0.60	1840	1.25	0.05	6.2
K294992		4.43	199.0	6.71	14.65	0.09	1.6	1.935	3.98	6.4	4.8	0.31	300	2.72	0.07	6.3
K294993		4.39	23.3	6.61	16.35	0.14	1.4	0.191	3.70	23.2	4.2	0.30	107	1.36	0.05	6.0
K294994		4.07	28.0	9.11	15.20	0.13	1.4	0.128	3.56	25.5	3.9	0.29	110	1.59	0.05	5.4
K294995		4.04	186.0	10.30	13.65	0.10	1.3	0.922	2.84	10.8	6.0	0.20	109	2.18	0.04	3.6
K294996		5.09	29.2	4.08	15.00	0.12	1.6	0.606	4.03	15.5	4.9	0.45	518	1.53	0.06	6.6
K294997		20.1	48.6	3.63	18.35	0.15	2.0	0.636	3.65	33.8	20.8	0.91	2160	0.99	0.06	7.3
K294998		29.8	11.4	3.09	18.40	0.14	3.5	0.035	2.67	22.8	37.8	1.36	641	0.60	0.08	7.3
K294999		24.1	20.2	2.91	18.60	0.14	3.2	0.034	2.62	22.5	61.5	1.27	570	0.98	0.10	7.7
K295000		25.6	5.7	2.41	17.95	0.14	2.7	0.039	2.67	23.0	41.1	1.03	510	1.60	0.08	7.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247974

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K294961		9.8	850	15.8	58.9	<0.002	0.06	7.76	8.0	<1	1.3	529	0.49	<0.05	5.11	0.330
K294962		10.2	850	21.4	79.0	<0.002	0.04	4.60	8.7	<1	1.4	694	0.51	<0.05	6.11	0.337
K294963		5.6	920	23.1	79.0	<0.002	0.04	5.27	7.1	<1	1.7	672	0.67	<0.05	7.10	0.314
K294964		2.8	870	20.2	63.0	<0.002	0.07	4.33	5.2	<1	1.7	663	0.73	<0.05	7.46	0.252
K294965		2.6	920	19.0	62.6	<0.002	0.04	5.70	5.2	<1	1.6	718	0.73	<0.05	7.79	0.259
K294966		6.0	820	53.1	71.9	<0.002	0.38	8.67	6.5	1	2.1	350	0.63	0.07	7.44	0.268
K294967		5.7	810	54.5	83.6	<0.002	0.39	8.30	6.4	<1	2.0	347	0.58	0.06	8.13	0.262
K294968		7.0	720	132.0	148.5	<0.002	1.42	15.65	10.0	<1	3.0	195.0	0.55	0.23	10.25	0.286
K294969		4.3	640	151.5	236	<0.002	1.55	8.74	10.7	1	2.8	88.3	0.47	0.57	11.20	0.246
K294970		6.3	600	1365	217	0.003	4.00	13.00	10.3	2	13.3	83.8	0.52	0.99	10.50	0.232
K294971		6.9	600	4280	212	<0.002	5.84	22.3	10.9	3	21.9	70.1	0.46	1.78	8.62	0.242
K294972		4.2	570	530	215	<0.002	3.34	10.05	10.7	1	6.3	70.7	0.44	0.93	10.90	0.214
K294973		2.9	660	391	155.5	<0.002	1.59	16.30	11.8	1	4.3	123.5	0.57	0.35	12.50	0.270
K294974		28.2	450	>10000	28.2	0.011	2.27	448	11.6	2	1.9	189.0	0.19	1.21	1.83	0.239
K294975		2.6	660	682	192.0	<0.002	1.44	20.3	11.2	<1	7.8	82.6	0.58	0.33	12.40	0.268
K294976		2.8	610	1235	168.0	<0.002	2.76	35.5	10.5	1	6.5	112.5	0.53	2.59	11.60	0.251
K294977		2.7	620	4310	249	0.002	3.82	23.9	11.1	1	10.1	42.5	0.42	1.15	10.60	0.227
K294978		1.7	690	1090	281	0.002	1.64	10.40	12.2	1	6.1	30.3	0.51	1.21	12.65	0.244
K294979		1.6	740	164.0	286	<0.002	0.62	44.3	11.1	<1	2.2	58.7	0.60	0.18	13.45	0.284
K294980		2.5	660	3240	262	0.003	2.75	23.5	11.5	1	4.2	30.7	0.44	3.35	11.55	0.223
K294981		0.7	80	5.4	1.2	<0.002	0.01	0.14	0.2	<1	<0.2	78.9	<0.05	<0.05	0.09	0.005
K294982		2.3	630	149.5	228	<0.002	1.28	9.95	10.7	<1	3.1	103.0	0.53	0.32	12.95	0.236
K294983		2.4	690	2990	240	<0.002	4.08	29.5	11.7	1	8.6	36.0	0.45	0.94	10.45	0.236
K294984		1.8	610	1305	219	<0.002	1.89	20.1	11.2	1	4.4	65.6	0.46	0.51	11.65	0.213
K294985		2.1	700	140.0	270	0.002	0.77	19.25	11.7	1	1.8	52.4	0.59	0.21	12.80	0.264
K294986		2.2	670	1155	295	0.002	2.29	9.98	12.5	1	4.8	42.6	0.53	0.48	14.05	0.231
K294987		20.2	570	4360	107.5	<0.002	3.63	20.9	7.5	<1	5.9	294	0.39	0.15	6.31	0.199
K294988		28.7	450	>10000	28.6	0.012	2.26	448	11.5	2	2.0	189.0	0.21	1.20	1.79	0.236
K294989		6.1	790	28.0	80.8	<0.002	0.12	3.71	7.6	<1	1.5	298	0.54	<0.05	6.76	0.294
K294990		5.0	880	21.1	94.3	<0.002	0.23	5.05	7.9	<1	2.0	1015	0.63	<0.05	8.84	0.301
K294991		2.8	670	728	250	<0.002	3.40	22.6	11.8	<1	6.7	54.2	0.45	0.88	10.85	0.242
K294992		1.7	660	1785	243	<0.002	6.71	26.3	12.3	1	10.7	26.2	0.48	2.43	11.70	0.229
K294993		3.1	610	157.5	206	<0.002	6.92	3.15	11.0	1	11.6	13.1	0.47	5.48	10.50	0.229
K294994		4.0	560	147.5	203	<0.002	9.70	3.72	10.3	1	11.5	11.6	0.45	4.91	10.50	0.204
K294995		3.0	440	2820	157.5	0.002	>10.0	35.2	8.2	3	15.7	32.9	0.29	7.49	8.51	0.145
K294996		2.8	680	1170	230	<0.002	3.59	16.50	10.5	1	5.5	23.3	0.57	2.23	11.95	0.257
K294997		4.7	710	435	217	<0.002	1.10	9.05	11.3	<1	2.9	127.5	0.58	0.26	12.15	0.294
K294998		9.4	860	14.0	74.4	<0.002	0.13	5.05	8.8	<1	1.5	261	0.52	<0.05	6.31	0.345
K294999		7.4	830	14.0	67.5	<0.002	0.18	5.69	8.0	<1	1.4	240	0.54	<0.05	6.49	0.331
K295000		5.5	760	15.5	80.2	<0.002	0.24	4.33	7.7	<1	1.4	323	0.56	<0.05	7.08	0.300

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247974

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K294961		1.15	2.8	88	1.3	11.0	119	117.5	0.006
K294962		1.08	3.0	89	0.8	12.3	126	122.5	<0.005
K294963		1.30	3.5	73	1.1	11.1	97	106.5	0.005
K294964		1.24	4.0	51	1.1	10.5	77	85.6	<0.005
K294965		1.21	4.4	52	1.2	10.7	67	85.8	<0.005
K294966		1.49	5.0	61	1.3	11.6	184	96.5	0.082
K294967		1.45	5.2	60	1.2	11.8	173	91.4	0.080
K294968		2.39	5.7	80	2.8	15.9	256	78.9	0.233
K294969		3.11	4.3	76	2.5	15.0	295	45.8	0.138
K294970		2.86	3.6	73	4.7	10.8	2620	50.0	0.496
K294971		2.86	3.3	79	5.1	10.5	7810	46.0	2.87
K294972		2.92	2.6	75	3.5	12.6	1520	47.2	0.480
K294973		2.13	4.1	72	3.2	14.0	1460	46.3	0.344
K294974		0.47	1.3	80	0.5	13.9	5120	60.2	0.266
K294975		2.35	3.6	77	4.2	13.1	2080	45.5	0.244
K294976		2.54	4.5	74	4.6	11.4	2170	44.2	0.413
K294977		3.07	3.5	74	6.0	9.5	7700	41.4	0.733
K294978		3.55	4.2	76	6.1	8.7	1760	47.7	0.227
K294979		3.48	3.8	78	9.8	9.8	251	53.5	0.009
K294980		3.48	5.4	79	6.1	9.3	2180	46.3	0.182
K294981		0.03	0.1	1	<0.1	2.0	8	1.4	<0.005
K294982		3.04	5.2	78	2.9	12.4	267	46.3	0.073
K294983		3.26	3.6	82	5.8	10.6	3940	40.1	1.410
K294984		2.68	3.5	79	7.2	10.0	1950	43.7	0.523
K294985		3.62	3.2	79	8.9	9.8	283	51.9	0.022
K294986		3.70	2.9	82	9.8	10.2	1430	47.7	0.287
K294987		1.79	6.2	61	3.0	9.1	>10000	61.5	0.599
K294988		0.46	1.3	79	0.6	14.2	5140	66.9	0.267
K294989		1.53	3.1	75	1.5	12.7	74	90.2	<0.005
K294990		1.40	4.9	72	1.5	12.8	84	91.7	0.007
K294991		3.18	3.5	80	9.1	8.3	1650	41.3	0.810
K294992		2.82	2.9	73	10.5	5.8	5540	44.8	1.250
K294993		2.44	2.5	78	9.2	7.8	144	41.9	0.343
K294994		2.37	2.4	74	10.2	7.6	84	42.2	0.424
K294995		1.79	2.0	60	8.6	5.6	5310	34.1	1.040
K294996		2.94	3.2	76	11.9	6.6	1700	44.3	0.965
K294997		2.99	6.5	86	4.9	14.5	633	64.5	0.043
K294998		1.44	3.7	88	1.6	14.0	60	121.5	<0.005
K294999		1.40	3.6	81	1.5	13.4	59	111.0	0.006
K295000		1.63	4.0	73	2.0	12.9	70	89.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247974

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247976

Project: Klaza

P.O. No.: 19-064

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247976

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593732		4.68			0.08	7.60	14.0	2420	1.29	0.09	1.48	0.14	51.8	6.5	7	15.20
W593733		1.93			0.92	5.55	338	3380	1.20	0.05	4.73	2.08	58.2	4.0	5	12.55
W593734		4.49			0.16	8.32	16.7	1770	1.28	0.07	1.37	0.69	56.2	7.0	7	15.05
W593735		5.73			0.07	8.56	5.4	2440	1.25	0.07	1.37	0.18	61.2	6.9	8	15.70
W593736		2.84			0.24	7.10	138.0	1380	1.70	0.18	3.41	0.51	42.9	6.7	9	23.4
W593737		2.30			0.23	7.65	37.8	2570	1.27	0.09	1.84	0.25	45.5	7.7	7	16.10
W593738		2.50			0.32	7.52	129.5	2200	1.28	0.10	1.96	0.35	44.8	7.8	6	13.45
W593739		2.31			0.86	6.92	242	2160	1.57	0.09	2.45	0.81	43.6	7.1	6	15.70
W593740		4.83			0.07	6.96	12.6	2730	1.62	0.92	2.24	0.08	36.9	7.1	8	22.1
W593741		5.52			0.12	7.85	65.8	2270	1.39	0.05	1.79	0.20	50.5	6.9	7	17.55
W593742		0.95			0.78	5.64	348	3430	1.45	0.03	4.28	2.26	42.3	5.4	6	16.25
W593743		2.22			0.33	7.59	110.0	2240	1.94	0.05	2.65	0.51	48.7	6.5	6	16.00
W593744		5.08			<0.01	0.11	0.3	70	0.08	<0.01	34.3	0.02	1.20	0.9	1	0.10
W593745		2.06			1.43	6.64	672	1240	1.53	0.03	2.97	0.72	39.9	6.5	6	14.75
W593746		6.63			1.30	6.81	28.8	2170	1.37	31.9	2.52	0.12	37.2	6.7	7	22.0
W593747		2.42			0.13	6.96	18.2	>10000	1.49	0.06	2.49	0.14	39.4	6.6	7	19.60
W593748		3.34			0.40	7.54	78.0	1950	1.77	0.32	2.44	0.42	55.1	8.0	7	18.50
W593749		4.38			0.03	7.16	10.5	1960	1.67	0.03	2.38	0.07	39.2	6.2	9	20.2
W593750		5.59			0.15	6.97	50.2	1440	1.65	0.08	2.40	0.07	44.2	6.7	7	18.55
W593751		2.13			0.98	6.86	680	1120	1.57	0.08	2.48	0.52	48.4	6.2	6	19.05
W593752		0.26			37.9	5.99	2690	1390	1.12	36.1	1.79	44.6	38.8	15.8	23	9.63
W593753		2.26			0.30	7.10	201	2170	1.54	0.08	2.95	1.35	48.7	5.1	7	20.1
W593754		1.39			0.61	6.79	90.2	2110	1.50	0.28	3.09	1.08	51.5	7.9	7	16.65
W593755		0.93			93.9	4.26	3190	700	1.20	0.14	3.40	10.65	33.5	9.5	8	12.00
W593756		2.92			16.55	7.70	399	2400	1.49	0.02	2.01	1.83	43.6	6.6	7	13.55
W593757		8.05			0.54	6.93	65.9	2280	1.52	0.02	2.67	0.22	41.6	6.7	7	22.2
W593758		1.03			1.45	6.17	1445	1210	1.45	0.01	2.16	1.07	37.2	8.1	5	14.30
W593759		2.52			0.34	7.81	149.5	2080	1.37	0.02	1.80	0.13	49.2	6.9	7	19.30
W593760		1.47			1.11	7.07	1065	960	1.50	0.03	2.10	0.68	45.9	7.9	6	19.20
W593761		1.84			1.30	5.56	443	450	1.40	0.03	1.97	5.05	44.5	9.6	5	15.85
W593762		<0.02			1.34	5.62	444	470	1.40	0.03	2.02	4.87	42.6	7.9	5	15.05
W593763		4.37			0.67	7.58	360	2040	1.51	0.05	1.66	0.40	47.9	7.3	6	16.70
W593764		4.81			0.14	7.72	12.8	1920	1.42	0.03	1.33	0.12	50.3	6.8	7	18.10
W593765		2.23			0.09	7.34	6.2	2320	1.68	0.03	2.69	0.06	46.9	6.4	8	22.1
W593766		1.52			0.11	6.98	11.4	2250	1.42	0.04	2.54	0.08	41.4	6.5	8	19.60
W593767		3.52			0.48	6.79	99.3	3210	1.59	0.08	2.11	0.21	45.1	6.7	7	18.95
W593768		3.42			0.08	6.85	35.6	2450	1.56	0.04	2.73	0.10	39.1	6.4	9	24.7
W593769		2.39			0.22	6.43	84.6	3430	1.69	0.08	3.19	0.18	43.8	7.0	8	20.1
W593770		8.96			0.07	7.47	7.0	2450	1.73	0.04	2.53	0.09	49.7	6.9	11	13.10
W593771		0.26	100	1.015	>100	5.64	253	620	0.75	4.87	1.47	26.2	19.95	11.6	63	0.83

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247976

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593732		10.5	2.74	16.80	0.16	1.4	0.036	3.22	25.3	32.2	0.54	1000	1.64	0.49	8.3	2.0
W593733		4.7	2.40	11.20	0.12	1.8	0.016	3.14	33.0	16.6	1.37	18350	1.25	0.05	5.4	1.0
W593734		9.8	2.91	17.15	0.15	1.5	0.040	2.93	28.4	59.0	0.55	1300	1.38	0.08	8.4	2.3
W593735		9.0	2.92	17.55	0.14	1.6	0.041	3.27	32.1	33.8	0.57	845	1.09	0.65	8.8	1.9
W593736		5.5	2.82	15.75	0.14	1.3	0.034	3.48	21.3	15.5	1.01	2750	1.06	0.05	7.3	2.1
W593737		10.1	2.91	16.05	0.14	1.4	0.035	3.24	21.9	67.4	0.64	1580	0.75	0.16	7.6	2.3
W593738		13.8	3.08	15.75	0.15	1.5	0.034	3.17	21.8	58.4	0.69	1800	0.86	0.13	7.7	2.4
W593739		6.8	2.59	15.40	0.16	1.3	0.032	3.95	20.9	51.8	0.75	4080	1.53	0.09	7.5	2.1
W593740		6.9	2.77	15.80	0.15	1.4	0.049	3.27	17.4	61.0	0.77	825	1.55	1.36	7.8	2.1
W593741		16.3	2.94	16.25	0.14	1.5	0.047	2.97	25.8	49.9	0.69	1390	2.19	0.06	7.9	2.1
W593742		6.5	2.54	11.75	0.12	1.0	0.023	2.80	22.4	34.8	1.21	14650	2.30	0.04	5.5	1.6
W593743		9.9	2.72	16.15	0.14	1.3	0.038	2.92	23.5	258	0.88	2650	1.39	0.04	8.0	1.8
W593744		2.1	0.15	0.40	0.17	0.1	<0.005	0.04	1.2	1.6	1.96	144	<0.05	0.04	0.2	0.6
W593745		9.2	2.81	14.15	0.11	1.2	0.030	3.16	18.8	45.2	0.81	13850	2.99	0.03	6.8	2.1
W593746		109.5	2.81	16.15	0.16	1.3	0.048	3.21	16.3	32.3	0.62	1080	0.85	0.59	8.0	2.1
W593747		5.5	2.72	15.60	0.17	1.3	0.036	3.28	19.3	91.4	0.79	1420	0.59	0.06	7.8	2.0
W593748		193.0	3.28	17.10	0.19	1.4	0.076	3.26	28.7	121.5	0.88	2720	1.21	0.03	8.1	2.5
W593749		7.8	2.79	16.25	0.16	1.4	0.038	3.46	17.9	209	0.71	1150	0.48	0.51	8.0	2.0
W593750		6.2	2.76	15.55	0.15	1.4	0.040	3.25	20.5	123.0	0.69	2790	0.68	0.31	7.7	2.1
W593751		7.0	3.12	14.55	0.16	1.2	0.037	3.26	25.6	19.4	0.80	5580	4.22	0.02	7.0	2.2
W593752		1250	9.62	13.45	0.11	0.9	1.510	2.79	20.0	15.7	0.73	2390	15.65	0.06	4.6	13.6
W593753		6.2	2.74	14.90	0.14	1.4	0.044	3.25	24.3	63.8	1.01	3040	2.77	0.02	7.2	2.0
W593754		20.8	3.49	14.55	0.16	1.4	0.081	3.32	26.7	18.9	1.05	3370	1.43	0.02	7.0	2.4
W593755		79.0	3.59	10.05	0.09	0.8	0.033	2.01	17.1	39.3	0.98	32900	14.00	0.02	4.4	1.8
W593756		20.6	2.99	17.10	0.14	1.7	0.039	3.55	20.7	35.9	0.63	2780	1.34	0.85	8.4	2.1
W593757		7.5	2.78	15.60	0.16	1.5	0.031	3.49	18.7	44.0	0.66	1960	0.92	0.93	7.8	2.0
W593758		12.4	2.76	14.55	0.12	1.3	0.031	3.67	16.9	39.6	0.64	14200	1.15	0.09	6.7	2.2
W593759		8.5	2.84	17.05	0.15	1.6	0.036	3.81	24.0	57.7	0.64	2020	0.86	0.22	8.4	2.2
W593760		11.8	2.84	15.35	0.15	1.5	0.031	3.15	22.6	39.3	0.71	3310	1.11	0.03	7.4	2.3
W593761		22.2	2.15	12.80	0.09	1.1	0.024	1.92	23.0	82.6	0.61	14500	2.43	0.02	5.5	4.4
W593762		20.7	2.20	13.20	0.09	1.0	0.023	1.95	22.4	84.1	0.62	14100	2.09	0.02	5.6	2.5
W593763		10.9	2.52	15.15	0.12	1.2	0.036	2.87	24.2	97.0	0.59	2500	2.48	0.06	7.1	2.3
W593764		10.1	2.56	15.55	0.13	1.2	0.037	2.70	25.1	137.0	0.49	1080	2.11	0.17	7.7	2.0
W593765		8.7	2.62	15.35	0.15	1.3	0.037	2.79	23.1	16.2	0.65	700	3.09	2.30	7.3	2.3
W593766		11.7	2.42	14.95	0.16	1.2	0.041	2.95	19.5	106.5	0.68	1020	3.90	0.35	7.4	2.3
W593767		11.0	2.56	14.85	0.13	1.3	0.031	2.80	21.1	240	0.68	2100	1.89	0.18	7.2	2.2
W593768		7.7	2.66	15.25	0.16	1.2	0.032	3.01	17.8	18.5	0.60	842	1.37	1.86	7.6	2.3
W593769		6.8	2.73	13.70	0.16	1.1	0.032	3.12	21.6	15.3	0.84	2320	1.59	0.13	6.8	2.4
W593770		8.0	2.72	15.85	0.16	1.2	0.040	2.89	23.9	17.2	0.68	675	1.08	2.33	7.7	2.3
W593771		6320	5.90	11.75	0.10	1.5	0.444	1.15	7.9	13.4	1.13	1760	21.5	1.67	3.1	28.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247976

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593732		590	20.0	124.0	<0.002	0.10	18.25	9.9	<1	1.9	121.0	0.67	<0.05	11.80	0.260	1.54
W593733		180	191.0	148.5	<0.002	0.42	24.9	3.2	<1	1.4	179.0	0.70	<0.05	17.60	0.087	1.88
W593734		620	22.6	121.5	<0.002	0.08	21.6	10.7	<1	2.0	95.3	0.67	<0.05	13.75	0.273	1.45
W593735		670	19.3	133.5	0.002	0.04	12.30	11.1	1	2.1	133.5	0.69	<0.05	13.50	0.284	1.41
W593736		530	23.6	127.5	<0.002	0.94	50.4	8.6	<1	1.8	100.0	0.59	<0.05	10.55	0.236	1.97
W593737		580	18.2	115.5	<0.002	0.41	23.3	9.3	<1	2.3	123.0	0.64	<0.05	10.75	0.255	1.89
W593738		590	20.4	110.5	<0.002	0.49	26.4	9.1	<1	2.7	122.5	0.65	<0.05	10.75	0.254	1.91
W593739		550	40.9	137.5	<0.002	1.22	28.2	9.0	<1	1.8	144.5	0.60	<0.05	9.93	0.241	2.89
W593740		550	15.6	114.5	<0.002	0.07	10.40	8.8	<1	1.6	389	0.63	<0.05	9.65	0.248	1.74
W593741		610	18.3	116.5	<0.002	0.29	24.3	10.3	1	1.7	154.0	0.61	<0.05	11.90	0.267	1.69
W593742		390	53.3	130.5	<0.002	0.98	33.5	7.0	<1	1.3	260	0.43	<0.05	8.41	0.183	2.06
W593743		610	21.0	93.3	0.002	0.46	27.7	9.2	<1	1.9	309	0.67	<0.05	11.45	0.260	2.08
W593744		70	0.5	1.3	<0.002	0.04	0.14	0.2	1	<0.2	80.0	<0.05	<0.05	0.13	0.006	0.02
W593745		510	32.9	104.0	<0.002	1.65	40.1	7.4	1	1.7	182.5	0.57	<0.05	9.28	0.229	2.51
W593746		570	26.0	104.5	<0.002	0.12	17.00	8.6	<1	1.6	174.0	0.64	<0.05	8.65	0.256	1.70
W593747		570	15.6	107.5	<0.002	0.37	23.1	9.0	<1	1.5	186.0	0.64	<0.05	10.10	0.252	1.79
W593748		560	20.1	191.5	<0.002	1.19	115.0	10.4	<1	2.0	151.0	0.63	<0.05	12.45	0.249	2.30
W593749		600	13.6	119.0	<0.002	0.07	18.95	8.9	<1	1.8	203	0.64	<0.05	9.49	0.262	1.83
W593750		580	15.5	124.5	<0.002	0.41	25.0	8.9	<1	1.7	175.0	0.63	<0.05	10.00	0.251	2.00
W593751		500	19.0	197.5	<0.002	1.84	37.4	9.2	<1	1.8	87.2	0.56	<0.05	11.45	0.219	2.24
W593752		470	1700	148.5	0.002	8.24	105.5	7.6	1	10.9	64.4	0.40	0.77	8.87	0.180	2.25
W593753		520	21.6	154.5	<0.002	0.55	28.2	8.7	<1	1.6	237	0.60	<0.05	10.95	0.233	2.15
W593754		510	50.1	207	<0.002	1.50	41.3	9.0	<1	1.4	86.6	0.58	<0.05	12.00	0.216	2.39
W593755		310	1030	120.0	<0.002	1.99	333	6.1	<1	1.9	91.8	0.36	<0.05	6.43	0.143	1.55
W593756		610	182.5	122.5	<0.002	0.32	47.8	9.5	<1	1.8	196.5	0.70	<0.05	11.35	0.264	1.80
W593757		550	22.8	122.0	<0.002	0.24	15.95	8.4	<1	1.9	236	0.65	<0.05	9.92	0.249	1.97
W593758		460	57.5	137.0	0.002	1.54	54.5	7.7	<1	2.7	157.0	0.54	<0.05	8.68	0.208	2.97
W593759		600	21.7	141.0	<0.002	0.62	24.2	9.6	<1	2.1	147.0	0.69	<0.05	13.15	0.263	2.29
W593760		510	30.1	126.0	<0.002	1.84	60.7	8.4	<1	2.4	142.0	0.65	<0.05	11.20	0.227	2.83
W593761		400	76.3	99.3	<0.002	1.34	60.7	7.1	<1	3.2	154.5	0.50	<0.05	11.10	0.172	1.89
W593762		400	73.6	99.8	<0.002	1.39	61.4	7.2	<1	3.4	155.5	0.52	<0.05	10.65	0.176	1.86
W593763		570	19.1	119.5	<0.002	0.63	28.8	9.4	1	2.0	132.5	0.60	<0.05	12.20	0.237	1.75
W593764		590	15.0	109.0	<0.002	0.11	20.3	9.4	<1	2.0	142.5	0.66	<0.05	12.90	0.251	1.15
W593765		560	15.9	103.0	<0.002	0.02	4.19	8.8	<1	1.6	391	0.59	<0.05	11.50	0.234	0.98
W593766		550	14.5	102.5	<0.002	0.13	18.45	9.0	<1	1.8	182.0	0.60	<0.05	10.90	0.244	1.59
W593767		530	16.5	104.5	<0.002	0.40	41.1	8.8	<1	1.7	250	0.60	<0.05	10.80	0.230	1.73
W593768		580	15.0	103.0	<0.002	0.07	9.72	8.8	<1	1.4	351	0.60	<0.05	9.38	0.253	1.39
W593769		500	12.1	139.0	<0.002	0.83	19.40	8.4	<1	1.3	109.5	0.59	<0.05	10.75	0.215	2.12
W593770		590	17.2	105.5	<0.002	0.02	3.51	9.6	<1	1.5	388	0.64	<0.05	11.80	0.249	1.04
W593771		470	>10000	29.0	0.013	2.37	462	11.8	2	1.9	197.5	0.21	1.34	1.82	0.247	0.51

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247976

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593732		3.3	67	3.8	16.6	62	38.4	<0.005
W593733		5.4	25	1.4	14.4	232	48.9	0.156
W593734		4.3	70	6.3	18.1	98	43.0	<0.005
W593735		3.5	73	3.5	19.5	70	44.0	<0.005
W593736		4.8	62	1.9	13.8	77	37.1	0.065
W593737		2.6	69	3.5	15.2	76	39.1	0.034
W593738		2.6	69	4.3	14.7	86	39.0	0.162
W593739		4.9	63	2.9	13.7	101	38.2	0.201
W593740		3.5	67	1.6	14.6	53	37.9	<0.005
W593741		3.1	70	3.4	17.4	71	41.6	0.049
W593742		6.1	47	2.0	13.7	235	28.1	0.294
W593743		2.9	69	2.1	14.6	93	37.5	0.040
W593744		0.2	2	<0.1	2.1	5	1.7	<0.005
W593745		4.6	60	4.5	12.1	129	32.5	0.643
W593746		3.9	67	2.5	13.6	61	38.4	0.027
W593747		2.6	68	2.7	14.8	64	37.8	<0.005
W593748		4.7	70	2.7	15.0	76	39.7	0.006
W593749		3.0	69	1.9	13.0	58	38.7	<0.005
W593750		3.4	66	2.1	14.0	52	38.6	0.007
W593751		13.0	58	1.6	13.8	135	34.2	0.164
W593752		5.3	58	7.6	9.2	3490	23.2	1.750
W593753		5.7	62	2.1	13.7	181	38.4	0.202
W593754		7.0	59	2.8	15.4	101	37.7	0.025
W593755		9.5	42	3.1	11.1	2230	21.7	2.70
W593756		3.6	70	1.9	15.4	469	41.8	0.144
W593757		4.1	66	2.2	14.9	77	43.0	0.024
W593758		9.9	56	5.2	13.1	177	37.1	1.705
W593759		4.1	69	3.6	16.4	65	45.3	0.067
W593760		4.7	61	6.2	14.3	124	40.9	0.454
W593761		5.5	46	4.7	11.5	580	32.2	0.539
W593762		5.9	47	4.5	11.8	557	32.2	0.519
W593763		3.0	63	4.8	15.3	104	34.8	0.156
W593764		3.0	64	3.5	16.3	66	37.4	0.006
W593765		2.8	62	0.6	16.3	56	38.5	<0.005
W593766		4.1	65	1.9	15.3	52	37.4	<0.005
W593767		7.2	61	2.3	13.3	62	37.7	0.106
W593768		2.8	66	1.4	14.3	57	35.7	<0.005
W593769		4.5	57	1.6	16.2	54	32.8	0.007
W593770		2.8	65	0.9	17.4	58	37.7	<0.005
W593771		1.3	81	0.5	14.6	5260	59.6	0.316

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247976

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

CERTIFICATE WH19247978

Project: Klaza

P.O. No.: 19-065

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247978

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295001		2.77			1.22	7.60	158.5	1690	1.94	1.51	2.75	2.81	53.0	10.4	9	20.0
K295002		3.66			0.21	7.08	34.2	3080	1.98	0.27	2.85	0.20	46.8	8.5	16	26.8
K295003		5.75			0.12	7.31	22.6	1240	1.83	0.26	3.03	0.06	55.0	7.9	11	22.9
K295004		5.58			0.08	7.01	16.0	1950	1.64	0.13	3.36	0.06	45.6	5.9	11	21.2
K295005		5.92			0.08	7.34	18.7	1310	1.65	0.13	3.26	0.06	48.2	6.8	12	19.55
K295006		5.69			0.09	6.97	23.2	1960	1.81	0.11	3.12	0.09	47.5	7.0	15	19.60
K295007		0.26	102	1.020	100.0	5.31	236	600	0.68	4.69	1.40	25.4	18.75	11.4	61	0.85
K295008		2.76			1.27	6.68	173.5	1520	1.61	1.48	3.36	0.48	47.3	9.1	16	13.90
K295009		1.96			3.54	6.36	3130	240	1.89	5.83	1.17	0.90	32.5	7.8	10	4.85
K295010		2.16			0.83	8.14	126.5	1490	1.75	0.67	2.15	6.43	57.2	5.7	9	17.90
K295011		5.43			0.29	7.67	28.7	2340	1.65	0.58	2.30	0.12	50.8	8.6	9	14.40
K295012		4.80			2.17	6.90	16.2	2010	1.60	0.28	3.42	0.15	42.5	6.4	11	14.65
K295013		4.76			0.20	7.27	14.9	2520	1.81	0.41	2.75	0.17	41.9	7.0	10	12.80
K295014		<0.02			0.18	7.14	13.4	2520	1.64	0.39	2.72	0.15	38.5	6.8	11	12.30
K295015		5.50			2.13	7.18	105.5	2750	1.69	0.74	2.99	5.81	46.5	9.0	9	13.90
K295016		6.68			0.81	7.59	31.3	1810	1.70	0.57	2.15	5.77	49.8	5.5	9	10.95
K295017		3.72			3.83	6.73	709	1410	1.75	1.30	2.94	26.1	44.6	12.8	9	15.95
K295018		4.41			2.53	7.25	101.0	750	1.62	0.98	2.53	10.75	51.7	5.7	9	16.30
K295019		2.80			0.38	7.59	78.9	2200	1.41	0.54	1.84	2.64	43.6	5.5	10	12.90
K295020		4.08			0.56	7.04	196.5	2180	1.61	0.38	2.60	2.86	40.1	5.9	11	12.15
K295021		0.26	102	1.015	>100	5.58	251	630	0.74	4.74	1.46	26.1	19.70	11.7	64	0.84
K295022		5.84			0.38	7.35	12.8	1970	1.65	0.44	2.82	0.37	45.4	5.7	11	13.80
K295023		6.51			0.47	7.31	14.3	2250	1.63	0.35	2.71	1.28	42.8	5.0	12	10.90
K295024		6.13			0.50	7.33	23.3	2000	1.45	0.73	2.20	0.62	46.3	9.8	9	17.15
K295025		4.48			0.47	7.20	22.5	2190	1.49	0.84	2.59	0.90	45.8	8.7	10	18.10
K295026		3.80			1.95	6.79	64.5	1520	1.50	3.05	1.62	1.49	43.3	21.1	9	12.85
K295027		3.52			0.36	7.67	28.3	1880	1.60	2.42	1.81	0.19	46.4	6.0	9	12.20
K295028		5.06			<0.01	0.14	<0.2	40	0.13	0.03	33.9	0.02	1.15	1.3	1	0.08
K295029		2.43			0.25	7.53	12.3	5450	1.19	2.21	1.15	0.26	51.9	5.9	9	9.45
K295030		1.36			8.98	7.00	251	1200	1.45	5.10	1.71	33.0	64.4	8.1	8	14.80
K295031		2.21			1.35	7.67	36.8	1830	1.40	3.62	2.06	0.84	54.9	3.4	9	12.50
K295032		2.12			4.03	7.46	111.0	720	1.53	8.18	2.06	2.48	54.5	3.9	10	9.69
K295033		2.19			0.85	7.86	28.0	830	1.52	3.07	2.49	0.45	62.9	6.2	10	15.15
K295034		1.92			0.88	7.63	31.0	1810	1.83	3.24	2.62	0.40	56.0	6.2	9	17.35
K295035		2.93			0.38	7.85	27.3	3040	1.71	1.34	1.69	0.40	45.7	15.1	8	22.4
K295036		3.67			0.39	8.52	28.6	3990	1.75	1.74	1.32	0.18	55.9	22.9	10	10.80
K295037		4.29			0.37	7.28	10.4	2590	1.52	1.16	3.07	0.15	46.3	6.4	9	10.85
K295038		1.39			0.16	7.67	10.3	2490	1.56	0.61	2.65	0.13	45.3	16.8	13	8.65
K295039		9.83			0.13	7.90	7.1	2430	1.58	0.35	1.77	0.20	46.5	5.8	10	11.05
K295040		7.40			0.62	7.65	41.7	1610	2.13	0.71	2.03	4.18	62.4	4.5	14	17.80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247978

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295001		19.0	4.09	15.20	0.11	1.2	0.252	3.24	26.7	72.5	1.06	1100	3.90	0.06	6.7	3.4
K295002		13.4	2.74	17.45	0.12	2.7	0.043	2.61	21.1	49.9	1.15	552	1.30	0.11	7.4	6.7
K295003		9.1	2.49	17.85	0.17	2.4	0.037	2.72	26.2	53.4	1.11	500	0.91	0.11	7.8	4.6
K295004		7.2	2.57	17.20	0.15	2.3	0.032	2.77	20.2	93.2	1.15	501	0.32	0.09	7.8	4.2
K295005		7.6	2.54	16.45	0.12	2.2	0.032	2.69	22.0	63.8	1.16	488	0.95	0.12	7.5	4.4
K295006		8.1	2.59	17.35	0.15	2.7	0.034	2.34	20.7	154.0	1.20	543	0.83	0.14	7.2	6.4
K295007		5960	5.56	11.35	0.11	1.4	0.431	1.08	7.6	13.2	1.07	1680	19.95	1.57	3.0	27.1
K295008		24.1	3.92	15.90	0.13	2.3	0.108	2.16	21.9	150.5	1.33	586	1.67	0.17	6.0	7.2
K295009		25.7	12.75	17.15	0.09	1.0	0.632	3.10	13.6	13.8	0.54	413	10.35	0.05	5.8	2.7
K295010		21.4	3.53	18.05	0.13	1.4	0.362	2.89	29.1	74.4	0.81	1060	1.67	0.12	8.4	2.7
K295011		21.2	3.27	17.15	0.13	1.3	0.102	2.98	24.9	33.1	0.90	571	1.59	0.67	7.8	2.6
K295012		11.7	2.93	15.65	0.15	1.3	0.060	2.62	20.5	20.6	0.90	709	8.70	1.54	7.6	3.3
K295013		9.7	3.23	16.95	0.14	1.3	0.068	2.64	19.3	17.5	0.89	579	5.06	1.89	8.1	2.9
K295014		8.4	3.17	15.85	0.12	1.3	0.060	2.62	18.2	16.2	0.87	572	5.66	1.87	7.7	2.8
K295015		17.4	3.35	15.95	0.16	1.2	0.162	3.27	22.3	17.9	0.89	1080	7.15	0.81	7.2	2.6
K295016		8.7	3.56	16.00	0.14	1.4	0.314	3.54	24.8	19.4	0.80	1270	5.49	0.06	6.8	2.3
K295017		56.9	3.68	15.65	0.14	1.2	0.319	3.14	21.3	11.3	1.01	1370	8.04	0.06	6.3	3.4
K295018		20.5	4.61	15.20	0.15	1.2	0.244	3.22	26.4	15.5	1.02	1630	10.00	0.07	6.7	2.7
K295019		11.3	3.21	16.65	0.13	1.1	0.098	3.15	20.7	24.6	0.59	650	1.94	0.18	7.7	2.2
K295020		13.6	3.34	15.55	0.15	1.2	0.067	2.95	18.8	16.0	0.78	726	3.63	1.46	7.3	2.4
K295021		6270	5.84	12.05	0.13	1.4	0.464	1.14	7.8	13.0	1.13	1760	19.50	1.65	3.1	27.6
K295022		10.4	3.12	15.10	0.13	1.2	0.074	2.86	22.6	20.1	0.89	788	3.63	1.28	7.0	2.4
K295023		8.6	3.34	15.60	0.15	1.3	0.098	2.88	20.5	16.9	0.82	732	3.27	1.88	7.5	2.5
K295024		13.4	3.76	15.80	0.15	1.2	0.124	2.85	22.9	28.0	0.86	959	3.40	0.33	6.9	2.6
K295025		15.3	3.31	15.35	0.14	1.2	0.104	2.80	22.6	27.7	0.95	1000	0.93	0.05	7.0	2.3
K295026		16.6	4.37	13.85	0.09	1.1	0.208	3.14	23.3	12.6	0.72	1260	1.99	0.03	5.2	4.0
K295027		31.2	3.27	16.85	0.14	1.3	0.225	2.79	24.8	31.7	0.72	855	1.40	0.06	7.4	2.5
K295028		2.5	0.14	0.49	0.06	0.1	0.006	0.04	1.3	1.4	1.80	136	0.06	0.06	0.3	1.0
K295029		23.9	3.14	14.70	0.18	1.3	0.173	1.88	28.5	50.4	0.58	798	5.02	0.04	7.5	6.6
K295030		85.3	4.16	14.45	0.09	1.0	1.155	3.10	34.7	21.0	0.80	1130	6.43	0.04	5.9	3.6
K295031		69.8	3.25	16.30	0.14	1.2	0.241	3.33	30.4	26.4	0.88	1240	18.40	0.05	7.4	2.3
K295032		57.8	4.19	17.25	0.09	1.2	0.371	3.61	28.6	9.3	0.85	2700	3.64	0.03	7.0	2.0
K295033		16.7	4.44	17.10	0.11	1.2	0.538	3.80	33.4	18.5	1.03	1140	4.50	0.06	6.5	3.0
K295034		23.9	4.49	18.85	0.13	1.2	0.579	3.87	29.1	16.5	1.03	1240	5.03	0.06	7.0	3.5
K295035		38.7	3.84	16.70	0.08	1.2	0.263	2.64	24.7	35.1	0.72	1060	8.69	0.04	6.5	3.2
K295036		34.4	4.02	17.65	0.12	1.3	0.283	3.15	30.2	31.7	0.63	1100	14.60	0.06	7.2	7.2
K295037		22.2	3.21	16.50	0.17	1.2	0.114	2.84	24.8	21.8	0.94	735	3.80	1.09	7.6	3.3
K295038		5.4	2.57	16.70	0.21	1.3	0.067	3.13	23.6	17.4	0.84	629	9.51	1.80	7.9	3.1
K295039		4.3	3.08	17.45	0.18	1.4	0.056	2.85	24.0	29.6	0.62	582	6.13	1.14	8.2	2.6
K295040		15.0	2.68	19.70	0.16	2.6	0.062	2.31	33.1	41.5	0.51	663	1.43	0.22	11.9	4.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247978

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295001		670	272	192.5	0.002	1.44	6.32	11.7	1	3.2	154.5	0.54	0.20	10.75	0.280	2.47
K295002		810	18.5	70.8	<0.002	0.35	4.11	8.1	<1	1.3	224	0.55	<0.05	6.65	0.314	1.61
K295003		830	11.4	89.6	<0.002	0.31	3.54	7.5	<1	1.3	252	0.56	<0.05	7.71	0.292	1.50
K295004		840	8.9	70.9	<0.002	0.11	3.78	6.9	<1	1.3	308	0.58	<0.05	6.44	0.293	1.43
K295005		840	9.6	71.8	<0.002	0.26	3.13	6.8	<1	1.3	262	0.53	<0.05	6.77	0.302	1.49
K295006		770	10.3	65.8	0.002	0.22	4.82	7.8	<1	1.2	228	0.50	<0.05	6.45	0.302	1.40
K295007		450	10000	28.9	0.012	2.23	430	11.2	2	1.9	187.0	0.19	1.41	1.76	0.231	0.44
K295008		590	69.4	93.4	<0.002	2.10	8.27	8.7	1	2.9	189.5	0.44	0.48	6.73	0.275	1.75
K295009		560	165.5	155.5	0.005	>10.0	13.10	10.6	2	9.6	49.5	0.46	1.97	7.46	0.221	2.81
K295010		760	205	135.5	<0.002	1.03	8.66	12.4	<1	3.7	140.5	0.65	0.08	11.80	0.320	1.94
K295011		680	15.4	107.0	<0.002	0.32	5.57	11.5	<1	2.1	238	0.64	0.13	10.95	0.293	1.38
K295012		650	15.7	88.6	0.013	0.16	4.90	10.6	1	1.7	285	0.59	0.06	9.62	0.279	1.07
K295013		670	17.9	87.6	0.004	0.25	4.03	11.5	<1	1.9	347	0.63	0.09	9.28	0.288	1.12
K295014		650	16.6	86.3	0.005	0.24	3.79	10.7	<1	1.8	344	0.61	0.06	8.79	0.289	1.06
K295015		630	374	165.5	0.012	0.76	9.48	10.8	<1	3.2	248	0.54	0.13	10.40	0.261	2.01
K295016		620	232	197.0	0.008	0.37	8.42	10.5	<1	3.0	111.5	0.57	0.07	11.85	0.247	2.57
K295017		580	509	138.0	0.011	1.15	13.25	9.7	<1	4.5	146.0	0.52	0.15	9.76	0.239	2.31
K295018		600	662	193.5	0.004	2.94	9.37	11.6	<1	3.2	90.4	0.53	0.10	11.10	0.252	2.76
K295019		680	82.7	123.0	0.002	0.20	7.90	11.8	<1	2.5	142.0	0.57	<0.05	9.67	0.293	1.72
K295020		640	148.5	107.0	0.005	0.21	4.98	10.5	<1	2.0	316	0.56	<0.05	8.94	0.276	1.39
K295021		460	>10000	29.8	0.010	2.35	466	11.6	2	1.9	195.5	0.20	1.30	1.86	0.245	0.46
K295022		630	34.0	119.5	0.004	0.18	8.31	10.7	<1	2.1	285	0.58	0.05	11.55	0.257	1.48
K295023		630	111.5	97.9	0.004	0.08	4.04	10.4	<1	1.9	352	0.65	<0.05	10.70	0.277	1.27
K295024		640	49.3	112.5	0.004	0.34	8.87	10.8	<1	2.5	164.0	0.54	0.09	10.75	0.261	1.79
K295025		630	52.3	112.5	<0.002	0.36	9.60	10.3	<1	2.3	135.0	0.58	0.07	10.45	0.262	1.98
K295026		540	66.3	185.5	0.002	3.79	11.60	9.5	1	3.3	58.4	0.44	0.50	9.68	0.207	3.05
K295027		660	12.6	108.5	<0.002	0.60	10.75	11.0	<1	2.4	112.5	0.63	0.19	12.05	0.273	1.80
K295028		70	0.9	1.1	<0.002	0.01	0.08	0.3	<1	<0.2	82.7	<0.05	<0.05	0.18	0.008	0.03
K295029		660	12.8	96.7	0.003	0.50	19.55	11.0	<1	2.1	126.0	0.57	0.08	12.30	0.270	1.29
K295030		590	1955	202	0.002	2.29	33.7	10.2	1	3.8	69.3	0.47	0.28	11.45	0.240	2.65
K295031		620	47.4	161.0	0.005	0.98	16.50	11.3	<1	4.1	105.5	0.62	0.17	13.85	0.264	2.37
K295032		640	198.5	214	0.002	2.72	12.60	11.4	1	5.8	40.7	0.56	0.60	10.70	0.268	3.08
K295033		670	39.1	184.5	0.005	1.94	7.36	11.3	1	3.7	140.5	0.50	0.45	11.75	0.256	2.78
K295034		670	36.2	165.0	0.004	1.84	8.97	11.6	1	3.7	151.5	0.54	0.46	10.50	0.266	2.99
K295035		650	31.7	155.5	0.002	0.95	11.90	12.0	<1	3.0	77.7	0.52	0.18	11.85	0.246	2.22
K295036		710	16.6	148.5	0.011	0.84	12.05	13.0	<1	3.3	82.7	0.56	0.22	13.65	0.265	2.07
K295037		630	14.8	112.5	0.002	0.11	6.11	11.9	<1	2.5	235	0.61	<0.05	11.35	0.269	1.53
K295038		640	12.1	135.5	0.008	0.11	8.14	11.7	<1	2.1	298	0.62	<0.05	11.95	0.280	1.95
K295039		640	15.1	105.0	0.007	0.07	8.21	11.5	<1	2.1	229	0.65	<0.05	12.95	0.281	1.19
K295040		920	48.8	78.3	<0.002	0.03	10.20	6.8	1	1.8	172.5	0.80	0.06	10.30	0.281	1.58

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19247978

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295001		5.6	83	4.0	15.1	273	39.5	0.034
K295002		3.8	77	1.6	13.2	65	97.3	<0.005
K295003		4.4	69	1.2	13.5	52	84.3	<0.005
K295004		3.0	69	1.6	12.3	62	82.4	<0.005
K295005		4.0	69	1.1	11.9	55	80.3	<0.005
K295006		3.9	75	1.4	13.6	53	97.7	<0.005
K295007		1.3	77	0.5	13.8	5070	53.1	0.307
K295008		4.0	77	2.9	12.1	68	86.9	0.071
K295009		3.0	55	7.4	8.8	93	32.4	1.305
K295010		4.8	89	3.9	16.4	508	41.7	0.033
K295011		3.8	84	2.2	15.6	60	40.1	0.009
K295012		3.5	78	7.0	16.5	52	38.9	0.007
K295013		3.1	83	1.2	16.1	56	41.2	<0.005
K295014		3.0	82	1.2	15.2	55	39.4	<0.005
K295015		4.6	77	2.4	16.6	405	39.9	0.050
K295016		2.9	75	2.0	13.3	432	39.2	0.061
K295017		4.0	73	2.1	13.2	1420	37.9	0.410
K295018		5.1	76	3.2	14.4	891	36.7	0.076
K295019		2.5	83	3.1	15.9	181	34.5	0.037
K295020		3.3	79	1.4	14.5	297	34.8	0.018
K295021		1.3	81	0.5	15.0	5260	54.9	0.295
K295022		4.1	75	1.3	15.3	79	35.9	<0.005
K295023		3.2	78	1.5	15.6	151	36.2	0.012
K295024		3.6	78	1.9	15.5	109	34.8	0.011
K295025		3.4	75	2.1	14.2	121	34.1	0.020
K295026		4.3	69	2.7	9.4	154	29.5	0.093
K295027		4.2	78	2.5	12.7	58	33.3	0.052
K295028		0.3	1	0.1	2.3	5	2.1	<0.005
K295029		3.3	67	4.2	12.7	73	34.6	0.015
K295030		3.5	75	4.4	10.9	2250	26.9	0.260
K295031		2.9	77	3.1	12.8	98	34.3	0.047
K295032		3.4	79	3.9	11.2	213	31.3	0.141
K295033		5.6	74	2.8	12.2	75	31.9	0.036
K295034		4.4	80	3.1	12.3	78	36.7	0.038
K295035		4.9	79	3.5	14.5	80	35.0	0.019
K295036		2.9	80	3.0	18.7	82	39.0	0.013
K295037		3.4	79	1.7	15.9	70	34.6	0.013
K295038		4.2	81	1.7	13.9	57	40.4	<0.005
K295039		2.8	78	3.8	14.7	56	40.2	<0.005
K295040		4.4	57	3.6	12.7	295	92.1	0.009

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19247978

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249611

Project: Klaza

P.O. No.: 19-036

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249611

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	As-OG62 As % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1
W593945		2.87					0.08	6.74	7.9	2490	1.83	0.23	3.22	0.11	37.2	6.7
W593946		0.26					39.8	5.87	2660	400	1.29	37.5	1.72	45.3	33.8	15.9
W593947		2.17					0.26	6.54	57.1	1550	1.45	0.28	4.18	0.21	44.0	8.0
W593948		4.06					0.10	6.88	9.5	2420	1.65	0.40	2.09	0.10	45.5	10.4
W593949		2.74					0.09	7.37	7.2	2580	1.53	0.43	1.83	0.09	47.4	10.5
W593950		3.38					0.14	5.93	19.6	3440	1.12	0.23	2.19	0.30	70.5	5.2
W593951		2.30					0.87	5.47	370	820	1.44	0.23	5.62	1.83	40.4	7.4
W593952		5.30					0.23	6.71	28.7	2420	1.39	0.16	3.10	0.24	36.7	6.6
W593953		4.87					0.10	7.26	10.1	2270	1.55	0.14	2.81	0.14	40.0	6.3
W593954		0.26	100	0.994			>100	5.59	253	630	0.75	4.99	1.47	25.6	20.8	12.2
W593955		4.29					0.21	7.67	6.8	2270	1.88	0.18	2.16	0.14	44.0	6.8
W593956		4.03					0.15	7.16	10.8	2260	1.51	0.61	2.24	0.15	41.7	7.1
W603621		3.16					2.51	6.75	110.5	410	1.50	0.30	1.50	1.07	45.0	5.6
W603622		2.11					0.89	6.13	88.8	480	1.28	0.35	2.14	0.85	38.3	38.2
W603623		2.57					15.45	6.55	711	420	1.27	0.67	1.18	28.9	52.0	14.6
W603624		2.27	550			1.095	>100	6.40	>10000	400	0.90	4.22	0.56	73.3	33.5	35.5
W603625		<0.02	571			1.095	>100	6.48	>10000	390	0.99	4.54	0.56	76.5	36.9	39.3
W603626		2.77					11.65	7.35	664	550	1.39	1.34	0.95	34.4	49.7	24.5
W603627		3.39					2.64	7.79	298	1710	1.79	0.23	2.61	5.19	52.6	6.0
W603628		4.40					1.07	7.15	40.9	2290	1.52	0.56	2.10	1.83	43.1	5.9
W603629		4.44					5.92	6.68	333	630	1.40	0.49	2.35	20.6	45.9	8.4
W603630		5.69					0.43	7.26	39.4	1260	1.87	0.45	1.66	0.64	50.3	8.3
W603631		3.91					2.08	6.57	334	1350	1.46	2.41	2.01	12.45	34.9	27.6
W603632		1.71					2.75	5.72	204	1360	1.42	0.51	2.53	13.45	34.0	11.9
W603633		5.04					0.03	0.26	0.3	50	0.15	0.04	32.7	0.05	1.78	0.6
W603634		4.53					1.21	6.67	85.6	1920	1.43	0.48	2.45	2.04	39.1	8.0
W603635		7.23					3.97	7.01	83.8	1750	1.49	42.7	1.94	2.41	47.3	11.5
W603636		1.65			1.500		22.7	5.75	707	1620	1.18	9.73	1.76	140.0	32.4	4.9
W603637		2.87					5.15	7.28	147.5	1440	1.50	229	2.12	8.21	38.9	4.0
W603638		3.82					0.37	6.85	23.3	2880	1.44	1.24	1.97	0.22	36.9	3.2
W603639		5.82					0.56	7.04	14.8	3410	1.62	0.87	2.11	0.67	41.5	4.9
W603640		1.29	384	2.51	1.590		>100	6.30	2210	930	1.52	0.49	2.57	306	41.1	3.2
W603641		2.54					0.61	7.05	20.3	1950	1.72	0.48	2.76	0.44	35.4	12.6
W603642		1.04					32.9	7.46	519	440	1.93	0.29	0.83	49.7	71.5	3.9
W603643		0.88					67.4	7.02	695	400	1.70	0.33	0.91	113.0	53.9	5.7
W603644		4.90					0.80	7.03	64.1	2130	1.56	0.25	2.56	0.44	31.4	2.8
W603645		5.30					0.38	6.66	16.8	3600	1.62	0.46	3.01	0.29	34.5	13.8
W603646		3.13					0.58	6.50	44.8	2790	1.69	0.29	3.74	1.58	35.7	8.8
W603647		1.79					2.18	7.05	107.5	1480	2.13	0.33	2.98	0.90	53.4	9.2
W603648		5.02					0.72	6.70	34.0	1850	1.67	0.16	2.99	0.44	39.9	5.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W593945		9	13.20	11.2	2.68	16.55	0.17	1.4	0.040	2.84	18.8	22.4	0.47	824	4.51	1.20
W593946		23	9.47	1185	9.28	14.40	0.07	0.9	1.520	2.64	17.6	17.2	0.68	2300	17.05	0.06
W593947		7	12.30	7.6	3.31	14.40	0.11	1.3	0.041	3.61	23.3	16.0	0.95	2810	3.61	0.11
W593948		12	7.77	10.1	3.18	15.45	0.15	1.4	0.050	2.87	24.7	14.3	0.62	557	1.38	2.14
W593949		9	6.61	12.7	3.13	16.40	0.17	1.4	0.043	3.39	24.6	13.0	0.75	513	1.87	2.23
W593950		6	8.33	13.9	1.91	12.10	0.20	2.0	0.024	3.99	41.4	39.3	0.60	1080	3.36	0.09
W593951		5	15.05	34.4	3.19	12.15	0.09	0.9	0.029	2.28	22.3	41.1	1.59	2870	1.95	0.03
W593952		8	16.15	46.3	2.83	15.85	0.14	1.2	0.040	3.51	18.1	23.9	0.66	1060	3.31	0.87
W593953		8	14.30	33.9	2.80	15.85	0.17	1.3	0.035	3.09	20.3	15.2	0.59	644	1.51	1.78
W593954		63	0.90	6230	5.82	13.05	0.09	1.6	0.429	1.15	9.1	14.5	1.13	1720	21.2	1.65
W593955		8	12.90	24.7	3.07	17.50	0.14	1.3	0.035	3.00	23.3	19.5	0.82	572	1.92	2.27
W593956		8	10.50	13.5	2.89	16.25	0.17	1.3	0.041	3.32	20.2	19.9	0.72	652	1.47	1.45
W603621		8	18.25	11.5	2.48	14.65	0.14	1.2	0.104	3.05	24.6	41.4	0.58	1630	4.38	0.04
W603622		6	12.10	4.2	4.11	13.95	0.08	0.9	0.111	2.75	21.2	42.5	0.78	2680	2.67	0.03
W603623		7	10.95	36.9	4.90	15.25	0.10	1.2	0.357	2.98	28.9	23.8	0.47	2830	3.41	0.02
W603624		8	4.69	640	9.01	13.35	0.06	1.2	0.799	3.05	16.9	13.7	0.25	2650	2.67	0.02
W603625		8	4.85	673	9.37	14.15	0.07	1.1	0.845	3.13	17.7	14.2	0.25	2770	3.10	0.02
W603626		7	13.15	31.7	4.38	15.30	0.06	1.2	0.655	3.07	27.4	60.9	0.43	3880	9.83	0.02
W603627		7	14.95	9.2	3.26	16.95	0.13	1.2	0.078	3.66	30.2	64.7	0.90	3090	1.19	0.04
W603628		7	19.65	25.1	3.04	16.10	0.09	1.1	0.125	3.02	22.5	199.0	0.73	1440	3.62	0.06
W603629		6	15.95	34.9	3.38	15.00	0.11	1.0	0.182	2.90	25.7	153.0	0.74	5030	5.33	0.02
W603630		6	31.5	5.1	2.30	16.40	0.15	1.1	0.054	3.03	25.9	182.0	0.64	1180	1.09	0.06
W603631		10	11.50	49.7	3.87	14.65	0.14	0.9	0.237	3.10	18.2	24.0	0.73	2720	1.79	0.03
W603632		5	19.70	18.6	3.23	12.10	0.13	0.8	0.256	2.50	17.5	33.9	0.77	2810	6.37	0.02
W603633		1	0.12	3.4	0.14	0.90	0.13	0.2	0.006	0.11	1.6	1.3	1.84	144	0.09	0.12
W603634		6	12.00	24.6	4.28	14.20	0.13	0.9	0.204	3.03	20.7	33.0	0.96	2830	8.68	0.02
W603635		7	10.95	627	4.16	14.75	0.14	1.0	0.300	3.16	26.5	50.9	0.79	2870	4.11	0.03
W603636		6	6.73	347	5.16	12.65	0.10	0.7	0.690	2.76	16.3	16.3	0.56	6010	4.98	0.02
W603637		8	8.95	704	4.01	15.95	0.12	0.9	0.504	3.62	20.5	17.5	0.74	4420	7.80	0.03
W603638		10	7.17	50.7	3.53	16.40	0.17	1.0	0.146	3.97	18.0	14.2	0.53	1140	2.94	0.91
W603639		9	8.37	20.9	3.40	15.95	0.16	0.9	0.083	3.28	21.6	26.7	0.58	850	7.03	1.54
W603640		7	11.20	221	4.35	14.60	0.12	0.8	0.069	2.90	21.9	49.0	0.96	2720	5.87	0.07
W603641		10	8.76	12.2	2.91	15.20	0.16	0.9	0.081	3.24	17.5	21.1	0.76	864	2.03	0.94
W603642		7	22.8	60.7	3.72	19.50	0.18	1.0	0.142	3.55	38.2	29.5	0.54	950	4.90	0.03
W603643		10	14.00	104.0	4.28	17.30	0.13	0.8	0.206	3.45	27.2	25.2	0.51	1200	4.49	0.03
W603644		9	7.33	6.2	2.80	15.00	0.13	1.0	0.064	4.28	15.0	29.2	0.44	1060	0.83	0.54
W603645		8	13.05	6.4	3.33	15.10	0.15	1.0	0.096	2.87	17.4	42.7	0.85	1680	1.41	1.05
W603646		7	76.2	150.0	2.68	14.55	0.13	1.0	0.095	2.88	17.8	40.7	0.62	1380	1.71	0.32
W603647		8	63.9	35.5	2.93	15.85	0.14	1.4	0.096	2.92	27.5	57.7	0.85	1570	2.45	0.06
W603648		8	18.05	70.2	3.02	15.55	0.17	1.2	0.077	3.54	18.9	23.1	0.80	1370	1.54	0.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W593945		7.6	2.6	590	18.2	100.0	0.003	0.06	5.35	9.3	<1	2.0	221	0.64	<0.05	10.55
W593946		4.7	14.6	460	1685	142.0	0.004	7.92	106.0	8.2	2	10.9	62.9	0.40	0.70	8.38
W593947		6.6	2.3	500	13.0	172.5	<0.002	0.27	9.95	8.4	<1	1.8	116.0	0.61	<0.05	11.90
W593948		7.7	2.5	580	12.8	121.5	<0.002	0.05	4.11	9.9	<1	2.1	229	0.68	<0.05	12.30
W593949		8.0	2.3	580	11.0	151.0	<0.002	0.04	3.44	10.1	<1	2.1	222	0.65	<0.05	13.70
W593950		6.2	1.5	170	13.6	147.5	0.002	0.17	13.80	3.7	<1	1.6	103.5	0.88	<0.05	27.4
W593951		5.4	2.4	420	65.7	112.5	<0.002	1.12	44.0	7.5	<1	1.1	192.0	0.43	<0.05	9.00
W593952		7.5	2.5	600	17.3	125.0	<0.002	0.15	23.6	9.1	<1	1.5	195.0	0.62	<0.05	8.83
W593953		7.5	2.2	610	17.4	115.0	<0.002	0.02	8.70	9.5	<1	1.3	304	0.65	<0.05	10.25
W593954		3.4	30.0	470	>10000	27.9	0.011	2.35	461	12.5	2	2.0	196.5	0.22	1.14	2.04
W593955		8.6	2.6	660	24.8	121.0	<0.002	0.02	4.46	11.0	<1	1.6	345	0.64	<0.05	11.40
W593956		8.0	2.4	610	16.2	121.0	<0.002	0.07	4.93	9.9	<1	1.5	212	0.67	<0.05	10.60
W603621		6.6	3.0	520	63.3	150.5	<0.002	1.55	41.3	8.7	<1	2.6	146.0	0.55	<0.05	11.85
W603622		6.4	3.0	490	53.8	139.0	0.002	3.00	30.8	9.3	1	2.4	99.8	0.51	0.05	10.30
W603623		7.1	2.4	540	822	178.0	0.002	4.64	49.2	9.7	<1	6.2	117.5	0.60	0.07	12.20
W603624		6.2	4.1	450	6250	159.0	0.002	9.27	1140	7.1	1	7.6	38.1	0.57	0.81	9.93
W603625		6.6	4.2	470	6010	169.0	0.002	9.65	1150	7.4	1	8.4	40.9	0.59	0.75	10.95
W603626		7.3	3.1	530	1385	171.5	0.002	3.60	46.0	8.7	<1	4.3	105.5	0.66	0.51	13.55
W603627		7.5	2.6	580	258	182.0	<0.002	1.27	33.0	10.5	<1	3.1	179.5	0.58	<0.05	13.70
W603628		7.5	2.1	590	75.9	114.0	<0.002	0.26	34.6	9.9	<1	2.8	211	0.60	<0.05	11.70
W603629		6.5	2.5	510	1040	160.0	<0.002	1.60	50.4	9.2	<1	3.8	199.0	0.49	0.07	11.55
W603630		7.2	2.1	560	33.3	148.0	<0.002	0.28	25.5	9.1	<1	2.9	232	0.59	0.08	11.95
W603631		6.8	2.9	500	255	173.0	<0.002	2.06	58.5	8.8	<1	3.4	99.1	0.52	0.20	9.99
W603632		5.5	2.9	420	376	142.5	<0.002	1.85	35.0	7.1	<1	2.4	150.5	0.45	<0.05	8.66
W603633		0.8	0.6	70	3.1	3.3	<0.002	<0.01	0.26	0.2	1	<0.2	79.7	0.10	<0.05	0.31
W603634		6.5	2.5	500	86.6	169.5	<0.002	1.02	26.3	8.5	<1	2.5	145.0	0.49	<0.05	9.65
W603635		7.2	2.4	530	127.0	175.0	<0.002	1.13	35.8	9.3	<1	3.5	107.0	0.55	0.26	12.40
W603636		5.9	1.8	450	3430	150.5	<0.002	4.86	51.0	7.7	1	9.0	50.3	0.47	0.06	8.20
W603637		7.4	1.8	540	352	207	<0.002	1.28	49.4	9.5	<1	4.3	89.6	0.57	0.34	10.50
W603638		7.5	2.2	540	12.1	150.5	0.002	0.37	8.16	9.1	<1	3.7	162.5	0.64	<0.05	10.60
W603639		7.5	2.3	570	27.1	118.5	<0.002	0.28	9.73	9.1	<1	3.3	252	0.60	<0.05	11.40
W603640		6.6	2.8	480	>10000	136.0	<0.002	2.02	272	8.8	1	7.3	153.5	0.54	<0.05	11.70
W603641		7.2	2.7	550	26.9	124.0	<0.002	0.29	11.95	8.8	1	3.1	179.5	0.57	<0.05	10.75
W603642		7.3	3.0	590	1230	221	<0.002	2.70	70.3	10.8	<1	7.9	99.4	0.58	<0.05	12.45
W603643		6.9	2.8	560	2740	217	<0.002	3.55	115.0	10.0	1	7.8	84.4	0.50	<0.05	10.40
W603644		7.8	1.2	580	20.3	162.5	<0.002	0.60	15.00	8.7	<1	4.1	153.0	0.61	<0.05	10.45
W603645		7.5	2.4	590	12.7	104.0	<0.002	0.39	9.44	9.1	1	3.1	203	0.56	<0.05	9.44
W603646		7.1	2.5	560	31.9	111.0	<0.002	0.33	17.35	7.9	<1	2.4	334	0.52	<0.05	9.14
W603647		8.1	3.9	580	116.5	139.5	<0.002	0.54	22.9	9.1	<1	2.1	287	0.62	<0.05	11.35
W603648		8.0	2.5	570	25.8	132.0	<0.002	0.20	15.70	9.1	<1	2.0	241	0.62	<0.05	9.70

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W593945		0.246	1.46	3.5	69	3.4	13.1	52	38.7	<0.005
W593946		0.172	2.27	5.2	57	7.3	8.6	3400	23.7	1.695
W593947		0.214	2.57	6.2	56	3.7	15.3	62	40.0	0.017
W593948		0.247	1.41	3.9	67	6.5	14.7	53	43.5	<0.005
W593949		0.251	1.60	3.0	68	4.7	14.2	51	41.7	<0.005
W593950		0.083	1.91	3.5	32	1.8	11.9	56	52.1	<0.005
W593951		0.177	1.85	10.0	53	3.4	14.3	135	23.4	0.215
W593952		0.257	2.28	3.7	69	3.6	12.5	60	31.6	0.005
W593953		0.259	1.53	2.9	71	2.8	12.8	57	34.5	<0.005
W593954		0.246	0.58	1.4	82	0.6	13.5	5200	59.2	0.294
W593955		0.277	1.49	2.7	77	3.2	13.6	63	36.5	<0.005
W593956		0.259	1.72	2.9	71	2.9	13.1	58	34.6	0.006
W603621		0.223	2.73	6.1	61	3.6	10.1	90	30.3	0.048
W603622		0.218	2.35	3.6	64	3.7	10.6	80	24.0	0.039
W603623		0.223	2.86	6.4	60	12.4	9.2	2550	30.7	0.514
W603624		0.194	2.68	2.6	47	10.2	8.2	6970	27.4	2.73
W603625		0.199	2.84	2.8	48	11.0	8.7	7170	28.9	2.84
W603626		0.226	2.75	9.3	57	8.6	10.3	3560	31.4	0.653
W603627		0.251	2.91	5.6	68	3.6	13.5	377	30.2	0.058
W603628		0.245	2.18	4.0	67	5.8	12.5	181	31.3	0.015
W603629		0.212	2.44	6.7	58	3.3	11.6	2160	27.3	0.295
W603630		0.230	2.16	3.6	64	2.5	14.2	88	32.1	0.038
W603631		0.219	2.33	2.8	59	3.3	11.1	923	25.5	0.279
W603632		0.173	2.14	9.0	48	3.8	11.3	1060	22.5	0.083
W603633		0.005	0.05	0.5	1	<0.1	3.5	6	3.3	<0.005
W603634		0.207	2.49	4.4	58	4.1	11.7	205	28.1	0.032
W603635		0.228	2.29	2.9	63	4.9	10.8	313	27.2	0.629
W603636		0.187	2.21	1.9	50	3.6	8.2	>10000	19.5	0.438
W603637		0.231	2.67	5.9	63	5.4	13.9	843	24.5	2.62
W603638		0.226	2.11	2.9	65	3.0	10.7	64	29.8	0.027
W603639		0.234	1.58	3.6	66	1.8	11.2	102	28.2	<0.005
W603640		0.208	1.97	6.0	58	2.5	10.4	>10000	21.4	0.118
W603641		0.235	1.80	3.3	65	1.8	11.8	80	25.9	<0.005
W603642		0.259	2.39	9.6	85	4.5	15.2	3970	28.2	0.314
W603643		0.241	2.28	11.9	78	3.0	12.7	7700	22.2	0.330
W603644		0.255	2.19	2.9	67	2.2	10.4	62	28.7	0.023
W603645		0.242	1.64	1.7	66	2.5	12.3	80	28.6	<0.005
W603646		0.232	1.75	3.6	65	2.3	11.2	167	30.0	0.011
W603647		0.243	2.05	9.9	64	2.4	15.1	99	46.1	0.074
W603648		0.246	2.11	4.0	67	1.9	12.7	91	34.7	0.016

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249611

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Pb-OG62	Zn-OG62	

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249613

Project: Klaza

P.O. No.: 19-055

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249613

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593651		3.08			0.69	6.68	144.5	2770	1.47	1.70	0.68	1.91	43.9	21.6	6	17.05
W603562		1.70			1.24	7.26	702	1540	1.71	0.08	2.21	2.91	45.9	5.1	6	28.2
W603563		1.53			3.63	1.81	270	160	0.76	0.04	1.75	5.58	14.35	3.1	10	10.25
W603564		1.94			23.9	3.38	913	230	0.91	0.05	2.64	21.7	22.4	4.6	7	14.35
W603565		8.41			0.16	7.25	40.5	1800	1.40	0.08	2.24	0.16	40.4	6.9	6	19.25
W603566		1.70			0.94	6.41	709	560	1.43	0.08	3.56	1.02	42.8	8.0	8	17.40
W603567		3.38			0.15	7.07	25.3	2290	1.54	0.05	2.62	0.15	38.9	6.2	7	22.0
W603568		10.17			0.08	7.29	5.1	2590	1.59	0.09	2.69	0.12	40.3	7.3	9	14.15
W603569		0.26	100	1.005	>100	5.61	264	630	0.69	5.07	1.49	24.6	18.75	11.8	61	0.88
W603570		7.83			0.12	7.09	6.4	2170	1.54	0.04	2.56	0.51	43.2	5.8	9	13.15
W603571		5.32			0.11	7.18	11.0	2000	1.54	0.06	2.51	0.19	44.2	5.9	9	15.75
W603572		11.69			0.10	7.29	8.7	2270	1.63	0.07	2.52	0.35	43.7	6.3	7	13.85
W603573		2.82			9.60	7.03	1210	1510	1.34	0.08	2.54	30.4	46.1	5.4	11	14.35
W603574		5.98			0.22	7.21	19.8	2130	1.60	0.10	2.71	1.19	40.6	6.1	9	12.15
W603575		5.07			0.24	7.05	20.2	2160	1.52	0.11	2.63	1.14	41.0	7.2	8	11.80
W603576		5.15			1.19	7.11	54.5	1390	1.55	0.32	1.93	30.4	50.6	13.7	7	10.75
W603577		5.83			0.47	6.88	117.0	2230	1.59	0.19	2.54	1.14	42.0	5.9	6	13.00
W603578		6.03			0.95	7.26	51.4	1540	1.47	0.27	2.55	3.41	46.1	7.0	6	17.80
W603579		4.96			0.07	7.53	9.5	2270	1.48	0.12	2.58	0.10	46.9	7.9	10	13.05
W603580		5.09			0.08	7.07	12.5	2320	1.51	0.07	2.64	0.12	41.8	5.9	9	8.47
W603581		4.96			0.28	6.80	50.7	3350	1.57	0.10	5.05	0.29	43.9	7.1	6	19.10
W603582		5.57			0.12	7.01	23.6	2300	1.60	0.13	2.87	0.14	38.2	5.9	9	12.60
W603583		5.38			0.09	7.36	12.3	2230	1.46	0.08	2.85	0.12	39.1	6.1	11	9.46
W603584		5.31			0.06	7.65	5.8	2300	1.71	0.13	2.58	0.13	50.4	7.2	9	7.75
W603585		<0.02			0.06	7.31	6.0	2280	1.50	0.11	2.53	0.11	42.4	6.6	10	7.16
W603586		7.74			0.19	7.07	17.6	2090	1.52	0.18	2.79	0.51	41.1	6.5	8	8.74
W603587		3.34			1.04	6.45	185.5	1970	1.51	0.15	4.72	3.31	41.2	6.5	7	13.60
W603588		9.93			0.09	7.12	7.5	2530	1.51	0.16	2.90	0.18	40.4	5.7	9	8.24
W603589		0.26			38.3	5.74	2590	460	1.09	33.5	1.72	45.3	34.2	16.5	22	9.75
W603590		5.81			0.63	7.32	25.8	2110	1.70	0.17	2.77	2.92	48.2	6.1	9	10.95
W603591		2.07			5.20	7.06	848	370	1.64	1.04	2.51	24.2	79.2	42.0	6	10.85
W603592		4.69			0.16	7.28	18.1	2400	1.45	0.09	2.89	0.19	42.5	5.5	8	12.10
W603593		5.22			0.08	7.21	5.8	2310	1.59	0.04	2.58	0.11	46.7	6.3	9	9.36
W603594		5.05			0.52	7.42	6.7	2350	1.48	0.06	2.40	1.78	55.1	6.6	9	8.67
W603595		3.31			0.21	8.07	38.4	2260	1.26	0.96	1.51	0.12	54.9	7.7	8	11.20
W603596		5.02			0.01	0.11	0.3	20	0.05	0.01	34.7	0.02	1.13	0.7	1	0.06
W603597		5.27			0.59	7.40	44.8	1020	1.39	3.15	1.37	0.24	59.3	14.3	8	12.80
W603598		2.10			0.15	8.46	16.0	2410	1.43	0.45	1.60	0.14	52.1	8.6	8	15.05
W603599		10.54			0.08	7.58	6.7	2410	1.45	0.19	2.55	0.09	50.1	6.6	9	11.75
W603600		8.30			0.04	7.58	6.1	2070	1.32	0.09	2.06	0.15	50.8	5.7	7	21.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593651		253	3.33	14.35	0.15	1.3	0.060	3.09	25.5	39.2	0.26	5150	1.66	0.03	6.7	2.9
W603562		11.8	3.02	16.15	0.18	1.4	0.066	3.83	23.3	160.5	0.63	2850	0.89	0.10	7.5	2.2
W603563		22.1	1.33	3.89	0.12	0.4	0.020	0.66	7.9	123.5	0.38	1460	7.40	0.02	1.9	1.5
W603564		57.6	2.40	7.54	0.14	0.6	0.036	1.37	12.5	93.6	0.72	2850	3.83	0.02	3.4	1.8
W603565		8.7	2.91	16.40	0.20	1.2	0.035	3.15	20.6	59.9	0.62	1080	0.54	0.52	7.8	2.1
W603566		3.6	3.06	13.75	0.17	1.0	0.034	2.93	24.6	22.2	1.04	3120	1.46	0.03	6.3	2.1
W603567		3.8	2.47	15.95	0.19	1.2	0.032	3.34	19.4	135.0	0.63	891	0.58	0.48	7.7	2.3
W603568		4.6	2.82	16.35	0.20	1.2	0.033	2.92	21.2	14.3	0.71	513	0.58	2.36	7.9	2.4
W603569		6160	5.85	11.80	0.14	1.5	0.441	1.15	8.8	13.0	1.14	1720	20.9	1.65	3.2	26.8
W603570		7.6	2.62	15.20	0.20	1.2	0.028	2.76	22.5	13.3	0.64	597	0.75	2.10	7.5	1.9
W603571		6.0	2.79	15.60	0.20	1.2	0.033	2.89	23.3	17.3	0.63	845	1.34	1.81	7.4	2.0
W603572		5.1	2.72	16.05	0.21	1.4	0.033	3.01	23.0	15.0	0.65	703	2.49	2.15	8.0	1.9
W603573		32.8	3.77	13.60	0.19	1.1	0.120	3.18	26.9	22.5	0.72	2800	2.97	0.18	6.4	1.8
W603574		7.7	3.01	16.10	0.20	1.2	0.037	3.35	20.2	15.6	0.72	1360	1.79	1.47	7.9	2.2
W603575		8.0	2.93	16.15	0.20	1.2	0.034	3.24	20.4	14.2	0.69	1280	1.62	1.54	7.7	2.2
W603576		62.2	4.07	14.75	0.15	1.0	0.256	3.47	28.9	26.3	0.75	3550	4.69	0.05	7.0	2.5
W603577		6.3	2.72	15.45	0.18	1.1	0.053	3.41	22.1	66.2	0.76	1480	1.10	0.05	7.4	2.0
W603578		29.4	2.73	15.75	0.21	1.1	0.067	3.29	24.8	111.0	0.74	1240	3.84	0.33	7.1	1.9
W603579		3.9	2.85	15.90	0.19	1.1	0.038	2.91	25.0	14.5	0.75	590	3.15	2.35	7.7	2.3
W603580		3.0	2.54	15.55	0.19	1.0	0.035	2.91	21.4	9.1	0.69	585	0.47	2.18	7.4	2.2
W603581		3.3	2.96	15.35	0.21	1.0	0.040	2.65	23.4	29.0	0.85	1270	0.74	0.10	7.4	2.2
W603582		3.0	2.64	16.20	0.23	1.1	0.042	3.29	19.5	8.6	0.67	662	0.47	1.93	8.0	2.1
W603583		4.2	2.74	15.10	0.19	1.0	0.036	2.99	20.4	7.2	0.72	564	0.83	2.31	7.4	2.7
W603584		5.8	2.80	16.45	0.25	1.2	0.045	2.87	27.0	9.2	0.74	532	0.63	2.65	8.1	2.1
W603585		3.2	2.76	15.10	0.20	1.2	0.037	2.85	22.1	8.4	0.72	524	0.53	2.62	7.7	2.2
W603586		4.8	2.77	15.55	0.21	1.1	0.044	2.76	21.1	7.7	0.75	839	0.73	2.34	7.6	2.1
W603587		8.5	3.02	15.00	0.20	1.0	0.084	3.21	22.3	14.6	0.94	4590	1.13	0.60	7.0	1.9
W603588		4.8	2.75	16.00	0.21	1.1	0.044	2.96	20.8	14.6	0.63	612	0.48	2.42	7.9	2.0
W603589		1165	9.06	13.75	0.15	0.8	1.555	2.64	17.6	15.6	0.68	2290	16.30	0.06	4.6	14.2
W603590		8.4	2.82	16.40	0.12	1.1	0.067	3.11	24.9	13.2	0.57	1290	0.58	1.86	8.2	2.1
W603591		22.2	4.93	16.45	0.11	1.1	0.252	3.45	46.0	7.6	0.64	5430	0.98	0.06	7.5	4.2
W603592		4.6	2.70	16.00	0.12	1.4	0.038	3.32	20.3	15.7	0.58	1040	0.49	1.67	8.0	2.2
W603593		10.9	2.68	15.90	0.10	1.4	0.033	2.97	23.6	12.3	0.63	584	0.87	2.17	8.1	2.0
W603594		14.8	2.75	16.05	0.11	1.3	0.040	2.88	27.3	11.1	0.71	574	1.98	2.43	8.1	8.8
W603595		13.6	3.21	15.45	0.11	1.3	0.052	3.83	29.3	21.7	0.54	1390	0.91	0.63	8.1	2.6
W603596		3.2	0.13	0.33	0.08	<0.1	<0.005	0.04	1.3	0.7	1.98	125	0.17	0.05	0.2	0.5
W603597		49.6	4.49	16.55	0.12	1.2	0.321	3.82	31.6	12.1	0.32	2670	1.77	0.04	6.5	2.8
W603598		40.4	3.07	18.20	0.13	1.4	0.065	3.81	26.4	29.4	0.40	1200	0.90	0.26	9.8	2.6
W603599		13.6	2.88	15.70	0.12	1.2	0.038	2.76	25.2	14.6	0.65	682	0.89	2.18	8.7	2.4
W603600		14.1	2.72	15.80	0.10	1.2	0.036	2.62	25.8	89.5	0.43	850	0.66	0.72	8.1	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593651		490	21.3	171.5	0.002	0.28	25.6	9.1	1	1.8	112.5	0.53	<0.05	11.05	0.221	2.21
W603562		580	204	153.5	<0.002	1.44	23.8	9.4	<1	2.8	151.0	0.62	<0.05	12.25	0.242	2.58
W603563		110	514	39.1	0.002	0.63	110.5	2.5	1	2.2	79.7	0.15	<0.05	3.76	0.058	0.67
W603564		230	1175	73.6	0.002	1.33	129.5	4.6	<1	2.1	86.4	0.28	<0.05	6.14	0.111	1.42
W603565		600	15.4	114.0	0.002	0.18	15.35	9.7	<1	2.1	147.5	0.61	<0.05	10.65	0.257	1.80
W603566		470	69.5	163.0	<0.002	1.73	32.4	8.3	<1	1.6	93.9	0.49	<0.05	10.65	0.202	2.29
W603567		580	16.9	115.0	0.002	0.29	16.65	9.1	<1	1.4	206	0.62	<0.05	10.60	0.252	2.04
W603568		590	16.8	102.0	0.002	0.11	2.93	9.5	<1	1.5	382	0.60	<0.05	10.90	0.254	1.29
W603569		470	>10000	28.2	0.011	2.36	469	11.7	2	1.9	198.0	0.22	1.18	2.01	0.250	0.52
W603570		540	43.9	99.3	<0.002	0.05	3.45	9.1	<1	1.4	319	0.60	<0.05	12.35	0.237	1.10
W603571		540	22.2	119.5	0.002	0.14	5.31	9.1	<1	1.6	268	0.61	<0.05	12.15	0.230	1.39
W603572		570	25.1	115.0	<0.002	0.08	5.59	9.3	<1	1.6	303	0.69	<0.05	11.70	0.245	1.34
W603573		480	3470	150.5	<0.002	1.19	40.5	7.8	<1	1.9	105.5	0.55	<0.05	12.15	0.210	2.17
W603574		570	86.2	126.0	<0.002	0.15	6.46	9.4	<1	1.9	268	0.64	<0.05	10.40	0.252	1.87
W603575		560	94.8	124.5	0.002	0.21	5.92	9.5	<1	1.9	273	0.63	<0.05	10.75	0.243	1.81
W603576		500	103.0	194.5	0.002	1.51	16.15	9.0	<1	2.1	78.0	0.62	<0.05	13.60	0.205	2.62
W603577		570	21.4	147.0	<0.002	0.29	16.10	9.0	<1	1.8	132.0	0.59	<0.05	10.45	0.234	2.77
W603578		540	196.5	160.5	0.002	0.57	23.6	9.4	<1	2.0	179.5	0.54	<0.05	13.30	0.229	2.61
W603579		610	15.7	113.5	0.002	0.09	3.35	10.0	<1	1.6	353	0.58	<0.05	12.10	0.260	1.29
W603580		560	16.1	104.5	<0.002	0.08	3.10	9.1	<1	1.6	352	0.56	<0.05	10.75	0.237	1.32
W603581		540	17.8	111.5	<0.002	0.68	12.15	9.0	<1	1.7	179.5	0.57	<0.05	11.45	0.229	2.47
W603582		560	15.7	120.0	<0.002	0.11	4.99	9.0	<1	1.8	293	0.65	<0.05	10.15	0.245	1.76
W603583		580	16.0	101.0	0.002	0.07	3.24	8.5	<1	1.5	349	0.59	<0.05	10.20	0.257	1.27
W603584		570	17.4	112.5	0.002	0.07	2.64	10.0	<1	2.0	372	0.69	<0.05	13.75	0.248	1.16
W603585		570	16.5	96.8	0.002	0.07	2.47	9.0	<1	1.6	364	0.65	<0.05	11.15	0.248	1.10
W603586		550	51.0	103.0	<0.002	0.15	3.35	8.8	<1	1.7	333	0.62	<0.05	10.65	0.239	1.36
W603587		490	292	129.5	<0.002	0.82	11.25	8.6	<1	1.7	213	0.59	<0.05	10.55	0.216	2.10
W603588		560	17.8	101.5	<0.002	0.04	3.51	9.3	1	1.8	335	0.64	<0.05	10.80	0.249	1.27
W603589		440	1660	144.5	0.004	7.75	102.5	8.1	1	10.3	64.8	0.37	0.73	8.12	0.167	2.05
W603590		570	166.0	130.5	0.002	0.11	5.78	10.0	<1	2.1	297	0.64	<0.05	12.40	0.245	1.68
W603591		540	1525	193.5	0.002	2.72	14.50	9.3	<1	4.3	84.9	0.60	0.41	12.05	0.217	2.84
W603592		570	22.6	116.5	<0.002	0.08	7.20	9.2	<1	1.9	316	0.72	<0.05	12.25	0.250	1.74
W603593		570	16.8	108.0	<0.002	0.03	3.70	9.5	<1	1.7	328	0.67	<0.05	12.60	0.243	1.32
W603594		560	104.0	112.5	<0.002	0.04	3.07	9.1	<1	1.7	358	0.68	<0.05	14.40	0.237	1.28
W603595		640	18.7	178.0	<0.002	0.42	8.33	10.3	<1	1.5	95.9	0.67	<0.05	15.65	0.268	2.13
W603596		60	1.2	1.2	<0.002	0.01	0.11	0.2	1	<0.2	79.1	<0.05	<0.05	0.13	0.006	<0.02
W603597		570	12.8	230	<0.002	0.44	11.75	11.0	<1	2.0	25.0	0.54	<0.05	14.25	0.216	2.73
W603598		670	19.1	178.5	<0.002	0.06	9.70	11.4	<1	1.8	77.7	0.69	<0.05	14.85	0.287	2.05
W603599		610	17.5	105.5	<0.002	0.02	2.72	9.9	<1	1.5	356	0.64	<0.05	13.25	0.258	1.02
W603600		570	15.1	106.5	<0.002	0.02	14.85	9.7	<1	1.5	242	0.64	<0.05	13.65	0.249	1.21

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593651		5.1	65	7.0	15.5	170	29.3	0.037
W603562		6.0	61	1.7	13.6	235	37.7	0.324
W603563		11.4	18	1.2	4.5	329	10.7	0.145
W603564		13.6	31	1.8	7.6	1270	18.0	0.285
W603565		3.0	69	1.9	14.5	47	33.8	0.087
W603566		4.2	54	3.7	14.1	103	30.4	1.035
W603567		3.0	65	1.8	13.2	50	34.9	0.022
W603568		3.3	67	0.9	15.3	46	34.0	<0.005
W603569		1.4	82	0.6	14.1	5210	52.5	0.361
W603570		3.5	61	0.7	15.2	85	34.2	<0.005
W603571		3.6	60	1.2	15.2	56	33.0	<0.005
W603572		3.7	63	1.3	15.8	71	37.8	<0.005
W603573		4.4	55	5.8	13.6	3340	30.5	0.180
W603574		3.3	65	2.8	14.1	166	32.5	0.006
W603575		3.3	64	2.5	14.3	154	32.1	0.008
W603576		6.7	59	3.6	14.5	3190	28.9	0.038
W603577		4.6	61	1.5	14.4	122	29.5	0.012
W603578		4.9	62	1.8	13.5	370	31.9	0.013
W603579		3.7	67	1.0	16.3	46	34.1	<0.005
W603580		4.8	61	0.8	15.7	39	34.5	0.005
W603581		4.9	59	1.7	16.3	48	30.9	0.014
W603582		3.6	64	1.4	14.5	41	31.6	<0.005
W603583		3.2	67	0.8	14.5	46	31.1	<0.005
W603584		3.8	65	0.7	17.3	43	34.4	<0.005
W603585		3.1	64	0.7	15.7	43	32.3	<0.005
W603586		3.8	63	0.8	15.2	82	30.6	0.012
W603587		10.5	63	1.4	16.1	317	28.6	0.063
W603588		2.9	63	1.1	15.6	48	31.8	<0.005
W603589		5.0	55	7.1	8.9	3380	23.0	1.805
W603590		5.1	64	1.8	15.2	333	30.6	<0.005
W603591		6.6	59	5.9	13.8	2560	28.4	0.055
W603592		4.6	65	1.0	14.0	49	32.6	<0.005
W603593		4.0	62	1.0	15.2	37	34.2	<0.005
W603594		4.1	63	0.7	18.2	201	38.1	<0.005
W603595		2.5	73	4.2	16.6	60	36.3	0.006
W603596		0.1	1	<0.1	2.2	9	1.5	<0.005
W603597		5.4	73	10.5	15.2	52	32.8	0.012
W603598		2.6	78	7.9	16.8	60	40.5	<0.005
W603599		2.0	70	1.6	17.4	57	36.1	<0.005
W603600		1.8	67	2.3	16.1	63	33.2	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249613

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249616

Project: Klaza

P.O. No.: 19-066

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249616

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
K295041		3.01				0.09	7.36	25.1	2910	1.93	0.20	2.35	1.85	67.4	3.9	15
K295042		6.08				0.11	6.90	66.5	1140	1.96	0.06	2.62	0.56	46.5	5.1	17
K295043		5.04				0.10	6.86	71.6	1320	1.88	0.07	2.55	1.10	50.9	4.8	16
K295044		5.50				0.07	7.14	50.9	1900	2.00	0.11	2.83	0.37	51.5	4.7	22
K295045		5.66				0.07	6.46	38.3	2310	1.94	0.11	3.15	4.82	42.7	5.3	23
K295046		2.30				0.73	7.83	64.6	1730	1.77	0.36	1.24	3.02	71.5	5.4	30
K295047		2.43				2.26	7.47	77.2	1610	1.58	0.68	1.19	7.70	64.7	4.9	29
K295048		4.57				8.76	7.41	159.5	1140	1.61	2.80	2.71	18.65	47.0	7.3	8
K295049		4.61				0.21	7.35	20.3	1920	1.65	0.58	2.79	1.82	42.6	5.9	8
K295050		3.35				0.56	7.31	99.8	1960	1.70	1.09	2.39	10.50	52.5	4.3	10
K295051		1.58				2.60	7.54	278	1210	1.52	2.17	2.40	19.40	52.9	5.3	7
K295052		3.80				1.38	6.92	208	1630	1.68	1.56	2.35	8.49	41.7	8.5	8
K295053		4.98				0.42	6.94	49.0	2390	1.63	0.80	2.16	4.28	39.6	5.0	8
K295054		5.09				0.36	6.97	22.2	2370	1.83	1.36	2.25	2.03	40.1	4.6	8
K295055		0.26	104	1.040		>100	5.66	257	650	0.81	4.75	1.49	25.7	22.2	11.3	67
K295056		3.26				0.34	7.28	15.2	2520	1.59	0.66	2.79	1.26	42.1	6.4	9
K295057		3.11				0.90	7.45	73.8	2350	1.83	2.14	2.16	4.03	54.3	6.1	9
K295058		2.73				0.87	7.44	95.8	850	1.82	1.51	2.37	1.31	55.1	10.1	8
K295059		4.84				1.08	7.24	63.2	2380	1.52	1.24	2.20	4.88	47.3	6.0	8
K295060		5.07				1.68	7.66	128.0	650	1.84	2.56	1.98	4.11	58.1	5.5	8
K295061		5.76				0.43	7.40	22.8	2390	1.94	1.19	2.61	0.74	47.1	6.7	8
K295062		5.91				0.69	7.15	52.0	2250	1.67	1.36	2.85	0.37	43.0	6.0	10
K295063		6.27				0.13	7.40	6.4	2480	1.71	0.20	2.81	0.30	48.2	6.6	10
K295064		<0.02				0.14	7.56	6.4	2470	1.77	0.21	2.79	0.27	49.2	6.6	10
K295065		5.00				0.39	7.15	20.1	2420	1.73	0.65	2.52	0.66	40.6	5.5	9
K295066		6.17				0.88	7.22	62.6	2120	1.61	1.63	2.93	0.66	48.6	5.3	8
K295067		5.75				0.74	7.01	40.0	2120	1.64	1.38	2.75	1.11	44.6	4.7	7
K295068		2.47			1.505	8.09	4.61	443	250	1.05	2.20	5.73	208	37.2	4.1	4
K295069		3.13				7.27	6.65	361	550	1.41	5.00	3.80	6.13	51.6	8.5	6
K295070		0.26		0.991		99.1	5.39	233	590	0.75	4.71	1.43	22.6	19.50	11.7	62
K295071		4.41				3.59	6.17	193.5	950	1.61	2.37	1.71	10.40	51.4	7.6	6
K295072		4.83				0.77	7.14	140.0	2040	1.50	1.46	1.57	1.35	43.1	6.7	7
K295073		5.12				1.83	7.28	236	1230	1.60	9.44	1.77	1.80	47.6	6.3	7
K295074		3.71				0.72	6.85	75.5	410	1.44	6.98	2.02	0.32	42.4	6.6	7
K295075		5.01				0.45	7.20	33.3	2480	1.53	2.08	2.24	0.27	42.3	7.6	7
K295076		3.24				0.77	6.61	49.6	2410	1.76	4.85	2.34	0.21	31.8	3.4	7
K295077		4.86				0.01	0.11	<0.2	30	0.08	0.03	32.4	0.02	1.13	0.5	1
K295078		4.53				2.24	7.08	78.0	670	1.37	3.20	1.80	2.72	54.4	24.6	7
K295079		4.36				0.38	6.95	30.3	2370	1.42	0.80	2.42	2.34	41.8	6.9	7
K295080		4.38				0.40	7.40	33.6	2450	1.53	0.76	2.57	0.23	48.8	10.0	9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K295041		27.6	4.6	2.47	17.75	0.13	2.5	0.033	2.36	33.5	28.6	0.69	647	0.90	0.11	12.7
K295042		26.4	9.2	2.19	16.60	0.11	2.2	0.024	2.67	21.8	20.6	0.80	490	0.79	0.09	8.6
K295043		26.0	9.1	2.14	17.90	0.13	2.2	0.035	2.57	26.2	29.8	0.79	535	1.12	0.08	8.7
K295044		33.4	11.8	2.35	18.20	0.12	2.7	0.034	2.46	24.8	27.3	0.85	588	0.65	0.12	9.3
K295045		31.1	11.8	2.21	17.80	0.11	2.8	0.029	2.52	19.7	22.3	0.64	619	0.59	0.11	9.2
K295046		27.5	19.6	2.12	20.7	0.10	4.0	0.056	2.17	37.4	126.0	0.57	575	1.57	0.30	10.3
K295047		22.0	67.9	2.15	18.10	0.11	3.7	0.066	2.05	36.1	122.5	0.54	564	1.55	0.29	8.6
K295048		19.60	66.5	3.26	15.85	0.10	1.5	0.183	2.82	24.7	16.7	0.95	1120	4.20	0.08	7.6
K295049		13.80	16.0	3.14	15.35	0.11	1.4	0.059	2.27	21.6	35.3	0.67	728	2.24	1.68	7.6
K295050		17.60	28.2	4.02	15.50	0.12	1.3	0.157	3.20	27.6	22.6	0.91	1860	2.63	0.26	6.9
K295051		12.50	43.4	4.94	16.30	0.12	1.3	0.237	3.68	28.5	7.8	1.03	2510	1.86	0.04	6.5
K295052		19.80	54.8	3.88	16.10	0.12	1.3	0.219	3.35	19.7	14.8	0.87	1560	3.41	0.34	7.0
K295053		14.40	22.0	3.17	15.30	0.12	1.4	0.141	3.35	20.1	20.4	0.66	981	4.03	0.84	7.2
K295054		11.30	11.9	2.67	14.00	0.12	1.4	0.134	3.21	19.5	14.0	0.66	787	2.57	0.99	7.0
K295055		0.92	6270	5.87	11.75	0.10	1.5	0.460	1.16	9.8	13.6	1.14	1740	22.0	1.66	3.2
K295056		10.90	20.5	3.19	14.55	0.11	1.4	0.082	3.02	21.9	11.0	0.81	780	3.00	1.99	7.0
K295057		13.65	53.9	3.60	15.80	0.13	1.5	0.179	3.69	28.4	15.9	0.61	984	3.37	0.96	7.6
K295058		13.80	41.3	4.21	16.10	0.12	1.4	0.146	3.53	28.6	13.0	0.68	1160	2.75	1.20	7.6
K295059		14.00	46.0	3.58	15.15	0.12	1.5	0.159	3.60	23.3	20.9	0.64	1100	2.77	0.94	7.3
K295060		16.10	55.2	4.36	15.95	0.12	1.4	0.140	3.49	31.2	18.8	0.73	1200	2.96	0.31	7.6
K295061		16.00	33.9	3.39	16.35	0.12	1.4	0.099	2.93	22.7	20.8	0.79	814	3.00	1.61	8.4
K295062		16.60	77.8	3.23	16.05	0.12	1.4	0.097	3.07	21.2	17.5	0.80	992	2.69	1.48	7.6
K295063		8.20	10.7	3.18	15.30	0.11	1.4	0.055	2.76	23.5	12.3	0.83	709	2.50	2.25	7.8
K295064		8.24	11.0	3.19	15.50	0.13	1.5	0.052	2.73	24.7	12.0	0.85	700	2.26	2.25	7.7
K295065		13.60	36.2	3.20	15.50	0.12	1.4	0.075	3.02	19.5	19.1	0.70	801	2.50	1.42	7.6
K295066		15.80	79.0	3.80	15.10	0.12	1.3	0.149	3.13	24.8	20.3	0.97	1230	2.69	0.18	6.6
K295067		20.4	49.6	3.13	15.30	0.11	1.6	0.154	3.23	23.1	23.4	0.79	1160	4.16	0.15	7.4
K295068		8.55	134.0	5.63	9.54	0.09	1.0	7.52	2.11	21.2	10.0	2.11	7200	2.57	0.02	4.1
K295069		14.85	270	4.23	14.05	0.11	1.3	0.340	3.02	28.3	10.1	1.49	4340	3.50	0.03	6.0
K295070		0.83	5910	5.63	11.75	0.09	1.5	0.426	1.13	8.5	12.8	1.10	1680	20.8	1.60	3.1
K295071		14.05	56.8	4.04	13.55	0.11	1.4	0.383	2.86	29.5	23.4	0.72	2850	4.05	0.03	6.3
K295072		13.00	79.2	2.81	16.25	0.11	1.3	0.141	2.99	22.2	26.1	0.58	1130	1.91	0.05	7.6
K295073		14.85	83.8	3.36	16.30	0.13	1.4	0.182	2.89	25.6	26.9	0.63	969	3.24	0.04	7.4
K295074		13.40	97.6	3.46	15.50	0.11	1.4	0.233	2.74	21.4	26.9	0.64	641	3.27	0.04	6.8
K295075		12.55	74.4	2.96	16.30	0.12	1.4	0.182	3.20	22.1	26.8	0.48	576	2.40	0.45	7.6
K295076		10.50	95.7	2.47	16.40	0.12	1.3	0.393	3.38	16.2	14.8	0.56	840	2.39	0.17	7.2
K295077		0.10	2.2	0.13	0.36	0.11	<0.1	0.008	0.03	1.3	1.1	1.70	126	0.06	0.03	0.1
K295078		9.49	114.5	3.26	16.55	0.19	1.4	0.340	3.10	29.4	17.0	0.76	843	2.20	0.11	6.5
K295079		14.80	58.9	2.67	15.90	0.19	1.6	0.092	3.09	21.0	26.6	0.70	782	2.36	0.45	7.7
K295080		10.15	49.0	2.92	17.00	0.20	1.4	0.123	3.41	25.0	20.4	0.75	747	3.77	1.30	7.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K295041		3.4	970	30.0	74.2	<0.002	0.05	9.83	6.0	<1	1.5	222	0.77	<0.05	11.05	0.271
K295042		10.4	780	23.3	82.6	<0.002	0.18	5.92	4.8	<1	1.3	273	0.60	<0.05	8.23	0.265
K295043		9.1	800	25.6	86.3	<0.002	0.14	7.54	5.2	<1	1.4	259	0.66	<0.05	9.39	0.266
K295044		12.3	830	25.2	72.9	<0.002	0.11	7.22	5.6	<1	1.9	342	0.68	<0.05	9.49	0.286
K295045		14.1	730	19.4	70.2	<0.002	0.08	5.92	4.9	<1	1.7	257	0.66	<0.05	8.16	0.270
K295046		17.7	690	43.4	95.1	<0.002	0.11	6.96	6.4	<1	2.0	179.0	0.74	<0.05	14.65	0.269
K295047		16.0	660	75.8	85.9	<0.002	0.31	8.26	5.7	<1	2.4	163.5	0.67	0.05	12.80	0.254
K295048		3.7	630	95.9	114.5	0.003	0.96	13.60	10.7	<1	3.3	112.0	0.60	0.21	13.45	0.254
K295049		2.5	640	16.1	76.8	0.002	0.06	3.82	10.7	<1	2.1	353	0.58	0.18	11.40	0.266
K295050		2.2	610	37.9	177.5	0.003	0.83	6.04	10.3	<1	2.0	145.5	0.54	0.18	12.80	0.235
K295051		2.5	650	455	290	0.002	2.41	7.70	11.6	<1	3.9	100.5	0.50	0.70	14.20	0.230
K295052		2.7	610	164.5	160.5	0.003	1.10	7.43	10.1	<1	2.2	134.0	0.54	0.23	10.80	0.238
K295053		2.7	610	24.6	132.5	0.003	0.49	5.06	9.6	<1	1.9	183.0	0.58	0.11	11.95	0.234
K295054		2.0	570	17.4	134.5	0.002	0.31	4.14	8.8	<1	1.4	206	0.58	0.13	13.30	0.220
K295055		27.4	470	>10000	30.7	0.008	2.38	462	12.7	1	1.8	195.0	0.21	1.28	2.40	0.241
K295056		2.3	620	22.8	103.0	<0.002	0.21	3.21	9.5	<1	1.4	365	0.54	0.15	12.75	0.255
K295057		2.6	620	46.3	174.0	<0.002	1.22	5.58	11.2	<1	2.5	214	0.64	0.31	15.45	0.244
K295058		2.6	610	56.9	164.0	<0.002	1.77	5.96	11.2	<1	2.8	243	0.60	0.14	13.20	0.253
K295059		2.3	610	136.5	153.5	0.002	1.15	6.77	9.5	<1	2.4	214	0.59	0.10	12.60	0.246
K295060		2.6	640	80.1	175.5	0.004	2.14	8.85	11.2	1	3.2	125.0	0.59	0.34	14.00	0.252
K295061		2.5	680	17.6	111.5	0.002	0.37	4.37	11.8	<1	1.8	313	0.58	0.16	11.45	0.278
K295062		2.3	650	25.6	113.0	0.002	0.55	4.45	10.5	<1	1.8	300	0.58	0.24	11.40	0.262
K295063		2.6	640	15.4	90.1	<0.002	0.06	1.52	10.6	<1	1.4	403	0.58	<0.05	12.15	0.268
K295064		2.6	640	16.3	94.9	<0.002	0.06	1.47	11.0	<1	1.5	400	0.60	<0.05	13.40	0.266
K295065		2.4	630	22.7	104.5	<0.002	0.32	3.72	9.7	<1	1.9	281	0.57	0.10	10.65	0.260
K295066		2.6	640	25.3	140.0	0.002	1.19	9.52	10.5	1	2.9	130.5	0.49	0.53	11.70	0.236
K295067		2.1	590	33.6	119.0	0.004	0.60	8.94	9.3	<1	1.8	123.0	0.63	0.41	13.75	0.241
K295068		1.6	360	2480	122.0	0.003	4.55	12.90	5.5	1	4.7	91.6	0.38	0.32	10.40	0.133
K295069		2.1	530	310	194.0	0.004	3.14	69.2	8.6	1	2.7	76.0	0.48	0.62	12.35	0.205
K295070		28.2	460	>10000	28.4	0.009	2.30	441	11.7	1	1.9	189.5	0.20	1.15	1.83	0.234
K295071		2.8	460	270	167.0	0.007	1.84	20.3	8.2	1	2.7	52.5	0.57	0.57	13.35	0.182
K295072		2.1	610	23.2	127.0	0.003	0.80	11.60	10.1	1	1.7	80.7	0.60	0.30	10.85	0.251
K295073		2.6	600	74.7	124.0	0.004	1.63	15.75	10.5	1	2.7	96.1	0.57	0.47	11.65	0.246
K295074		2.1	570	21.5	101.0	0.007	2.19	13.60	9.9	2	2.4	99.9	0.54	2.40	10.10	0.230
K295075		2.7	620	21.6	111.0	0.005	0.76	7.26	10.0	1	2.2	146.0	0.59	0.69	10.80	0.256
K295076		1.8	610	13.0	133.0	0.003	0.58	12.25	9.9	<1	2.0	118.0	0.50	2.62	8.86	0.240
K295077		0.5	80	0.5	1.0	<0.002	0.01	0.11	0.2	<1	<0.2	78.1	<0.05	<0.05	0.12	0.005
K295078		2.6	570	87.3	146.5	0.002	1.60	17.70	11.3	1	3.6	98.5	0.50	1.33	11.40	0.217
K295079		2.2	590	24.3	89.0	0.004	0.35	12.50	9.4	<1	1.9	164.5	0.61	0.13	10.80	0.246
K295080		2.7	650	23.7	131.0	0.006	0.53	3.45	10.7	1	2.8	297	0.56	0.12	10.90	0.258

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K295041		1.79	4.7	56	2.0	14.0	161	90.7	<0.005
K295042		2.20	3.7	50	2.8	10.3	96	68.9	0.007
K295043		2.42	4.7	49	2.9	11.7	103	67.2	0.008
K295044		2.10	4.3	56	2.2	11.6	96	83.7	<0.005
K295045		2.17	3.4	52	1.6	10.1	270	93.1	<0.005
K295046		1.71	4.9	53	2.2	14.0	351	154.5	0.034
K295047		1.49	4.2	49	2.1	12.0	496	141.0	0.064
K295048		2.40	2.9	74	2.4	15.4	1310	43.6	0.103
K295049		1.10	2.2	78	1.5	15.5	246	38.4	0.007
K295050		2.53	3.3	73	2.3	15.3	762	38.7	0.031
K295051		3.39	4.1	74	4.7	14.4	1480	38.5	0.093
K295052		2.62	3.4	74	3.2	13.9	705	39.4	0.044
K295053		1.97	2.8	71	1.8	13.4	589	42.5	0.012
K295054		2.08	4.3	69	2.1	13.1	222	38.1	0.019
K295055		0.52	1.4	84	0.6	14.7	5140	53.9	0.279
K295056		1.17	2.5	75	1.6	14.4	184	37.8	0.013
K295057		2.19	3.1	72	2.1	15.1	349	41.8	0.027
K295058		2.13	3.2	75	2.1	16.0	245	42.6	0.074
K295059		1.94	3.6	71	2.6	13.9	626	41.4	0.019
K295060		2.20	3.4	74	3.1	15.5	413	39.8	0.060
K295061		1.33	3.2	84	1.7	16.1	151	42.9	0.012
K295062		1.60	4.0	76	1.9	15.1	106	41.2	0.027
K295063		0.95	3.1	76	1.1	17.0	82	41.9	0.006
K295064		1.00	3.4	76	1.2	17.3	81	40.9	0.006
K295065		1.38	3.5	74	2.2	13.9	156	39.6	0.019
K295066		2.08	3.8	73	2.5	15.8	188	37.0	0.030
K295067		1.93	4.1	70	2.4	14.5	178	43.2	0.020
K295068		2.12	6.5	42	4.1	8.4	>10000	26.1	0.953
K295069		2.92	4.9	64	3.7	12.0	407	36.5	0.294
K295070		0.50	1.3	78	0.5	13.4	4990	48.3	0.267
K295071		2.73	3.0	51	2.9	11.3	834	41.0	0.213
K295072		2.09	2.8	68	3.0	13.1	179	41.5	0.112
K295073		2.23	3.0	69	2.9	13.1	284	42.0	0.225
K295074		2.06	3.0	67	2.4	12.1	109	42.0	0.064
K295075		1.70	2.8	69	2.4	13.4	138	43.5	0.027
K295076		2.52	3.6	69	2.5	11.4	81	39.2	0.028
K295077		0.02	0.1	1	<0.1	2.1	5	1.6	<0.005
K295078		2.07	3.3	77	2.4	16.3	282	39.3	0.042
K295079		1.57	2.8	67	2.5	13.8	275	46.4	0.013
K295080		1.79	3.3	72	1.3	15.1	65	43.7	0.027

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249616

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249620

Project: Klaza

P.O. No.: 19-067

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249620

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593772		4.82			0.13	6.88	18.7	2270	1.53	0.05	2.74	0.08	40.1	6.9	14	16.00
W593773		2.62			0.48	6.82	387	2140	1.67	0.05	2.43	0.34	40.1	7.2	7	17.90
W593774		4.88			0.16	7.08	20.7	2170	1.42	0.04	2.41	0.10	40.7	6.7	9	25.6
W593775		2.28			0.95	6.52	167.5	1720	1.50	0.03	3.20	0.28	40.5	6.8	7	18.05
W593776		6.44			0.07	7.07	3.8	2170	1.56	0.03	2.51	0.08	42.4	6.9	10	18.05
W593777		9.70			0.10	6.94	35.1	1990	1.45	0.04	2.04	0.12	38.2	6.6	7	16.10
W593778		0.26			41.4	5.78	2580	180	1.29	37.4	1.72	45.4	36.9	17.6	22	10.10
W593779		3.27			1.10	6.59	738	1260	1.58	0.06	2.80	0.38	47.2	8.5	7	16.85
W593780		3.92			0.57	6.82	322	1380	1.59	0.04	2.59	0.32	38.0	8.0	8	16.25
W593781		4.85			0.29	7.41	137.5	2000	1.63	0.04	1.82	0.33	41.5	7.9	8	15.95
W593782		5.60			0.23	6.94	166.0	1770	1.52	0.07	1.84	0.37	38.1	7.0	8	13.90
W593783		5.91			0.22	8.04	140.5	1880	1.41	0.05	1.34	0.14	42.3	7.1	10	15.10
W593784		10.12			0.10	7.69	10.0	1810	1.24	0.05	1.58	0.13	44.2	7.3	7	15.40
W593785		5.00			<0.01	0.11	0.3	20	0.10	0.02	33.1	0.02	1.32	0.5	1	0.10
W593786		6.57			0.19	6.86	24.8	1420	1.24	0.04	2.15	0.16	40.7	6.9	7	13.90
W593787		1.25			0.78	6.61	165.0	1490	1.61	0.05	2.42	0.25	42.6	8.9	6	14.90
W593788		1.28			0.15	7.05	14.7	1750	1.23	0.06	2.13	0.13	37.2	7.1	8	13.35
W593789		1.55			0.12	6.98	13.2	1750	1.38	0.05	2.03	0.10	36.5	7.7	8	13.25
W593790		5.31			0.10	7.71	8.1	2200	1.28	0.05	1.34	0.09	40.5	6.9	8	14.85
W593791		3.31			0.07	8.24	6.3	2720	1.50	0.05	1.40	0.11	47.9	7.1	8	23.4
W593792		4.67			0.95	7.73	198.0	1900	1.36	0.05	1.54	0.16	48.9	7.2	8	18.25
W593793		1.67			0.09	7.29	7.7	2160	1.80	0.06	2.69	0.09	47.9	6.9	10	15.15
W593794		1.28			0.77	6.48	335	1490	1.86	0.06	2.79	1.03	39.0	6.9	9	18.70
W593795		0.26	97	0.960	>100	5.57	238	600	0.76	4.69	1.46	24.6	20.8	12.4	64	0.91
W593796		5.59			0.15	7.26	3.8	2280	1.84	0.05	2.56	0.08	47.0	6.8	11	13.40
W593797		3.67			0.25	7.71	13.3	1890	1.82	0.12	1.33	0.12	54.2	6.0	16	24.5
W593798		1.60			0.89	6.16	246	760	1.71	0.33	3.78	0.77	42.8	6.1	6	17.60
W593799		3.39			0.29	6.48	42.0	1930	1.41	0.04	2.44	0.12	38.8	6.0	10	12.50
W593800		2.72			0.23	7.03	106.0	1650	1.48	0.04	2.12	0.10	41.9	5.9	7	23.0
W593801		3.75			0.48	6.92	111.0	1130	1.65	0.10	2.45	0.15	56.2	7.4	19	17.30
W593802		8.88			0.09	6.72	7.4	1240	1.22	0.04	1.92	0.26	39.5	5.3	7	13.20
W593803		4.66			0.07	7.40	6.9	1590	1.55	0.04	1.41	0.18	41.7	5.6	8	19.75
W593804		6.21			10.65	7.92	293	2430	1.30	0.04	1.54	0.46	50.3	6.5	7	23.2
W593805		<0.02			9.62	7.66	267	2840	1.38	0.04	1.48	0.44	50.2	6.5	8	21.9
W593806		1.11			1.51	7.47	146.0	750	1.99	0.06	1.80	0.82	50.0	6.3	11	20.7
W593807		3.16			0.19	7.44	12.9	2280	1.68	0.17	2.81	0.07	45.2	6.6	11	15.45
W593808		1.09	834		>100	4.57	2710	930	1.08	0.04	1.78	42.7	38.6	24.2	5	11.95
W593809		8.98			1.06	7.54	14.3	2000	1.37	0.04	1.79	0.13	45.2	6.8	7	18.60
W593810		5.75			1.56	7.55	13.6	2040	1.50	0.04	1.70	0.16	45.8	6.2	8	23.9
W593811		4.85			0.35	6.88	69.5	1870	1.45	0.04	3.22	0.39	45.6	6.8	8	12.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249620

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593772		6.7	2.66	16.35	0.16	1.2	0.041	3.00	20.2	11.1	0.61	788	1.04	1.91	7.6	2.5
W593773		6.6	2.42	16.50	0.17	1.1	0.037	3.82	19.8	114.5	0.67	4560	0.93	0.30	7.4	2.2
W593774		6.5	2.53	16.25	0.16	1.1	0.038	2.95	20.4	83.4	0.55	1030	0.87	0.98	7.5	2.2
W593775		5.8	2.59	15.50	0.12	1.1	0.036	3.42	20.3	70.5	0.93	4240	1.28	0.53	6.9	2.3
W593776		6.2	2.67	16.60	0.15	1.2	0.041	2.77	20.7	25.9	0.59	672	1.04	2.03	8.0	2.3
W593777		6.9	2.67	16.50	0.16	1.2	0.038	2.79	19.0	50.1	0.63	1080	1.20	0.24	8.1	2.3
W593778		1205	9.28	15.05	0.11	0.8	1.735	2.69	18.9	17.3	0.68	2340	16.75	0.06	4.9	16.0
W593779		7.6	2.78	16.30	0.12	1.1	0.039	3.44	24.9	34.9	0.82	5410	1.98	0.05	7.7	2.8
W593780		7.1	2.74	16.90	0.12	1.3	0.036	3.29	18.5	57.9	0.76	2700	1.58	0.06	7.9	2.9
W593781		8.6	3.09	19.00	0.13	1.4	0.039	3.04	20.0	33.8	0.59	2260	1.60	0.05	9.0	2.8
W593782		7.1	2.77	17.35	0.11	1.4	0.045	2.60	18.6	46.7	0.57	2060	1.41	0.06	8.2	2.4
W593783		8.4	2.95	18.55	0.13	1.3	0.046	2.92	20.7	32.6	0.49	1600	1.64	0.07	9.3	2.5
W593784		9.0	2.79	17.95	0.12	1.3	0.035	2.35	22.6	45.1	0.55	899	1.11	0.06	8.9	2.4
W593785		1.4	0.13	0.41	0.19	<0.1	0.008	0.03	1.4	1.2	1.90	129	0.06	0.03	0.2	0.6
W593786		8.0	2.66	16.05	0.22	1.2	0.037	2.37	19.8	58.7	0.69	1440	1.08	0.06	7.9	2.3
W593787		9.2	2.85	15.60	0.19	1.1	0.035	2.72	21.8	35.0	0.73	4830	1.97	0.05	7.1	2.7
W593788		8.7	2.75	16.50	0.17	1.2	0.044	2.44	17.7	75.1	0.71	1160	0.84	0.08	8.0	2.5
W593789		10.8	2.81	17.15	0.18	1.3	0.043	2.41	17.4	82.9	0.66	1140	0.90	0.08	8.2	2.5
W593790		8.3	2.73	17.85	0.14	1.4	0.043	2.25	19.8	47.7	0.50	883	0.88	0.07	8.5	2.4
W593791		7.9	2.98	18.70	0.14	1.6	0.044	2.59	23.9	110.0	0.57	951	0.99	0.07	9.6	2.6
W593792		6.1	2.92	17.65	0.16	1.5	0.041	2.81	24.8	42.4	0.57	1920	1.00	0.24	8.8	2.6
W593793		5.8	2.67	16.65	0.13	1.5	0.040	3.09	24.3	18.3	0.64	1160	1.10	1.95	8.2	2.4
W593794		5.6	2.62	15.80	0.14	1.3	0.044	3.43	18.8	16.1	0.54	3450	1.63	0.74	7.7	2.2
W593795		6100	5.81	12.65	0.11	1.4	0.462	1.15	9.1	13.4	1.13	1720	20.8	1.66	3.3	30.3
W593796		8.0	2.69	16.70	0.16	1.4	0.040	2.85	23.6	14.9	0.69	680	0.97	2.35	8.5	2.5
W593797		9.4	2.64	15.50	0.14	1.5	0.038	2.77	28.8	362	0.52	1360	0.62	0.29	8.0	2.3
W593798		5.5	2.91	12.70	0.12	1.1	0.026	2.90	24.0	35.3	1.15	4940	2.06	0.07	5.8	1.9
W593799		6.2	2.39	14.00	0.11	1.2	0.034	2.40	19.1	183.0	0.72	1740	0.71	0.05	6.8	2.2
W593800		6.3	2.53	15.70	0.14	1.4	0.031	3.27	20.4	123.0	0.65	1440	0.77	0.10	7.5	2.2
W593801		8.9	2.54	15.25	0.11	2.4	0.029	1.94	29.2	130.0	0.98	1390	0.95	0.05	8.1	6.5
W593802		5.4	2.36	13.85	0.13	1.3	0.035	1.79	20.1	78.0	0.62	976	0.61	0.04	7.0	2.0
W593803		9.5	2.58	15.60	0.09	1.3	0.036	2.06	20.5	202	0.51	957	0.97	0.05	7.4	2.1
W593804		10.4	2.89	16.50	0.11	1.3	0.040	2.81	26.1	58.2	0.57	1930	0.93	0.06	7.7	2.4
W593805		9.7	2.87	15.80	0.12	1.3	0.035	2.73	25.7	61.7	0.54	1780	0.98	0.06	7.6	2.4
W593806		8.3	2.60	15.50	0.11	2.0	0.033	2.70	25.0	282	0.63	2570	0.90	0.05	7.8	2.8
W593807		21.7	3.08	15.45	0.12	1.3	0.052	2.98	22.3	14.3	0.69	889	1.42	2.06	7.5	2.4
W593808		286	2.95	11.45	0.09	0.8	0.022	1.57	21.0	60.7	0.55	45900	9.48	0.03	4.2	12.1
W593809		7.6	2.91	15.55	0.10	1.3	0.031	2.80	23.0	48.0	0.62	1040	0.72	0.11	7.5	2.3
W593810		6.8	2.66	15.75	0.11	1.4	0.036	2.77	22.9	142.0	0.58	1320	0.69	0.18	7.6	2.1
W593811		6.3	2.78	14.05	0.11	1.3	0.034	2.28	24.1	200	1.01	1850	0.73	0.04	6.9	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249620

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593772		580	16.8	108.5	<0.002	0.09	4.86	9.2	<1	1.5	337	0.53	<0.05	8.90	0.242	1.44
W593773		580	19.1	132.0	<0.002	0.91	23.8	9.6	1	1.5	181.5	0.51	<0.05	9.16	0.243	2.91
W593774		590	16.5	99.1	<0.002	0.11	13.75	9.3	1	1.5	240	0.50	<0.05	8.69	0.251	1.64
W593775		550	28.6	112.0	<0.002	0.60	27.3	8.8	1	1.5	198.5	0.51	<0.05	8.47	0.223	2.15
W593776		570	17.2	100.0	<0.002	0.01	5.07	9.6	1	1.5	346	0.60	<0.05	9.70	0.243	1.17
W593777		590	15.4	90.5	<0.002	0.10	21.0	9.3	<1	1.7	133.5	0.59	<0.05	9.65	0.248	1.53
W593778		460	1680	154.0	0.002	8.01	109.0	8.6	1	11.4	67.7	0.35	0.78	8.15	0.167	2.30
W593779		560	35.2	147.5	<0.002	1.74	45.7	9.6	<1	1.6	137.5	0.56	<0.05	10.80	0.227	2.83
W593780		560	24.3	112.0	<0.002	1.08	34.6	9.4	<1	1.7	138.0	0.64	<0.05	9.36	0.238	2.37
W593781		620	17.2	108.5	<0.002	1.02	27.7	10.2	1	2.0	107.0	0.68	<0.05	10.60	0.266	1.90
W593782		580	19.6	87.5	<0.002	0.38	31.1	9.7	<1	1.7	104.5	0.64	<0.05	9.72	0.245	1.57
W593783		670	18.9	115.5	<0.002	0.30	22.6	11.2	<1	2.0	97.4	0.69	<0.05	10.85	0.286	1.59
W593784		640	14.3	86.1	<0.002	0.05	20.1	10.7	<1	2.0	110.0	0.67	<0.05	10.70	0.263	1.26
W593785		90	0.6	1.1	<0.002	<0.01	0.12	0.2	<1	<0.2	82.4	<0.05	<0.05	0.11	0.006	0.02
W593786		590	13.1	74.2	<0.002	0.20	21.3	9.4	<1	1.8	127.5	0.58	<0.05	9.75	0.242	1.40
W593787		540	27.4	98.8	<0.002	0.91	27.9	9.0	<1	2.0	136.0	0.52	<0.05	10.10	0.226	1.86
W593788		600	15.5	71.8	<0.002	0.07	19.55	9.8	<1	1.9	140.0	0.55	<0.05	9.47	0.256	1.28
W593789		610	15.9	68.8	<0.002	0.09	20.2	9.8	<1	2.2	137.0	0.58	<0.05	9.44	0.255	1.30
W593790		600	14.7	85.9	<0.002	0.05	23.5	10.3	<1	1.9	98.8	0.67	<0.05	10.80	0.252	1.05
W593791		650	14.8	104.5	<0.002	0.07	21.3	11.4	<1	1.9	112.5	0.81	<0.05	12.75	0.274	1.24
W593792		600	23.1	110.0	<0.002	0.19	23.6	10.6	<1	1.8	121.0	0.76	<0.05	12.15	0.254	1.43
W593793		560	17.6	118.5	<0.002	0.15	5.20	9.1	<1	1.5	337	0.66	<0.05	11.55	0.239	1.43
W593794		530	19.4	141.0	<0.002	0.83	21.4	8.3	<1	1.5	141.0	0.63	<0.05	9.57	0.225	2.27
W593795		470	>10000	30.1	0.012	2.35	455	12.4	2	2.0	195.0	0.20	1.21	1.83	0.241	0.52
W593796		560	21.2	111.5	<0.002	0.01	1.91	9.6	1	1.4	359	0.69	<0.05	12.00	0.238	1.11
W593797		550	15.5	128.5	<0.002	0.17	26.6	9.9	<1	1.6	198.0	0.76	<0.05	16.50	0.247	1.36
W593798		420	22.4	144.5	<0.002	1.38	30.0	7.5	<1	1.3	132.0	0.56	<0.05	11.30	0.186	1.90
W593799		520	15.5	73.5	<0.002	0.27	28.4	8.4	1	1.4	202	0.59	<0.05	10.15	0.233	1.58
W593800		540	15.6	108.0	<0.002	0.39	17.90	8.9	<1	1.5	170.5	0.67	<0.05	11.30	0.241	1.93
W593801		780	18.5	68.9	<0.002	0.27	27.6	8.3	1	1.3	318	0.65	<0.05	10.25	0.272	1.26
W593802		560	13.9	57.1	<0.002	0.05	22.0	8.4	<1	1.4	139.5	0.63	<0.05	10.40	0.234	0.80
W593803		580	12.0	72.2	<0.002	0.07	26.3	9.3	<1	1.5	145.5	0.64	<0.05	11.20	0.250	0.91
W593804		590	40.3	114.0	<0.002	0.55	58.0	10.2	<1	2.0	128.5	0.67	<0.05	14.80	0.260	1.41
W593805		610	37.8	109.0	<0.002	0.51	59.5	10.0	1	1.9	127.0	0.66	<0.05	14.20	0.257	1.36
W593806		760	35.1	96.0	<0.002	0.74	117.0	8.6	<1	1.6	502	0.66	<0.05	11.80	0.280	1.73
W593807		590	18.0	110.5	<0.002	0.05	4.77	9.9	1	1.4	368	0.65	<0.05	12.75	0.259	1.21
W593808		330	2250	74.9	0.007	1.69	1200	5.9	1	34.7	126.5	0.39	<0.05	8.62	0.138	3.56
W593809		580	16.0	103.0	<0.002	0.10	34.9	9.6	1	1.5	131.0	0.68	<0.05	13.90	0.253	1.34
W593810		600	19.3	102.5	<0.002	0.10	19.80	9.5	<1	1.6	198.5	0.70	<0.05	14.10	0.257	1.38
W593811		550	19.7	77.9	<0.002	0.41	27.8	8.9	<1	1.5	292	0.63	<0.05	12.90	0.229	1.44

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249620

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593772		2.9	63	1.2	13.5	56	37.7	0.011
W593773		4.2	63	2.4	13.4	61	35.9	0.364
W593774		3.3	66	1.6	12.8	55	35.5	<0.005
W593775		3.8	60	2.1	12.9	83	34.0	0.151
W593776		2.6	65	2.1	14.8	56	36.8	<0.005
W593777		2.6	64	3.0	13.6	62	38.5	0.024
W593778		5.3	56	7.2	9.7	3430	24.1	1.645
W593779		4.6	62	4.1	15.2	61	33.2	0.671
W593780		2.8	65	3.6	14.5	61	37.3	0.170
W593781		2.9	70	4.4	13.9	72	41.0	0.105
W593782		3.1	65	5.2	13.4	77	39.2	0.171
W593783		3.4	72	5.7	14.8	69	39.6	0.076
W593784		2.1	68	6.9	15.5	67	38.5	<0.005
W593785		0.1	1	<0.1	2.4	5	1.5	0.008
W593786		2.7	64	6.1	14.4	67	35.9	0.010
W593787		4.4	61	3.8	14.3	65	32.9	0.153
W593788		3.1	68	4.2	14.1	68	37.7	<0.005
W593789		3.0	68	4.8	14.0	69	39.8	<0.005
W593790		2.9	65	6.1	15.0	61	43.4	<0.005
W593791		4.2	73	5.6	17.9	68	45.9	<0.005
W593792		4.5	68	4.6	17.5	77	43.3	0.132
W593793		4.0	61	1.5	17.1	57	41.7	<0.005
W593794		5.4	59	1.6	13.3	137	39.2	0.241
W593795		1.3	80	0.6	14.5	5180	54.6	0.277
W593796		4.6	62	1.4	17.0	56	40.6	<0.005
W593797		6.4	65	3.8	16.1	55	46.7	<0.005
W593798		7.7	49	1.5	14.0	106	35.1	0.480
W593799		4.1	63	2.4	13.3	48	37.4	0.022
W593800		3.6	63	2.7	13.9	55	43.4	0.077
W593801		4.7	64	2.2	14.2	64	97.2	0.109
W593802		2.8	54	5.7	13.2	74	39.3	<0.005
W593803		3.0	65	6.1	13.1	67	39.2	<0.005
W593804		3.2	68	3.7	15.8	97	40.7	0.467
W593805		3.5	66	3.6	15.3	91	39.1	0.414
W593806		7.4	67	3.0	12.8	102	76.3	0.192
W593807		3.2	70	1.4	16.3	62	40.3	<0.005
W593808		3.4	45	2.1	13.2	2340	25.3	7.97
W593809		2.7	67	3.4	15.7	64	42.0	<0.005
W593810		3.6	66	3.5	14.6	71	43.4	0.009
W593811		6.3	64	2.8	15.5	74	38.7	0.076

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249620

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249623

Project: Klaza

P.O. No.: 19-068

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249623

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295081		1.16			28.2	6.02	680	480	1.38	50.0	1.87	93.8	35.9	8.0	7	12.70
K295082		2.16			2.89	7.75	100.5	980	1.71	4.01	1.95	2.59	52.5	34.6	8	9.32
K295083		4.85			7.86	7.84	222	960	1.86	4.05	2.15	12.30	54.7	7.3	7	20.4
K295084		4.29			1.50	7.44	101.5	1650	1.81	2.78	2.46	1.65	54.6	10.4	8	18.35
K295085		3.92			3.37	7.38	175.5	1030	1.52	4.03	1.46	6.88	69.7	8.7	8	9.21
K295086		4.34			0.23	7.67	10.4	2320	1.69	0.29	2.55	0.29	44.4	7.1	10	14.00
K295087		<0.02			0.27	7.78	11.1	2350	1.66	0.35	2.59	0.29	46.5	7.1	13	14.00
K295088		5.26			0.25	7.87	19.3	2000	1.48	0.35	1.75	0.32	45.9	7.1	9	16.95
K295089		5.54			0.57	6.95	17.2	2540	1.58	1.19	2.77	0.34	36.7	6.1	10	19.55
K295090		4.95			0.48	7.44	37.5	2560	1.53	1.10	2.06	0.37	72.5	6.4	8	14.90
K295091		6.73			0.26	7.22	20.1	2640	1.78	1.38	2.09	0.13	55.3	3.4	10	9.33
K295092		6.85			1.08	7.24	78.1	1090	1.40	2.92	2.12	1.15	42.4	12.8	9	12.50
K295093		5.01			0.51	7.10	53.8	2970	1.41	1.32	2.08	0.28	44.1	8.2	10	11.90
K295094		0.25	104	1.050	>100	5.50	233	610	0.74	4.70	1.43	22.7	19.30	11.0	61	0.84
K295095		5.34			0.75	7.53	55.4	2630	1.44	1.36	2.13	0.22	47.3	11.0	10	13.05
K295096		5.50			1.06	7.65	131.5	1220	1.41	2.61	1.82	0.30	87.4	31.2	11	13.85
K295097		5.51			2.02	6.99	120.5	720	1.40	3.11	2.38	7.06	47.7	23.1	10	11.00
K295098		4.32			0.64	7.21	46.5	2680	1.45	1.24	2.45	0.22	54.9	7.1	10	11.90
K295099		4.66			0.53	7.20	33.6	2900	1.80	1.62	3.26	0.31	58.7	1.7	10	9.06
K295100		3.38			3.10	8.29	180.5	440	1.53	4.50	0.96	7.32	22.7	4.9	10	5.82
K295101		5.19			0.03	0.11	0.2	30	0.07	0.02	33.4	0.02	1.06	0.7	1	<0.05
K295102		4.32			2.29	6.10	149.0	690	0.89	2.06	0.73	5.84	26.5	4.5	9	11.35
K295103		1.07			2.27	6.81	304	230	1.26	3.24	0.31	5.84	17.60	1.2	8	4.22
K295104		2.92			8.00	6.80	1270	300	1.31	2.91	0.52	41.0	15.85	1.2	9	5.20
K295105		4.39			5.85	6.20	284	570	1.05	6.32	1.40	10.15	12.00	0.8	9	4.94
K295106		3.48			3.01	6.95	384	350	1.23	1.20	0.84	12.10	7.52	0.6	9	8.29
K295107		2.00			3.75	6.72	236	820	1.73	1.34	2.98	8.83	48.7	10.5	10	18.70
K295108		2.14			9.90	6.52	303	1350	1.86	1.50	4.20	35.4	49.6	7.5	10	20.4
K295109		4.88			1.72	6.80	86.7	1620	1.67	0.55	3.12	11.90	48.5	5.7	15	17.55
K295110		5.73			0.18	6.78	24.1	1340	1.98	0.13	3.28	0.22	48.2	6.4	16	14.55
K295111		2.40			2.07	7.18	190.5	160	1.20	3.78	0.63	4.25	42.3	9.4	10	4.22
K295112		4.18			22.0	6.45	628	360	1.11	22.9	0.62	38.2	34.9	18.7	10	5.00
K295113		5.60			9.62	6.96	1675	700	1.42	1.60	2.16	34.3	47.1	5.3	9	13.35
K295114		5.61			2.34	7.16	803	1040	1.66	1.24	1.61	7.57	48.9	5.7	6	31.0
K295115		0.26	102	1.020	>100	5.75	259	640	0.72	4.90	1.53	24.3	19.85	12.2	63	0.85
K295116		6.22			1.71	7.55	188.0	1940	1.61	1.45	1.37	1.87	51.5	5.4	7	14.25
K295117		5.06			4.19	7.10	121.5	1890	1.46	1.57	1.31	1.56	47.7	5.5	10	11.60
K295118		5.92			2.29	7.16	179.5	1160	1.68	1.80	1.74	8.48	47.0	5.2	6	15.15
K295119		3.31			4.75	7.06	805	200	1.50	4.05	0.52	17.30	43.0	9.2	7	7.93
K295120		3.70			7.41	6.48	461	150	1.25	7.20	0.22	14.40	41.8	22.0	8	4.70

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249623

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295081		515	8.59	12.95	0.12	1.1	0.394	2.98	19.5	8.9	0.77	1350	1.68	0.05	5.2	2.3
K295082		35.7	3.97	15.20	0.13	1.3	0.270	3.85	29.0	7.7	0.87	1720	3.28	0.05	5.8	2.4
K295083		253	4.46	16.20	0.12	1.3	0.659	3.47	29.3	9.9	0.92	1790	3.19	0.04	7.1	2.5
K295084		139.0	3.23	15.35	0.12	1.4	0.189	3.38	29.7	10.3	0.94	1400	2.94	0.04	6.5	2.7
K295085		50.6	4.43	14.70	0.13	1.4	0.404	3.63	39.3	12.2	0.71	2150	2.99	0.06	5.2	2.6
K295086		13.8	3.28	15.55	0.14	1.2	0.056	2.88	22.9	15.9	0.76	580	2.21	1.82	7.4	2.6
K295087		14.7	3.30	15.70	0.13	1.2	0.056	2.92	23.6	15.8	0.77	574	2.02	1.85	7.5	2.8
K295088		23.2	2.99	16.15	0.12	1.3	0.057	3.03	23.4	33.7	0.58	724	3.48	0.32	8.0	2.3
K295089		15.2	3.12	14.60	0.12	1.2	0.047	2.89	18.1	16.6	0.70	649	2.79	1.29	7.1	2.4
K295090		53.7	3.49	15.35	0.14	1.1	0.186	3.06	38.0	23.7	0.79	851	2.20	0.20	6.5	2.5
K295091		22.6	2.41	14.95	0.13	1.1	0.219	3.52	28.6	8.7	0.54	603	2.35	1.55	5.8	2.2
K295092		115.5	3.89	15.35	0.13	0.9	0.218	3.55	21.8	16.2	0.75	733	17.20	1.16	6.6	2.5
K295093		52.1	3.56	16.00	0.13	0.8	0.249	3.35	22.5	15.6	0.71	747	15.30	1.40	6.5	3.1
K295094		6030	5.80	11.10	0.10	1.5	0.416	1.16	8.7	12.5	1.10	1700	18.50	1.64	2.9	26.8
K295095		104.5	3.64	16.05	0.14	0.9	0.147	3.57	25.8	13.8	0.73	706	2.87	1.34	6.4	2.7
K295096		160.5	3.95	15.70	0.15	0.9	0.221	3.84	48.3	10.4	0.81	833	6.98	0.32	5.8	3.2
K295097		124.5	3.92	14.70	0.13	0.9	0.304	3.25	24.9	12.5	0.81	901	9.92	0.64	6.2	3.0
K295098		80.2	2.98	15.80	0.13	1.0	0.116	3.32	28.1	10.7	0.66	638	1.67	1.74	6.6	3.2
K295099		26.6	2.12	15.35	0.14	0.9	0.108	3.79	28.4	9.6	0.64	909	1.95	0.49	6.0	2.6
K295100		96.0	3.96	15.75	0.09	1.1	0.389	4.02	11.2	6.2	0.61	1390	2.57	0.09	6.7	2.1
K295101		2.6	0.14	0.31	0.10	<0.1	<0.005	0.03	1.1	1.0	1.70	129	0.07	0.04	0.1	0.6
K295102		27.2	2.66	14.30	0.10	0.9	0.246	2.98	14.3	7.9	0.36	467	5.39	0.04	4.4	2.2
K295103		8.9	3.45	16.35	0.08	1.4	0.334	3.48	7.7	4.1	0.33	171	2.54	0.05	4.3	2.7
K295104		178.0	3.74	15.10	0.09	1.4	0.792	3.51	7.3	4.3	0.40	350	1.74	0.04	4.6	2.1
K295105		111.0	3.40	12.10	0.09	1.3	0.413	3.05	6.0	5.1	0.58	1640	3.66	0.03	4.9	1.4
K295106		54.1	3.88	14.60	0.08	1.4	0.458	3.35	3.8	9.4	0.51	793	2.59	0.03	5.0	2.4
K295107		150.0	3.33	16.60	0.12	2.3	0.400	2.85	23.8	18.8	0.99	2290	3.51	0.04	6.4	5.3
K295108		292	3.48	15.40	0.13	2.4	0.842	2.61	26.7	17.7	1.41	3390	3.28	0.03	6.7	4.9
K295109		26.1	2.61	17.40	0.13	3.6	0.139	3.07	24.7	24.1	0.98	1350	1.85	0.05	9.4	5.7
K295110		7.7	2.52	19.15	0.13	3.6	0.032	3.07	24.1	57.6	1.15	1180	1.65	0.05	10.3	5.9
K295111		21.4	5.57	17.35	0.14	1.4	0.134	3.48	21.0	7.8	0.45	535	2.14	0.05	5.0	3.1
K295112		180.0	10.95	16.60	0.13	1.2	0.930	3.13	18.0	5.0	0.40	781	4.12	0.04	5.3	2.6
K295113		115.0	4.46	15.50	0.12	1.2	0.294	3.11	25.4	10.9	0.88	1740	2.87	0.03	5.9	2.6
K295114		81.4	3.32	15.10	0.12	1.4	0.222	3.12	27.7	14.6	0.63	1580	4.36	0.03	6.0	1.8
K295115		6300	6.02	12.90	0.11	1.6	0.440	1.20	8.8	12.8	1.18	1800	21.0	1.71	3.1	27.0
K295116		100.5	2.75	15.75	0.11	1.6	0.196	3.13	28.5	20.9	0.65	1300	7.00	0.03	5.7	1.6
K295117		44.9	2.78	14.00	0.11	1.6	0.180	3.25	27.0	16.4	0.62	1180	5.94	0.04	4.9	2.4
K295118		127.5	3.23	14.75	0.12	1.5	0.447	3.48	26.8	10.3	0.68	2330	4.58	0.03	5.3	1.6
K295119		92.2	4.51	15.50	0.11	1.5	0.462	3.51	23.8	7.3	0.39	949	2.72	0.03	5.9	1.7
K295120		310	5.13	13.25	0.11	1.5	0.345	3.20	21.0	5.5	0.30	244	2.98	0.04	4.9	1.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249623

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295081		440	908	164.5	<0.002	8.66	35.1	8.2	2	9.8	68.4	0.45	1.78	9.37	0.188	2.07
K295082		640	204	249	0.005	2.57	4.31	10.4	1	3.1	59.9	0.45	0.92	11.50	0.225	2.94
K295083		680	374	179.5	0.002	2.33	26.5	11.7	1	3.8	82.7	0.57	0.42	11.85	0.284	2.64
K295084		610	71.3	148.0	0.004	1.18	10.10	10.0	1	2.6	99.6	0.57	0.74	13.10	0.247	2.50
K295085		540	426	218	0.004	2.39	7.27	9.4	1	4.5	66.4	0.47	1.13	14.40	0.204	2.51
K295086		630	21.2	99.1	0.003	0.09	2.64	10.6	1	1.4	343	0.64	0.07	10.75	0.279	1.10
K295087		640	21.7	98.9	0.003	0.10	2.73	10.7	1	1.5	349	0.64	0.09	10.95	0.277	1.09
K295088		640	17.6	99.9	0.004	0.17	8.76	11.0	1	1.7	143.0	0.75	0.07	13.10	0.279	1.21
K295089		590	21.2	88.4	0.003	0.18	5.45	9.3	<1	1.8	258	0.59	0.50	9.36	0.263	1.16
K295090		860	19.1	114.0	0.002	0.45	14.40	10.1	1	2.6	129.0	0.55	0.21	12.40	0.245	1.64
K295091		600	11.4	128.5	0.006	0.35	2.83	9.0	1	2.7	232	0.65	0.10	11.10	0.213	2.09
K295092		620	85.4	114.0	0.090	1.61	5.21	9.8	1	2.6	215	0.58	0.67	10.10	0.243	1.78
K295093		680	19.1	106.5	0.105	1.01	6.42	10.5	1	2.5	269	0.47	0.17	7.42	0.261	1.65
K295094		460	>10000	28.2	0.010	2.29	452	11.2	2	1.8	191.5	0.20	1.22	1.90	0.247	0.44
K295095		630	26.5	125.0	0.012	0.84	4.73	10.4	1	3.2	249	0.45	0.17	10.30	0.257	1.62
K295096		590	26.7	192.5	0.020	1.99	11.15	10.6	1	5.4	135.5	0.47	0.49	15.75	0.225	2.33
K295097		590	76.2	129.5	0.032	1.82	14.80	9.6	1	4.6	206	0.49	0.69	8.89	0.238	1.83
K295098		600	23.5	112.5	0.003	0.53	4.17	9.8	<1	2.5	333	0.52	0.14	9.53	0.251	1.60
K295099		630	30.0	167.0	0.002	0.19	5.51	9.1	<1	2.1	182.0	0.42	0.05	9.95	0.230	2.74
K295100		670	482	235	<0.002	2.80	9.15	11.8	1	9.6	34.1	0.57	0.43	14.05	0.241	2.62
K295101		60	1.3	1.0	<0.002	0.01	0.09	0.2	1	<0.2	80.3	<0.05	<0.05	0.13	0.005	0.02
K295102		340	237	139.0	0.005	2.28	63.9	8.3	1	3.9	22.4	0.34	0.31	10.20	0.160	1.33
K295103		520	414	177.0	0.002	3.13	16.40	7.8	1	5.8	9.6	0.41	0.53	11.10	0.180	2.57
K295104		520	1305	207	0.002	3.51	38.3	8.5	1	7.7	13.3	0.44	0.31	11.80	0.177	2.77
K295105		580	309	189.0	0.004	2.54	39.2	7.7	<1	5.2	29.1	0.43	0.08	10.90	0.186	2.53
K295106		540	209	229	0.004	3.39	17.10	9.9	<1	4.8	25.4	0.46	<0.05	12.00	0.197	3.05
K295107		780	238	127.5	<0.002	1.69	33.2	7.7	1	3.4	234	0.51	0.11	9.76	0.218	2.74
K295108		730	603	143.0	<0.002	1.99	48.2	7.0	1	3.3	258	0.50	0.13	9.73	0.217	2.55
K295109		1010	257	118.0	<0.002	0.62	10.85	5.7	<1	1.8	199.0	0.68	<0.05	7.98	0.279	3.31
K295110		1070	13.9	107.0	<0.002	0.23	10.30	5.9	1	1.4	168.0	0.69	<0.05	7.47	0.293	3.65
K295111		630	193.0	180.0	<0.002	5.64	5.40	9.5	1	13.7	21.0	0.39	0.37	9.59	0.204	2.21
K295112		520	1895	179.0	<0.002	>10.0	33.9	9.2	3	12.0	15.9	0.45	1.82	9.27	0.191	2.45
K295113		580	1615	188.0	<0.002	3.04	34.3	10.8	1	5.2	74.3	0.49	0.20	10.90	0.238	2.84
K295114		450	433	164.5	0.003	1.91	18.70	7.3	1	5.4	53.3	0.60	0.18	16.10	0.177	2.47
K295115		480	>10000	28.4	0.012	2.43	473	11.9	2	2.0	199.5	0.20	1.22	2.01	0.243	0.50
K295116		460	143.0	152.0	0.003	0.61	20.8	7.1	1	1.6	72.2	0.62	0.15	18.35	0.166	2.32
K295117		370	102.0	146.5	<0.002	1.02	10.40	5.4	1	1.6	62.3	0.60	0.14	20.8	0.125	2.21
K295118		400	223	216	<0.002	1.73	16.80	6.5	1	2.4	44.1	0.58	0.32	17.45	0.146	3.08
K295119		400	371	197.5	<0.002	4.11	14.00	6.3	1	6.6	18.9	0.65	0.66	15.85	0.165	2.77
K295120		330	444	169.0	<0.002	5.23	21.0	5.2	2	8.9	11.8	0.62	0.93	15.65	0.128	1.93

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249623

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295081		3.6	55	2.1	10.4	6330	36.9	0.682
K295082		3.3	74	2.2	12.6	269	40.2	0.054
K295083		6.6	80	4.3	12.4	967	43.9	0.110
K295084		5.1	72	2.6	13.6	178	45.2	0.030
K295085		3.4	66	3.3	11.0	607	38.8	0.070
K295086		3.4	75	0.9	15.4	64	36.4	0.005
K295087		3.5	75	1.0	15.6	64	36.1	0.008
K295088		2.8	75	4.6	16.0	75	40.9	0.010
K295089		3.2	72	3.0	13.7	74	38.8	0.064
K295090		3.3	72	3.2	16.1	86	33.5	0.037
K295091		4.6	69	2.5	14.7	48	31.1	0.015
K295092		3.8	70	2.6	13.2	126	29.3	0.053
K295093		4.3	80	2.0	12.5	72	25.9	0.023
K295094		1.3	80	0.5	13.4	5110	55.3	0.257
K295095		3.4	74	1.9	13.1	66	28.5	0.058
K295096		4.0	69	3.2	13.5	64	30.3	0.109
K295097		3.1	67	2.8	12.4	827	26.7	0.121
K295098		3.0	70	1.6	14.5	54	32.0	0.029
K295099		3.9	72	3.4	13.3	63	31.1	0.015
K295100		2.6	76	9.3	6.1	550	34.9	0.114
K295101		0.1	1	<0.1	1.9	4	1.6	<0.005
K295102		2.2	60	6.8	5.7	450	24.4	0.086
K295103		1.7	65	9.7	3.2	436	37.0	0.200
K295104		2.7	65	11.3	4.0	2640	38.2	0.475
K295105		3.9	56	11.3	4.6	757	34.4	0.213
K295106		3.1	72	12.3	4.6	886	39.1	0.227
K295107		8.3	65	3.9	10.4	708	77.4	0.272
K295108		8.4	58	3.6	11.6	2760	84.5	0.438
K295109		4.4	60	2.6	11.2	1030	131.0	0.090
K295110		4.3	64	1.8	12.0	65	140.0	<0.005
K295111		2.8	72	7.8	6.4	369	38.9	0.152
K295112		3.1	64	5.4	8.5	2380	36.8	1.255
K295113		3.8	72	3.9	11.6	2440	38.3	1.185
K295114		5.0	51	3.4	11.4	603	36.5	0.380
K295115		1.3	83	0.6	14.3	5390	60.0	0.272
K295116		4.4	50	3.3	11.8	236	40.9	0.264
K295117		4.0	40	23.9	15.2	183	38.2	0.073
K295118		4.3	44	3.8	11.2	770	37.1	0.090
K295119		3.9	46	6.1	6.2	1390	34.5	0.551
K295120		3.0	40	3.8	5.3	1370	36.4	0.163

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249623

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249628

Project: Klaza

P.O. No.: 19-069

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249628

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	As-OG62 As % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
K295121		3.97				3.67	6.29	289	210	1.36	4.55	0.42	4.89	48.9	14.9	6
K295122		4.01				0.61	7.52	82.6	1810	1.48	0.98	2.06	0.38	45.1	6.6	8
K295123		3.54				1.06	7.27	181.0	2000	1.57	1.06	2.53	1.92	36.3	6.3	8
K295124		2.07				12.40	7.38	690	610	1.68	3.39	2.21	18.70	53.3	5.6	8
K295125		3.82				2.61	7.66	404	1160	1.74	4.46	1.87	1.96	46.3	13.1	9
K295126		2.42				1.06	7.79	1715	2180	1.59	3.16	2.00	0.80	45.4	9.2	8
K295127		1.84				1.21	7.83	1605	1810	1.75	6.73	1.97	0.78	44.0	19.6	8
K295128		4.22				1.89	7.38	296	1280	1.76	3.54	1.54	2.66	48.3	7.7	7
K295129		3.70			2.09	8.31	7.14	>10000	360	1.44	8.34	1.20	6.30	46.9	8.6	8
K295130		2.35				1.01	7.27	1235	1390	1.73	1.61	2.73	1.45	37.8	8.7	8
K295131		2.51				9.61	7.05	4450	790	1.49	7.45	1.47	9.09	50.1	9.1	7
K295132		5.47				5.19	7.41	82.7	1790	1.77	9.61	2.11	5.40	42.6	7.5	9
K295133		3.65				0.64	6.29	57.8	2170	1.68	0.61	2.38	0.64	32.6	5.5	6
K295134		0.26	104	1.055		>100	5.64	258	630	0.71	4.67	1.49	23.7	19.15	12.0	63
K295135		3.60				1.07	7.01	304	1630	1.75	1.18	1.69	2.01	38.6	3.8	6
K295136		4.93				0.55	7.41	61.4	2170	1.90	0.77	2.20	2.09	36.6	5.1	7
K295137		5.07				0.28	7.10	14.8	1680	1.80	0.37	2.04	0.54	40.8	3.8	5
K295138		4.24				0.48	6.74	18.7	1820	1.71	0.69	1.94	0.51	36.8	3.9	6
K295139		4.66				0.37	7.39	22.6	2180	1.69	0.82	2.66	0.26	45.5	5.6	9
K295140		5.08				0.56	7.57	31.9	2700	1.60	1.14	2.46	0.56	46.9	6.2	9
K295141		3.46				13.25	7.18	61.9	1910	1.48	39.6	2.67	1.85	45.1	6.1	10
K295142		4.09				0.28	7.46	11.8	2310	1.56	0.52	2.62	0.16	43.8	7.7	9
K295143		5.02				0.02	0.08	0.3	20	0.05	0.06	34.5	<0.02	0.95	0.6	<1
K295144		4.38				0.34	7.40	17.5	2270	1.77	0.93	2.49	0.41	41.2	6.5	8
K295145		4.60				0.17	7.79	9.9	2640	1.74	0.31	2.70	0.13	44.4	6.3	10
K295146		5.48				0.67	7.12	20.4	1860	1.67	1.34	2.17	1.61	45.2	5.3	7
K295147		4.25				0.36	7.09	16.4	1760	1.60	1.40	2.32	0.22	35.2	4.4	6
K295148		5.68				1.58	6.78	69.0	1200	1.54	5.31	2.09	1.43	43.9	17.0	7
K295149		3.55				2.19	7.05	168.5	590	1.53	8.94	1.81	1.39	42.3	10.4	8
K295150		<0.02				2.31	7.03	169.0	690	1.45	9.36	1.80	1.42	41.1	10.3	9
K295151		5.45				0.76	6.99	73.0	1990	1.59	2.17	2.71	1.70	38.1	7.7	7
K295152		2.14				1.28	6.47	58.0	1680	1.43	2.92	3.14	0.68	41.1	5.8	5
K295153		3.26				40.2	7.25	3970	170	1.45	6.09	0.80	5.29	29.2	11.3	7
K295154		4.89				0.47	6.75	25.9	1930	1.80	2.27	2.20	0.20	20.9	4.0	7
K295155		3.35				0.47	6.60	30.8	1600	1.73	3.50	1.94	0.30	22.6	3.8	6
K295156		0.26	103	1.045		>100	5.75	261	640	0.71	5.10	1.49	23.5	20.8	11.7	66
K295157		2.72				0.68	7.14	28.0	2200	1.49	2.08	1.99	0.20	35.6	2.6	9
K295158		3.34				0.44	6.72	57.3	2520	1.55	0.67	2.02	9.33	33.8	9.6	9
K295159		3.08				0.65	7.22	41.2	1780	1.56	0.52	2.50	1.82	33.7	8.1	9
K295160		5.16				0.27	7.01	35.5	2190	1.77	0.32	3.06	2.69	37.7	7.3	9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K295121		5.47	72.2	4.12	13.95	0.11	1.4	0.322	3.12	25.7	10.3	0.35	465	3.89	0.04	5.5
K295122		11.05	68.8	3.47	16.25	0.11	1.6	0.134	3.13	24.4	16.1	0.63	1010	2.10	0.69	6.7
K295123		13.10	141.5	3.34	16.40	0.11	1.5	0.170	3.40	17.8	18.8	0.69	1300	1.47	0.59	7.2
K295124		11.40	169.5	5.21	17.70	0.13	1.5	0.197	3.58	27.9	7.5	0.94	2310	3.34	0.03	6.7
K295125		14.65	79.9	4.53	16.60	0.13	1.6	0.153	3.65	24.8	14.5	0.75	1530	1.55	0.07	6.9
K295126		12.55	97.8	4.05	16.80	0.11	1.5	0.116	3.55	22.0	19.1	0.69	1140	1.23	0.47	7.9
K295127		12.65	116.0	4.30	17.15	0.12	1.5	0.130	3.51	22.9	18.0	0.67	1050	1.59	0.52	7.1
K295128		9.20	99.4	3.68	15.40	0.13	1.5	0.156	3.53	26.8	9.0	0.66	882	3.07	0.39	6.6
K295129		10.90	1605	7.32	16.05	0.11	1.4	0.561	3.18	25.2	10.1	0.68	1260	1.14	0.05	6.2
K295130		16.00	43.7	3.93	16.90	0.10	1.5	0.110	3.16	18.1	18.9	0.97	1350	1.41	0.06	7.9
K295131		7.40	1180	6.52	15.55	0.12	1.6	0.717	3.35	26.4	5.4	0.69	1160	2.74	0.04	6.1
K295132		14.90	183.0	3.44	16.40	0.12	1.6	0.191	3.21	21.9	11.7	0.63	1080	3.18	1.17	7.2
K295133		12.80	31.0	2.04	14.45	0.11	1.5	0.076	2.98	16.0	21.2	0.59	890	3.36	0.65	6.3
K295134		0.83	6180	5.92	12.30	0.09	1.7	0.412	1.17	9.0	13.3	1.16	1740	23.5	1.68	2.9
K295135		9.62	45.1	2.73	14.75	0.11	1.4	0.066	3.30	20.5	12.6	0.43	632	2.06	1.30	6.3
K295136		10.65	20.2	2.59	16.00	0.12	1.3	0.085	3.30	19.1	13.9	0.53	722	2.90	1.58	7.3
K295137		11.50	13.0	2.02	14.90	0.12	1.7	0.056	3.08	20.9	15.6	0.54	509	6.23	1.38	6.8
K295138		7.12	18.1	2.13	12.90	0.12	1.1	0.066	2.83	20.1	9.3	0.47	554	3.26	1.95	6.3
K295139		6.68	22.0	3.10	14.95	0.13	1.4	0.119	2.95	23.4	11.3	0.83	888	1.39	1.86	7.3
K295140		4.62	21.8	3.33	15.15	0.12	1.3	0.106	3.20	24.5	13.0	0.95	852	3.00	1.66	7.1
K295141		7.64	57.7	3.60	14.45	0.12	1.3	0.192	2.79	24.4	11.5	0.80	982	1.58	1.36	6.8
K295142		6.77	18.4	3.13	15.20	0.12	1.4	0.085	2.85	21.8	11.5	0.87	655	1.03	2.20	7.7
K295143		0.05	1.6	0.13	0.24	0.10	<0.1	<0.005	0.02	1.1	1.2	1.93	123	<0.05	0.03	0.1
K295144		7.08	13.9	3.09	15.15	0.15	1.4	0.087	2.64	20.8	14.5	0.96	692	1.91	1.93	7.6
K295145		7.75	8.4	3.20	15.85	0.13	1.5	0.074	2.77	22.7	14.8	1.00	680	0.80	2.38	8.0
K295146		8.09	28.9	2.35	13.85	0.15	1.1	0.148	2.41	24.8	12.5	0.72	682	0.47	1.80	6.7
K295147		6.89	12.9	1.98	13.65	0.12	1.0	0.110	2.15	19.5	12.3	0.62	538	0.81	1.89	6.4
K295148		6.92	46.6	2.92	13.30	0.11	0.9	0.399	3.03	24.7	7.9	0.69	1080	0.49	0.62	5.8
K295149		7.36	111.5	3.46	14.00	0.12	0.9	0.274	3.14	23.7	10.3	0.65	875	1.27	0.68	5.7
K295150		7.40	118.0	3.42	13.80	0.11	1.0	0.295	3.05	23.9	10.2	0.66	868	1.24	0.67	5.6
K295151		8.80	26.0	2.52	13.55	0.10	0.9	0.202	2.60	20.6	13.4	0.67	730	3.31	1.26	6.0
K295152		19.00	36.0	2.79	13.40	0.11	0.8	0.297	2.48	22.5	17.9	0.58	1320	1.21	0.25	5.6
K295153		11.60	291	5.38	14.65	0.11	1.0	0.444	3.61	13.7	5.6	0.47	912	2.04	0.08	5.6
K295154		6.66	33.0	2.05	13.55	0.11	1.1	0.256	2.59	10.5	7.5	0.47	553	0.54	1.51	5.3
K295155		5.82	39.7	1.84	12.00	0.09	1.2	0.254	2.54	12.2	6.6	0.42	502	0.65	1.45	5.2
K295156		0.88	6410	6.07	11.75	0.09	1.5	0.459	1.20	9.8	12.8	1.15	1780	23.3	1.71	3.3
K295157		5.90	43.2	2.44	13.65	0.10	1.0	0.144	2.70	19.6	12.5	0.58	574	0.97	1.59	6.1
K295158		23.2	32.6	3.49	14.80	0.09	0.9	0.081	2.49	16.8	48.5	0.26	967	2.67	0.05	7.3
K295159		20.4	15.3	3.27	15.30	0.11	0.9	0.068	2.57	16.5	34.5	0.52	774	3.95	0.57	7.7
K295160		23.5	22.4	2.98	15.20	0.12	1.0	0.067	2.92	18.5	50.7	0.56	897	3.24	0.99	7.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K295121		1.8	330	140.5	172.5	<0.002	3.95	26.7	5.9	1	7.5	18.3	0.61	0.64	14.95	0.136
K295122		2.3	590	29.9	137.5	0.002	1.40	9.17	9.4	<1	3.4	180.5	0.67	0.15	13.10	0.245
K295123		2.2	680	157.0	112.0	<0.002	0.65	9.77	10.1	<1	2.5	177.0	0.57	0.11	9.05	0.273
K295124		2.9	680	928	239	<0.002	3.57	33.0	12.6	1	10.0	46.4	0.49	0.18	11.40	0.251
K295125		2.4	630	121.5	156.5	<0.002	2.18	10.15	10.9	1	4.2	89.7	0.59	0.47	12.20	0.259
K295126		2.3	660	58.9	137.0	<0.002	1.19	11.20	11.6	<1	4.8	155.0	0.60	0.26	11.35	0.281
K295127		2.6	650	47.1	145.0	<0.002	1.68	11.85	11.1	1	4.5	159.5	0.61	2.21	11.35	0.273
K295128		1.9	420	138.0	177.5	<0.002	1.77	6.30	7.1	<1	6.8	104.0	0.69	0.20	17.60	0.174
K295129		2.3	580	454	169.0	<0.002	4.48	36.9	10.3	1	10.9	54.0	0.53	0.58	12.65	0.234
K295130		2.3	710	134.0	86.3	<0.002	0.86	6.46	10.9	<1	4.1	104.5	0.60	0.13	8.75	0.291
K295131		2.3	530	272	176.0	<0.002	4.46	56.0	8.3	<1	9.3	39.9	0.59	0.30	13.60	0.207
K295132		2.3	600	449	120.0	<0.002	0.75	7.24	10.3	<1	3.3	215	0.64	0.52	12.50	0.248
K295133		1.5	370	98.3	93.5	0.002	0.37	5.74	4.9	<1	1.6	141.5	0.77	0.23	12.65	0.151
K295134		26.6	460	>10000	26.9	0.010	2.38	457	11.6	2	2.0	193.0	0.21	1.17	2.22	0.239
K295135		1.4	360	131.5	129.5	<0.002	1.05	4.09	5.6	<1	4.5	165.0	0.75	0.08	17.70	0.155
K295136		1.8	460	62.7	112.5	<0.002	0.50	3.72	6.8	<1	2.4	242	0.73	0.19	12.75	0.194
K295137		1.3	350	33.8	104.5	0.002	0.12	5.42	5.3	<1	1.5	173.0	0.82	0.09	19.15	0.152
K295138		1.5	340	28.7	103.0	<0.002	0.23	2.48	5.6	1	1.7	218	0.69	0.20	15.75	0.154
K295139		2.2	610	25.0	113.5	<0.002	0.35	4.02	9.9	1	2.2	304	0.64	0.09	13.90	0.256
K295140		2.4	610	33.0	129.5	<0.002	0.41	14.70	10.2	1	2.7	310	0.61	0.16	14.00	0.266
K295141		2.2	550	235	111.0	<0.002	1.18	3.33	9.4	1	2.8	255	0.57	0.25	14.30	0.238
K295142		2.6	620	18.1	82.9	<0.002	0.16	2.02	9.5	1	2.3	385	0.63	0.09	12.75	0.266
K295143		0.7	70	1.1	0.5	<0.002	<0.01	0.06	0.2	1	<0.2	81.6	<0.05	<0.05	0.10	0.006
K295144		2.4	640	22.8	81.4	<0.002	0.17	2.67	10.3	<1	2.1	363	0.63	0.24	9.97	0.285
K295145		2.7	670	16.7	80.4	<0.002	0.04	2.47	10.7	1	1.6	487	0.66	0.05	12.50	0.286
K295146		1.8	470	71.7	101.5	<0.002	0.51	4.07	7.8	1	2.1	217	0.64	0.16	15.10	0.203
K295147		2.0	430	21.2	90.2	<0.002	0.39	3.68	6.6	1	2.4	185.5	0.69	0.29	15.75	0.181
K295148		1.8	380	88.5	185.5	<0.002	1.80	5.97	6.3	1	3.7	90.3	0.62	1.07	15.85	0.156
K295149		1.7	400	82.0	161.0	<0.002	2.13	6.09	6.6	1	4.6	109.5	0.59	0.59	14.95	0.161
K295150		1.7	410	90.0	164.5	<0.002	2.08	6.39	6.7	1	4.7	110.0	0.59	0.55	15.55	0.159
K295151		1.9	420	130.0	112.0	<0.002	0.67	5.42	6.7	<1	2.3	207	0.59	0.48	13.40	0.175
K295152		2.1	420	40.9	104.5	<0.002	0.80	7.19	6.4	<1	2.3	136.5	0.55	0.41	10.20	0.171
K295153		2.5	480	392	239	<0.002	4.96	123.0	8.5	2	5.6	23.3	0.54	1.11	14.20	0.187
K295154		1.6	370	18.5	116.0	<0.002	0.39	5.48	5.6	1	3.0	155.0	0.63	0.87	14.25	0.142
K295155		1.3	300	26.9	115.0	<0.002	0.46	5.50	4.4	<1	2.8	146.0	0.67	0.35	17.45	0.114
K295156		28.8	480	>10000	29.8	0.011	2.41	464	11.6	2	1.9	200	0.21	1.20	1.92	0.255
K295157		1.8	410	44.1	104.5	<0.002	0.44	7.74	6.3	<1	2.7	228	0.63	0.41	15.90	0.173
K295158		2.7	610	19.3	97.5	<0.002	0.30	15.45	9.2	<1	1.6	62.3	0.60	0.19	8.50	0.263
K295159		3.4	660	15.2	84.9	<0.002	0.34	8.54	9.1	<1	1.9	178.5	0.61	0.11	8.39	0.284
K295160		2.8	650	19.2	90.6	<0.002	0.13	5.99	9.4	<1	1.7	287	0.62	0.06	8.72	0.278

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K295121		2.18	4.4	40	3.3	6.0	400	37.5	0.158
K295122		2.01	4.9	70	1.9	13.1	74	41.7	0.069
K295123		2.06	4.4	80	2.1	12.6	252	41.2	0.049
K295124		3.09	4.9	83	4.3	12.8	1190	43.2	0.461
K295125		2.27	5.0	77	2.7	12.9	219	44.1	0.167
K295126		1.96	5.0	85	4.5	13.8	132	45.6	0.173
K295127		1.91	4.9	80	4.0	13.8	125	43.7	0.186
K295128		1.94	6.2	50	2.5	11.2	255	40.3	0.129
K295129		2.03	5.1	69	4.4	11.2	554	39.9	2.14
K295130		1.83	4.6	86	3.9	13.6	175	41.9	0.151
K295131		2.07	4.5	65	4.2	10.1	1070	43.1	1.410
K295132		1.59	3.8	72	6.3	13.2	650	46.2	0.110
K295133		1.35	4.6	40	1.4	10.3	95	35.6	0.022
K295134		0.46	1.2	82	0.6	13.6	5180	53.8	0.273
K295135		1.40	5.3	40	1.6	10.9	260	34.3	0.022
K295136		1.37	5.3	51	1.5	12.2	294	30.4	0.031
K295137		1.30	6.7	40	1.0	12.2	88	38.7	0.051
K295138		1.16	4.6	40	0.9	11.7	83	34.1	0.053
K295139		1.47	4.2	73	1.2	17.5	80	44.2	0.018
K295140		1.70	3.8	76	1.2	16.4	108	42.1	0.026
K295141		1.45	3.8	67	1.1	15.5	248	43.5	0.058
K295142		1.12	3.8	73	0.7	16.9	58	45.5	0.016
K295143		<0.02	0.1	1	<0.1	2.0	4	1.6	<0.005
K295144		1.11	3.0	78	0.9	15.6	87	44.8	0.011
K295145		1.07	4.1	81	0.7	17.9	58	48.4	0.007
K295146		1.31	3.1	55	1.4	13.6	203	32.4	0.011
K295147		1.24	3.3	50	1.3	14.2	55	27.5	0.016
K295148		2.40	4.1	46	2.1	10.8	159	26.3	0.027
K295149		1.92	2.8	48	2.5	10.8	147	26.6	0.132
K295150		1.94	3.0	48	2.5	11.3	152	27.0	0.071
K295151		1.51	3.7	48	1.4	12.7	198	27.4	0.026
K295152		1.74	3.9	48	1.4	14.2	94	23.8	0.021
K295153		2.86	3.4	62	3.4	7.3	430	30.3	0.796
K295154		1.79	3.9	44	1.3	8.2	49	30.1	0.028
K295155		1.60	4.2	36	1.1	7.4	55	34.4	0.037
K295156		0.50	1.4	84	0.5	16.8	5310	63.9	0.294
K295157		1.41	4.1	48	1.1	11.2	54	30.5	0.026
K295158		1.61	2.2	76	1.6	13.2	747	26.7	0.015
K295159		1.34	2.2	76	3.2	13.1	292	30.8	0.017
K295160		1.53	2.9	77	1.2	15.2	252	30.9	0.013

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249628

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Pb-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249635

Project: Klaza

P.O. No.: 19-070

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249635

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295161		2.44			3.51	7.62	414	470	1.61	8.91	0.52	5.53	47.5	9.0	9	16.85
K295162		4.13			0.69	7.72	108.0	2180	1.70	2.45	2.33	1.60	50.2	10.0	9	15.60
K295163		5.08			0.53	7.19	197.5	2440	1.71	0.94	2.65	2.08	41.6	8.0	8	20.6
K295164		1.22			2.89	7.44	324	1110	1.55	2.67	1.83	25.2	53.9	8.0	8	17.90
K295165		1.65			0.23	7.52	32.6	1890	1.45	0.29	1.91	2.34	41.5	7.0	8	21.2
K295166		2.47			2.30	6.81	145.0	1390	1.44	2.90	3.05	5.23	47.2	7.5	9	16.00
K295167		5.15			0.02	0.15	0.9	50	0.10	0.02	35.0	0.02	1.29	0.7	1	0.10
K295168		2.53			8.68	6.74	174.0	890	1.53	13.40	1.39	16.25	45.5	6.5	8	14.80
K295169		2.44			2.24	7.25	124.0	1200	1.63	5.21	2.07	10.10	46.7	7.7	10	13.00
K295170		2.29			0.45	6.99	50.2	1900	1.68	1.78	2.63	6.68	43.1	10.6	8	21.1
K295171		4.27			0.23	7.25	36.3	2790	1.40	1.21	1.93	9.30	34.0	7.6	10	15.60
K295172		4.60			0.47	8.43	38.0	2440	1.41	3.63	0.62	21.3	53.4	9.1	9	13.65
K295173		0.26	100	1.005	>100	5.53	244	610	0.72	4.75	1.44	23.2	20.1	11.2	61	0.86
K295174		2.49			0.54	8.29	1195	2250	1.67	1.84	0.68	26.5	67.2	9.1	9	17.25
K295175		2.22			14.15	8.26	177.0	1950	1.74	11.95	0.12	2.62	40.0	5.7	9	24.5
K295176		1.76			16.00	6.81	258	160	1.22	17.95	0.03	1.28	20.0	9.5	9	7.13
K295177		1.91			1.84	8.02	63.5	2090	1.59	4.28	0.32	7.17	50.1	10.4	9	13.55
K295178		4.51			0.31	8.09	21.5	2410	1.64	1.10	1.85	1.26	54.9	7.8	9	14.15
K295179		3.14			0.35	7.95	31.9	2220	1.82	1.42	2.18	1.42	47.4	10.7	9	23.2
K295180		3.14			0.27	7.38	20.0	2580	1.59	0.67	2.86	0.57	36.4	8.1	10	15.10
K295181		1.02			0.74	7.10	46.0	2150	1.66	0.57	2.69	1.72	36.1	6.7	9	26.2
K295182		1.13			0.56	6.98	49.4	2940	1.57	0.62	3.20	2.27	35.5	7.0	9	23.3
K295183		1.03			1.25	6.60	53.1	1380	1.39	0.87	3.73	2.86	47.0	8.8	7	23.1
K295184		3.16			1.14	7.67	30.2	2690	1.49	0.62	2.29	2.40	43.0	10.4	9	19.60
K295185		4.23			0.78	6.98	192.0	2260	1.56	1.86	3.00	0.57	41.6	9.4	10	21.1
K295186		4.58			0.57	7.55	39.0	2460	1.85	1.66	2.51	0.50	40.9	8.0	9	21.8
K295187		5.99			0.60	7.54	29.5	2480	1.64	1.13	2.24	0.96	39.4	6.3	9	14.75
K295188		<0.02			0.60	7.68	29.6	2420	1.58	1.06	2.21	0.86	44.7	6.4	9	14.85
K295189		5.90			0.55	7.06	28.2	2160	1.42	1.24	2.09	0.48	39.9	9.5	8	11.65
K295190		2.75			0.22	7.18	21.7	1860	1.44	0.47	2.28	0.27	38.2	7.3	9	17.15
K295191		3.53			0.37	7.52	25.8	1630	1.46	0.66	1.70	0.36	34.2	10.2	9	17.70
K295192		0.99			0.48	6.71	52.5	2800	1.51	0.88	3.76	0.85	47.2	13.1	7	21.9
K295193		5.92			0.36	6.89	36.8	2050	1.73	0.74	2.95	0.37	39.5	8.0	9	22.9
K295194		0.26	104	1.045	>100	5.79	257	670	0.71	5.18	1.54	26.7	20.0	12.0	64	0.93
K295195		5.42			0.27	7.15	10.9	2470	1.64	0.39	3.10	0.21	36.0	8.1	11	13.80
K295196		5.07			0.14	7.16	6.8	2480	1.79	0.15	3.03	0.12	39.3	7.6	11	12.85
K295197		4.54			1.23	7.86	46.3	2240	1.60	2.00	2.26	0.65	47.2	7.3	10	15.95
K295198		3.53			0.72	6.95	37.0	2960	1.61	0.99	3.41	0.80	41.6	7.7	9	21.8
K295199		1.09			0.72	7.20	53.2	1300	1.55	1.01	2.72	0.71	44.3	9.4	9	22.1
K295200		4.70			0.24	6.91	45.9	1710	1.74	0.36	2.74	1.01	39.1	7.0	9	19.75

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295161		448	6.98	15.55	0.12	0.9	0.521	3.49	24.9	9.2	0.38	559	13.20	0.06	6.6	3.0
K295162		69.7	3.77	15.90	0.11	1.2	0.215	3.02	26.2	21.2	0.69	886	3.90	1.41	8.3	3.0
K295163		27.5	2.94	15.00	0.13	1.3	0.080	3.13	21.4	28.8	0.65	1020	3.57	0.90	8.0	2.7
K295164		92.0	3.94	14.80	0.10	1.2	0.197	3.32	28.1	37.9	0.71	999	3.84	0.08	7.2	2.6
K295165		17.8	2.82	15.80	0.11	1.3	0.058	2.84	21.0	73.3	0.62	752	5.04	0.07	8.0	2.5
K295166		37.9	3.60	13.75	0.12	1.1	0.292	3.16	25.3	14.8	1.10	1290	4.00	0.04	6.8	2.9
K295167		1.8	0.15	0.44	0.10	0.1	<0.005	0.05	1.3	1.7	1.75	132	0.08	0.05	0.2	0.8
K295168		84.0	4.66	14.35	0.13	1.0	0.195	3.08	24.8	16.3	0.65	663	5.61	0.05	5.9	2.3
K295169		83.6	4.03	16.00	0.13	1.2	0.182	2.81	23.0	48.0	0.72	885	9.23	0.06	7.8	2.7
K295170		49.7	3.49	15.30	0.11	1.0	0.190	2.83	22.2	34.4	0.82	982	4.43	0.12	7.3	3.1
K295171		125.5	3.22	15.75	0.10	1.1	0.187	2.60	16.5	37.1	0.48	805	41.2	0.08	8.1	2.7
K295172		178.0	3.55	16.60	0.13	1.0	0.330	2.95	27.2	30.6	0.36	833	111.0	0.09	8.3	2.7
K295173		6140	5.84	11.50	0.11	1.4	0.432	1.15	8.5	12.8	1.10	1720	18.75	1.64	3.1	27.4
K295174		157.0	3.15	18.30	0.12	1.0	0.423	3.76	35.7	29.1	0.41	904	19.50	0.08	7.7	3.3
K295175		342	3.78	17.45	0.13	1.1	1.320	3.67	21.6	18.3	0.23	117	129.0	0.06	8.0	2.8
K295176		73.0	5.93	15.45	0.12	1.0	0.575	3.37	9.4	7.8	0.29	118	376	0.05	4.5	1.5
K295177		95.5	4.49	17.35	0.12	1.1	0.403	3.75	28.7	21.3	0.36	525	80.2	0.09	7.2	2.9
K295178		25.4	3.49	18.15	0.14	1.2	0.113	3.05	29.7	24.4	0.64	633	63.3	0.95	8.5	3.2
K295179		22.3	3.61	18.75	0.13	1.2	0.112	3.15	24.3	29.3	0.63	674	3.64	0.53	8.7	3.0
K295180		17.2	3.15	16.95	0.13	1.1	0.079	2.94	17.7	18.4	0.67	727	5.20	1.62	7.9	2.6
K295181		30.7	3.18	18.35	0.14	1.2	0.085	2.88	17.4	35.5	0.68	996	3.31	0.11	8.2	2.7
K295182		20.9	3.36	16.95	0.14	1.1	0.078	2.75	17.0	34.8	0.90	1180	3.27	0.10	7.8	2.7
K295183		33.0	3.57	15.25	0.12	1.0	0.104	2.68	26.2	18.1	1.22	1140	10.75	0.05	6.9	2.9
K295184		51.4	3.30	17.65	0.14	1.1	0.154	2.92	21.9	20.0	0.66	723	4.33	1.00	8.4	2.8
K295185		50.0	3.37	16.65	0.16	1.1	0.167	3.09	20.9	21.1	0.88	1100	3.29	0.56	8.0	2.8
K295186		47.2	3.56	18.20	0.12	1.1	0.147	3.27	20.9	47.0	0.79	697	1.60	0.24	8.5	2.7
K295187		44.6	3.01	17.85	0.16	1.2	0.151	3.26	19.8	22.5	0.55	830	4.94	1.15	8.3	2.5
K295188		44.5	3.02	17.95	0.15	1.1	0.142	3.24	23.2	22.5	0.56	810	3.83	1.14	8.0	2.6
K295189		35.4	3.24	17.60	0.15	1.1	0.142	2.91	18.9	31.0	0.60	970	2.74	0.09	8.3	2.8
K295190		12.6	3.31	17.90	0.14	1.2	0.084	2.70	19.4	31.6	0.71	888	1.88	0.08	8.7	2.6
K295191		27.2	3.21	18.70	0.11	1.2	0.113	2.55	16.5	37.0	0.47	833	1.96	0.07	8.7	2.9
K295192		38.3	3.84	16.95	0.14	1.0	0.167	2.70	24.5	47.4	1.22	1300	1.35	0.05	9.1	3.2
K295193		16.5	2.96	18.00	0.14	1.2	0.158	3.19	19.9	30.6	0.63	1140	1.14	0.69	8.3	2.7
K295194		6360	6.07	13.30	0.12	1.5	0.467	1.20	9.0	13.6	1.19	1780	24.1	1.72	3.4	29.7
K295195		13.1	3.02	17.30	0.15	1.3	0.115	2.76	18.2	17.6	0.81	662	2.25	2.16	7.9	2.9
K295196		11.7	3.01	17.50	0.14	1.3	0.053	2.80	19.5	18.0	0.79	817	2.30	2.03	8.5	2.9
K295197		43.5	3.60	17.50	0.15	1.3	0.114	2.97	25.0	28.0	0.70	560	2.91	0.95	8.1	2.7
K295198		20.5	3.55	16.10	0.13	1.1	0.085	2.77	22.0	33.1	1.06	905	1.62	0.27	7.6	2.9
K295199		18.8	3.42	16.25	0.14	1.0	0.088	3.07	24.0	30.3	0.92	1340	1.31	0.06	7.5	3.0
K295200		12.1	2.89	17.55	0.14	1.2	0.098	3.33	19.1	19.3	0.81	2150	2.68	0.06	8.1	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295161		650	129.0	189.5	<0.002	3.29	16.90	10.1	<1	9.1	25.7	0.56	0.94	13.85	0.247	2.52
K295162		700	31.7	126.0	<0.002	0.87	5.76	10.6	1	3.4	278	0.72	0.15	13.30	0.284	1.67
K295163		610	36.5	113.5	0.002	0.35	10.40	9.3	<1	1.7	231	0.70	0.09	10.60	0.260	1.75
K295164		590	506	154.5	<0.002	1.62	17.60	9.7	1	3.5	115.5	0.63	0.41	13.80	0.247	2.02
K295165		640	15.8	81.1	0.002	0.14	10.10	9.4	<1	1.8	129.0	0.70	<0.05	11.70	0.274	1.59
K295166		560	133.0	158.5	0.002	1.58	15.30	9.5	1	2.6	103.5	0.57	0.80	10.70	0.236	2.41
K295167		60	0.8	1.4	<0.002	<0.01	0.12	0.3	2	<0.2	83.1	<0.05	<0.05	0.13	0.007	0.02
K295168		470	603	167.0	<0.002	3.15	18.10	9.1	2	6.6	60.1	0.49	1.42	12.55	0.208	2.13
K295169		730	210	112.0	0.002	1.79	17.25	10.1	1	3.5	162.0	0.63	0.63	9.57	0.263	1.84
K295170		630	25.5	101.0	0.012	0.73	12.10	9.5	1	2.1	136.5	0.55	0.26	8.92	0.259	2.01
K295171		670	47.1	79.3	0.007	0.51	22.5	9.4	1	2.5	100.5	0.68	0.24	8.39	0.285	1.35
K295172		730	43.3	121.0	0.013	0.50	24.7	11.2	<1	2.0	68.2	0.65	0.91	15.60	0.293	1.37
K295173		450	>10000	29.6	0.010	2.33	450	11.1	2	1.8	193.0	0.20	1.24	1.90	0.246	0.48
K295174		720	88.0	188.5	0.003	0.54	21.5	10.9	<1	2.0	65.4	0.55	0.82	14.25	0.260	2.37
K295175		710	181.0	206	0.011	0.69	33.6	10.9	<1	3.3	30.5	0.50	3.63	14.70	0.249	2.88
K295176		270	1255	199.0	0.025	5.03	39.0	9.8	2	9.8	29.3	0.32	2.55	7.53	0.168	2.32
K295177		530	81.7	195.5	0.007	1.51	13.30	10.3	1	5.1	69.2	0.52	1.10	13.25	0.219	2.41
K295178		690	22.5	130.0	0.006	0.27	7.78	11.3	1	2.3	222	0.60	0.19	13.15	0.274	1.57
K295179		710	24.7	124.0	<0.002	0.57	12.00	11.4	1	2.9	159.5	0.64	0.23	12.00	0.289	2.01
K295180		660	30.3	107.0	<0.002	0.31	5.45	10.1	<1	2.5	333	0.57	0.10	9.56	0.273	1.43
K295181		670	50.2	84.8	<0.002	0.25	14.10	10.4	<1	2.5	123.0	0.58	0.06	8.66	0.272	1.68
K295182		670	63.7	75.6	<0.002	0.35	12.15	10.3	<1	2.6	146.0	0.53	0.09	8.36	0.265	1.65
K295183		580	114.0	106.0	0.003	0.49	17.05	9.8	1	2.0	107.0	0.51	0.11	10.15	0.231	1.86
K295184		670	515	108.5	0.002	0.29	14.25	10.5	<1	2.4	240	0.57	0.06	10.15	0.278	1.61
K295185		660	28.2	117.5	<0.002	0.90	13.40	10.4	1	2.4	194.0	0.53	0.26	10.20	0.270	1.92
K295186		670	35.7	127.5	0.002	0.42	15.35	10.6	<1	2.6	142.5	0.61	0.17	10.70	0.275	2.12
K295187		660	33.6	143.0	<0.002	0.30	15.20	10.6	<1	2.7	180.0	0.60	0.12	10.25	0.267	2.14
K295188		650	33.9	149.5	<0.002	0.28	15.30	10.6	<1	2.5	176.0	0.58	0.13	10.80	0.260	2.14
K295189		640	22.3	98.1	<0.002	0.40	19.25	9.9	<1	2.4	98.5	0.66	0.18	10.70	0.259	1.89
K295190		660	17.4	82.3	<0.002	0.18	11.45	10.6	<1	2.2	109.5	0.66	0.05	10.35	0.271	1.53
K295191		660	18.6	86.0	<0.002	0.24	11.70	10.8	<1	2.5	94.1	0.64	0.07	10.00	0.274	1.47
K295192		750	28.4	104.5	0.007	0.80	21.7	12.9	1	3.0	134.5	0.63	0.08	9.89	0.293	2.19
K295193		630	24.5	124.0	0.003	0.48	7.94	9.9	1	2.6	212	0.59	0.09	10.35	0.264	2.23
K295194		480	>10000	29.7	0.011	2.44	471	12.2	2	2.1	202	0.21	1.26	2.12	0.249	0.53
K295195		630	24.2	91.3	<0.002	0.16	2.88	9.8	<1	2.0	380	0.58	<0.05	10.20	0.260	1.32
K295196		620	19.4	94.3	<0.002	0.03	2.73	10.1	<1	1.8	365	0.69	<0.05	11.10	0.261	1.24
K295197		640	80.9	118.5	0.002	0.99	11.00	10.7	<1	3.4	222	0.62	0.09	12.80	0.263	1.63
K295198		590	54.8	91.4	0.002	0.56	11.65	9.6	<1	2.2	150.0	0.56	0.07	11.20	0.241	1.69
K295199		620	44.9	136.0	0.002	0.92	13.80	10.0	<1	3.2	105.5	0.57	0.19	10.95	0.248	2.18
K295200		650	45.6	146.5	0.003	0.31	10.40	10.0	1	2.5	118.5	0.63	<0.05	9.80	0.256	2.77

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295161		3.7	74	3.0	10.3	711	28.8	0.828
K295162		2.8	80	1.6	17.1	209	35.8	0.063
K295163		3.3	71	2.9	16.1	277	39.6	0.077
K295164		3.5	70	2.6	16.0	1840	34.2	0.575
K295165		3.3	74	2.3	15.0	324	38.9	0.008
K295166		3.7	69	2.8	14.9	433	32.2	0.144
K295167		0.1	2	<0.1	2.3	5	2.0	<0.005
K295168		3.3	62	3.4	11.6	728	30.2	0.208
K295169		3.0	73	3.3	15.0	675	34.8	0.112
K295170		5.0	73	2.0	16.3	614	33.4	0.030
K295171		2.2	76	5.7	14.1	588	33.1	0.061
K295172		2.3	77	10.7	16.9	1180	31.4	0.109
K295173		1.3	80	0.5	15.2	5120	63.6	0.303
K295174		3.2	78	6.4	17.0	1110	30.2	0.422
K295175		4.0	71	5.6	12.2	876	29.5	0.177
K295176		1.8	72	7.4	4.7	247	30.9	0.949
K295177		3.1	68	4.1	13.1	975	30.7	0.071
K295178		2.2	77	2.3	17.6	231	34.0	0.014
K295179		2.6	81	1.9	16.0	214	35.4	0.018
K295180		2.2	75	1.6	13.8	95	29.9	0.011
K295181		2.4	78	4.0	13.7	237	32.5	0.018
K295182		2.8	77	4.1	13.8	271	30.3	0.022
K295183		3.0	69	3.3	15.5	344	27.0	0.030
K295184		3.9	77	2.7	14.6	219	32.0	0.019
K295185		3.3	76	2.5	14.4	97	31.9	0.079
K295186		4.1	77	3.1	16.4	103	29.4	0.036
K295187		3.6	76	2.4	14.4	141	33.8	0.013
K295188		3.4	76	2.5	15.4	141	31.0	0.012
K295189		3.0	76	3.3	13.9	105	32.0	0.011
K295190		5.3	80	3.6	15.4	80	36.0	0.016
K295191		2.7	77	6.4	12.4	94	32.1	0.009
K295192		5.2	95	1.9	18.8	138	25.7	0.013
K295193		3.7	75	2.0	13.8	90	33.7	0.018
K295194		1.2	84	0.6	14.0	5410	51.0	0.266
K295195		2.5	74	1.0	14.2	66	37.5	0.006
K295196		2.6	74	1.1	15.9	60	38.0	<0.005
K295197		2.9	74	1.8	15.3	134	38.3	0.042
K295198		4.0	70	3.1	15.3	165	33.8	0.019
K295199		3.6	73	4.0	14.8	140	25.2	0.044
K295200		3.6	73	5.2	14.1	158	34.4	0.023

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249635

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249643

Project: Klaza

P.O. No.: 19-071

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249643

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295201		4.66			0.29	7.41	28.0	2250	1.33	0.33	1.73	0.45	36.6	6.5	10	14.45
K295202		3.39			0.27	6.79	32.1	2090	1.49	0.66	2.80	0.40	38.0	6.1	9	18.10
K295203		1.08			4.98	7.14	255	580	1.61	6.20	2.04	3.11	47.2	6.9	8	11.90
K295204		3.28			0.33	6.91	20.1	2060	1.53	0.50	2.41	0.26	30.6	6.2	10	13.85
K295205		3.23			0.28	7.76	25.9	2130	1.30	0.44	1.43	0.38	36.0	6.5	9	11.85
K295206		0.90			1.19	7.01	105.0	1690	1.64	2.35	3.43	2.91	47.5	7.6	8	18.80
K295207		5.29			0.01	0.21	<0.2	40	0.11	0.01	33.7	0.02	1.46	0.5	1	0.14
K295208		2.84			0.21	7.53	33.9	2290	1.93	0.40	2.33	0.24	43.0	7.5	9	23.8
K295209		3.75			0.17	7.43	7.8	2350	1.84	0.28	2.71	0.17	45.6	6.9	10	11.40
K295210		1.97			0.15	7.18	10.9	2090	1.81	0.25	2.24	0.13	40.9	7.6	8	18.65
K295211		4.55			0.19	6.41	24.6	2710	1.52	0.55	3.82	0.25	41.0	6.9	8	22.0
K295212		3.27			0.32	6.95	24.3	1730	1.66	0.62	2.72	0.22	34.8	7.7	9	23.6
K295213		1.80			1.18	6.83	81.3	270	1.46	5.58	3.01	0.56	44.1	8.7	9	17.50
K295214		3.32			0.53	6.84	34.2	2050	1.47	1.26	3.05	0.33	36.7	9.0	8	22.1
K295215		0.26			39.3	5.70	2580	180	1.13	36.3	1.72	47.5	32.6	16.6	22	10.05
K295216		6.18			0.23	6.96	40.0	1600	1.52	0.39	2.44	0.22	43.4	6.6	7	19.80
K295217		3.87			0.39	6.74	61.0	2150	1.45	0.74	3.31	0.56	40.3	7.6	8	17.75
K295218		3.70			0.37	6.70	46.2	1430	1.47	0.89	3.16	0.31	41.9	6.8	9	25.3
K295219		3.28			0.44	6.95	88.8	1380	1.73	0.40	2.84	0.25	47.2	7.9	9	24.5
K295220		4.71			0.16	7.19	11.8	2150	1.62	0.39	2.61	0.17	42.4	7.4	11	14.25
K295221		3.12			0.15	7.60	13.8	1720	1.23	0.99	1.37	0.27	46.0	6.8	10	13.00
K295222		2.60			0.21	7.42	26.1	1940	1.22	3.28	1.77	0.30	41.6	9.8	21	11.45
K295223		4.13			0.07	7.50	7.1	2250	1.42	0.22	2.45	0.12	47.6	7.5	11	10.40
K295224		2.75			0.11	7.42	8.3	2220	1.48	0.46	2.96	0.13	40.4	7.9	10	11.65
K295225		3.49			0.08	7.15	6.6	2100	1.64	0.36	2.78	0.12	43.9	7.3	11	12.50
K295226		2.19			1.16	7.00	153.0	910	1.54	1.77	2.39	0.82	52.2	6.8	8	17.90
K295227		3.43			0.06	7.31	5.8	2270	1.64	0.20	2.79	0.10	38.6	7.4	10	12.40
K295228		4.01			0.14	6.94	13.7	2250	1.65	0.75	2.95	0.24	37.7	7.3	12	16.70
K295229		3.42			0.24	7.64	13.4	1860	1.67	0.58	2.09	0.22	51.3	6.6	9	22.9
K295230		<0.02			0.15	7.65	14.0	1860	1.68	0.56	2.10	0.24	53.7	6.3	10	22.8
K295231		4.38			0.52	6.33	41.7	1590	1.73	0.55	3.30	1.80	44.1	8.2	8	28.4
K295232		4.17			0.98	6.74	89.1	1810	1.39	0.95	2.03	3.09	41.6	6.2	7	21.2
K295233		5.69			0.13	7.65	6.4	2350	1.58	0.25	2.74	0.13	42.5	6.8	9	15.30
K295234		3.02			1.33	6.89	44.3	2850	1.78	0.57	3.01	14.65	42.1	6.8	9	24.3
K295235		2.59			1.75	7.23	95.6	1490	1.67	1.45	3.11	8.95	53.7	6.9	8	25.0
K295236		0.26	101	1.010	>100	5.59	252	600	0.69	4.96	1.47	25.4	19.75	12.2	61	0.91
K295237		3.94			0.17	7.46	6.6	2340	1.81	0.36	2.86	0.16	44.5	7.7	11	12.05
K295238		3.17			1.61	6.75	46.8	2270	1.61	1.59	2.74	1.78	36.0	6.6	10	15.80
K295239		1.59			1.60	6.52	163.0	350	1.67	1.91	3.17	7.09	47.9	7.9	7	17.10
K295240		3.05			0.15	7.42	7.8	2200	1.71	0.65	2.56	0.18	44.3	6.2	10	13.75

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295201		19.4	2.78	17.70	0.11	1.5	0.071	2.68	18.1	39.8	0.46	745	2.23	0.07	8.7	2.6
K295202		16.1	2.94	16.30	0.13	1.4	0.083	2.79	19.2	32.8	0.81	962	2.67	0.08	8.1	2.7
K295203		243	6.34	16.85	0.16	1.3	0.338	3.49	24.8	12.2	0.82	904	1.48	0.06	6.8	3.1
K295204		26.1	3.00	18.00	0.11	1.3	0.098	2.84	13.4	44.4	0.48	677	1.12	0.16	8.7	2.6
K295205		27.8	2.69	17.50	0.13	1.6	0.077	2.66	17.7	38.5	0.35	644	1.76	0.08	8.6	2.2
K295206		136.0	4.08	17.20	0.15	1.3	0.160	2.79	25.1	17.8	0.99	935	2.36	0.32	7.3	3.4
K295207		2.3	0.15	0.68	0.14	0.1	0.005	0.07	1.4	1.5	2.01	131	0.06	0.07	0.3	0.7
K295208		15.6	3.22	18.75	0.18	1.7	0.076	3.03	21.4	44.2	0.60	469	1.73	0.94	9.4	2.8
K295209		13.0	3.20	16.75	0.20	1.3	0.074	2.84	23.6	16.8	0.78	588	1.16	1.98	8.2	2.8
K295210		25.7	3.67	15.10	0.13	1.3	0.053	2.67	19.9	21.6	0.82	580	2.41	1.05	8.0	4.5
K295211		23.2	2.65	15.00	0.16	1.2	0.089	2.48	21.6	25.4	0.86	660	0.85	0.78	7.2	2.7
K295212		122.0	3.06	16.20	0.12	1.2	0.094	2.66	17.0	35.8	0.70	545	1.55	0.31	7.9	2.8
K295213		59.2	4.21	16.45	0.11	1.1	0.191	2.85	21.9	11.5	0.98	721	4.01	0.09	6.5	3.1
K295214		18.0	2.96	15.60	0.11	1.3	0.158	2.76	17.7	40.5	0.90	707	1.47	0.41	7.4	3.0
K295215		1175	9.24	13.50	0.09	0.8	1.595	2.68	16.7	15.4	0.67	2310	16.05	0.06	4.6	14.4
K295216		30.8	2.52	15.15	0.12	1.6	0.074	2.36	22.0	51.2	0.77	646	1.33	0.06	8.0	2.5
K295217		28.9	3.01	15.90	0.13	1.3	0.094	2.62	20.2	30.6	0.86	1100	2.07	0.10	7.4	2.6
K295218		20.3	2.47	14.95	0.14	1.2	0.103	2.68	21.7	24.9	0.97	789	1.60	0.27	7.1	2.6
K295219		24.3	2.87	16.35	0.15	1.4	0.113	2.92	24.2	31.3	0.90	1300	3.05	0.11	7.6	3.0
K295220		22.9	2.95	15.90	0.13	1.4	0.068	2.75	21.7	20.8	0.75	610	4.55	1.63	8.0	2.9
K295221		18.7	2.68	17.10	0.14	1.5	0.163	2.79	23.6	35.8	0.45	612	7.43	0.09	8.1	2.4
K295222		21.8	3.01	16.55	0.13	1.4	0.189	2.76	20.9	34.2	0.46	652	4.87	0.09	7.8	2.6
K295223		10.6	2.92	15.70	0.14	1.4	0.050	2.82	23.9	17.7	0.73	594	1.71	1.86	7.8	2.8
K295224		9.7	3.02	15.90	0.14	1.2	0.053	2.65	20.0	14.1	0.81	596	24.8	2.29	7.7	2.8
K295225		9.7	2.69	15.60	0.15	1.4	0.046	2.71	22.2	13.3	0.70	565	4.55	2.10	7.7	2.8
K295226		21.6	3.49	15.25	0.14	1.4	0.230	3.32	27.6	16.2	0.80	1380	2.11	0.13	7.0	2.5
K295227		13.6	2.89	16.20	0.15	1.4	0.057	2.62	18.8	14.3	0.71	534	1.21	2.07	8.2	2.7
K295228		12.8	3.10	16.20	0.14	1.3	0.118	2.72	18.4	17.3	0.79	597	1.54	1.88	8.2	3.0
K295229		10.2	2.37	16.90	0.16	1.5	0.079	2.89	27.1	31.7	0.55	446	7.53	1.13	8.3	2.4
K295230		10.0	2.36	17.20	0.14	1.5	0.086	2.94	28.7	33.9	0.55	452	6.45	1.13	8.4	2.4
K295231		23.7	2.83	13.85	0.14	1.1	0.109	2.30	23.6	37.4	0.90	1040	3.79	0.04	6.6	3.2
K295232		17.7	3.18	13.80	0.11	1.0	0.242	2.64	22.0	35.8	0.70	1140	5.56	0.06	6.6	2.5
K295233		12.9	3.05	16.15	0.16	1.2	0.075	2.84	21.9	15.8	0.70	517	6.17	1.72	8.2	2.8
K295234		33.2	3.46	16.05	0.13	1.1	0.213	2.96	21.1	31.3	0.86	1530	3.77	0.47	7.8	3.0
K295235		18.9	3.34	15.95	0.14	1.1	0.228	2.85	28.7	59.9	1.02	1130	2.56	0.18	7.5	2.7
K295236		6150	5.82	11.95	0.10	1.8	0.444	1.15	8.9	14.0	1.13	1710	19.60	1.65	3.2	28.4
K295237		21.2	3.04	16.50	0.19	1.2	0.067	2.94	22.1	14.0	0.76	586	5.17	2.14	8.2	2.9
K295238		160.5	2.91	15.70	0.14	1.2	0.192	3.08	17.7	17.8	0.67	784	2.88	1.22	7.6	2.6
K295239		22.5	3.86	14.20	0.14	1.0	0.232	3.06	25.4	13.8	0.92	2210	2.24	0.05	6.3	3.0
K295240		20.2	2.96	15.65	0.16	1.2	0.081	2.95	22.8	13.1	0.69	567	2.08	1.90	8.0	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295201		630	18.0	92.7	<0.002	0.13	15.05	10.5	<1	2.0	97.0	0.69	0.05	11.15	0.263	1.44
K295202		600	21.4	90.1	0.002	0.33	12.75	9.5	1	2.0	117.5	0.68	0.11	10.35	0.248	1.84
K295203		530	279	217	<0.002	5.11	35.1	10.0	1	8.0	100.5	0.57	0.84	11.45	0.203	2.64
K295204		650	22.3	92.5	<0.002	0.31	11.50	9.7	<1	2.3	122.5	0.63	0.07	9.24	0.272	1.62
K295205		660	20.0	103.5	<0.002	0.25	18.25	10.1	<1	2.3	82.5	0.66	<0.05	12.55	0.263	1.35
K295206		590	72.8	128.5	0.004	1.67	32.0	9.7	<1	4.1	153.5	0.53	0.42	12.00	0.230	2.18
K295207		80	0.7	2.3	<0.002	0.01	0.16	0.4	<1	<0.2	78.8	<0.05	<0.05	0.23	0.008	0.03
K295208		680	21.9	110.0	0.002	0.27	7.75	11.3	<1	2.7	212	0.78	0.08	11.50	0.275	1.57
K295209		630	19.1	108.0	<0.002	0.16	3.04	10.0	<1	2.1	341	0.69	<0.05	12.20	0.258	1.33
K295210		610	17.7	96.0	0.003	0.11	5.22	10.1	<1	3.4	269	0.68	<0.05	10.35	0.260	1.25
K295211		570	17.6	85.1	0.003	0.43	10.85	9.4	<1	2.0	238	0.59	0.07	10.85	0.243	1.51
K295212		630	17.6	88.0	0.003	0.31	22.7	10.2	<1	2.3	136.0	0.64	0.11	9.71	0.274	1.50
K295213		600	32.6	127.0	0.004	3.00	11.05	10.6	1	4.8	123.5	0.49	1.13	10.55	0.228	2.08
K295214		630	18.3	86.4	0.004	0.55	8.02	9.8	<1	2.2	185.0	0.58	0.31	9.69	0.263	1.72
K295215		450	1690	144.5	0.003	7.95	104.0	7.9	1	10.3	63.2	0.38	0.70	8.08	0.166	2.18
K295216		550	14.7	76.2	0.003	0.28	16.35	9.1	<1	1.9	124.5	0.82	0.07	13.00	0.236	1.48
K295217		590	32.9	86.2	0.003	0.91	12.60	9.9	<1	2.1	142.0	0.58	0.13	9.07	0.255	1.79
K295218		560	19.3	90.6	0.003	0.44	8.61	9.4	<1	1.9	138.0	0.57	0.06	10.95	0.239	1.88
K295219		590	23.1	108.5	0.005	0.61	12.10	10.6	<1	2.5	120.0	0.62	0.08	11.50	0.249	2.15
K295220		650	17.8	92.1	0.003	0.17	3.92	10.3	<1	1.9	299	0.65	0.08	11.50	0.270	1.36
K295221		620	15.9	118.0	0.003	0.41	13.10	11.6	<1	2.4	83.1	0.65	0.15	12.55	0.262	1.54
K295222		640	17.5	102.5	0.002	0.76	12.75	10.9	<1	2.3	90.1	0.63	1.46	10.60	0.261	1.51
K295223		620	15.2	99.8	0.002	0.05	2.47	10.4	<1	1.9	333	0.63	0.05	11.40	0.267	1.15
K295224		640	15.6	87.4	0.006	0.08	1.75	10.5	<1	1.6	406	0.56	0.14	10.40	0.282	1.07
K295225		590	15.9	97.4	0.002	0.05	2.25	9.7	<1	1.6	357	0.62	0.05	11.80	0.249	1.18
K295226		540	75.1	178.0	0.004	1.91	9.20	9.8	<1	4.9	99.1	0.62	0.16	13.25	0.219	2.76
K295227		630	15.0	86.9	0.002	0.03	1.99	10.4	<1	1.7	379	0.70	<0.05	9.63	0.275	1.12
K295228		620	20.3	90.4	0.002	0.34	3.39	10.2	<1	2.0	352	0.68	0.09	9.24	0.272	1.37
K295229		610	14.0	119.5	0.004	0.12	8.34	10.8	<1	3.1	203	0.70	0.26	14.65	0.262	1.69
K295230		620	13.7	120.5	0.005	0.13	8.48	10.8	<1	3.0	207	0.70	0.21	14.55	0.265	1.64
K295231		530	63.5	105.5	0.004	0.30	18.65	9.8	<1	2.9	103.0	0.53	0.10	10.25	0.233	1.80
K295232		550	82.7	119.5	0.006	1.06	19.75	9.4	<1	2.0	88.4	0.53	0.09	11.85	0.226	2.02
K295233		640	16.9	104.5	0.004	0.03	4.60	10.8	<1	1.7	318	0.66	<0.05	11.20	0.287	1.28
K295234		610	759	105.0	0.005	0.50	10.85	10.6	<1	2.8	168.5	0.62	0.07	9.58	0.263	2.25
K295235		610	1475	119.5	0.005	0.92	8.02	10.8	<1	3.5	149.0	0.61	0.10	10.90	0.260	1.96
K295236		470	>10000	29.8	0.013	2.35	459	12.3	2	1.8	195.5	0.21	1.23	1.91	0.245	0.51
K295237		630	25.9	99.2	0.002	0.06	2.48	10.6	<1	2.4	369	0.65	0.08	10.65	0.273	1.24
K295238		580	112.0	102.0	0.003	0.46	11.35	9.3	<1	2.6	252	0.63	0.30	9.21	0.249	1.64
K295239		500	327	168.0	0.003	2.85	11.50	9.3	1	3.9	82.8	0.54	0.28	11.40	0.212	2.76
K295240		620	19.3	104.0	0.003	0.10	3.60	10.3	<1	2.7	316	0.66	<0.05	13.55	0.265	1.29

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295201		2.1	70	4.0	13.7	141	43.6	0.008
K295202		3.0	69	3.1	15.0	110	40.3	0.015
K295203		5.0	67	2.3	13.4	250	36.8	0.259
K295204		3.4	77	2.0	12.1	92	39.5	0.011
K295205		1.9	67	4.7	11.8	95	45.8	0.009
K295206		5.0	68	2.4	15.0	215	37.7	0.029
K295207		0.2	2	<0.1	2.5	4	3.7	<0.005
K295208		2.3	79	1.4	16.5	101	48.5	0.006
K295209		2.2	72	0.6	15.9	60	39.2	<0.005
K295210		2.6	71	0.8	14.9	57	35.5	<0.005
K295211		2.5	65	1.1	15.8	59	34.7	0.005
K295212		5.2	74	1.1	13.8	58	32.7	0.025
K295213		3.7	69	2.8	14.3	64	32.4	0.077
K295214		4.9	72	1.7	14.1	67	37.5	0.031
K295215		5.4	56	6.8	8.8	3260	22.8	1.730
K295216		4.2	64	2.4	16.6	61	41.9	0.015
K295217		3.8	71	2.4	14.9	87	35.5	0.018
K295218		4.6	64	2.4	13.8	60	33.9	0.015
K295219		5.2	68	3.3	16.6	60	40.6	0.113
K295220		3.7	73	1.4	15.5	49	39.3	0.007
K295221		2.4	73	4.8	15.5	55	44.0	0.010
K295222		2.2	74	4.1	15.2	56	40.1	0.022
K295223		2.6	72	1.3	15.9	40	42.7	<0.005
K295224		2.6	75	0.9	14.7	44	36.7	0.026
K295225		3.2	67	0.8	15.0	42	37.5	<0.005
K295226		4.7	62	2.8	14.8	87	36.7	0.156
K295227		2.8	74	1.1	15.5	41	36.1	<0.005
K295228		3.1	73	1.2	14.9	48	38.1	0.016
K295229		2.7	70	1.3	15.7	53	46.0	0.005
K295230		2.8	70	1.2	15.9	53	45.7	0.005
K295231		4.0	64	2.8	15.0	185	33.0	0.014
K295232		3.5	64	2.4	13.0	212	28.7	0.100
K295233		2.8	77	1.9	14.9	46	32.4	0.007
K295234		4.8	73	3.9	15.3	962	29.3	0.084
K295235		4.1	70	2.2	15.5	636	29.1	0.202
K295236		1.3	80	0.5	14.8	5110	48.5	0.275
K295237		3.7	74	1.5	15.3	49	31.8	0.006
K295238		3.5	67	2.1	13.1	151	33.2	0.201
K295239		5.5	60	3.0	13.9	495	25.5	0.116
K295240		3.1	70	2.0	15.0	44	33.8	0.009

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249643

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249647

Project: Klaza

P.O. No.: 19-072

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249647

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K295241		4.11		0.29	7.66	15.5	2360	1.57	1.16	2.28	0.14	49.2	8.4	10	11.75	90.7
K295242		2.66		0.19	6.79	10.9	1690	1.57	0.81	2.89	0.16	37.6	6.0	8	18.45	21.7
K295243		1.12		6.56	6.77	318	200	1.26	38.7	2.07	0.50	42.7	11.7	7	16.00	763
K295244		4.85		0.11	7.25	8.4	2290	1.61	0.41	2.83	0.13	35.8	7.5	11	11.00	16.5
K295245		5.01		0.10	7.38	6.4	1860	1.80	0.28	2.85	0.12	42.3	6.2	12	9.44	8.8
K295246		2.76		0.14	7.12	9.5	2250	1.58	0.43	2.84	0.24	40.8	7.8	11	9.26	15.8
K295247		2.60		0.12	7.54	7.6	2190	1.68	0.43	2.91	0.19	46.9	7.5	12	9.57	13.5
K295248		3.91		0.12	7.39	8.8	2080	1.56	0.39	2.73	0.14	42.1	6.1	11	9.90	15.4
K295249		4.59		0.36	6.84	18.8	1920	1.54	0.51	2.61	0.26	36.6	6.2	9	17.15	31.7
K295250		1.42		1.53	6.42	108.5	650	1.42	1.98	4.61	1.89	25.4	6.2	8	15.50	9.2
K295251		5.27		0.35	6.84	259	1980	1.61	0.43	2.48	0.39	43.1	7.6	11	19.05	19.9
K295252		3.62		0.29	6.95	28.1	2240	1.58	0.25	2.61	0.31	40.5	7.0	12	14.45	14.8
K295253		0.26		38.1	5.72	2610	160	1.10	32.8	1.71	44.1	33.4	16.3	22	9.54	1180
K295254		4.34		0.76	7.04	111.0	2230	1.91	0.55	3.33	0.38	44.1	7.6	10	26.1	20.8
K295255		5.86		0.18	7.85	11.7	2450	1.76	0.40	2.94	0.15	48.1	8.4	13	11.75	15.8
K295256		6.12		0.13	7.36	10.3	2420	1.59	0.25	2.80	0.11	42.9	7.3	11	15.50	14.7
K295257		5.98		0.20	6.77	18.6	1790	1.41	0.26	3.45	0.15	38.2	9.5	11	25.5	15.8
K295258		5.24		0.13	7.23	13.9	2280	1.56	0.22	2.77	0.13	39.1	6.9	13	17.45	13.3
K295259		3.20		0.19	6.60	26.9	1640	1.34	0.54	3.48	0.19	38.0	6.4	9	21.4	20.2
K295260		<0.02		0.21	6.65	28.5	1560	1.42	0.68	3.50	0.20	39.3	6.3	9	22.0	21.1
K295261		3.78		0.29	6.77	34.2	1680	1.48	0.64	2.99	0.16	34.2	6.1	11	20.5	50.0
K295262		3.81		4.55	7.04	182.0	1370	1.52	3.76	2.75	39.7	53.2	9.5	10	21.5	161.0
K295263		3.51		0.57	7.36	33.8	1400	1.40	0.63	2.69	0.49	45.9	6.6	10	22.5	43.4
K295264		3.21		1.40	7.02	174.5	890	1.68	1.12	3.35	4.45	46.2	9.1	9	16.80	25.5
K295265		0.26	103	>100	5.36	255	600	0.62	4.54	1.42	23.3	18.30	11.5	62	0.84	5930
K295266		4.32		2.19	7.02	181.0	1070	1.70	1.49	3.41	10.35	46.0	7.0	10	17.35	51.7
K295267		5.52		0.89	7.13	149.5	1220	1.97	0.15	3.48	0.88	53.1	6.9	19	14.95	12.1
K295268		5.66		0.57	7.08	144.0	890	1.97	0.14	3.26	0.32	52.7	7.3	17	14.80	11.7
K295269		5.67		0.81	6.98	196.5	1480	1.97	0.13	3.47	0.31	53.6	7.1	17	14.85	10.9
K295270		2.20		2.01	6.82	273	910	1.91	0.41	3.80	1.53	52.5	7.5	17	14.45	15.2
K295271		3.64		4.52	6.31	275	440	1.49	2.02	2.92	25.2	60.6	7.0	8	10.60	89.0
K295272		2.94		3.81	6.54	257	190	1.57	5.37	2.28	16.50	44.5	13.9	7	15.15	86.2
K295273		5.03		0.02	0.18	0.6	20	0.08	0.03	34.2	0.05	1.12	0.7	2	0.07	3.1
K295274		4.43		0.19	7.03	21.4	1290	1.43	0.44	2.76	0.17	39.8	6.0	8	23.0	14.2
K295275		5.61		0.11	6.62	9.3	2580	1.75	0.09	3.32	0.08	49.6	6.8	16	17.05	7.6
K295276		5.87		0.18	6.83	18.9	2330	1.85	0.10	4.06	0.15	54.3	7.0	17	17.10	8.1
K295277		2.53		6.87	6.61	471	310	1.40	3.01	2.48	38.0	48.2	5.9	8	12.90	121.0
K295278		5.72		0.29	7.43	25.5	1640	1.64	1.44	2.56	0.14	45.1	4.2	10	13.65	34.0
K295279		4.50		0.27	7.33	26.1	1600	1.81	0.96	2.56	0.10	41.2	5.4	10	12.75	23.6
K295280		2.13		2.32	7.13	287	620	1.82	0.82	2.29	14.40	40.1	11.0	8	17.25	26.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249647

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K295241		3.56	15.90	0.17	1.1	0.248	3.22	25.8	15.6	0.89	603	1.63	1.86	7.8	3.0	640
K295242		2.96	15.40	0.14	1.1	0.110	2.76	19.1	17.9	0.64	604	1.57	1.29	7.6	2.5	590
K295243		6.64	14.20	0.13	0.9	0.900	2.86	22.0	21.4	0.72	601	1.60	0.24	6.2	3.6	520
K295244		3.05	16.20	0.13	1.2	0.075	2.82	17.7	12.9	0.69	618	1.71	2.18	8.0	2.8	620
K295245		3.09	15.90	0.16	1.2	0.095	2.08	21.5	13.8	0.77	597	1.61	2.65	8.3	2.9	630
K295246		2.98	16.00	0.23	1.1	0.095	2.66	21.0	12.4	0.78	602	5.09	2.23	8.2	4.7	610
K295247		3.13	17.15	0.24	1.2	0.093	2.62	24.4	13.0	0.84	631	8.57	2.38	8.8	3.5	640
K295248		2.98	15.95	0.22	1.2	0.071	2.80	21.9	13.4	0.77	595	12.35	1.87	7.9	2.8	580
K295249		2.65	16.20	0.21	1.2	0.084	2.76	18.5	27.1	0.69	687	5.59	0.99	8.0	3.1	610
K295250		3.30	12.70	0.19	0.9	0.223	2.91	14.1	13.0	1.60	3110	9.59	0.05	5.8	2.6	490
K295251		2.66	16.00	0.23	1.1	0.085	2.98	21.7	22.2	0.67	876	2.43	1.39	8.2	2.9	580
K295252		2.95	16.40	0.23	1.1	0.072	2.82	20.2	12.5	0.71	666	8.12	1.62	8.4	2.9	610
K295253		9.17	13.90	0.16	0.8	1.520	2.72	17.2	15.7	0.67	2310	16.25	0.06	4.6	14.2	450
K295254		2.93	17.10	0.20	1.2	0.081	3.15	22.2	30.7	1.01	1340	8.96	0.63	8.4	3.0	620
K295255		3.28	17.65	0.25	1.2	0.097	2.96	24.9	12.4	0.84	645	3.36	2.35	8.9	3.2	660
K295256		3.12	16.85	0.23	1.2	0.074	2.96	21.7	16.6	0.74	608	1.97	1.99	8.2	3.0	630
K295257		3.14	15.90	0.20	1.1	0.070	2.71	19.6	30.5	0.98	671	1.44	0.85	7.9	2.8	610
K295258		3.09	16.45	0.23	1.1	0.069	2.79	20.0	14.9	0.70	586	1.11	2.04	8.1	2.9	630
K295259		2.87	15.80	0.23	1.1	0.075	2.61	19.3	35.8	0.98	725	1.18	0.76	7.6	2.6	590
K295260		2.87	15.40	0.23	1.1	0.084	2.56	21.0	34.0	1.03	734	0.84	0.72	7.7	2.7	600
K295261		2.94	16.35	0.20	1.2	0.086	2.35	17.2	35.3	0.73	597	1.55	1.12	8.0	2.6	610
K295262		4.02	15.70	0.21	1.2	0.834	2.73	30.2	18.2	0.97	751	16.20	0.09	7.5	3.4	600
K295263		2.88	17.10	0.23	1.1	0.086	3.06	24.0	14.1	0.88	807	3.53	0.07	8.2	2.6	640
K295264		3.79	15.00	0.20	1.0	0.228	3.36	25.4	8.0	1.12	4770	41.9	0.03	6.7	2.8	590
K295265		5.58	11.55	0.17	1.6	0.401	1.09	8.4	12.7	1.09	1640	19.90	1.58	3.2	26.2	450
K295266		3.60	15.80	0.19	1.3	0.647	3.05	24.6	10.8	1.15	2340	3.19	0.06	7.8	3.3	650
K295267		2.36	19.15	0.21	3.6	0.036	3.39	26.8	14.5	1.17	1400	1.67	0.05	10.8	6.3	1080
K295268		2.41	19.15	0.22	3.7	0.032	3.40	26.0	15.5	1.01	902	1.35	0.05	10.9	6.3	1060
K295269		2.58	18.45	0.22	3.5	0.033	3.30	27.3	14.9	1.09	1120	1.53	0.05	10.5	6.3	1040
K295270		2.48	18.45	0.23	3.4	0.037	3.22	26.2	15.2	1.21	2680	1.87	0.04	10.5	6.6	1070
K295271		3.92	15.35	0.19	1.2	0.638	2.78	38.4	20.8	0.95	3010	7.16	0.03	6.8	2.7	590
K295272		5.76	14.85	0.17	1.1	0.589	2.97	23.8	11.6	0.84	2120	2.10	0.03	6.9	2.5	540
K295273		0.12	0.64	0.17	0.1	0.006	0.09	1.3	1.1	1.91	129	0.09	0.08	0.2	0.6	70
K295274		2.84	16.60	0.21	1.3	0.055	2.80	19.8	29.0	0.79	693	2.20	0.05	8.2	2.2	620
K295275		2.35	18.05	0.26	3.4	0.030	3.32	24.6	15.3	0.97	593	0.59	0.03	10.4	5.5	1010
K295276		2.46	18.80	0.27	3.6	0.034	3.35	26.9	12.1	1.05	924	1.57	0.04	10.8	6.4	1060
K295277		5.19	15.45	0.17	1.2	0.992	3.19	27.1	8.6	1.05	2080	1.90	0.03	6.5	2.3	560
K295278		3.13	16.45	0.11	1.4	0.212	2.51	21.3	20.1	0.80	674	0.82	1.39	8.0	2.3	640
K295279		2.96	17.40	0.20	1.5	0.194	2.44	20.6	18.4	0.74	679	1.26	1.89	8.7	2.3	640
K295280		3.49	16.40	0.20	1.3	0.401	3.35	20.3	8.7	0.72	2090	1.12	0.04	7.8	3.0	630

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249647

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
K295241		15.7	127.5	0.003	0.72	3.76	10.7	<1	2.8	267	0.68	0.25	14.05	0.263	1.65	3.9
K295242		16.7	88.4	0.003	0.14	5.34	9.7	<1	2.3	246	0.58	0.07	9.83	0.261	1.36	3.1
K295243		136.5	142.0	0.002	5.82	79.9	8.8	1	7.2	117.5	0.48	1.38	12.70	0.211	1.87	5.0
K295244		17.3	86.4	0.003	0.12	3.16	9.9	<1	2.3	362	0.63	<0.05	10.95	0.273	1.09	3.5
K295245		15.1	71.7	0.002	0.03	2.03	10.7	<1	2.5	421	0.68	<0.05	12.75	0.272	0.92	4.1
K295246		21.8	87.8	0.002	0.12	2.07	10.1	1	2.1	376	0.63	<0.05	10.90	0.262	1.09	3.5
K295247		19.1	95.4	0.002	0.07	1.86	11.2	1	2.3	394	0.64	<0.05	12.40	0.272	1.10	3.7
K295248		17.4	95.0	0.002	0.07	3.14	10.1	<1	2.4	323	0.67	<0.05	12.05	0.252	1.19	3.0
K295249		17.7	87.7	<0.002	0.18	8.69	9.5	<1	1.9	224	0.64	0.07	9.39	0.253	1.46	3.6
K295250		113.5	167.5	0.002	1.61	8.45	9.4	1	2.5	146.0	0.45	0.56	10.35	0.207	2.93	7.4
K295251		21.9	106.0	<0.002	0.27	6.35	9.7	<1	2.2	267	0.63	<0.05	11.10	0.249	1.73	3.3
K295252		23.9	92.6	0.002	0.10	2.88	10.4	<1	2.9	290	0.59	<0.05	9.56	0.266	1.35	2.8
K295253		1675	138.0	0.003	7.81	103.5	7.9	1	10.8	63.5	0.37	0.66	8.51	0.169	2.15	5.2
K295254		70.7	111.0	0.002	0.72	7.10	10.2	<1	3.5	200	0.65	0.06	10.80	0.264	2.57	4.2
K295255		19.0	108.0	0.002	0.08	1.96	11.7	1	3.3	402	0.66	<0.05	11.75	0.282	1.34	3.5
K295256		17.4	101.5	<0.002	0.08	2.27	10.5	1	3.0	362	0.61	<0.05	10.40	0.269	1.30	3.0
K295257		15.6	80.5	<0.002	0.20	3.45	9.6	1	3.1	248	0.59	0.05	10.90	0.260	1.43	3.4
K295258		16.6	96.1	0.002	0.15	1.81	10.2	<1	3.1	386	0.60	<0.05	10.90	0.268	1.27	3.2
K295259		17.4	76.0	<0.002	0.31	3.81	9.3	<1	2.6	239	0.55	0.06	10.60	0.252	1.62	2.9
K295260		16.8	83.3	<0.002	0.31	3.93	9.8	1	2.6	236	0.55	0.05	11.60	0.251	1.60	3.1
K295261		15.5	75.6	<0.002	0.34	7.97	9.7	1	2.5	289	0.60	0.10	8.88	0.257	1.43	2.9
K295262		1425	144.5	0.012	1.56	12.50	10.4	1	6.1	122.5	0.58	0.30	12.45	0.241	2.04	3.0
K295263		23.3	111.0	0.002	0.36	6.71	10.7	1	2.6	126.5	0.62	0.10	12.70	0.267	2.22	2.4
K295264		559	247	0.007	2.08	9.08	9.9	1	4.3	77.0	0.49	0.21	10.55	0.231	3.30	4.0
K295265		9880	26.9	0.011	2.26	446	11.2	1	1.8	185.5	0.20	1.14	1.89	0.236	0.46	1.3
K295266		274	141.5	0.002	1.95	11.35	9.9	1	3.6	111.0	0.54	0.09	10.90	0.254	2.99	3.7
K295267		31.4	131.5	<0.002	0.76	9.10	6.7	1	1.4	131.0	0.70	<0.05	7.96	0.302	3.30	4.0
K295268		14.4	136.5	<0.002	0.56	7.73	6.7	<1	1.4	129.0	0.74	<0.05	8.07	0.295	3.44	4.2
K295269		15.5	136.0	<0.002	0.90	8.49	6.6	1	1.4	148.0	0.70	<0.05	8.04	0.290	3.31	3.9
K295270		56.0	146.5	<0.002	1.15	12.70	6.7	1	1.6	148.0	0.70	<0.05	7.81	0.296	3.67	3.7
K295271		801	171.5	0.004	3.05	16.25	8.5	1	8.6	116.0	0.49	0.38	11.15	0.203	2.65	2.7
K295272		513	165.5	<0.002	4.71	9.64	9.4	1	6.5	87.4	0.55	0.70	10.35	0.217	2.81	5.1
K295273		2.2	2.6	<0.002	0.01	0.14	0.2	1	<0.2	83.9	<0.05	<0.05	0.11	0.005	0.04	0.2
K295274		10.1	88.2	0.003	0.22	4.97	9.9	1	1.9	151.5	0.58	<0.05	11.05	0.270	2.30	2.0
K295275		12.2	127.5	<0.002	0.09	5.04	6.1	<1	1.4	172.5	0.67	<0.05	7.55	0.284	3.42	4.0
K295276		14.2	122.0	<0.002	0.21	7.30	6.6	<1	1.4	169.5	0.71	<0.05	7.72	0.294	3.23	3.8
K295277		1315	234	0.002	4.54	17.40	9.1	1	9.2	54.9	0.47	0.26	10.75	0.207	3.19	2.6
K295278		19.1	102.0	0.002	0.36	5.79	11.1	<1	5.4	265	0.65	0.07	11.45	0.271	1.88	4.2
K295279		15.9	106.0	0.002	0.23	5.65	11.2	1	6.4	262	0.75	0.06	10.70	0.277	1.93	3.6
K295280		639	156.0	0.002	1.97	9.26	10.4	<1	4.9	84.4	0.55	0.10	10.70	0.263	3.40	3.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249647

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
K295241		71	1.6	15.1	44	30.2	0.075
K295242		70	1.5	14.4	41	30.2	0.011
K295243		57	2.0	14.3	88	26.7	0.510
K295244		71	1.4	14.2	46	34.3	0.005
K295245		72	1.2	16.1	43	33.7	0.005
K295246		70	1.4	15.4	55	31.5	0.012
K295247		74	1.3	17.6	51	35.4	0.011
K295248		68	1.4	16.0	46	32.7	0.006
K295249		68	3.0	13.8	58	33.0	0.015
K295250		59	3.4	15.1	176	25.6	0.102
K295251		67	2.0	14.2	58	30.6	0.095
K295252		72	2.2	15.0	60	31.0	0.007
K295253		56	6.9	8.6	3360	23.3	1.690
K295254		73	4.6	15.2	70	32.8	0.163
K295255		78	2.0	17.9	50	34.2	0.018
K295256		72	1.8	16.1	43	32.8	0.011
K295257		72	2.4	14.2	46	30.8	0.030
K295258		73	1.5	15.1	43	31.4	0.009
K295259		69	2.2	13.1	50	32.1	0.025
K295260		68	2.3	14.1	50	32.2	0.026
K295261		71	1.7	13.5	50	36.8	0.018
K295262		66	2.6	14.1	2220	39.1	1.975
K295263		73	2.3	13.9	125	31.5	0.021
K295264		67	4.7	13.8	378	26.9	0.101
K295265		78	0.6	15.4	4980	50.1	0.295
K295266		68	3.6	12.4	817	43.8	0.349
K295267		63	3.3	13.0	104	142.0	0.090
K295268		62	3.5	12.3	75	140.0	0.065
K295269		60	2.9	12.4	65	135.5	0.117
K295270		60	3.6	12.7	146	137.0	1.185
K295271		52	6.5	8.5	1800	40.4	0.582
K295272		61	5.0	11.7	1180	30.6	0.207
K295273		1	<0.1	2.3	7	2.8	<0.005
K295274		74	2.4	13.1	53	38.8	0.009
K295275		60	2.6	12.0	54	133.5	<0.005
K295276		61	1.8	13.5	58	141.0	0.016
K295277		59	5.0	10.4	2760	36.3	0.976
K295278		74	1.2	14.3	59	40.2	0.019
K295279		78	1.2	14.8	57	41.4	0.010
K295280		73	4.1	12.7	1120	38.6	0.207

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249647

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE WH19249651

Project: Klaza

P.O. No.: 19-073

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249651

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593812		2.81			0.49	6.89	90.2	840	1.47	0.04	2.28	0.33	37.9	7.0	8	13.75
W593813		4.50			0.81	7.47	53.3	1940	1.51	0.04	2.17	0.16	43.4	6.8	8	23.9
W593814		4.55			0.42	7.05	104.0	1570	1.73	0.24	2.53	0.26	46.6	7.4	7	14.25
W593815		<0.02			0.44	6.76	97.2	1500	1.66	0.23	2.48	0.25	42.7	7.4	7	14.10
W593816		5.15			0.56	6.39	277	2000	1.52	0.05	2.15	2.54	45.0	5.1	7	13.40
W593817		2.83			0.19	6.81	154.0	3060	1.59	0.06	3.30	0.20	50.4	7.4	7	15.20
W593818		2.84			0.11	7.03	37.2	1550	1.58	0.10	2.08	0.18	45.9	5.6	7	24.7
W593819		4.44			0.07	7.28	13.4	2410	1.85	0.04	2.56	0.10	44.9	6.4	12	22.7
W593820		3.96			0.36	6.55	20.4	2090	1.37	0.08	2.89	0.10	38.2	7.2	9	13.95
W593821		5.83			0.11	7.07	34.1	2460	1.63	0.05	2.68	0.09	39.8	6.9	10	24.9
W593822		0.26			40.7	5.99	2710	300	1.18	36.4	1.77	47.4	37.0	16.7	23	9.83
W593823		5.06			0.25	7.34	33.5	1810	1.82	0.08	2.86	0.19	46.7	8.5	22	24.5
W593824		2.41			0.08	7.47	4.1	2130	1.87	0.06	2.73	0.08	46.4	6.6	12	21.3
W593825		3.61			0.07	7.02	9.2	1510	1.55	0.04	2.55	0.09	42.2	6.3	8	21.2
W593826		5.87			0.15	7.49	34.9	2060	1.54	0.05	1.89	0.12	47.3	7.3	7	22.0
W593827		3.22			0.36	6.91	103.0	1860	1.60	0.06	3.18	0.95	39.7	6.1	7	21.5
W593828		4.23			0.08	6.65	6.0	2200	1.25	0.04	3.01	0.08	37.0	6.6	7	24.9
W593829		3.47			0.11	7.56	12.0	1820	1.45	0.06	1.83	0.14	46.9	6.4	6	19.25
W593830		4.50			0.34	6.92	177.0	1730	1.64	0.06	2.95	0.33	41.9	6.6	7	21.7
W593831		2.08			0.23	7.16	18.2	3110	1.66	0.07	2.42	0.17	44.1	6.8	7	22.1
W593832		7.63			0.08	7.98	17.3	2180	1.38	0.07	1.70	0.13	48.5	6.9	8	21.0
W593833		3.99			0.06	7.34	9.1	2220	1.56	0.05	2.03	0.21	44.6	7.3	8	22.3
W593834		1.39			0.71	6.23	98.0	1770	1.45	0.11	2.33	0.60	50.8	6.7	6	16.80
W593835		3.04			0.12	7.48	11.6	1280	1.65	0.05	1.77	0.23	60.0	5.3	7	23.6
W593836		1.14			1.11	5.59	1075	550	1.41	0.32	3.83	1.30	45.2	9.3	5	17.95
W593837		4.39			0.40	7.06	43.7	1590	1.68	0.10	2.59	0.34	40.3	6.5	7	17.05
W593838		4.91			0.01	0.11	1.1	50	0.09	0.02	32.9	0.02	0.99	0.6	1	0.13
W593839		8.70			0.06	6.78	6.7	2230	1.35	0.04	2.49	0.08	39.1	5.7	7	19.45
W593840		3.04			0.21	6.71	68.3	1850	1.34	0.13	3.07	0.20	48.3	7.2	6	23.6
W593841		2.10			0.38	5.96	469	1160	2.09	0.32	3.30	0.35	41.2	7.0	5	67.4
W593842		2.86			0.46	6.41	139.0	1870	1.46	0.19	2.61	1.51	34.2	7.3	6	17.40
W593843		4.17			0.47	7.26	135.5	2070	1.45	0.14	1.84	0.30	44.4	6.0	8	15.70
W593844		4.02			0.46	6.65	118.5	1040	1.46	0.34	2.48	0.44	42.0	5.6	7	13.20
W593845		1.67			0.70	6.65	114.0	1200	1.29	1.04	2.42	0.98	50.7	5.1	7	11.60
W593846		1.66			0.16	6.80	17.6	1200	1.53	0.22	2.09	0.10	42.4	6.1	7	12.20
W593847		3.43			0.38	6.94	88.9	1850	1.41	0.16	2.88	0.14	45.4	7.5	7	13.10
W593848		6.13			0.15	6.78	19.3	1530	1.49	0.28	2.28	0.12	41.0	6.5	6	15.75
W593849		1.56			0.41	7.38	50.6	670	1.75	0.55	2.05	0.44	46.7	7.5	7	19.65
W593850		0.26	103	1.025	>100	5.58	256	620	0.78	4.76	1.48	23.2	19.10	12.6	62	0.88
W593851		3.02			0.34	7.05	37.1	2430	1.70	0.27	2.42	0.24	41.4	7.0	8	16.55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249651

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593812		6.6	2.42	16.45	0.18	1.4	0.041	2.17	18.8	219	0.69	3360	0.91	0.03	8.5	2.5
W593813		9.2	2.85	16.55	0.13	1.5	0.034	3.14	21.1	121.0	0.64	1660	1.53	0.74	7.9	4.0
W593814		7.4	2.90	16.15	0.13	1.4	0.036	3.12	23.8	142.0	0.81	2620	1.27	0.05	7.6	2.5
W593815		7.5	2.83	15.95	0.13	1.4	0.038	3.08	21.6	141.5	0.78	2560	1.23	0.05	7.6	2.3
W593816		7.7	2.04	14.80	0.15	1.8	0.027	2.74	22.4	210	0.67	2130	1.70	0.04	7.6	1.8
W593817		4.2	2.94	15.40	0.16	1.4	0.029	3.39	26.5	52.3	1.10	3020	2.38	0.08	7.6	2.4
W593818		6.1	2.45	17.00	0.16	1.5	0.037	3.36	22.7	128.5	0.60	1200	6.43	0.47	7.7	1.9
W593819		6.5	2.60	17.15	0.17	1.6	0.037	3.20	22.3	75.9	0.61	958	0.91	1.86	8.3	2.2
W593820		6.4	2.55	16.80	0.14	1.4	0.038	2.57	18.1	175.0	0.71	1530	0.79	0.16	7.9	2.3
W593821		6.3	2.83	17.00	0.15	1.2	0.036	2.94	18.6	91.2	0.61	1300	1.18	1.72	7.8	2.4
W593822		1245	9.52	14.55	0.15	0.8	1.595	2.77	18.7	17.4	0.70	2410	17.35	0.06	4.7	14.7
W593823		11.1	3.14	17.75	0.13	1.4	0.049	3.10	21.9	257	0.82	1440	1.50	0.45	8.4	5.2
W593824		7.4	2.78	16.95	0.14	1.6	0.033	2.98	22.3	43.4	0.65	667	1.54	2.37	8.4	2.3
W593825		7.0	2.56	16.55	0.14	1.4	0.034	2.62	20.6	220	0.70	783	1.00	0.32	8.0	2.0
W593826		8.4	2.68	17.60	0.14	1.4	0.045	3.03	22.7	184.5	0.62	1180	1.15	0.17	8.3	2.3
W593827		7.9	2.66	16.30	0.13	1.3	0.043	3.34	19.3	77.8	0.77	3910	1.50	0.25	7.6	2.0
W593828		9.8	2.76	16.45	0.14	1.2	0.034	2.92	17.1	40.9	0.52	843	1.63	0.87	7.7	2.4
W593829		12.3	2.65	17.00	0.16	1.3	0.043	2.99	23.4	104.5	0.61	1100	3.42	0.12	8.2	2.1
W593830		9.1	2.88	16.45	0.15	1.3	0.040	2.91	20.6	84.8	0.90	2920	1.41	0.06	7.4	2.2
W593831		15.9	2.79	16.90	0.12	1.2	0.035	2.95	21.3	140.5	0.78	1680	1.03	0.07	7.8	2.2
W593832		9.2	2.77	17.90	0.16	1.3	0.042	2.65	24.1	87.6	0.58	929	1.20	0.06	8.4	2.2
W593833		9.0	2.96	17.90	0.14	1.3	0.047	2.83	21.7	128.5	0.68	990	1.00	0.07	8.2	2.4
W593834		8.3	2.84	14.05	0.14	1.0	0.036	2.77	28.0	92.2	0.82	2550	1.66	0.04	5.7	2.3
W593835		7.9	2.32	16.45	0.15	1.6	0.029	2.39	32.3	269	0.58	968	0.71	0.05	7.2	1.8
W593836		10.1	3.34	13.30	0.12	1.0	0.052	2.21	24.6	49.3	1.06	8350	2.60	0.03	5.6	2.6
W593837		9.8	2.69	17.00	0.14	1.4	0.036	2.63	19.4	151.5	0.73	2550	1.61	0.04	8.0	2.2
W593838		1.6	0.10	0.39	0.21	<0.1	<0.005	0.03	1.0	2.0	1.36	115	0.06	0.04	0.1	0.6
W593839		7.0	2.54	16.15	0.25	1.6	0.034	3.13	18.8	58.6	0.58	852	4.52	0.55	7.8	2.0
W593840		6.3	2.90	15.30	0.20	1.3	0.032	3.07	25.3	124.5	0.91	1830	5.64	0.08	7.0	2.1
W593841		4.6	2.90	14.40	0.13	1.1	0.050	2.06	21.4	84.4	0.64	3150	2.03	0.03	6.5	2.3
W593842		6.0	2.44	16.00	0.16	1.5	0.037	2.59	15.9	89.4	0.59	2090	0.84	0.06	7.7	2.5
W593843		5.9	2.69	16.85	0.16	1.4	0.037	3.57	21.7	66.0	0.64	1610	0.57	0.39	8.1	2.0
W593844		5.6	3.32	15.85	0.14	1.2	0.121	3.29	21.1	68.7	0.82	3090	0.99	0.04	7.4	2.1
W593845		3.0	4.64	15.55	0.14	1.2	0.447	3.32	27.5	17.9	0.91	6340	1.87	0.02	6.4	2.3
W593846		9.8	2.36	15.65	0.15	1.4	0.027	2.33	20.6	145.0	0.68	1480	1.26	0.03	7.5	2.3
W593847		11.3	2.76	15.40	0.14	1.3	0.029	2.66	22.8	106.5	0.89	1920	0.76	0.04	7.2	2.3
W593848		8.1	2.59	16.20	0.13	1.4	0.033	2.77	19.6	140.5	0.72	1070	0.59	0.06	7.4	2.0
W593849		13.7	2.48	16.60	0.08	1.4	0.037	2.50	24.6	234	0.70	1610	1.24	0.04	7.5	2.6
W593850		6120	5.83	12.30	0.08	1.6	0.427	1.14	9.0	14.6	1.13	1720	21.3	1.64	3.2	28.8
W593851		16.3	2.64	15.90	0.09	1.3	0.032	3.00	21.1	115.0	0.77	1440	0.59	0.07	7.4	2.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249651

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593812		580	23.8	68.7	<0.002	0.34	37.0	9.4	1	1.8	281	0.66	<0.05	10.35	0.255	1.54
W593813		610	46.3	108.0	<0.002	0.18	14.30	9.9	<1	2.0	246	0.70	<0.05	11.45	0.256	1.56
W593814		580	21.5	118.0	<0.002	0.77	23.3	9.5	<1	1.7	188.0	0.70	<0.05	12.15	0.233	2.02
W593815		570	21.7	109.5	<0.002	0.74	23.4	9.4	1	1.7	183.5	0.68	<0.05	11.70	0.233	1.98
W593816		470	37.5	89.3	<0.002	0.19	31.8	7.5	<1	1.8	240	0.83	<0.05	14.55	0.195	1.75
W593817		540	19.0	151.5	<0.002	0.91	18.55	9.6	<1	1.6	162.0	0.69	<0.05	12.25	0.229	2.10
W593818		540	15.5	133.0	0.004	0.19	14.75	9.6	<1	1.6	202	0.71	0.05	12.00	0.233	1.89
W593819		560	17.3	115.5	<0.002	0.08	5.68	9.4	1	1.7	350	0.74	<0.05	11.80	0.240	1.47
W593820		590	24.1	71.2	<0.002	0.22	15.35	9.4	<1	1.8	240	0.67	<0.05	9.72	0.246	1.60
W593821		600	16.8	97.1	<0.002	0.19	5.92	9.7	<1	1.6	384	0.63	<0.05	9.48	0.254	1.44
W593822		480	1730	149.5	<0.002	8.24	104.5	8.5	1	11.0	66.0	0.39	0.77	8.60	0.176	2.19
W593823		730	19.8	101.5	<0.002	0.28	14.45	11.6	<1	2.1	322	0.63	<0.05	10.20	0.280	1.84
W593824		590	17.7	105.5	<0.002	0.02	1.76	9.4	<1	1.8	407	0.77	<0.05	12.80	0.251	1.20
W593825		570	15.9	77.4	<0.002	0.06	14.00	9.1	<1	1.7	260	0.74	<0.05	12.65	0.240	1.34
W593826		630	16.8	102.0	<0.002	0.16	17.10	10.2	<1	1.9	219	0.66	<0.05	12.55	0.259	1.68
W593827		580	18.9	110.5	<0.002	0.45	17.55	9.2	<1	2.0	204	0.63	<0.05	10.50	0.246	2.07
W593828		580	17.8	89.0	<0.002	0.02	8.61	8.5	1	1.8	237	0.61	<0.05	8.86	0.245	1.38
W593829		600	15.1	106.5	<0.002	0.08	17.10	10.0	<1	2.1	173.5	0.69	<0.05	12.90	0.249	1.58
W593830		590	20.7	93.9	<0.002	0.55	24.3	9.7	<1	1.9	180.5	0.58	<0.05	9.83	0.246	2.11
W593831		620	21.8	96.9	<0.002	0.23	20.2	10.0	<1	2.5	211	0.58	<0.05	9.73	0.258	2.02
W593832		660	14.4	94.4	<0.002	0.12	19.05	11.1	1	1.8	173.0	0.66	<0.05	12.50	0.270	1.53
W593833		640	13.7	93.0	<0.002	0.11	19.95	10.8	<1	1.8	158.5	0.64	<0.05	11.15	0.261	1.60
W593834		400	44.9	136.0	<0.002	0.76	58.1	7.9	<1	1.4	166.5	0.49	<0.05	12.00	0.177	1.85
W593835		520	15.0	87.3	<0.002	0.09	25.8	7.9	<1	1.4	262	0.76	<0.05	13.95	0.210	1.45
W593836		400	76.6	107.5	<0.002	1.14	55.7	8.0	<1	1.8	184.5	0.45	<0.05	9.39	0.179	1.63
W593837		580	46.9	89.8	<0.002	0.69	24.1	9.4	1	1.8	210	0.69	<0.05	10.95	0.251	1.99
W593838		70	0.7	1.0	<0.002	0.02	0.15	0.2	1	<0.2	81.5	<0.05	<0.05	0.11	<0.005	0.02
W593839		520	15.4	103.0	<0.002	0.04	11.35	8.3	<1	1.9	232	0.73	<0.05	12.40	0.222	1.57
W593840		510	13.8	119.5	<0.002	0.44	20.8	8.8	<1	1.6	223	0.57	<0.05	12.15	0.214	1.88
W593841		480	18.9	89.4	<0.002	1.07	31.6	8.1	<1	1.4	232	0.56	<0.05	10.00	0.205	1.75
W593842		560	17.9	80.3	<0.002	0.29	23.5	8.8	<1	1.8	209	0.70	<0.05	9.60	0.236	1.75
W593843		590	15.6	133.0	<0.002	0.18	14.00	9.7	<1	1.8	150.5	0.78	<0.05	11.15	0.246	2.03
W593844		550	15.9	137.5	<0.002	0.76	17.85	9.1	<1	1.7	128.5	0.67	<0.05	10.90	0.228	2.75
W593845		490	42.6	187.0	<0.002	1.43	17.85	9.0	1	1.5	60.3	0.52	<0.05	12.20	0.203	2.76
W593846		560	10.8	83.9	<0.002	0.19	21.4	9.0	<1	1.6	165.5	0.63	<0.05	10.95	0.236	1.84
W593847		560	15.3	98.6	<0.002	0.64	24.7	9.2	1	1.9	185.5	0.58	<0.05	11.30	0.234	2.02
W593848		560	12.7	91.7	<0.002	0.15	16.55	9.3	<1	1.7	196.5	0.62	<0.05	10.75	0.235	1.81
W593849		570	21.2	91.6	<0.002	0.56	26.4	9.8	<1	1.6	255	0.62	<0.05	13.05	0.248	1.82
W593850		480	>10000	28.9	0.010	2.37	461	12.2	2	2.0	195.5	0.21	1.30	2.06	0.247	0.52
W593851		570	26.8	101.0	<0.002	0.23	21.4	9.6	<1	2.2	185.0	0.57	<0.05	11.95	0.249	1.80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19249651

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593812		4.4	64	4.4	13.7	82	41.4	0.112
W593813		3.2	66	1.8	13.9	138	40.2	0.047
W593814		5.4	64	2.7	14.1	71	38.8	0.150
W593815		5.7	63	2.9	13.5	68	40.3	0.140
W593816		8.5	47	3.5	12.1	204	49.6	0.050
W593817		6.9	58	2.7	15.4	63	40.4	0.025
W593818		3.6	64	2.0	13.6	54	41.8	<0.005
W593819		3.7	62	1.5	15.2	57	43.6	0.011
W593820		4.5	66	3.1	14.2	61	41.6	<0.005
W593821		3.2	67	1.7	14.5	61	35.6	0.026
W593822		5.3	58	7.4	9.3	3560	23.0	1.615
W593823		4.0	78	3.0	17.7	78	41.1	0.034
W593824		4.2	66	1.5	16.6	57	43.5	<0.005
W593825		3.7	64	2.8	14.4	62	38.7	<0.005
W593826		3.7	67	3.3	15.1	66	41.0	<0.005
W593827		3.8	62	1.9	13.0	169	36.8	0.075
W593828		3.1	63	2.0	13.2	59	37.2	<0.005
W593829		3.1	64	2.8	14.7	60	37.8	<0.005
W593830		5.5	65	2.9	14.0	70	36.3	0.136
W593831		3.6	69	2.5	14.0	65	35.9	<0.005
W593832		2.7	69	4.6	15.3	66	38.8	<0.005
W593833		2.3	71	2.5	15.1	71	39.1	<0.005
W593834		28.8	53	1.7	14.3	96	32.1	0.125
W593835		4.5	54	2.0	13.4	65	42.6	<0.005
W593836		7.3	50	2.4	16.1	195	29.3	0.242
W593837		6.6	66	3.2	12.8	81	43.0	0.047
W593838		0.3	1	<0.1	1.8	5	1.3	<0.005
W593839		3.6	58	1.7	14.2	55	44.2	<0.005
W593840		3.4	59	1.4	14.6	67	35.7	0.063
W593841		5.2	56	2.9	12.3	66	31.7	0.377
W593842		5.0	63	3.2	12.6	162	41.8	0.040
W593843		3.7	65	2.3	14.2	79	41.0	0.103
W593844		4.5	61	8.1	12.7	83	35.4	0.109
W593845		8.6	55	8.0	12.0	131	35.2	0.114
W593846		4.4	61	2.4	12.1	46	39.9	<0.005
W593847		5.0	62	2.6	13.3	50	38.1	0.029
W593848		3.4	63	3.0	12.7	62	39.8	<0.005
W593849		4.4	62	2.2	13.3	90	42.3	0.028
W593850		1.5	80	0.6	14.2	5120	58.1	0.270
W593851		3.4	65	2.2	14.7	65	38.6	0.015

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19249651

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251765

Project: Klaza

P.O. No.: 19-074

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251765

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W593852		1.75			0.68	7.04	135.0	920	1.58	0.61	2.87	0.37	49.6	7.9	7	22.1
W593853		0.26			39.9	5.63	2520	1080	1.13	33.5	1.67	44.4	33.7	15.6	21	9.95
W593854		2.30			1.14	6.84	243	930	1.49	0.32	2.67	0.37	39.3	7.9	6	16.65
W593855		2.16			4.46	7.12	381	800	1.45	0.22	1.88	0.69	47.8	7.1	7	18.15
W593856		1.41			1.34	6.79	387	690	1.38	0.41	2.21	1.11	45.2	6.6	6	18.80
W593857		3.49			0.47	6.67	76.2	940	1.46	0.58	2.64	0.34	41.4	6.8	7	16.20
W593858		5.76			0.19	6.84	19.9	2120	1.52	0.27	1.99	0.26	43.1	6.6	7	25.0
W593859		0.98			0.02	6.60	13.3	1460	1.77	0.13	2.48	0.12	48.9	5.0	13	21.0
W593860		4.88			0.52	6.63	14.5	1020	1.57	0.16	2.30	0.39	52.4	5.6	10	22.1
W593861		6.19			<0.01	0.07	<0.2	20	0.07	0.02	30.5	0.02	0.93	0.8	1	0.07
W593862		4.77			0.13	7.46	12.1	1770	1.35	0.27	2.05	0.23	45.0	7.3	7	25.3
W593863		3.74			0.03	7.21	12.7	1030	1.81	0.17	1.83	0.10	57.8	5.8	14	18.20
W593864		3.49			0.12	5.90	11.7	6590	1.48	0.10	1.84	0.17	52.1	4.4	12	17.15
W593865		3.55			0.14	7.03	10.8	3470	1.56	0.23	3.25	0.18	49.8	6.2	10	16.45
W593866		3.11			0.01	6.88	13.7	970	1.76	0.56	2.41	0.08	53.9	5.0	14	22.0
W593867		2.46			0.25	6.07	10.8	2360	1.45	0.15	2.73	0.23	42.4	5.4	6	17.65
W593868		2.97			0.07	6.83	9.3	1260	1.54	0.16	2.86	0.21	58.6	5.8	8	24.1
W593869		4.40			0.04	7.27	7.7	1240	1.47	0.13	2.55	0.21	47.6	6.7	7	36.3
W593870		1.37			1.52	5.59	64.3	8160	1.51	0.13	1.76	1.59	46.2	3.7	9	28.9
W593871		5.92			0.21	6.75	10.1	1610	1.88	0.21	2.64	0.13	55.3	5.1	13	23.4
W593872		1.73			6.93	6.94	6660	430	1.67	0.07	1.69	4.25	40.7	10.7	6	24.9
W593873		<0.02			8.75	6.86	6540	480	1.66	0.06	1.67	4.09	41.3	10.5	6	25.0
W593874		1.77			1.90	6.87	265	670	1.35	0.06	2.16	1.30	42.0	7.1	6	21.2
W593875		1.37			1.59	6.54	544	400	1.56	0.06	2.90	1.47	40.6	8.4	6	20.1
W593876		6.74			0.10	8.19	11.3	1960	1.19	0.07	1.37	0.22	45.1	5.3	8	12.80
W593877		2.39			0.27	7.88	27.9	1950	1.36	0.08	2.18	0.34	45.3	8.1	8	18.65
W593878		1.99			0.24	7.68	23.0	2010	1.29	0.07	2.20	0.28	38.9	7.5	7	19.20
W593879		6.14			0.14	7.91	15.6	1860	1.42	0.07	2.11	0.13	44.4	7.4	7	26.6
W593880		2.28			0.29	6.92	55.3	1690	1.32	0.07	4.15	0.43	51.8	8.4	7	16.85
W593881		4.89			0.08	8.24	7.5	1990	1.22	0.08	1.47	0.17	46.0	6.4	7	21.2
W593882		2.70			1.26	6.36	235	1570	1.53	0.06	2.66	2.01	39.3	7.4	6	20.5
W593883		6.16			0.15	7.64	18.3	2160	1.59	0.06	2.56	0.18	46.1	7.1	9	18.20
W593884		2.37			8.05	6.75	836	740	1.33	0.12	3.13	1.82	46.8	7.6	8	19.70
W593885		4.89			0.32	7.49	37.1	2330	1.54	0.06	2.89	0.12	40.2	7.3	8	14.05
W593886		0.26	97	0.963	>100	5.66	256	400	0.73	4.78	1.49	24.7	18.55	11.7	61	0.89
W593887		4.24			0.23	7.72	5.3	2270	1.75	0.14	2.98	0.15	48.4	8.4	10	16.95
W593888		2.01	217		>100	6.52	348	1840	1.41	0.57	3.87	28.2	49.0	8.0	7	23.1
W593889		3.11			24.7	7.30	25.7	2720	1.51	0.12	2.92	2.45	40.1	6.7	6	16.45
W593890		4.56			0.39	7.90	5.5	2340	1.78	0.11	2.92	0.17	48.4	8.2	9	10.80
W593891		1.31			4.66	7.13	290	1670	1.81	0.68	2.93	1.36	50.4	7.3	7	17.50

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251765

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593852		6.7	2.81	15.45	0.10	1.4	0.032	3.35	26.9	28.2	0.87	5060	1.14	0.04	7.0	3.0
W593853		1145	8.81	13.60	0.12	0.8	1.490	2.59	18.5	15.8	0.66	2250	17.20	0.06	4.4	14.5
W593854		10.8	2.84	15.30	0.09	1.4	0.039	3.17	20.1	57.9	0.79	2840	1.04	0.05	7.2	2.7
W593855		14.0	2.64	15.30	0.11	1.4	0.031	3.46	26.2	46.2	0.60	5780	2.20	0.05	6.9	2.5
W593856		10.6	2.59	15.35	0.12	1.4	0.036	3.05	24.3	81.8	0.72	6910	1.91	0.04	6.7	2.4
W593857		12.6	2.51	15.20	0.10	1.3	0.034	2.67	21.3	159.0	0.84	4040	1.22	0.05	7.0	2.4
W593858		6.3	2.40	15.50	0.13	1.4	0.037	2.79	22.0	177.5	0.68	1270	0.78	0.07	7.2	2.5
W593859		6.2	2.10	16.75	0.11	1.7	0.023	1.98	25.1	120.5	0.77	479	0.95	0.05	9.9	5.3
W593860		13.0	2.14	15.50	0.12	1.3	0.023	1.82	29.6	113.0	0.85	996	0.88	0.05	8.4	3.9
W593861		4.4	0.11	0.21	0.05	<0.1	<0.005	0.01	1.1	1.2	1.69	107	0.11	0.03	0.1	0.9
W593862		17.7	2.79	16.70	0.14	1.4	0.053	2.95	22.8	96.3	0.87	1060	1.59	0.15	8.1	2.7
W593863		6.6	2.07	17.30	0.13	1.7	0.024	1.47	30.1	194.5	0.73	643	0.65	0.04	10.0	5.5
W593864		6.2	1.65	14.35	0.14	1.4	0.018	1.34	28.6	196.0	0.64	770	1.01	0.03	8.1	4.3
W593865		7.3	2.68	16.15	0.14	1.5	0.032	1.55	26.7	204	1.03	1040	1.22	0.04	8.3	3.8
W593866		10.4	2.12	17.60	0.12	1.7	0.026	2.44	27.1	298	0.81	545	0.72	0.04	9.8	5.3
W593867		7.1	2.31	13.30	0.10	1.0	0.032	2.05	23.5	167.0	0.89	1100	2.00	0.04	6.1	2.5
W593868		7.1	2.62	14.65	0.11	1.1	0.035	2.45	33.7	194.5	0.99	951	1.00	0.06	6.8	2.7
W593869		4.7	2.82	16.45	0.13	1.0	0.038	2.56	25.3	270	0.86	894	1.30	0.06	7.5	2.6
W593870		4.5	1.75	12.60	0.10	1.1	0.018	1.50	26.0	296	0.62	633	0.52	0.03	6.4	3.4
W593871		8.4	2.17	16.55	0.11	1.7	0.023	2.02	27.9	260	0.84	772	0.85	0.06	9.5	5.2
W593872		8.1	3.41	15.25	0.10	1.2	0.029	3.45	21.1	37.0	0.55	3040	4.08	0.06	6.5	3.8
W593873		8.1	3.33	15.00	0.10	1.1	0.027	3.37	22.2	35.5	0.55	2990	3.81	0.06	6.3	3.7
W593874		5.6	2.76	15.80	0.11	1.1	0.031	3.26	21.8	51.6	0.69	3380	1.01	0.07	6.7	2.2
W593875		7.3	2.98	15.70	0.10	1.1	0.039	3.34	19.9	20.7	0.83	9090	1.90	0.06	6.3	2.3
W593876		6.1	2.41	18.00	0.10	1.3	0.036	1.75	22.5	71.1	0.46	907	1.00	0.04	8.6	2.0
W593877		7.9	3.02	18.75	0.11	1.2	0.038	2.76	22.7	50.1	0.73	1320	6.62	0.09	8.6	2.4
W593878		8.8	3.05	17.35	0.10	1.2	0.040	2.70	18.7	46.4	0.74	1310	1.59	0.09	8.2	2.3
W593879		6.4	2.93	18.10	0.10	1.4	0.042	2.66	22.5	67.2	0.70	972	2.10	0.08	8.5	2.4
W593880		5.9	2.95	15.60	0.10	1.2	0.033	2.16	28.8	105.0	1.30	1680	1.18	0.05	7.2	2.9
W593881		5.3	2.92	17.70	0.10	1.4	0.039	2.55	23.8	53.1	0.53	984	1.18	0.07	8.5	2.3
W593882		6.1	2.64	14.05	0.10	1.2	0.025	2.65	21.0	59.7	0.72	3440	1.59	0.05	6.4	2.4
W593883		8.4	2.98	17.10	0.12	1.3	0.043	2.89	23.3	66.4	0.65	1170	0.82	1.69	8.1	2.4
W593884		15.4	3.01	15.80	0.14	1.1	0.039	3.37	24.6	61.1	0.71	4970	0.79	0.35	7.0	2.4
W593885		6.7	2.89	17.05	0.11	1.2	0.030	3.29	19.6	38.8	0.73	1590	0.93	1.65	7.9	2.3
W593886		6140	5.87	12.30	0.09	1.5	0.428	1.18	8.9	14.0	1.14	1720	19.35	1.66	3.1	26.4
W593887		15.4	3.06	18.15	0.12	1.2	0.042	2.69	24.0	25.9	0.78	734	1.72	2.40	8.5	2.5
W593888		233	3.17	14.85	0.12	1.0	0.089	3.01	26.2	37.5	0.92	3940	1.59	0.42	6.8	2.2
W593889		33.7	2.95	16.80	0.13	1.7	0.028	3.32	19.6	18.2	0.65	979	1.14	2.04	8.1	1.6
W593890		11.7	3.28	18.05	0.13	1.1	0.043	2.75	24.0	24.2	0.91	792	2.41	2.58	8.4	2.5
W593891		32.9	3.56	16.55	0.11	1.2	0.144	3.34	27.1	42.0	0.72	10550	2.06	0.18	6.9	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251765

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593852		530	24.1	160.0	<0.002	1.57	32.4	9.5	<1	1.6	124.0	0.58	<0.05	13.35	0.226	2.37
W593853		440	1635	149.0	0.002	7.61	101.0	7.9	2	10.3	61.1	0.38	0.72	8.76	0.162	2.11
W593854		590	30.1	121.0	<0.002	1.67	36.2	9.7	<1	1.9	150.0	0.63	<0.05	11.75	0.244	2.55
W593855		520	81.6	152.0	<0.002	2.03	47.8	9.1	<1	1.7	144.0	0.60	<0.05	14.35	0.219	2.76
W593856		500	30.6	136.5	<0.002	1.50	35.3	8.7	<1	2.2	156.0	0.58	<0.05	13.60	0.216	2.38
W593857		520	21.9	94.6	<0.002	0.49	26.8	8.9	<1	2.0	194.5	0.63	<0.05	12.15	0.225	1.92
W593858		520	19.6	106.0	<0.002	0.13	33.7	8.7	<1	1.6	201	0.64	<0.05	12.40	0.220	1.81
W593859		680	13.9	70.1	<0.002	0.05	43.5	5.8	<1	1.4	338	0.77	<0.05	9.74	0.223	1.29
W593860		590	19.4	85.2	<0.002	0.08	47.6	6.8	<1	2.0	251	0.66	<0.05	11.20	0.210	1.04
W593861		70	0.8	0.5	<0.002	0.01	0.05	0.2	1	<0.2	72.7	<0.05	<0.05	0.07	0.005	<0.02
W593862		640	16.5	111.0	<0.002	0.04	23.1	10.6	<1	2.0	212	0.72	<0.05	13.70	0.266	1.51
W593863		700	15.9	55.9	<0.002	0.09	53.0	6.1	<1	1.5	394	0.83	<0.05	11.80	0.227	0.97
W593864		540	28.4	57.9	<0.002	0.25	43.0	5.1	<1	1.2	360	0.68	<0.05	10.15	0.185	0.86
W593865		550	23.8	57.5	<0.002	0.15	27.7	7.9	<1	1.3	402	0.72	<0.05	12.15	0.221	1.03
W593866		690	12.3	86.2	<0.002	0.06	18.75	5.9	1	1.4	382	0.80	<0.05	10.60	0.226	1.57
W593867		430	19.5	102.0	<0.002	0.12	31.8	8.4	<1	1.2	234	0.52	<0.05	12.25	0.194	1.37
W593868		560	16.8	114.5	<0.002	0.06	32.6	9.1	1	1.4	360	0.57	<0.05	14.15	0.224	1.43
W593869		610	11.8	108.5	<0.002	0.04	22.6	10.5	1	1.6	321	0.58	<0.05	13.90	0.257	1.60
W593870		490	28.6	74.1	<0.002	0.24	41.7	4.9	<1	1.5	308	0.54	<0.05	8.67	0.163	0.93
W593871		670	12.6	74.1	<0.002	0.06	34.6	5.9	1	1.3	364	0.78	<0.05	10.50	0.217	1.17
W593872		530	93.8	152.0	<0.002	2.51	80.7	9.2	<1	4.6	166.0	0.50	<0.05	9.24	0.229	2.38
W593873		520	91.6	154.0	<0.002	2.47	78.8	9.0	1	4.5	161.5	0.47	<0.05	9.71	0.221	2.34
W593874		600	18.3	132.0	<0.002	1.36	36.2	10.0	<1	2.7	219	0.47	<0.05	10.90	0.247	1.90
W593875		550	39.3	146.5	<0.002	1.83	36.5	9.2	1	1.7	189.5	0.50	<0.05	9.95	0.223	2.37
W593876		720	11.7	68.5	<0.002	0.07	19.60	11.5	1	1.9	105.0	0.68	<0.05	11.85	0.291	0.79
W593877		670	25.8	93.2	<0.002	0.20	14.00	11.2	<1	1.9	155.0	0.65	<0.05	11.75	0.289	1.42
W593878		700	21.4	86.5	<0.002	0.19	12.80	10.4	<1	2.1	152.5	0.67	<0.05	10.40	0.287	1.34
W593879		680	16.0	93.7	<0.002	0.10	15.95	11.1	<1	1.8	164.5	0.69	<0.05	12.35	0.287	1.40
W593880		550	23.5	109.0	<0.002	0.49	23.7	10.3	<1	1.5	273	0.60	<0.05	13.05	0.229	1.49
W593881		670	17.8	94.9	<0.002	0.06	17.15	11.3	1	1.8	119.0	0.70	<0.05	13.35	0.286	1.13
W593882		490	70.6	100.5	<0.002	1.11	36.7	8.4	1	1.8	211	0.56	<0.05	11.45	0.211	2.08
W593883		650	28.4	108.0	<0.002	0.13	9.33	11.0	1	1.7	333	0.58	<0.05	12.20	0.284	1.31
W593884		540	110.5	147.0	<0.002	1.24	49.6	10.1	1	2.5	240	0.51	<0.05	9.85	0.235	1.98
W593885		630	19.7	110.0	<0.002	0.25	9.28	10.4	1	1.6	332	0.57	<0.05	9.83	0.280	1.64
W593886		470	>10000	27.4	0.010	2.38	462	11.9	2	1.9	195.0	0.21	1.11	1.93	0.248	0.51
W593887		650	27.6	98.1	<0.002	0.01	7.29	12.0	1	1.6	417	0.62	<0.05	11.90	0.283	1.01
W593888		520	2870	130.0	<0.002	0.84	672	9.6	1	5.6	219	0.50	<0.05	11.50	0.228	1.81
W593889		730	260	117.0	<0.002	0.07	69.3	7.3	1	2.1	339	0.62	<0.05	10.75	0.234	1.55
W593890		660	22.8	95.5	<0.002	0.01	3.14	12.2	1	1.7	430	0.62	<0.05	11.25	0.291	0.96
W593891		540	160.5	151.5	<0.002	1.20	44.7	9.7	1	1.9	121.0	0.56	<0.05	13.25	0.230	1.84

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251765

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593852		4.7	61	2.7	15.2	69	35.5	0.117
W593853		5.2	54	7.0	9.0	3300	23.1	1.755
W593854		4.4	71	3.8	14.7	64	36.2	0.114
W593855		6.3	59	4.3	13.9	146	35.9	0.382
W593856		5.1	57	3.4	12.5	202	34.7	0.496
W593857		6.5	61	2.7	13.8	73	36.0	0.033
W593858		7.2	60	2.4	14.1	65	37.6	0.007
W593859		3.0	51	2.3	12.2	56	49.2	<0.005
W593860		3.5	51	5.0	12.9	85	48.5	0.022
W593861		0.1	1	<0.1	1.9	4	1.4	<0.005
W593862		3.3	70	4.5	17.3	81	39.9	<0.005
W593863		5.5	49	2.6	13.4	54	51.6	<0.005
W593864		7.1	40	2.8	12.6	47	41.8	<0.005
W593865		4.1	56	3.3	16.3	69	41.9	<0.005
W593866		3.4	51	1.8	13.0	51	51.8	<0.005
W593867		3.1	52	2.0	14.9	59	27.2	<0.005
W593868		1.8	61	2.2	15.6	70	27.6	<0.005
W593869		1.3	68	2.6	14.0	74	31.4	<0.005
W593870		3.2	39	2.4	10.5	223	32.9	0.096
W593871		4.3	49	2.0	13.4	59	48.2	0.007
W593872		5.0	62	5.7	11.0	481	33.8	7.92
W593873		4.9	60	5.5	10.9	470	35.4	7.94
W593874		2.6	70	2.8	13.3	150	32.8	0.512
W593875		4.4	66	3.4	14.1	229	31.9	0.556
W593876		2.0	66	6.6	15.6	70	36.5	0.006
W593877		2.5	77	3.3	16.6	87	34.6	0.005
W593878		2.4	79	3.4	15.0	84	33.2	<0.005
W593879		2.4	78	3.7	16.8	65	36.6	<0.005
W593880		3.5	65	2.2	18.7	84	33.2	0.075
W593881		2.7	74	3.2	16.3	71	37.6	<0.005
W593882		5.9	57	2.9	14.3	182	31.3	0.429
W593883		3.8	78	0.9	16.7	70	37.5	0.009
W593884		3.8	63	1.4	15.4	246	33.3	1.030
W593885		3.4	74	1.1	15.2	59	34.1	0.038
W593886		1.5	81	0.6	14.1	5200	46.5	0.267
W593887		3.9	77	1.3	18.4	67	33.3	<0.005
W593888		3.7	60	2.4	15.8	2460	28.5	0.359
W593889		4.2	53	0.9	14.2	268	57.5	0.032
W593890		3.6	80	1.5	18.9	68	31.6	<0.005
W593891		4.6	60	2.4	15.7	201	34.3	0.094

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251765

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251793

Project: Klaza

P.O. No.: 19-075

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251793

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
K295281		2.49				3.30	7.19	536	800	1.28	1.80	0.64	27.2	22.9	3.5	11
K295282		4.29				0.42	7.63	24.1	2240	1.61	0.69	2.18	1.23	25.0	2.1	11
K295283		5.10				0.30	7.24	32.8	2900	1.96	1.15	3.05	0.23	25.6	2.8	11
K295284		3.91				0.18	7.28	23.8	3890	1.65	2.17	2.37	0.25	14.95	1.7	11
K295285		4.25				0.15	7.75	17.9	2690	1.55	0.71	2.13	0.17	32.3	1.6	10
K295286		<0.02				0.14	7.61	17.1	2650	1.63	0.86	2.16	0.15	37.2	1.6	11
K295287		3.54				0.39	6.88	30.4	2630	1.67	3.74	2.83	0.33	40.1	4.5	11
K295288		2.80				0.39	7.32	30.1	2830	1.55	2.02	2.71	0.48	32.9	4.0	11
K295289		4.75				0.33	6.98	25.5	2390	1.55	2.41	3.14	0.36	50.9	11.5	11
K295290		3.36				2.47	8.22	87.0	4480	2.20	20.3	0.25	3.45	51.5	7.1	35
K295291		3.71				3.73	8.17	80.5	3480	1.88	9.17	0.08	0.81	44.7	3.6	18
K295292		4.33				14.90	7.88	104.0	1230	1.55	25.8	0.03	0.39	45.6	0.6	17
K295293		2.83				9.03	8.15	119.5	1030	1.95	11.40	0.03	1.79	48.3	1.8	16
K295294		2.53				9.47	7.94	116.5	930	1.99	10.85	0.04	8.94	46.1	2.1	16
K295295		5.22				2.44	7.58	108.5	1340	2.23	10.85	0.30	66.6	44.1	6.7	15
K295296		5.38				0.88	7.56	91.6	2190	2.04	5.06	1.81	50.1	57.0	6.1	24
K295297		4.24				0.47	7.47	45.5	1030	1.79	0.36	2.06	7.06	64.5	7.1	30
K295298		5.83				0.44	7.16	43.0	1960	1.73	0.53	2.55	13.90	48.0	8.3	20
K295299		4.73				0.07	7.18	26.6	1500	2.07	0.16	3.43	11.55	51.2	6.5	14
K295300		0.26	102	1.015		>100	5.36	247	590	0.79	4.60	1.41	25.5	19.50	11.3	63
K295301		4.15				0.09	7.06	22.7	1040	1.77	0.09	3.48	6.12	51.4	5.8	10
K295302		6.21				0.21	6.61	27.0	2630	1.59	0.25	3.71	2.26	48.4	6.1	10
K295303		5.71				0.15	7.17	24.1	1760	1.95	0.15	3.37	1.53	49.8	6.7	12
K295304		5.19				0.11	7.09	19.4	3110	1.98	0.16	3.19	1.42	48.9	7.0	14
K295305		5.28				1.30	7.20	45.4	1670	2.12	0.79	3.23	4.29	52.2	8.4	20
K295306		5.06				0.01	0.09	<0.2	30	0.07	0.01	33.0	0.05	1.01	0.5	1
K295307		4.70				0.87	6.69	41.5	1170	2.12	0.55	2.61	4.46	54.9	6.1	30
K295308		2.75				14.20	7.36	300	700	2.01	12.90	0.68	62.6	46.2	7.1	27
K295309		6.62				25.5	7.06	433	420	1.66	26.4	0.41	23.3	42.9	9.0	38
K295310		5.62				0.77	6.11	56.5	600	1.89	0.67	0.73	17.45	36.2	1.2	4
K295311		5.52				0.08	6.52	52.1	460	1.95	0.09	0.68	0.57	41.4	1.8	5
K295312		5.25				0.07	6.70	51.9	990	2.08	0.05	1.03	1.45	42.7	1.5	3
K295313		0.26	103	1.010		>100	5.57	266	620	0.80	4.57	1.45	26.0	20.2	11.4	65
K295314		4.70				0.29	6.74	73.7	660	2.07	0.09	0.97	7.27	39.1	1.1	4
K295315		2.57	162	4.31	6.73	>100	3.90	1230	480	1.27	29.5	1.16	975	30.9	6.5	6
K295316		3.71				16.90	7.57	359	790	1.89	7.05	0.22	73.0	47.1	5.9	12
K295317		3.95				11.35	7.68	292	810	1.97	6.83	0.27	55.0	52.5	8.1	10
K295318		3.34				3.11	7.44	158.0	990	1.92	6.27	1.77	3.27	59.3	7.6	10
K295319		3.84				3.34	6.98	103.0	1240	1.87	6.15	2.92	4.03	42.3	6.8	9
K295320		4.50				2.66	7.04	61.1	910	1.69	5.72	2.71	2.81	44.0	5.9	10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251793

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K295281		6.41	82.3	3.50	15.85	0.14	1.0	0.917	3.59	10.6	11.3	0.53	1600	1.76	0.05	6.1
K295282		8.58	18.3	2.12	15.85	0.17	1.3	0.141	3.42	10.7	9.4	0.78	1020	0.69	0.06	6.1
K295283		11.30	62.0	2.73	18.20	0.16	1.1	0.182	3.20	10.5	9.4	0.60	770	3.86	0.74	6.2
K295284		10.65	20.7	2.50	17.80	0.15	1.2	0.182	3.56	6.9	11.8	0.58	730	2.14	0.66	6.0
K295285		7.94	12.4	1.43	16.40	0.15	1.3	0.106	3.31	14.1	14.6	0.47	406	1.84	0.76	7.6
K295286		7.84	10.3	1.53	16.85	0.17	1.3	0.098	3.18	17.7	12.4	0.48	433	1.97	0.81	7.5
K295287		8.59	51.1	2.32	15.65	0.20	1.2	0.199	3.05	18.5	12.0	0.47	561	1.66	1.04	6.9
K295288		8.01	21.2	2.09	15.00	0.18	1.3	0.205	3.53	14.6	14.9	0.47	474	3.73	0.33	6.8
K295289		11.85	43.4	2.77	16.85	0.20	1.2	0.217	2.99	26.3	26.0	0.63	686	1.34	1.12	7.3
K295290		10.60	139.5	3.62	21.4	0.21	1.8	0.453	3.92	27.8	13.5	0.41	1080	2.15	0.14	9.9
K295291		15.45	129.5	3.89	20.1	0.19	1.7	0.637	3.80	25.5	7.3	0.40	325	2.18	0.04	9.0
K295292		8.66	41.7	2.59	19.70	0.16	1.9	0.868	3.97	26.0	6.1	0.41	123	2.36	0.04	9.2
K295293		7.63	89.1	2.90	20.9	0.20	1.8	0.937	4.15	27.3	5.9	0.42	142	1.74	0.04	9.8
K295294		7.33	93.2	2.94	19.55	0.19	1.7	0.829	4.06	25.7	5.4	0.42	255	1.59	0.04	9.7
K295295		9.18	192.0	3.80	18.60	0.17	1.5	0.498	3.70	23.5	8.6	0.44	2090	2.46	0.04	9.0
K295296		11.45	92.1	2.74	18.75	0.18	3.1	0.263	2.27	30.1	325	0.84	1420	1.60	0.30	10.2
K295297		12.20	19.3	2.76	20.3	0.18	4.2	0.056	1.54	33.3	490	0.84	994	1.07	0.36	10.9
K295298		17.05	34.9	2.94	20.5	0.20	3.5	0.066	2.33	23.1	183.0	0.94	700	1.19	0.18	8.0
K295299		32.7	43.3	2.79	19.15	0.20	2.7	0.029	2.30	24.6	76.9	1.21	743	0.74	0.13	7.9
K295300		0.85	6170	5.61	12.70	0.12	1.6	0.442	1.10	8.6	13.1	1.08	1660	22.8	1.58	3.2
K295301		27.9	29.3	2.79	19.05	0.15	2.4	0.037	2.52	24.8	86.4	1.10	622	0.58	0.11	8.4
K295302		23.2	15.5	2.51	18.35	0.17	2.3	0.054	2.62	24.0	42.3	1.25	582	0.65	0.08	8.1
K295303		29.0	9.9	2.68	19.35	0.20	2.6	0.046	2.69	24.1	47.2	1.04	602	0.66	0.10	8.4
K295304		28.5	10.5	2.72	19.85	0.18	2.6	0.039	2.62	23.9	63.0	0.93	599	0.72	0.10	8.2
K295305		30.2	32.7	3.11	19.55	0.23	3.1	0.092	2.50	25.6	81.1	1.11	622	1.64	0.11	7.4
K295306		0.14	2.1	0.13	0.28	0.09	<0.1	<0.005	0.02	1.1	1.3	2.00	132	0.06	0.03	0.1
K295307		26.1	16.0	2.40	19.30	0.20	4.0	0.071	2.62	27.4	86.7	0.82	891	0.71	0.09	10.6
K295308		16.90	244	5.10	17.80	0.14	2.0	1.055	3.32	24.3	29.4	0.51	2580	4.29	0.05	8.7
K295309		9.19	392	5.95	19.40	0.15	1.7	0.998	3.50	22.6	14.8	0.48	984	4.55	0.05	8.5
K295310		7.68	6.7	1.25	17.30	0.13	2.6	0.089	0.45	18.4	460	0.46	347	5.80	0.56	14.4
K295311		7.97	1.4	1.24	19.25	0.13	2.5	0.017	0.43	21.3	510	0.47	255	0.53	0.63	14.6
K295312		9.94	1.9	1.16	18.50	0.14	2.6	0.023	0.39	21.8	600	0.55	522	0.60	0.53	14.8
K295313		0.83	6360	5.82	12.95	0.14	1.7	0.449	1.14	8.6	14.0	1.12	1720	25.7	1.64	3.2
K295314		7.74	10.8	1.46	18.10	0.14	2.4	0.062	0.45	19.9	770	0.53	421	1.29	0.47	14.1
K295315		5.53	955	14.90	14.50	0.13	0.9	22.8	1.48	18.7	87.8	0.50	1790	3.03	0.07	4.4
K295316		11.05	192.5	5.84	18.00	0.13	1.2	1.380	3.50	24.9	34.1	0.36	1160	4.11	0.05	7.0
K295317		13.20	144.0	5.39	18.05	0.16	1.2	0.983	3.54	28.4	29.2	0.42	1360	2.37	0.04	7.0
K295318		14.90	44.3	4.04	16.90	0.16	1.0	0.338	2.91	34.2	36.3	0.73	1380	3.04	0.05	6.7
K295319		18.35	125.0	3.16	17.70	0.14	1.1	0.224	2.75	21.4	66.0	0.81	1040	3.74	0.06	7.9
K295320		14.40	42.0	3.06	17.10	0.15	1.2	0.274	2.85	22.7	68.6	0.83	966	3.42	0.05	7.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251793

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K295281		1.9	590	498	256	0.002	2.42	19.70	9.5	1	6.3	20.6	0.43	0.42	13.50	0.199
K295282		1.6	590	74.3	190.0	<0.002	0.53	8.74	8.7	1	2.4	91.7	0.52	0.07	15.30	0.181
K295283		3.8	650	14.1	111.0	<0.002	0.41	9.82	9.7	1	2.2	248	0.46	0.16	10.50	0.230
K295284		2.7	600	14.2	127.5	<0.002	0.13	8.98	9.5	1	2.6	199.0	0.51	0.10	12.30	0.217
K295285		1.8	700	11.3	114.0	<0.002	0.10	17.30	10.8	<1	2.7	203	0.60	<0.05	11.10	0.252
K295286		2.0	670	11.0	110.5	<0.002	0.11	17.95	10.7	1	2.7	215	0.60	0.06	11.15	0.245
K295287		2.8	670	21.4	87.9	<0.002	0.68	7.54	9.1	1	3.5	239	0.53	0.15	9.36	0.221
K295288		2.1	630	24.1	115.0	<0.002	0.74	18.45	10.4	1	3.1	170.5	0.60	0.14	10.55	0.231
K295289		2.5	600	19.0	99.4	<0.002	0.37	7.14	9.6	1	2.4	284	0.53	0.10	11.45	0.243
K295290		7.1	800	85.6	253	<0.002	0.40	10.85	9.7	1	2.6	81.3	0.69	0.72	10.45	0.250
K295291		2.9	780	66.5	239	<0.002	0.20	9.80	8.9	2	3.2	68.6	0.64	0.50	11.45	0.201
K295292		2.5	470	1145	291	<0.002	0.29	14.65	7.0	1	4.9	83.1	0.68	0.56	9.38	0.209
K295293		2.3	440	670	326	<0.002	0.89	11.35	7.7	2	5.8	48.7	0.70	1.01	9.49	0.214
K295294		2.3	470	550	319	<0.002	0.94	13.35	7.5	1	4.5	40.4	0.70	1.08	9.28	0.210
K295295		6.1	610	82.0	288	0.002	1.10	13.15	7.3	2	2.5	40.1	0.62	0.54	9.52	0.198
K295296		12.0	850	48.5	147.5	<0.002	0.79	10.60	6.7	1	1.5	157.0	0.70	0.17	10.20	0.259
K295297		16.6	1000	78.3	53.3	<0.002	0.06	7.18	6.0	1	1.7	191.0	0.72	<0.05	10.35	0.294
K295298		10.4	860	31.7	70.0	<0.002	0.11	5.98	9.6	<1	1.8	177.5	0.52	<0.05	6.77	0.325
K295299		6.9	800	19.5	71.7	0.003	0.03	8.03	8.2	<1	1.4	236	0.50	<0.05	7.07	0.296
K295300		29.0	450	>10000	27.5	0.009	2.27	441	12.3	2	2.1	187.5	0.20	1.33	1.87	0.237
K295301		4.5	820	25.8	76.5	<0.002	0.01	12.75	7.5	<1	1.5	238	0.57	<0.05	7.12	0.288
K295302		4.3	790	24.4	79.5	<0.002	0.10	12.50	7.2	<1	1.6	290	0.53	<0.05	6.77	0.271
K295303		5.2	820	32.2	84.6	<0.002	0.06	13.10	7.7	1	1.6	230	0.56	<0.05	7.16	0.296
K295304		6.5	790	19.5	82.6	<0.002	0.07	15.20	8.1	<1	1.7	212	0.53	<0.05	7.07	0.299
K295305		10.7	820	195.5	88.8	<0.002	0.28	12.75	9.7	1	2.4	237	0.49	<0.05	7.21	0.314
K295306		0.4	70	0.9	0.9	<0.002	<0.01	0.07	0.2	1	<0.2	79.2	<0.05	<0.05	0.07	0.005
K295307		15.3	960	98.0	81.4	<0.002	0.09	10.40	5.5	<1	1.9	168.5	0.72	<0.05	8.51	0.281
K295308		9.4	870	1105	217	<0.002	2.08	44.7	9.7	1	6.7	76.4	0.62	0.42	9.08	0.245
K295309		7.4	720	1105	235	0.002	4.38	70.8	12.1	1	11.1	53.0	0.56	0.86	8.44	0.249
K295310		0.8	340	94.0	18.3	<0.002	0.23	4.58	2.1	1	1.9	210	1.34	<0.05	7.35	0.121
K295311		1.1	330	17.6	17.0	<0.002	0.41	2.97	2.5	<1	2.0	159.0	1.40	<0.05	7.85	0.132
K295312		1.0	330	17.4	16.7	<0.002	0.16	4.07	2.6	1	2.2	163.0	1.35	<0.05	7.94	0.131
K295313		29.2	470	>10000	28.0	0.009	2.37	458	12.6	2	2.1	195.5	0.21	1.39	1.90	0.242
K295314		0.9	370	57.3	18.4	<0.002	0.11	3.36	2.7	1	2.2	198.5	1.37	<0.05	7.96	0.129
K295315		2.1	320	>10000	73.7	<0.002	>10.0	72.4	5.4	2	23.8	79.1	0.35	3.85	6.50	0.125
K295316		2.8	680	1485	227	<0.002	3.16	28.2	11.1	1	10.8	39.8	0.51	0.83	11.00	0.244
K295317		3.3	550	992	234	<0.002	2.26	25.7	11.5	1	10.8	38.6	0.54	1.40	12.30	0.229
K295318		2.9	570	120.0	160.5	<0.002	1.80	13.05	10.3	1	3.2	123.5	0.50	0.73	13.60	0.222
K295319		2.9	620	307	101.5	0.003	1.03	14.70	11.2	<1	3.6	205	0.56	0.29	10.35	0.254
K295320		2.8	600	166.5	129.5	0.003	1.43	10.65	10.5	1	2.5	181.5	0.59	1.12	11.15	0.243

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251793

Sample Description	Method Analyte Units LOD	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
K295281		3.28	3.0	63	10.5	7.6	1950	29.7	0.118
K295282		2.95	4.8	56	3.4	12.9	126	36.4	0.007
K295283		2.20	4.0	78	3.2	12.1	64	32.7	0.012
K295284		2.19	5.3	77	4.1	8.7	64	37.0	0.015
K295285		1.88	3.2	81	7.8	11.6	35	36.3	0.007
K295286		1.81	3.3	80	7.6	11.9	35	34.6	0.007
K295287		1.69	3.6	72	4.0	10.0	52	35.7	0.018
K295288		2.08	4.1	78	5.3	10.2	67	33.9	0.012
K295289		1.56	3.1	70	1.8	13.6	73	35.6	0.011
K295290		3.77	3.5	76	3.6	13.8	233	64.5	0.081
K295291		3.48	3.6	64	3.7	7.4	296	59.5	0.078
K295292		3.92	2.0	58	5.4	3.9	250	61.4	0.190
K295293		4.16	2.3	60	4.6	4.7	401	56.0	0.174
K295294		4.22	2.4	58	3.8	4.8	510	53.5	0.122
K295295		3.90	5.9	56	3.0	11.3	2790	53.3	0.051
K295296		2.26	4.4	55	2.0	13.2	1220	115.5	0.027
K295297		1.40	4.1	55	1.4	11.7	877	170.0	0.029
K295298		1.95	3.7	82	1.3	13.1	874	122.5	0.025
K295299		1.58	3.2	70	1.3	12.6	665	93.1	<0.005
K295300		0.50	1.2	78	0.6	13.2	5000	70.6	0.275
K295301		1.69	2.7	69	2.5	12.1	365	79.1	<0.005
K295302		1.91	2.4	64	2.2	11.7	289	76.3	0.027
K295303		1.83	2.7	69	2.6	12.0	240	85.4	0.019
K295304		1.84	3.0	71	2.5	12.2	213	93.1	0.005
K295305		1.87	3.8	82	2.1	13.1	425	114.0	0.117
K295306		0.02	0.1	1	0.1	2.0	5	1.5	<0.005
K295307		2.28	5.1	53	1.3	10.2	852	158.5	0.033
K295308		3.23	5.5	72	4.4	10.5	2860	70.7	0.292
K295309		3.30	4.5	84	5.6	7.4	1500	58.6	0.790
K295310		0.47	5.2	13	2.4	11.0	1230	59.4	0.014
K295311		0.50	2.0	15	1.5	12.2	177	57.7	<0.005
K295312		0.52	2.3	14	1.9	13.5	161	59.8	<0.005
K295313		0.56	1.3	81	0.7	13.7	5190	58.3	0.296
K295314		0.46	3.2	14	1.6	13.0	604	57.0	0.008
K295315		1.38	6.7	35	7.0	10.5	>10000	20.6	4.38
K295316		3.50	6.5	71	7.0	10.3	4210	33.0	0.599
K295317		3.44	3.9	69	4.8	9.0	2660	32.5	0.663
K295318		2.45	2.9	66	1.7	11.6	523	27.6	0.338
K295319		2.33	3.1	73	1.7	14.4	373	32.8	0.063
K295320		2.60	3.5	69	2.0	13.9	226	31.3	0.026

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 9-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251793

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251796

Project: Klaza

P.O. No.: 19-076

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251796

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295321		3.54			3.70	7.14	115.0	730	1.90	4.33	2.43	5.28	53.3	5.7	10	26.7
K295322		4.90			0.05	6.57	26.7	380	1.63	0.04	1.23	0.15	39.5	1.5	6	5.94
K295323		4.74			0.05	6.81	27.5	390	1.75	0.04	0.97	0.09	44.0	1.5	5	6.85
K295324		4.88			0.03	6.63	29.5	310	1.60	0.02	0.79	0.05	40.4	1.6	5	7.09
K295325		5.70			0.06	6.85	31.8	590	1.79	0.04	0.89	0.35	42.1	1.6	5	7.91
K295326		4.70			0.07	6.53	25.4	1520	1.72	0.19	1.15	0.11	39.7	1.5	4	7.37
K295327		5.07			1.15	6.73	48.0	1220	2.09	3.16	2.63	6.82	40.3	3.3	10	16.55
K295328		0.26	104	1.030	>100	5.45	243	590	0.69	4.47	1.43	25.2	18.90	10.8	63	0.85
K295329		3.72			1.37	6.97	52.8	1060	1.47	1.80	2.84	3.35	45.9	4.7	12	14.15
K295330		4.49			4.18	7.21	106.5	690	1.61	3.08	2.01	20.7	51.6	4.7	13	12.50
K295331		1.95			0.59	7.38	51.3	1210	1.86	0.35	3.14	0.86	53.3	6.9	24	23.2
K295332		4.52			1.71	7.51	90.4	1070	1.64	2.23	2.75	2.90	50.9	5.7	11	22.5
K295333		3.90			0.05	7.44	15.9	2970	2.14	0.16	3.02	0.22	51.2	6.0	19	28.5
K295334		5.01			0.01	0.07	<0.2	30	0.05	0.01	32.8	0.02	0.93	0.5	2	0.07
K295335		3.30			0.11	6.99	18.9	2720	1.70	0.26	3.01	0.20	48.8	5.7	13	28.1
K295336		2.82			0.24	7.16	756	3150	1.83	0.19	2.95	0.71	52.8	8.4	15	29.7
K295337		4.90			0.06	7.22	34.2	1350	1.92	0.15	3.58	0.19	49.8	7.1	20	29.7
K295338		4.57			2.06	7.75	132.0	1450	1.84	3.64	2.75	5.36	54.4	6.7	13	31.2
K295339		4.55			1.26	6.95	81.9	1140	1.81	0.98	2.48	3.47	52.7	6.3	28	23.4
K295340		4.71			3.48	7.13	132.5	700	1.71	4.30	2.42	17.50	48.7	5.8	11	22.8
K295341		<0.02			3.39	7.16	145.5	700	1.79	4.55	2.46	17.80	49.5	6.3	10	22.9
K295342		4.83			3.41	7.41	76.3	900	1.79	5.82	2.89	4.26	48.1	8.3	11	24.4
K295343		3.52			1.15	7.04	64.5	1020	1.68	0.35	3.01	1.69	53.8	7.1	30	23.5
K295344		5.18			0.18	7.09	17.3	2660	1.87	0.20	3.10	0.27	52.2	5.2	23	27.2
K295345		5.89			0.10	6.88	11.6	2260	1.92	0.11	3.42	0.44	46.7	4.7	16	26.5
K295346		6.07			0.53	7.47	31.1	1880	2.14	0.53	2.63	1.31	53.9	6.3	17	29.2
K295347		2.90			0.84	7.95	32.2	1690	1.68	0.56	2.12	1.36	69.3	4.6	14	23.7
K295348		2.55			1.01	8.01	31.7	2400	1.67	0.65	2.49	1.54	72.6	4.7	13	23.4
K295349		5.36			0.95	8.07	31.7	1850	1.68	0.59	2.61	1.31	71.6	5.7	16	22.6
K295350		5.16			0.77	7.76	28.4	2220	1.74	0.45	2.29	1.67	60.2	5.6	31	19.90
K295351		2.61			0.31	7.05	21.6	1120	1.59	0.61	2.16	0.64	48.1	4.2	32	19.90
K295352		3.83			2.25	7.22	125.0	790	1.71	2.45	2.91	11.35	48.8	4.5	11	17.20
K295353		3.73			2.15	8.01	92.8	1130	1.72	4.61	2.73	0.99	56.3	9.4	11	23.4
K295354		3.69			4.22	7.91	149.0	770	1.79	4.25	2.13	10.05	52.8	9.6	10	19.80
K295355		0.26			39.6	5.78	2660	490	1.21	37.0	1.68	48.4	35.0	16.1	23	9.75
K295356		3.74			3.77	6.93	159.5	1580	1.34	3.27	1.97	9.57	44.8	6.9	9	13.35
K295357		2.49			3.10	7.59	105.0	480	1.42	2.99	1.97	5.93	56.6	4.4	11	10.10
K295358		4.01			4.70	7.62	193.0	610	1.56	5.00	1.59	11.20	48.6	5.9	10	11.85
K295359		4.21			3.78	7.64	241	670	1.78	3.12	2.27	30.3	51.1	6.7	11	18.90
K295360		2.50			0.76	7.41	53.4	1970	1.73	1.84	3.29	2.09	35.8	7.2	12	21.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295321		26.7	3.22	15.90	0.17	1.3	0.270	2.93	30.1	35.4	0.97	1340	3.76	0.07	7.6	3.6
K295322		1.2	1.40	17.20	0.12	2.6	0.019	0.25	20.5	329	0.54	493	0.48	0.56	14.0	1.5
K295323		3.2	1.26	19.40	0.16	2.7	0.022	0.31	23.2	344	0.49	317	0.53	0.62	15.7	1.3
K295324		2.8	1.30	18.85	0.14	2.7	0.020	0.30	20.9	354	0.44	330	0.53	0.60	15.3	1.1
K295325		1.5	1.44	19.30	0.12	2.7	0.021	0.36	21.9	364	0.48	387	0.52	0.59	15.3	1.2
K295326		0.8	1.32	18.70	0.16	2.5	0.013	0.55	20.1	401	0.53	397	0.98	0.44	13.6	1.1
K295327		24.8	3.17	16.15	0.12	1.2	0.101	2.30	21.1	53.3	0.83	960	20.3	0.44	7.3	2.9
K295328		6150	5.70	11.60	0.12	1.5	0.425	1.12	8.0	13.3	1.10	1700	22.0	1.60	3.1	28.4
K295329		13.2	3.16	15.85	0.14	1.1	0.101	2.30	23.7	26.4	0.85	680	20.7	1.19	7.2	3.1
K295330		22.5	3.82	16.15	0.15	1.4	0.153	3.08	27.8	22.9	0.85	733	5.17	0.19	7.3	3.6
K295331		13.1	2.73	18.60	0.17	3.0	0.047	2.81	27.0	19.0	1.16	818	1.58	0.08	7.7	11.5
K295332		33.2	3.30	16.00	0.19	1.1	0.150	2.52	26.9	49.9	0.99	740	5.19	0.06	7.3	4.4
K295333		9.7	3.01	19.20	0.17	2.9	0.028	2.53	25.2	52.9	1.17	683	0.85	0.07	7.6	6.9
K295334		1.8	0.17	0.24	0.09	<0.1	<0.005	0.01	1.1	1.5	2.04	134	0.10	0.02	0.1	0.4
K295335		11.8	2.62	17.90	0.21	2.2	0.031	2.65	24.0	31.8	1.03	685	1.06	0.08	7.8	4.5
K295336		11.7	2.59	18.20	0.23	2.5	0.031	2.32	26.3	80.2	1.05	904	1.00	0.12	7.7	7.9
K295337		12.3	2.90	19.00	0.20	2.9	0.030	2.49	23.6	94.2	1.35	780	0.71	0.15	7.6	8.3
K295338		64.5	3.49	17.40	0.20	1.2	0.284	2.92	28.6	62.9	1.11	1200	2.92	0.09	7.7	5.8
K295339		35.5	2.22	17.95	0.19	3.0	0.083	2.72	26.4	39.0	0.74	593	1.70	0.08	8.6	20.8
K295340		63.9	3.42	15.10	0.19	1.0	0.346	2.97	26.6	28.6	0.92	2180	5.25	0.05	6.7	4.1
K295341		65.4	3.44	15.60	0.17	1.0	0.353	3.02	26.6	28.4	0.94	2230	8.46	0.05	6.9	4.3
K295342		57.8	3.31	17.25	0.18	0.9	0.272	2.88	24.4	37.5	0.95	1200	2.35	0.07	7.5	4.4
K295343		19.9	2.16	18.65	0.18	3.8	0.038	2.76	28.2	17.9	1.07	675	57.0	0.07	8.8	26.6
K295344		12.3	2.38	18.35	0.20	2.7	0.025	2.88	26.4	17.8	1.01	663	2.58	0.08	8.6	14.3
K295345		7.3	2.31	18.15	0.19	1.8	0.031	2.95	22.5	15.4	1.00	580	0.92	0.07	8.6	7.7
K295346		5.5	2.51	20.9	0.20	2.3	0.042	3.16	25.9	23.0	0.77	580	1.10	0.08	10.4	9.4
K295347		13.2	2.53	19.00	0.21	2.5	0.034	3.10	35.3	19.0	0.78	745	1.49	0.09	12.0	3.6
K295348		19.2	2.79	19.30	0.20	2.6	0.045	3.10	37.5	15.6	0.90	868	1.32	0.09	12.3	3.3
K295349		9.1	2.65	19.45	0.19	2.7	0.035	3.20	36.5	15.5	0.94	853	1.16	0.08	11.8	6.1
K295350		16.2	2.38	20.6	0.20	3.8	0.044	3.04	31.8	18.1	0.89	750	1.10	0.07	9.5	19.5
K295351		5.2	2.01	19.50	0.20	3.8	0.031	2.91	23.4	19.7	0.65	675	1.05	0.07	9.1	18.9
K295352		51.3	3.97	16.40	0.19	0.7	0.487	3.26	26.7	9.9	1.08	2150	2.90	0.04	6.8	3.8
K295353		120.0	3.75	17.60	0.22	0.7	0.291	3.51	30.5	13.8	1.03	1380	26.4	0.05	7.6	3.2
K295354		125.5	3.99	17.60	0.17	0.8	0.206	3.63	27.4	10.1	0.82	4430	5.43	0.04	7.9	3.6
K295355		1185	9.11	14.40	0.14	0.8	1.615	2.65	18.7	16.9	0.67	2300	17.50	0.06	4.6	15.4
K295356		190.5	5.17	15.50	0.14	0.6	0.229	3.29	22.3	9.1	0.89	3450	5.04	0.04	4.6	4.1
K295357		144.0	4.05	17.25	0.18	0.7	0.403	3.84	30.9	7.5	0.96	2680	2.08	0.04	6.0	3.3
K295358		56.0	5.16	17.15	0.16	0.7	0.680	3.50	26.2	23.5	0.81	2620	2.14	0.07	6.3	2.8
K295359		71.5	4.09	17.20	0.17	0.8	0.456	3.47	27.5	10.6	0.92	2220	2.20	0.04	7.4	3.5
K295360		28.1	3.48	17.00	0.17	0.7	0.110	2.37	17.9	123.0	0.95	843	1.51	1.14	7.4	3.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295321		520	197.0	182.0	<0.002	1.84	10.80	9.4	1	2.8	128.0	0.65	1.11	13.45	0.212	2.90
K295322		320	13.1	9.6	<0.002	0.32	4.22	2.6	1	2.1	197.0	1.27	<0.05	7.50	0.127	0.31
K295323		350	14.3	12.4	<0.002	0.43	3.49	2.6	<1	2.6	195.5	1.32	<0.05	8.07	0.138	0.35
K295324		330	10.9	11.9	<0.002	0.40	2.65	2.5	<1	2.1	176.0	1.38	<0.05	8.08	0.133	0.32
K295325		330	19.2	14.4	<0.002	0.37	2.62	2.8	<1	1.9	172.5	1.45	<0.05	8.26	0.136	0.37
K295326		300	10.7	21.2	<0.002	0.18	2.54	2.6	<1	1.9	180.5	1.43	<0.05	7.81	0.124	0.48
K295327		540	76.0	98.9	0.002	0.87	9.98	9.6	1	3.5	217	0.59	1.24	10.10	0.225	2.00
K295328		450	>10000	26.8	0.011	2.30	448	11.0	2	2.0	190.5	0.20	1.22	1.80	0.241	0.52
K295329		550	60.1	121.5	0.004	1.12	12.00	9.0	1	3.4	302	0.55	0.44	11.90	0.231	1.84
K295330		610	754	183.5	0.002	2.42	10.25	10.2	1	4.9	151.5	0.56	1.31	12.15	0.243	2.34
K295331		770	62.2	89.9	<0.002	0.42	12.50	8.5	<1	1.8	175.5	0.50	0.05	7.58	0.316	1.91
K295332		590	47.5	118.5	<0.002	0.96	10.60	9.7	<1	3.3	174.5	0.56	0.55	13.30	0.242	1.81
K295333		860	7.4	78.3	<0.002	0.07	7.95	8.5	<1	1.5	176.0	0.49	<0.05	6.98	0.325	1.50
K295334		70	0.7	0.5	<0.002	0.01	0.07	0.2	1	<0.2	78.0	<0.05	<0.05	0.07	0.005	<0.02
K295335		790	12.4	76.4	<0.002	0.09	7.27	6.7	<1	1.5	147.5	0.50	<0.05	6.90	0.285	1.49
K295336		780	47.5	76.2	0.002	0.84	12.75	7.7	<1	1.4	174.5	0.49	<0.05	7.32	0.296	2.66
K295337		830	11.1	73.7	<0.002	0.22	9.95	8.4	1	1.5	227	0.46	<0.05	6.56	0.327	1.94
K295338		640	183.5	131.5	<0.002	1.16	14.35	10.1	2	3.6	150.5	0.56	0.38	12.80	0.266	2.52
K295339		620	185.5	93.7	0.002	0.49	10.55	5.7	<1	2.3	174.0	0.64	0.08	9.18	0.253	2.03
K295340		540	567	161.5	<0.002	1.51	12.30	8.7	<1	2.6	126.0	0.49	0.56	12.40	0.222	2.76
K295341		550	566	170.0	<0.002	1.63	12.55	9.1	1	2.8	129.0	0.53	0.36	12.55	0.223	2.81
K295342		610	156.0	120.0	0.002	0.93	10.70	10.0	1	3.3	167.0	0.51	0.66	10.90	0.251	2.29
K295343		640	82.0	89.4	0.005	0.28	8.67	5.4	1	1.9	173.5	0.63	<0.05	9.81	0.253	2.25
K295344		740	24.1	92.9	<0.002	0.08	5.80	5.2	<1	1.6	219	0.61	<0.05	8.48	0.268	1.79
K295345		820	15.5	86.2	<0.002	0.09	3.15	5.2	<1	1.4	276	0.59	<0.05	7.19	0.274	1.96
K295346		890	189.5	108.0	<0.002	0.33	5.43	5.9	<1	2.3	304	0.68	<0.05	8.23	0.293	2.27
K295347		970	173.5	100.0	<0.002	0.32	9.49	5.7	1	2.1	173.0	0.75	<0.05	9.98	0.278	2.30
K295348		960	359	103.0	<0.002	0.33	9.70	6.2	1	1.9	181.0	0.77	<0.05	10.35	0.276	2.33
K295349		950	157.5	107.0	<0.002	0.33	8.55	6.1	<1	1.8	171.5	0.74	<0.05	10.20	0.287	2.34
K295350		720	32.4	117.0	<0.002	0.30	6.67	6.1	1	2.0	164.0	0.68	<0.05	11.00	0.280	2.42
K295351		630	24.3	88.1	<0.002	0.06	4.77	5.3	1	2.3	148.5	0.67	<0.05	8.69	0.269	2.02
K295352		600	254	211	<0.002	1.70	8.85	10.0	1	4.3	142.0	0.40	0.33	9.51	0.244	3.26
K295353		670	62.2	211	0.005	1.87	9.16	11.2	1	3.0	167.5	0.45	1.30	10.30	0.273	3.00
K295354		700	490	200	0.003	2.54	10.45	12.0	1	3.7	106.5	0.53	1.07	10.45	0.280	3.50
K295355		450	1690	151.0	0.003	7.87	107.0	7.8	1	11.7	64.1	0.35	0.77	7.97	0.162	2.27
K295356		560	294	192.0	0.003	4.07	12.10	10.1	1	4.3	84.2	0.35	0.80	8.58	0.184	2.80
K295357		620	156.0	254	0.002	2.58	11.10	10.9	1	4.1	53.8	0.41	0.62	10.35	0.222	3.66
K295358		570	228	217	<0.002	3.84	8.47	9.9	1	6.3	68.6	0.46	1.24	10.65	0.216	2.97
K295359		630	704	202	0.002	2.21	11.00	10.6	1	7.1	130.0	0.50	0.54	12.80	0.262	3.29
K295360		670	45.7	87.6	<0.002	0.82	6.52	10.5	1	2.6	463	0.47	0.29	7.37	0.276	1.77

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295321		3.1	58	3.0	15.1	273	33.2	0.116
K295322		1.8	14	2.2	11.2	69	59.6	<0.005
K295323		2.5	15	2.3	12.9	54	67.7	<0.005
K295324		2.7	14	2.1	12.0	59	63.2	<0.005
K295325		2.6	14	1.7	13.5	76	64.6	<0.005
K295326		2.1	14	1.4	14.3	57	55.0	<0.005
K295327		3.5	60	2.1	13.0	487	32.6	0.037
K295328		1.2	79	0.6	13.0	5160	53.8	0.287
K295329		3.3	62	1.9	12.7	221	28.8	0.041
K295330		3.2	70	2.3	11.1	1360	34.1	0.152
K295331		5.5	78	1.2	13.6	102	118.0	0.031
K295332		4.1	67	1.8	14.4	210	31.8	0.074
K295333		3.1	81	1.8	13.3	71	115.0	<0.005
K295334		0.1	1	<0.1	1.9	3	1.5	<0.005
K295335		3.6	67	1.3	12.0	73	83.9	<0.005
K295336		19.8	71	2.4	12.6	132	98.1	0.016
K295337		3.6	83	1.6	13.2	72	117.5	<0.005
K295338		4.7	73	3.2	14.1	411	41.5	0.038
K295339		5.5	49	1.6	10.4	296	127.5	0.066
K295340		4.0	61	3.7	12.7	1240	26.9	0.336
K295341		4.1	61	4.0	13.1	1240	27.5	0.293
K295342		5.6	69	3.5	14.4	307	25.9	0.079
K295343		16.1	51	1.1	11.5	137	155.0	0.045
K295344		3.7	51	1.6	10.6	78	102.5	<0.005
K295345		3.2	50	1.3	10.6	87	58.6	<0.005
K295346		4.0	54	1.7	11.2	176	79.0	0.008
K295347		4.3	54	1.7	12.4	219	94.2	0.005
K295348		4.5	55	1.7	13.4	250	98.1	0.005
K295349		5.8	55	1.7	13.1	196	100.5	0.005
K295350		4.6	52	1.5	11.8	168	162.0	0.017
K295351		4.8	50	1.5	10.4	85	161.5	0.015
K295352		4.3	66	4.1	12.7	836	24.6	0.202
K295353		3.3	77	3.2	15.0	96	19.6	0.097
K295354		3.2	82	4.9	13.5	841	21.0	0.103
K295355		5.1	56	7.0	8.9	3400	23.2	1.795
K295356		2.5	73	2.9	9.3	725	17.1	0.156
K295357		2.1	74	2.7	10.6	467	18.5	0.080
K295358		3.1	67	3.5	9.0	856	18.6	0.182
K295359		4.0	72	3.8	12.6	1960	19.9	0.326
K295360		2.6	77	2.0	13.4	155	18.5	0.069

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251796

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251802

Project: Klaza

P.O. No.: 19-077

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251802

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593892		2.87	0.11	7.63	5.1	2380	1.68	0.10	2.73	0.13	46.0	7.5	9	10.35	10.9	2.91
W593893		0.96	0.20	6.62	19.7	2080	1.54	0.14	3.39	0.11	41.8	8.2	7	21.2	9.4	2.54
W593894		6.46	0.11	7.72	5.2	2330	1.64	0.09	2.51	0.14	46.1	7.6	8	10.75	13.1	2.82
W593895		1.80	0.09	7.88	4.7	2350	1.70	0.09	2.88	0.12	55.7	8.2	7	10.10	16.3	2.88
W593896		1.91	0.09	7.41	4.4	2320	1.69	0.08	2.96	0.12	40.7	7.5	9	9.70	16.7	2.82
W593897		2.27	0.20	7.01	8.9	1700	1.68	0.32	2.84	0.10	41.8	7.4	16	14.75	10.5	2.63
W593898		5.78	0.11	7.59	4.8	2320	1.75	0.12	2.65	0.24	46.5	7.3	8	10.50	11.7	2.80
W593899		1.79	0.11	6.74	10.9	2280	1.49	0.09	3.06	0.21	39.0	6.9	7	12.55	12.8	2.73
W593900		6.78	0.10	7.54	5.5	2430	1.79	0.09	2.66	0.13	47.5	7.5	9	7.45	8.7	2.85
W593901		4.45	0.08	7.16	5.0	2110	1.58	0.08	2.64	0.14	39.5	6.9	7	13.05	7.5	2.71
W593902		2.68	0.09	8.03	7.1	4380	1.60	0.09	1.57	0.13	57.0	8.2	9	16.25	8.9	2.98
W593903		3.38	0.10	7.65	5.3	2380	1.78	0.07	2.65	0.14	47.0	8.0	10	10.20	7.0	2.97
W593904		0.26	40.4	5.99	2670	920	1.34	36.5	1.75	49.5	40.5	18.4	22	10.95	1200	9.36
W593905		3.73	0.12	7.64	5.7	1950	1.59	0.12	2.57	0.13	46.0	7.1	8	12.35	7.5	2.76
W593906		4.28	0.07	7.03	5.0	1840	1.58	0.12	2.79	0.12	38.0	7.2	7	16.50	8.8	2.72
W593907		1.56	0.19	6.54	10.9	1980	1.43	0.25	5.48	0.16	48.5	8.4	6	15.25	16.6	3.67
W593908		4.89	0.07	7.14	4.7	1810	1.78	0.10	2.78	0.11	38.9	6.9	10	16.10	10.0	2.76
W593909		9.42	0.09	7.73	19.2	1220	1.69	0.29	1.08	0.44	38.3	6.7	9	35.8	10.2	2.57
W593910		4.56	0.33	5.75	53.6	550	1.87	0.28	2.78	0.47	30.7	7.4	6	19.05	21.7	2.83
W593911		3.37	0.14	6.40	23.7	2130	1.49	0.08	2.72	0.22	35.2	7.6	8	15.30	7.9	2.57
W593912		<0.02	0.13	6.66	23.0	2310	1.54	0.14	2.80	0.25	36.4	7.4	8	15.40	7.8	2.61
W593913		6.05	0.10	7.90	9.3	2610	1.58	0.13	1.69	0.21	39.3	7.0	8	33.0	10.5	3.03
W593914		3.85	0.06	7.03	8.8	2710	1.46	0.12	2.28	0.10	35.8	6.7	7	24.1	6.6	2.63
W593915		7.15	0.09	8.02	5.3	2390	1.42	0.14	1.56	0.11	48.4	8.1	8	21.1	12.0	3.16
W593916		5.97	0.06	7.80	4.7	2360	1.65	0.09	2.89	0.10	49.8	8.2	10	18.00	9.5	3.19
W593917		3.13	0.08	8.32	5.4	2140	1.41	0.10	1.29	0.10	57.1	7.0	8	17.55	8.2	2.87
W593918		2.88	0.10	6.82	16.2	2700	1.49	0.08	4.40	0.23	48.0	7.5	7	17.85	8.3	3.08
W593919		4.94	0.07	7.82	5.9	1710	1.25	0.10	1.09	0.09	50.3	7.7	8	15.80	13.5	2.76
W593920		3.26	0.07	7.36	8.5	2130	1.42	0.09	1.61	0.10	47.9	7.8	7	16.10	9.1	2.79
W593921		6.23	0.05	7.16	3.1	2120	1.95	0.08	2.69	0.07	47.2	7.4	10	16.00	8.7	2.76
W593922		0.13	30.1	6.77	144.0	110	0.67	10.00	6.09	35.7	27.5	93.6	115	1.52	6740	9.52
W593923		2.78	0.11	6.37	9.2	2370	1.85	0.13	3.52	0.11	30.6	7.9	8	16.90	16.9	2.84
W593924		2.92	0.07	7.19	5.3	2360	1.79	0.11	2.80	0.08	40.3	7.7	8	21.5	12.0	2.93
W593925		9.10	0.07	7.46	7.3	2490	1.82	0.13	2.45	0.09	44.3	8.0	11	16.65	13.6	3.00
W593926		3.88	0.06	7.19	6.8	2210	1.68	0.16	2.70	0.09	42.9	8.1	9	14.05	8.9	2.97
W593927		5.35	0.07	7.59	6.8	2340	1.75	0.20	2.42	0.07	47.2	7.3	9	16.65	12.5	2.81
W593928		4.55	0.09	6.24	22.6	1640	1.35	0.14	4.76	0.13	41.8	8.1	7	11.80	16.7	2.79
W593929		4.79	0.01	0.19	<0.2	30	0.14	0.02	34.3	<0.02	1.27	1.1	1	0.09	5.4	0.16
W593930		4.52	0.07	7.49	4.6	2280	1.61	0.10	2.57	0.07	51.3	7.6	11	14.15	8.0	2.89
W593931		4.14	0.08	6.34	11.1	2300	1.32	0.13	2.74	0.12	35.4	7.4	8	16.05	10.5	2.64

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251802

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593892		17.90	0.12	1.3	0.038	2.86	22.8	16.8	0.78	709	0.92	2.39	8.2	2.3	600	23.9
W593893		15.75	0.11	1.1	0.030	2.56	22.0	13.6	0.68	719	0.67	0.91	7.0	2.1	500	22.9
W593894		18.05	0.12	1.3	0.037	2.88	23.3	23.3	0.75	765	1.13	2.04	8.4	2.3	630	22.6
W593895		18.45	0.12	1.4	0.038	2.87	27.6	16.9	0.79	733	0.83	2.40	8.5	2.3	620	20.4
W593896		17.00	0.11	1.4	0.033	2.83	20.1	14.8	0.73	725	0.78	2.35	8.0	2.2	590	21.5
W593897		16.90	0.13	1.3	0.048	3.06	21.1	20.8	0.70	1140	0.78	1.06	8.0	2.1	570	20.4
W593898		17.40	0.13	1.4	0.037	2.88	23.6	14.5	0.73	746	0.71	2.29	8.1	2.1	590	37.2
W593899		16.65	0.11	1.5	0.032	2.95	19.4	68.0	0.77	965	0.57	0.88	8.1	2.0	560	21.1
W593900		17.50	0.13	1.4	0.037	2.88	23.8	17.3	0.77	699	0.69	2.50	8.3	2.3	600	22.9
W593901		16.70	0.11	1.4	0.038	2.87	19.7	29.3	0.71	714	0.57	1.62	7.9	2.1	570	22.1
W593902		18.60	0.15	1.5	0.037	3.04	29.7	33.2	0.69	839	0.67	0.99	8.8	2.4	650	21.5
W593903		17.95	0.14	1.5	0.041	2.80	23.5	21.7	0.80	701	0.72	2.42	8.6	2.4	620	22.2
W593904		16.10	0.13	0.9	1.695	2.72	21.9	18.8	0.70	2320	17.15	0.06	5.1	15.2	460	1695
W593905		17.30	0.11	1.2	0.034	2.96	23.1	25.0	0.63	734	1.16	1.66	8.2	2.1	610	21.2
W593906		17.10	0.12	1.2	0.033	2.98	18.4	136.5	0.81	763	0.81	0.77	8.1	2.1	600	15.3
W593907		14.15	0.13	1.0	0.034	3.09	26.7	26.4	1.54	2060	1.34	0.06	6.3	2.1	480	12.9
W593908		17.95	0.12	1.4	0.033	3.04	19.3	107.0	0.73	815	0.66	0.92	8.7	2.2	600	15.2
W593909		17.95	0.11	1.4	0.040	2.34	19.2	243	0.14	1320	2.18	0.05	8.4	2.2	660	16.3
W593910		15.60	0.10	1.4	0.034	2.29	15.1	165.0	0.35	2220	2.55	0.03	7.3	2.4	560	37.3
W593911		16.30	0.11	1.4	0.034	1.59	16.8	190.5	0.57	2590	1.10	0.02	7.6	2.8	590	25.8
W593912		16.25	0.08	1.4	0.030	1.61	17.5	187.0	0.59	2620	1.04	0.02	7.5	2.4	600	26.5
W593913		18.45	0.10	1.5	0.039	2.68	19.0	125.0	0.41	1190	0.66	0.07	8.6	2.2	710	17.6
W593914		17.20	0.10	1.5	0.035	3.00	18.0	105.0	0.49	746	0.56	0.09	7.9	2.1	590	14.9
W593915		18.85	0.13	1.5	0.041	3.09	23.7	35.1	0.24	839	1.00	0.60	8.8	2.5	640	18.9
W593916		17.80	0.11	1.6	0.043	2.87	25.0	31.2	0.90	774	1.04	2.47	8.3	2.4	670	16.3
W593917		18.15	0.14	1.8	0.032	3.10	30.3	31.0	0.34	742	1.01	0.53	8.6	2.2	610	18.1
W593918		15.35	0.11	1.5	0.026	2.80	25.1	29.9	1.11	1760	0.91	0.07	7.1	2.3	530	15.1
W593919		17.55	0.11	1.8	0.040	2.69	26.2	34.8	0.38	722	1.77	0.11	8.8	5.5	600	20.0
W593920		17.10	0.12	1.8	0.037	2.66	24.3	36.8	0.41	779	0.98	0.41	9.3	2.5	600	17.6
W593921		16.35	0.12	1.9	0.032	2.68	23.9	24.1	0.62	631	1.08	2.17	9.0	2.6	560	17.9
W593922		12.20	0.16	0.8	2.61	1.00	14.1	9.7	2.18	876	59.9	0.83	3.1	369	710	8680
W593923		16.95	0.12	1.6	0.034	2.70	14.6	19.9	0.43	751	2.57	1.65	8.3	2.6	590	22.4
W593924		17.20	0.12	1.5	0.044	2.75	19.4	24.3	0.47	661	1.49	1.99	8.4	2.8	620	17.7
W593925		17.55	0.14	1.4	0.038	2.78	21.5	24.6	0.86	682	1.29	2.53	8.7	2.6	640	16.9
W593926		16.55	0.12	1.4	0.042	2.73	21.3	19.0	0.76	701	1.05	2.26	8.5	2.7	640	15.6
W593927		16.75	0.14	1.6	0.034	2.75	24.7	15.9	0.55	590	1.18	2.10	8.4	2.5	620	17.0
W593928		15.50	0.13	1.3	0.044	2.51	20.5	29.9	0.85	1270	1.31	0.46	7.7	2.3	550	16.9
W593929		0.59	0.06	0.1	<0.005	0.03	1.3	1.4	1.94	127	0.16	0.10	0.4	1.0	80	0.9
W593930		17.10	0.13	1.5	0.038	2.89	25.7	21.2	0.79	668	1.26	2.38	8.7	2.6	600	17.3
W593931		16.05	0.09	1.4	0.037	2.72	16.9	25.4	0.46	778	1.25	0.86	8.2	2.4	560	17.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251802

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593892		94.4	<0.002	0.01	4.12	10.8	1	1.8	392	0.63	<0.05	13.05	0.265	1.02	4.2	71
W593893		89.5	<0.002	0.22	31.2	8.9	1	1.5	218	0.56	<0.05	11.40	0.222	1.12	4.0	59
W593894		99.2	<0.002	0.02	5.52	10.8	1	2.1	346	0.67	<0.05	13.00	0.268	1.11	3.8	71
W593895		109.5	<0.002	0.02	4.23	11.5	1	2.6	391	0.67	<0.05	14.70	0.268	1.02	4.6	70
W593896		90.5	<0.002	0.01	4.36	10.1	1	2.5	377	0.63	<0.05	12.10	0.260	0.99	3.9	68
W593897		115.0	<0.002	0.12	10.70	9.9	<1	1.9	187.0	0.64	<0.05	12.65	0.247	1.70	4.5	66
W593898		106.0	<0.002	0.03	4.25	10.6	<1	1.9	353	0.63	<0.05	13.85	0.254	1.06	4.3	67
W593899		91.1	<0.002	0.08	14.15	9.4	<1	2.0	232	0.70	<0.05	11.05	0.246	1.33	4.0	67
W593900		95.3	<0.002	0.01	2.08	10.5	1	1.7	397	0.69	<0.05	13.20	0.259	1.04	4.4	69
W593901		92.7	<0.002	0.02	7.96	9.7	1	1.6	299	0.66	<0.05	11.80	0.253	1.12	3.7	66
W593902		128.0	<0.002	0.11	14.20	11.8	1	1.8	178.5	0.69	<0.05	15.45	0.271	1.40	4.1	74
W593903		96.1	<0.002	0.01	1.82	11.0	1	1.8	399	0.70	<0.05	12.85	0.267	0.99	4.6	72
W593904		159.5	0.004	8.08	114.5	9.2	2	11.5	68.5	0.43	0.75	9.83	0.177	2.32	5.9	58
W593905		112.5	<0.002	0.09	5.77	10.4	1	1.6	284	0.66	<0.05	13.65	0.268	1.22	3.7	69
W593906		98.9	<0.002	0.06	12.45	9.6	<1	1.7	240	0.63	<0.05	10.75	0.258	1.47	3.4	68
W593907		146.0	0.002	0.25	25.0	8.7	1	2.4	158.5	0.51	<0.05	12.55	0.209	1.83	6.2	56
W593908		102.5	<0.002	0.06	14.60	10.3	1	2.1	216	0.70	<0.05	11.65	0.264	1.59	3.6	71
W593909		108.0	<0.002	0.01	48.7	11.0	1	1.7	180.0	0.66	<0.05	12.00	0.278	1.38	2.7	70
W593910		86.8	<0.002	0.32	63.3	8.7	1	2.3	173.0	0.55	<0.05	8.22	0.237	1.63	3.7	69
W593911		47.2	<0.002	0.16	36.4	9.3	1	1.6	308	0.60	<0.05	9.37	0.246	1.36	4.2	68
W593912		50.3	<0.002	0.16	35.6	9.3	1	1.6	312	0.58	<0.05	9.72	0.250	1.38	4.4	68
W593913		96.9	<0.002	0.04	30.8	11.4	<1	2.2	120.0	0.64	<0.05	11.00	0.309	1.44	2.6	82
W593914		97.7	<0.002	0.03	16.05	9.6	1	1.7	156.0	0.61	<0.05	10.35	0.257	1.62	3.2	68
W593915		128.0	<0.002	0.01	25.9	11.8	1	2.0	121.0	0.64	<0.05	12.95	0.283	1.33	3.1	74
W593916		105.5	<0.002	0.01	1.15	12.3	1	1.8	413	0.65	<0.05	12.55	0.288	1.05	2.2	83
W593917		127.5	<0.002	0.01	20.5	10.8	1	1.8	105.5	0.71	<0.05	16.95	0.266	1.26	2.8	69
W593918		106.0	<0.002	0.13	13.90	9.4	1	1.6	111.5	0.59	<0.05	12.55	0.228	1.85	4.2	63
W593919		116.5	<0.002	0.03	19.50	11.0	1	2.0	62.6	0.75	<0.05	15.20	0.260	1.28	3.5	70
W593920		111.0	<0.002	0.04	20.7	10.7	<1	1.8	85.1	0.77	<0.05	13.95	0.259	1.34	3.3	68
W593921		109.5	<0.002	0.01	1.46	10.5	1	1.8	345	0.80	<0.05	13.05	0.246	1.05	2.5	67
W593922		23.9	0.017	6.35	31.8	12.9	14	6.9	153.5	0.22	0.69	2.96	0.206	2.51	5.6	397
W593923		85.6	<0.002	0.04	6.16	9.2	<1	2.4	265	0.63	<0.05	8.40	0.259	1.35	2.8	71
W593924		99.5	<0.002	0.01	5.79	10.8	<1	2.1	317	0.60	<0.05	10.00	0.267	1.12	1.9	74
W593925		96.9	<0.002	0.01	1.47	11.0	<1	2.3	466	0.64	<0.05	11.30	0.275	1.19	2.1	74
W593926		96.6	<0.002	0.01	2.48	11.0	<1	1.7	330	0.67	<0.05	10.80	0.268	1.27	2.3	73
W593927		107.5	<0.002	0.01	5.02	10.9	1	1.7	345	0.65	<0.05	13.15	0.265	1.14	3.0	71
W593928		89.5	<0.002	0.08	15.05	9.8	1	1.6	157.5	0.59	<0.05	10.35	0.234	1.48	3.4	68
W593929		0.8	<0.002	0.01	0.11	0.5	1	<0.2	81.9	<0.05	<0.05	0.17	0.013	0.02	0.2	3
W593930		107.5	<0.002	0.01	1.14	10.9	1	1.5	383	0.67	<0.05	14.50	0.265	1.23	2.3	70
W593931		91.6	<0.002	0.04	13.50	9.1	<1	1.7	166.0	0.63	<0.05	9.99	0.243	1.40	3.3	66

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251802

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593892		2.2	17.1	65	35.7	<0.005
W593893		2.5	12.0	61	30.7	<0.005
W593894		2.6	16.9	64	36.9	<0.005
W593895		1.8	19.5	62	40.7	<0.005
W593896		1.6	15.9	61	38.0	<0.005
W593897		2.4	15.0	55	36.9	<0.005
W593898		1.7	16.1	74	40.4	<0.005
W593899		2.2	15.3	66	40.7	<0.005
W593900		1.3	16.9	64	39.8	<0.005
W593901		2.1	14.4	63	39.0	<0.005
W593902		3.2	17.1	68	41.8	<0.005
W593903		1.5	18.0	64	42.8	<0.005
W593904		7.9	10.5	3450	27.2	1.840
W593905		1.9	14.8	62	34.3	<0.005
W593906		2.5	12.6	61	34.5	<0.005
W593907		1.7	17.5	64	30.7	<0.005
W593908		2.0	18.1	63	38.2	<0.005
W593909		6.1	14.5	82	39.8	<0.005
W593910		4.4	14.2	74	44.5	0.013
W593911		2.7	13.3	52	43.1	0.005
W593912		2.6	13.9	54	42.0	0.008
W593913		3.6	15.4	74	44.6	<0.005
W593914		1.8	14.1	56	44.1	<0.005
W593915		3.9	17.0	66	45.7	<0.005
W593916		1.7	19.1	65	47.2	<0.005
W593917		4.7	19.4	59	50.2	<0.005
W593918		2.5	18.1	84	42.9	<0.005
W593919		5.0	17.5	58	50.1	<0.005
W593920		4.3	17.6	57	51.2	<0.005
W593921		1.4	18.2	57	54.3	<0.005
W593922		6.4	11.6	8050	28.4	1.605
W593923		2.2	13.8	61	49.3	<0.005
W593924		2.1	15.8	60	47.2	<0.005
W593925		1.4	16.7	59	41.9	<0.005
W593926		1.3	16.7	56	38.6	<0.005
W593927		1.4	17.0	52	46.1	<0.005
W593928		3.6	17.4	53	38.2	<0.005
W593929		<0.1	2.9	5	2.8	<0.005
W593930		1.3	18.6	59	41.2	<0.005
W593931		1.8	16.0	54	41.7	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251802

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251813

Project: Klaza

P.O. No.: 19-078

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251813

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295361		3.65			0.39	6.66	38.0	2700	1.52	2.21	2.61	0.45	37.2	10.0	10	13.10
K295362		4.00			1.41	6.67	88.1	1630	1.65	1.68	3.14	1.27	37.3	7.0	9	17.50
K295363		5.64			0.11	6.65	16.3	2610	2.00	0.15	3.62	0.45	43.6	4.6	5	28.7
K295364		3.99			0.11	6.45	16.0	2840	2.12	0.18	3.71	0.51	40.8	4.8	5	27.1
K295365		3.72			1.17	6.97	66.9	1960	1.87	3.25	2.95	1.36	38.0	10.2	9	16.50
K295366		2.03			15.50	7.69	122.5	1220	1.84	4.01	2.63	5.06	51.7	7.3	9	20.9
K295367		1.56			2.59	7.77	106.5	1140	1.77	3.91	2.60	2.83	49.0	7.5	10	20.6
K295368		4.39			6.33	6.34	229	360	1.56	4.20	4.11	71.1	44.8	7.0	7	17.15
K295369		4.34			1.68	6.82	79.5	2160	1.45	2.41	3.89	2.84	44.1	11.0	9	22.5
K295370		5.24			0.27	7.24	34.1	2390	1.62	0.98	2.89	0.29	40.1	10.7	12	16.05
K295371		5.34			0.32	7.21	23.4	2510	1.66	1.30	3.03	0.35	41.4	8.8	12	14.35
K295372		4.09			0.20	8.07	17.3	3000	1.72	0.81	2.92	0.10	43.7	8.5	13	13.80
K295373		3.25			0.18	7.42	20.2	2260	2.26	0.78	2.65	0.09	40.8	7.3	9	15.60
K295374		0.27	105	1.040	>100	5.49	246	460	0.76	5.16	1.44	25.3	19.65	12.4	63	0.91
K295375		4.04			1.38	7.37	64.0	1760	1.71	2.60	3.44	0.57	46.6	13.6	10	18.85
K295376		4.12			0.88	7.52	58.2	2340	1.46	1.41	2.34	0.28	49.3	15.2	9	18.20
K295377		2.33			8.44	6.98	248	120	1.33	7.03	0.80	7.71	61.5	9.1	9	8.65
K295378		2.60			3.62	7.24	106.0	130	1.45	3.87	0.24	1.27	58.3	11.1	11	7.01
K295379		2.62			1.76	7.95	149.5	740	2.12	2.09	1.89	10.30	55.6	10.5	10	19.35
K295380		5.12			0.18	7.18	18.7	2480	1.79	1.50	2.85	0.10	36.7	7.2	12	16.95
K295381		<0.02			0.16	6.82	17.9	2380	1.72	1.36	2.70	0.14	35.4	6.9	10	16.95
K295382		6.95			0.10	6.94	13.3	2410	1.50	0.94	2.78	0.09	37.5	8.0	12	15.15
K295383		5.81			0.14	6.87	11.6	2750	1.50	0.61	2.71	0.18	33.6	6.2	10	11.55
K295384		5.86			0.21	6.78	27.1	2820	1.44	0.98	2.92	0.15	40.5	4.9	11	14.45
K295385		5.61			0.18	7.44	20.4	2560	1.60	1.42	2.91	0.13	42.8	9.1	10	16.05
K295386		0.26	104	1.010	>100	5.65	245	560	0.67	4.97	1.51	24.6	19.75	11.7	63	0.92
K295387		5.59			0.39	7.56	18.5	2540	1.34	1.32	2.68	0.44	43.0	6.8	10	15.85
K295388		5.02			0.26	6.82	25.1	2010	1.53	1.30	2.73	0.28	38.8	5.9	9	18.05
K295389		1.23			5.35	6.74	401	150	1.18	612	1.75	0.71	43.5	12.7	9	9.83
K295390		3.28			0.32	7.70	23.2	2640	1.74	2.64	2.57	0.44	47.0	7.8	10	15.70
K295391		4.19			0.47	7.42	32.5	2190	1.37	3.70	2.30	0.31	43.6	9.0	12	17.45
K295392		4.71			0.54	7.67	20.7	2480	1.57	5.30	2.11	0.26	40.7	7.0	10	13.10
K295393		4.99			0.15	7.62	9.6	2370	1.72	1.68	2.67	0.11	41.5	8.1	10	11.20
K295394		5.26			1.16	7.81	56.6	1920	1.65	6.42	2.48	2.34	46.1	8.8	11	10.75
K295395		5.02			0.01	0.12	<0.2	30	0.07	0.07	35.2	0.02	1.09	0.6	1	0.07
K295396		4.21			0.45	7.58	16.8	2290	1.58	3.68	2.82	0.66	49.5	8.9	12	10.10
K295397		4.44			0.31	7.82	14.9	2490	1.45	3.74	2.66	0.10	47.9	10.1	13	9.52
K295398		4.29			0.25	7.46	10.4	2370	1.50	0.97	2.68	0.10	50.6	9.5	12	9.26
K295399		4.67			0.21	7.47	13.2	2110	1.49	1.92	2.57	0.12	45.0	8.2	9	10.50
K295400		4.51			0.14	7.30	19.3	2040	1.55	0.24	2.56	0.11	42.6	7.9	13	12.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295361		28.9	2.95	16.00	0.11	0.8	0.213	2.59	18.3	17.8	0.62	488	1.47	1.59	7.6	2.7
K295362		105.5	3.13	16.80	0.11	0.9	0.227	2.24	18.2	77.9	0.82	712	2.68	1.07	8.4	2.6
K295363		3.3	2.44	19.35	0.12	2.3	0.032	2.66	20.5	29.1	0.68	661	0.92	0.09	10.1	1.9
K295364		5.4	2.35	19.65	0.13	2.2	0.042	2.66	18.7	31.3	0.62	734	0.94	0.09	10.3	2.0
K295365		47.6	3.16	16.85	0.12	1.0	0.142	2.44	17.9	90.3	0.70	518	2.43	0.83	7.9	2.6
K295366		136.5	3.12	18.15	0.15	0.9	0.196	3.02	26.8	58.1	0.92	964	1.61	0.22	8.2	2.8
K295367		121.0	3.22	17.80	0.14	0.9	0.185	3.06	25.1	78.3	0.90	1080	1.37	0.25	8.0	2.8
K295368		99.7	4.01	14.70	0.11	0.8	0.401	2.80	23.8	15.9	1.47	2690	32.9	0.04	6.2	2.5
K295369		54.9	3.25	15.95	0.11	0.9	0.196	2.52	23.1	16.1	1.32	795	16.30	0.61	7.4	3.0
K295370		55.3	3.05	17.15	0.13	1.0	0.110	2.53	20.4	19.6	0.77	547	1.67	1.88	8.1	2.6
K295371		44.6	3.19	17.65	0.13	1.0	0.125	2.68	20.5	15.9	0.77	573	1.76	1.85	8.6	2.9
K295372		66.1	3.38	18.90	0.13	1.0	0.133	2.88	21.2	19.7	0.77	513	1.38	2.19	9.2	2.8
K295373		42.3	3.61	16.60	0.11	1.0	0.111	2.61	18.8	37.0	0.84	622	1.40	0.54	8.6	2.5
K295374		6040	5.68	12.55	0.08	1.5	0.430	1.14	9.5	14.5	1.10	1660	21.5	1.61	3.4	27.6
K295375		83.1	3.21	17.35	0.12	1.0	0.165	3.13	24.0	23.5	0.93	823	4.28	0.07	8.1	2.6
K295376		81.8	3.26	17.55	0.11	0.9	0.179	3.21	25.9	12.2	0.90	685	1.44	0.06	8.3	2.6
K295377		49.3	5.02	18.35	0.14	0.8	0.310	3.35	30.7	11.9	0.52	544	1.80	0.05	6.6	2.7
K295378		67.6	4.76	19.15	0.12	0.9	0.224	3.64	28.2	8.6	0.33	115	13.15	0.05	6.3	2.6
K295379		35.1	4.05	18.90	0.14	1.0	0.698	3.41	29.3	24.0	0.81	1850	1.21	0.05	8.9	2.9
K295380		24.1	3.20	16.50	0.12	1.0	0.105	3.08	18.4	28.5	0.82	676	1.17	1.02	8.4	2.5
K295381		23.0	3.02	15.95	0.11	1.0	0.106	2.92	17.5	27.6	0.77	641	1.16	0.98	8.2	2.4
K295382		11.3	2.99	16.15	0.12	0.9	0.076	2.71	18.2	16.8	0.73	601	2.76	1.66	7.9	2.7
K295383		21.1	2.98	15.95	0.12	0.8	0.076	2.64	16.7	19.9	0.74	541	1.11	1.84	7.7	2.5
K295384		26.2	2.76	15.60	0.08	1.0	0.102	2.62	20.2	14.6	0.84	604	7.65	1.27	7.1	2.7
K295385		20.5	3.02	15.80	0.08	1.0	0.134	2.80	21.3	15.8	0.68	480	6.45	1.54	8.3	2.7
K295386		6200	5.88	12.05	0.05	1.5	0.442	1.18	9.4	11.3	1.15	1720	21.8	1.66	3.4	28.5
K295387		30.2	3.03	15.70	0.08	1.1	0.103	2.74	21.6	37.0	0.70	614	3.17	0.23	8.0	2.4
K295388		34.6	2.89	16.00	0.08	1.0	0.134	2.75	19.3	41.6	0.67	751	1.48	0.86	7.7	2.4
K295389		127.5	8.34	18.00	0.08	0.9	0.501	3.06	22.1	7.9	0.44	477	2.46	0.31	6.1	3.4
K295390		40.4	3.37	17.30	0.08	1.1	0.173	2.92	23.3	21.9	0.72	590	2.52	1.15	8.8	3.2
K295391		50.7	2.13	16.45	0.09	1.0	0.154	3.29	22.1	19.6	0.55	543	2.36	0.65	7.7	3.3
K295392		55.2	2.69	16.75	0.08	1.1	0.166	2.90	19.6	31.3	0.61	493	1.67	0.39	9.5	2.4
K295393		30.2	3.17	16.80	0.11	1.0	0.091	2.69	20.9	16.9	0.82	524	1.95	2.04	9.0	2.8
K295394		104.5	3.59	16.95	0.12	1.0	0.194	3.16	24.0	16.0	0.80	760	2.59	1.14	8.0	2.7
K295395		1.9	0.14	0.35	0.06	0.1	0.005	0.02	1.2	1.1	2.23	132	0.06	0.06	0.1	0.4
K295396		72.5	3.07	17.60	0.13	1.0	0.117	2.69	25.8	13.2	0.85	551	6.47	2.19	9.1	3.1
K295397		46.8	3.23	17.80	0.10	1.0	0.153	2.86	25.0	15.4	0.98	558	2.26	2.30	9.3	3.1
K295398		52.6	2.96	17.55	0.13	1.0	0.094	2.69	25.9	16.9	0.87	563	5.35	2.25	9.0	3.0
K295399		48.0	3.03	16.40	0.09	1.1	0.074	2.67	22.5	18.2	0.80	563	2.55	1.98	8.5	2.8
K295400		24.5	2.82	16.85	0.10	1.2	0.054	2.73	21.5	18.0	0.73	548	2.08	2.05	9.0	2.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295361		600	21.8	99.9	<0.002	0.93	5.64	10.9	1	2.3	384	0.59	0.67	8.28	0.253	1.36
K295362		640	50.5	87.3	0.002	0.93	16.80	11.2	1	3.1	380	0.59	0.26	8.91	0.273	1.73
K295363		850	20.3	76.0	<0.002	0.05	6.85	5.2	1	1.5	274	0.70	<0.05	7.13	0.316	1.56
K295364		840	21.2	70.5	<0.002	0.05	6.35	5.1	<1	1.8	294	0.70	<0.05	6.43	0.318	1.63
K295365		650	42.5	85.3	0.006	1.13	9.45	10.7	1	3.2	315	0.60	1.00	8.76	0.271	1.56
K295366		690	155.0	151.5	<0.002	1.87	13.30	13.0	1	4.0	199.5	0.51	8.62	12.35	0.272	2.29
K295367		680	111.5	148.0	0.003	1.87	12.15	12.9	1	3.0	210	0.53	0.79	12.20	0.277	2.42
K295368		500	753	154.5	0.101	3.02	13.90	9.4	1	7.0	140.5	0.45	0.69	10.30	0.207	2.57
K295369		590	120.5	98.8	0.033	1.14	9.90	10.9	1	2.3	291	0.51	0.58	11.55	0.248	1.86
K295370		620	20.6	88.3	<0.002	0.47	4.33	11.9	1	1.8	422	0.56	0.21	12.05	0.276	1.27
K295371		660	26.0	91.5	<0.002	0.48	5.87	11.8	1	2.1	405	0.64	0.31	11.60	0.281	1.43
K295372		720	18.7	95.7	0.002	0.38	5.32	13.0	1	2.3	450	0.62	0.19	13.35	0.310	1.41
K295373		690	16.0	80.3	<0.002	0.35	6.68	11.8	<1	4.3	206	0.65	0.13	11.30	0.294	1.46
K295374		450	10000	28.5	0.009	2.29	452	12.7	2	1.9	190.5	0.22	1.37	2.06	0.241	0.54
K295375		640	41.1	141.5	0.004	1.41	8.85	11.9	1	2.3	152.5	0.60	0.81	10.90	0.273	2.43
K295376		650	13.7	145.0	0.003	1.14	6.81	12.4	1	2.2	137.5	0.57	0.38	12.40	0.272	2.47
K295377		610	304	172.0	0.002	5.09	14.20	11.3	1	9.8	47.1	0.48	0.55	12.70	0.217	2.72
K295378		660	91.8	164.0	0.005	4.98	9.07	11.0	1	9.6	18.5	0.58	0.66	10.45	0.212	2.41
K295379		670	229	179.0	<0.002	2.20	8.72	12.4	1	4.7	76.8	0.77	0.32	14.35	0.270	2.97
K295380		640	14.7	113.0	<0.002	0.93	5.54	10.9	<1	2.2	281	0.82	0.25	9.87	0.270	1.91
K295381		610	14.1	106.5	<0.002	0.85	5.25	10.5	1	2.1	268	0.79	0.20	9.53	0.258	1.76
K295382		630	16.6	97.2	0.005	0.38	2.39	11.1	<1	1.9	353	0.60	0.20	9.46	0.271	1.47
K295383		610	18.9	81.0	<0.002	0.42	3.25	10.2	<1	2.1	382	0.53	0.10	8.03	0.266	1.23
K295384		600	16.6	99.9	0.015	0.71	5.53	9.8	<1	2.5	283	0.51	0.16	10.35	0.253	1.77
K295385		660	17.2	89.9	0.007	0.72	5.62	10.5	1	4.1	333	0.78	0.32	12.00	0.272	1.29
K295386		470	>10000	28.1	0.010	2.39	473	12.0	2	1.9	196.5	0.21	1.27	1.99	0.249	0.51
K295387		640	27.8	87.4	0.003	1.03	7.82	10.3	1	2.4	151.0	0.70	0.33	11.20	0.269	1.42
K295388		570	17.8	85.0	<0.002	0.34	7.46	9.9	<1	1.9	219	0.62	0.16	11.15	0.250	1.65
K295389		530	422	135.0	<0.002	8.44	9.63	9.7	1	6.6	87.1	0.47	3.41	11.35	0.208	2.21
K295390		700	20.3	99.3	0.002	0.53	5.54	11.4	1	2.3	255	0.65	0.18	12.85	0.283	1.62
K295391		640	25.8	117.0	<0.002	0.78	29.7	10.5	1	2.2	184.0	0.55	0.23	11.55	0.259	1.61
K295392		670	26.7	87.9	<0.002	0.70	12.45	11.0	1	1.9	134.5	0.80	0.37	11.15	0.281	1.34
K295393		650	17.5	85.1	<0.002	0.30	2.72	11.3	1	1.9	362	0.62	0.14	12.50	0.280	1.09
K295394		650	74.9	134.5	<0.002	1.58	8.10	12.1	1	3.0	219	0.59	1.39	13.35	0.266	1.94
K295395		70	1.0	0.6	<0.002	0.01	0.10	0.2	1	<0.2	79.4	<0.05	<0.05	0.14	0.006	<0.02
K295396		640	25.6	102.0	<0.002	0.38	2.97	12.1	1	2.8	382	0.60	0.36	13.80	0.275	1.27
K295397		680	16.8	106.0	<0.002	0.41	2.03	12.2	<1	2.9	397	0.61	0.41	12.50	0.291	1.28
K295398		630	15.7	102.0	0.002	0.28	2.02	11.7	1	2.2	384	0.60	0.12	11.35	0.268	1.10
K295399		630	18.5	91.4	0.002	0.26	2.61	10.9	1	2.5	329	0.61	0.09	12.10	0.271	1.12
K295400		630	15.8	98.9	0.002	0.12	4.37	10.9	1	1.8	338	0.63	<0.05	11.70	0.276	1.12

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295361		3.0	70	1.6	14.3	62	18.9	0.035
K295362		3.3	76	2.6	14.3	135	21.8	0.069
K295363		3.8	46	1.6	11.0	122	70.5	<0.005
K295364		4.6	46	1.4	10.1	116	72.3	<0.005
K295365		3.7	73	1.6	13.6	116	25.2	0.061
K295366		4.4	78	2.3	15.9	322	22.2	0.156
K295367		4.3	81	2.1	15.4	221	21.8	0.115
K295368		4.0	58	4.0	12.5	4720	19.4	0.416
K295369		5.0	71	4.6	14.3	208	21.7	0.093
K295370		3.4	75	1.0	16.0	60	22.3	0.019
K295371		3.9	77	1.1	15.1	64	24.5	0.015
K295372		4.1	85	1.0	16.5	42	25.9	0.015
K295373		4.7	79	1.7	15.5	40	23.6	0.016
K295374		1.4	79	0.6	14.6	5010	55.2	0.285
K295375		4.7	76	2.6	15.7	68	21.6	0.047
K295376		2.5	74	1.9	16.4	52	20.0	0.024
K295377		2.8	69	9.8	9.5	534	19.8	0.339
K295378		2.9	71	8.6	7.4	112	20.8	0.163
K295379		6.1	76	4.2	17.6	854	23.6	0.069
K295380		3.6	76	1.7	14.1	48	23.2	0.024
K295381		3.3	72	1.6	13.6	46	21.8	0.020
K295382		3.1	74	1.2	15.0	45	21.5	0.012
K295383		2.5	72	1.2	13.0	50	20.4	0.012
K295384		2.9	70	1.4	13.1	46	24.0	0.021
K295385		4.2	75	1.3	16.1	46	24.4	0.015
K295386		1.4	82	0.6	14.6	5280	53.1	0.276
K295387		4.3	73	1.8	15.7	80	23.1	0.020
K295388		3.5	68	3.0	15.1	63	23.5	0.013
K295389		5.1	64	3.7	12.6	72	21.0	0.303
K295390		3.3	78	2.8	16.6	85	27.9	0.025
K295391		3.3	74	4.8	13.6	48	25.1	0.016
K295392		3.8	79	2.9	14.6	58	24.9	0.027
K295393		3.7	77	1.3	16.0	52	26.1	0.009
K295394		4.3	77	3.2	15.4	220	24.8	0.044
K295395		0.4	1	<0.1	2.2	4	1.8	<0.005
K295396		3.3	76	1.4	17.8	89	25.5	0.038
K295397		3.1	80	1.2	18.4	46	23.8	0.017
K295398		3.2	73	1.9	18.1	45	27.9	0.013
K295399		2.9	75	5.0	15.6	48	28.4	0.017
K295400		3.4	76	2.2	16.1	46	33.4	0.012

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251813

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251819

Project: Klaza

P.O. No.: 19-079

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251819

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K295401		5.30	0.21	7.46	26.4	2210	1.57	1.07	2.90	0.13	41.7	8.6	12	14.80	37.0	3.16
K295402		4.80	0.17	6.90	30.1	1740	1.41	0.43	3.14	0.10	38.4	7.1	9	19.50	16.2	2.90
K295403		4.95	0.15	7.01	28.2	2040	1.44	0.19	2.78	0.12	43.4	7.0	10	20.5	18.5	2.72
K295404		4.73	0.11	6.59	18.0	2840	1.40	0.29	3.52	0.15	35.5	7.4	10	15.15	21.1	2.89
K295405		5.07	0.18	7.51	8.2	2140	1.55	0.34	2.77	0.14	42.9	6.9	12	11.65	44.4	2.88
K295406		4.98	0.19	7.12	14.6	2380	1.59	0.68	3.11	0.12	38.3	7.4	12	13.90	26.7	2.99
K295407		0.26	39.8	5.79	2600	270	1.19	37.5	1.73	45.6	36.3	17.0	22	10.30	1170	9.16
K295408		4.50	0.25	7.79	19.9	2250	1.62	0.60	2.78	0.13	52.1	7.2	12	9.95	46.8	2.99
K295409		4.39	0.56	7.51	36.1	2450	1.60	0.96	2.73	0.44	38.3	6.6	11	13.80	29.0	2.73
K295410		3.75	0.34	7.11	26.0	1900	1.44	0.62	2.44	0.24	29.4	4.1	9	17.65	18.6	2.19
K295411		4.58	5.88	7.21	365	500	1.61	0.96	2.69	18.20	42.8	8.6	9	20.9	52.2	4.90
K295412		3.86	0.37	7.33	16.2	2070	1.54	0.16	2.59	0.58	41.9	6.5	9	18.80	21.7	2.77
K295413		2.69	0.50	7.01	22.5	2100	1.61	0.45	2.77	0.31	35.2	8.6	10	15.75	64.7	3.04
K295414		2.06	0.54	7.36	17.4	2240	1.58	0.49	2.80	0.23	36.9	8.1	10	13.90	74.7	3.00
K295415		5.78	0.35	7.57	19.2	2100	1.20	0.43	2.77	0.15	43.0	8.1	8	11.70	66.1	2.88
K295416		1.44	0.23	6.66	22.7	1470	1.56	0.26	3.24	0.16	41.5	6.8	8	19.80	37.1	2.55
K295417		4.46	0.28	7.10	16.1	1990	1.38	0.34	2.97	0.18	42.7	6.9	8	19.50	46.8	2.75
K295418		1.56	0.49	7.44	39.0	1860	1.42	0.61	2.66	0.49	50.1	10.7	9	15.70	26.8	3.04
K295419		4.30	0.20	8.30	17.2	1750	1.46	0.39	1.49	0.16	48.5	8.3	9	14.80	29.4	2.65
K295420		2.74	0.25	7.17	15.7	2110	0.90	0.65	0.90	0.28	39.7	22.7	10	7.16	23.3	1.17
K295421		5.36	0.01	0.21	<0.2	40	0.07	0.02	32.7	0.02	1.40	0.8	3	0.07	4.5	0.16
K295422		3.81	0.13	5.90	12.1	1890	0.94	0.54	2.91	0.27	39.0	7.7	8	8.58	26.6	2.34
K295423		1.96	5.14	6.85	126.5	260	1.10	68.4	2.09	0.70	44.2	17.3	8	11.50	284	4.60
K295424		3.97	0.12	6.97	11.0	2050	1.42	0.36	2.52	0.10	43.1	6.4	10	13.75	11.6	2.87
K295425		2.13	0.21	6.49	22.5	2080	1.28	0.64	2.49	0.11	39.5	6.9	10	13.65	22.2	2.70
K295426		4.70	0.25	6.81	13.1	2710	1.18	1.03	2.46	0.19	55.9	5.8	9	13.70	28.2	2.46
K295427		5.01	0.31	6.52	18.9	2010	1.36	0.69	2.75	0.13	36.2	6.1	10	13.50	19.2	2.72
K295428		0.26	98.4	5.12	231	580	0.67	4.60	1.40	22.7	20.2	11.5	60	0.86	5660	5.37
K295429		5.23	0.19	6.82	15.6	1830	1.27	0.23	2.47	0.10	39.3	6.0	10	16.20	9.8	2.80
K295430		4.06	2.05	6.53	78.4	1000	1.33	8.26	2.10	0.32	42.5	7.6	11	16.45	96.0	2.67
K295431		1.70	14.10	6.00	703	240	1.39	8.34	3.62	71.8	47.7	7.3	8	14.25	199.0	5.85
K295432		4.10	0.99	6.61	56.5	1220	1.48	0.87	3.04	3.33	45.1	5.6	8	18.60	16.5	2.87
K295433		2.96	4.28	6.52	258	430	1.77	1.10	2.71	21.2	56.0	5.9	12	18.80	44.3	3.74
K295434		<0.02	4.64	6.68	269	450	1.82	1.20	2.70	21.1	60.2	6.2	12	19.40	46.4	3.88
K295435		2.31	0.49	6.62	47.1	1840	1.95	0.14	3.38	0.29	52.8	7.6	17	21.0	12.3	2.18
K295436		0.71	1.04	6.50	82.7	1070	1.88	0.34	3.08	4.98	47.9	6.5	16	23.3	14.0	2.29
K295437		4.48	3.27	7.24	191.0	970	1.50	0.90	2.31	11.65	49.8	6.7	8	22.0	34.2	3.33
K295438		6.08	9.99	6.52	993	300	1.39	1.75	1.81	59.2	43.7	4.5	8	13.50	156.0	4.10
K295439		2.35	3.40	6.84	157.5	1600	1.48	0.95	2.10	16.90	45.6	3.8	8	17.25	72.5	3.97
K295440		3.45	14.90	6.61	2020	110	1.42	3.70	0.83	104.5	37.7	7.1	9	12.75	144.0	6.32

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
K295401		15.95	0.09	1.2	0.123	2.90	20.6	24.1	0.84	627	2.50	1.89	8.2	2.7	670	16.5
K295402		15.35	0.08	1.1	0.058	2.62	19.2	72.4	0.89	733	1.68	1.30	8.0	2.6	590	14.6
K295403		14.65	0.09	1.2	0.044	2.78	21.9	42.8	0.84	664	1.57	1.68	7.6	2.5	580	13.8
K295404		15.20	0.08	1.1	0.050	2.62	17.3	20.4	0.89	639	1.31	1.91	7.6	2.6	580	15.8
K295405		15.90	0.08	1.2	0.073	2.77	21.5	25.2	0.76	512	2.26	1.79	8.4	2.6	620	17.0
K295406		16.25	0.10	1.0	0.067	2.65	18.2	27.4	0.85	594	2.66	1.85	8.2	2.7	630	16.5
K295407		13.60	0.07	0.9	1.530	2.66	18.7	14.9	0.68	2290	16.90	0.06	4.8	14.5	450	1670
K295408		15.80	0.09	1.2	0.077	2.89	27.4	14.3	0.83	584	1.39	2.11	8.6	2.6	650	17.3
K295409		16.45	0.10	1.1	0.077	3.05	19.2	12.1	0.67	555	1.76	1.82	8.7	2.6	640	30.0
K295410		15.50	0.09	1.0	0.067	2.86	14.7	32.0	0.79	584	1.33	0.87	7.5	2.4	660	16.0
K295411		14.15	0.08	0.9	0.456	3.02	22.9	16.7	0.89	1260	2.07	0.05	7.1	3.0	540	745
K295412		15.50	0.08	1.1	0.051	3.07	21.0	56.3	0.70	698	1.94	0.19	8.3	2.3	600	52.8
K295413		16.15	0.08	1.0	0.067	2.66	16.5	30.0	0.75	615	3.77	1.27	8.8	2.7	650	21.4
K295414		15.95	0.08	1.0	0.066	2.69	18.2	26.4	0.75	566	3.47	1.41	8.7	2.7	660	19.2
K295415		15.85	0.10	1.1	0.054	3.15	21.6	37.3	0.65	457	2.97	0.14	8.7	2.6	630	19.0
K295416		14.10	0.08	0.9	0.047	2.07	21.1	112.5	0.82	608	3.40	0.05	7.4	2.3	570	11.3
K295417		15.55	0.11	1.1	0.060	2.88	21.5	38.6	0.71	517	3.45	0.38	8.2	2.4	590	18.4
K295418		15.55	0.09	1.0	0.059	2.99	26.2	40.7	0.84	743	2.05	0.07	7.6	3.3	620	68.8
K295419		17.25	0.09	1.2	0.067	2.60	24.1	34.7	0.52	661	2.06	0.07	9.4	2.5	670	14.6
K295420		14.95	0.05	1.1	0.082	2.59	22.1	38.2	0.43	267	6.93	0.06	6.7	2.6	580	21.6
K295421		0.58	0.08	0.1	<0.005	0.03	1.3	0.9	1.84	120	0.11	0.09	0.2	0.9	100	0.7
K295422		14.45	0.12	1.1	0.095	1.96	19.5	56.2	0.54	641	1.73	0.06	7.6	2.3	560	16.4
K295423		16.05	0.06	1.0	0.334	3.28	22.4	14.4	0.72	657	2.69	0.09	7.2	2.6	570	113.5
K295424		15.70	0.07	1.2	0.051	2.82	21.8	17.3	0.69	507	2.10	1.67	7.7	2.4	570	16.3
K295425		14.40	0.08	1.1	0.058	2.82	19.9	19.6	0.67	536	1.92	1.54	7.2	2.0	540	15.0
K295426		16.20	0.09	1.0	0.152	2.53	27.0	44.8	0.64	579	3.97	0.39	8.3	2.4	620	14.8
K295427		14.40	0.07	1.1	0.090	2.68	18.0	13.3	0.70	592	2.39	1.61	7.1	2.1	540	26.7
K295428		11.70	0.05	1.5	0.409	1.05	9.2	10.7	1.05	1590	21.1	1.50	3.1	26.1	430	9590
K295429		15.10	0.07	1.1	0.056	2.46	19.6	59.6	0.69	572	2.28	0.90	7.3	2.2	590	18.0
K295430		14.05	0.07	1.0	0.247	2.84	23.3	17.9	0.76	643	2.99	0.05	6.1	2.3	510	45.4
K295431		14.05	0.06	0.9	1.975	2.59	26.0	11.4	1.24	1540	2.42	0.04	5.6	2.7	470	4460
K295432		14.65	0.07	1.1	0.186	2.42	24.4	46.5	0.93	866	2.21	0.05	7.1	1.8	520	153.0
K295433		15.75	0.06	2.0	0.886	2.90	30.9	11.8	0.93	1140	2.36	0.04	7.9	4.3	760	991
K295434		16.90	0.08	2.2	0.879	3.01	32.7	12.5	0.94	1150	2.42	0.04	8.3	4.5	760	1050
K295435		18.10	0.09	3.4	0.031	2.83	26.0	26.5	0.94	688	1.35	0.05	10.1	6.0	1030	31.4
K295436		17.85	0.08	3.0	0.048	2.90	23.2	45.6	0.78	620	0.82	0.05	10.3	5.0	1010	211
K295437		15.30	0.07	1.2	0.168	3.08	27.4	9.7	0.90	1140	2.27	0.04	7.2	2.6	700	821
K295438		14.45	0.06	0.9	0.297	3.16	24.1	7.1	0.77	1300	2.20	0.02	6.0	2.2	530	2650
K295439		14.25	0.05	1.1	0.371	3.15	25.0	7.7	0.88	1560	1.21	0.03	6.3	1.5	550	667
K295440		15.30	0.06	1.2	2.97	3.14	19.1	8.5	0.47	753	3.01	0.03	5.5	2.2	510	2320

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
K295401		101.0	0.002	0.53	3.05	10.7	<1	1.8	347	0.62	0.15	10.95	0.280	1.34	3.4	78
K295402		92.7	<0.002	0.40	3.63	10.1	1	1.6	268	0.58	0.07	11.25	0.255	1.28	3.2	71
K295403		92.7	<0.002	0.21	2.24	9.1	<1	1.4	281	0.59	<0.05	13.15	0.251	1.30	3.3	68
K295404		80.1	<0.002	0.17	2.27	9.1	1	1.5	361	0.57	<0.05	10.05	0.251	1.18	3.3	70
K295405		98.4	<0.002	0.12	5.26	10.4	1	1.8	323	0.67	<0.05	11.80	0.267	1.16	3.7	73
K295406		82.6	<0.002	0.15	4.76	10.3	1	1.6	391	0.59	<0.05	9.97	0.269	1.15	3.0	74
K295407		145.0	0.003	7.89	103.5	8.4	2	10.6	62.3	0.39	0.75	9.53	0.170	2.23	5.5	56
K295408		103.5	<0.002	0.25	2.23	10.8	1	1.5	366	0.75	0.05	14.20	0.265	1.25	4.7	72
K295409		110.0	<0.002	0.29	4.52	11.1	1	1.6	355	0.71	0.07	12.30	0.271	1.53	3.9	75
K295410		107.5	<0.002	0.22	11.75	10.3	1	1.4	278	0.54	0.06	9.21	0.267	1.89	3.3	76
K295411		149.5	0.002	3.34	16.40	10.1	1	4.1	127.0	0.55	0.16	10.95	0.243	2.11	5.0	67
K295412		90.0	<0.002	0.13	6.38	9.8	1	1.6	175.0	0.71	<0.05	12.90	0.253	1.38	3.6	68
K295413		81.5	<0.002	0.17	7.51	10.8	<1	1.9	279	0.63	0.05	8.91	0.282	1.33	3.3	78
K295414		85.0	<0.002	0.15	7.77	10.5	1	2.0	294	0.63	0.06	10.10	0.287	1.31	3.0	77
K295415		87.7	<0.002	0.16	9.04	9.8	<1	1.6	140.0	0.72	0.05	14.35	0.271	1.29	3.1	71
K295416		60.4	0.002	0.14	18.55	9.6	<1	1.6	179.5	0.60	<0.05	11.15	0.245	1.15	2.4	68
K295417		86.5	<0.002	0.06	13.45	9.8	1	1.9	189.5	0.65	0.06	13.55	0.253	1.39	3.1	69
K295418		122.5	<0.002	0.60	8.56	10.3	<1	1.8	181.5	0.61	0.10	12.40	0.254	1.90	3.3	70
K295419		100.5	<0.002	0.14	7.69	11.5	<1	2.2	100.0	0.88	<0.05	14.40	0.277	1.38	3.4	73
K295420		131.0	0.002	0.27	67.3	9.0	<1	1.0	66.0	0.61	0.08	15.45	0.215	1.32	3.6	67
K295421		0.7	<0.002	0.02	0.15	0.9	1	0.2	72.6	<0.05	<0.05	0.13	0.030	<0.02	0.2	7
K295422		54.1	<0.002	0.14	18.85	7.7	<1	1.8	224	0.74	0.05	12.00	0.218	0.89	2.8	56
K295423		124.0	<0.002	2.93	28.1	9.1	1	4.3	121.0	0.75	0.68	12.55	0.236	1.88	4.1	67
K295424		94.6	<0.002	0.08	2.70	9.1	<1	2.3	314	0.76	<0.05	12.65	0.250	1.16	3.2	68
K295425		90.0	<0.002	0.19	2.71	8.2	<1	1.4	323	0.70	0.05	13.05	0.236	1.37	3.6	63
K295426		85.6	0.002	0.16	16.25	9.6	<1	1.7	188.0	0.72	0.07	11.05	0.266	1.43	2.8	71
K295427		88.3	<0.002	0.28	3.77	8.2	<1	1.5	328	0.73	0.08	11.10	0.232	1.18	3.6	64
K295428		29.3	0.010	2.18	436	11.0	1	1.8	179.5	0.22	1.16	1.88	0.230	0.47	1.2	76
K295429		77.9	<0.002	0.10	5.03	8.9	1	1.7	237	0.64	<0.05	9.41	0.261	1.11	2.9	70
K295430		160.5	0.002	0.80	22.7	8.7	<1	3.2	100.5	0.54	0.12	12.30	0.218	2.00	4.9	60
K295431		162.0	<0.002	4.60	25.6	7.7	1	8.3	115.5	0.50	0.56	12.55	0.195	2.17	8.3	53
K295432		104.5	<0.002	0.39	7.48	8.5	<1	2.0	137.0	0.73	0.05	15.35	0.223	1.89	3.6	59
K295433		167.0	<0.002	2.25	15.25	7.6	<1	3.7	135.0	0.65	0.07	11.75	0.245	2.74	4.5	58
K295434		172.0	<0.002	2.42	16.60	8.1	<1	3.9	132.5	0.69	0.08	12.75	0.245	3.01	4.9	60
K295435		100.5	<0.002	0.22	7.59	6.2	<1	1.3	191.5	0.76	<0.05	8.24	0.289	2.25	4.2	61
K295436		101.0	<0.002	0.49	6.59	6.5	<1	2.0	190.0	0.77	0.05	8.61	0.289	2.29	4.2	61
K295437		155.0	<0.002	1.16	7.80	10.5	1	3.0	122.0	0.60	0.15	12.05	0.276	2.36	3.8	73
K295438		219	<0.002	3.10	13.55	8.6	1	5.7	69.3	0.51	0.32	13.50	0.217	2.86	2.8	60
K295439		169.0	<0.002	1.54	10.10	8.8	<1	4.1	115.0	0.59	0.12	12.95	0.220	2.68	3.3	60
K295440		198.5	0.003	6.62	22.2	9.0	1	12.7	46.0	0.54	0.62	11.05	0.223	2.58	3.1	66

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
K295401		2.5	14.9	45	33.3	0.023
K295402		3.7	14.7	41	32.8	0.021
K295403		4.9	13.9	38	34.6	0.019
K295404		1.9	13.7	43	30.5	0.011
K295405		1.8	15.8	42	31.4	0.011
K295406		1.5	15.2	43	29.2	0.013
K295407		7.4	9.8	3390	24.4	1.710
K295408		1.4	17.7	46	32.4	0.012
K295409		2.7	15.3	64	31.2	0.050
K295410		4.1	12.3	54	25.7	0.025
K295411		4.6	12.7	1280	23.5	0.515
K295412		4.0	14.4	83	30.2	0.010
K295413		3.6	14.4	61	26.3	0.020
K295414		2.7	14.4	54	26.4	0.021
K295415		3.1	14.7	42	29.0	0.024
K295416		3.3	14.2	55	22.9	0.026
K295417		2.6	14.2	50	28.8	0.067
K295418		4.2	15.1	76	25.3	0.021
K295419		10.8	15.5	47	29.6	0.018
K295420		7.9	12.8	36	25.4	0.010
K295421		<0.1	2.8	4	3.2	<0.005
K295422		4.3	13.0	58	28.4	0.020
K295423		4.0	15.3	108	25.8	0.368
K295424		1.3	16.0	47	31.9	0.007
K295425		1.0	14.1	50	27.7	0.013
K295426		2.6	15.4	55	28.1	0.011
K295427		1.4	13.5	45	29.2	0.020
K295428		0.5	14.6	4900	59.6	0.276
K295429		2.2	14.2	47	29.5	0.016
K295430		2.7	12.4	54	27.7	0.077
K295431		3.4	13.6	4730	26.9	2.61
K295432		1.8	14.2	291	31.0	0.101
K295433		3.7	11.0	1610	76.6	0.471
K295434		4.1	11.5	1580	81.5	0.476
K295435		1.9	12.8	59	131.5	0.019
K295436		2.1	12.4	347	119.0	0.046
K295437		4.5	13.1	937	36.1	0.133
K295438		3.1	9.8	4020	26.1	0.415
K295439		3.0	11.7	1340	30.1	0.086
K295440		4.4	8.7	6030	34.5	2.15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251819

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251825

Project: Klaza

P.O. No.: 19-080

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251825

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593932		4.38			0.11	7.78	6.4	2360	1.65	0.12	2.64	0.16	50.2	7.1	9	13.25
W593933		4.39			0.06	7.52	5.0	2320	1.60	0.08	2.68	0.13	43.8	6.8	9	15.60
W593934		3.95			0.07	7.62	7.5	2350	1.23	0.11	1.82	0.15	42.5	7.0	9	15.00
W593935		1.78			0.08	6.74	8.5	2320	1.10	0.14	1.71	0.20	36.3	8.0	6	13.25
W593936		5.54			0.09	7.47	6.3	2280	1.55	0.15	2.32	0.11	44.8	7.4	7	16.15
W593937		1.90			0.06	7.50	6.6	2520	1.45	0.13	2.01	0.16	36.9	7.6	7	14.90
W593938		3.67			0.11	7.49	5.0	2450	1.54	0.11	2.60	0.14	45.8	8.8	8	15.80
W593939		0.26	102	0.984	>100	5.48	247	600	0.72	5.22	1.44	25.0	19.05	12.4	62	0.92
W593940		1.27			0.53	6.36	59.1	3410	1.70	2.83	2.91	0.21	41.6	7.1	6	18.75
W593941		1.46			0.13	8.10	13.9	2120	1.68	0.34	1.43	0.17	56.1	8.4	8	20.2
W593942		3.31			0.15	6.39	7.1	2140	1.43	0.22	3.67	0.13	35.7	7.5	8	13.65
W593943		3.78			0.15	7.26	5.8	2170	1.71	0.22	2.91	0.13	45.7	7.4	8	16.40
W593944		2.63			0.15	6.77	6.5	2180	1.62	0.35	2.71	0.14	37.1	7.2	8	15.90
W593957		3.33			0.57	7.08	44.7	1070	1.43	1.81	2.84	0.27	46.7	55.4	6	12.00
W593958		5.37			1.00	6.13	217	850	0.98	4.24	3.17	2.25	45.3	64.4	5	11.45
W593959		1.47			0.11	6.89	7.7	2300	1.51	0.15	3.09	0.15	37.0	7.2	6	24.6
W593960		1.00			0.21	8.01	9.3	2640	1.19	0.34	0.89	0.08	44.5	5.7	7	11.10
W593961		0.99			0.17	8.12	8.9	2450	1.22	0.28	0.83	0.07	49.6	4.1	7	11.40
W593962		4.06			0.53	5.79	20.4	1460	1.08	1.00	2.09	0.16	39.0	8.3	8	7.96
W593963		3.09			0.58	5.29	9.4	2250	1.05	1.16	2.38	0.36	38.8	5.2	6	7.89
W593964		7.72			0.22	6.86	6.2	1840	1.28	0.98	2.66	0.13	49.4	2.7	9	8.79
W593965		2.05			0.28	6.04	12.2	5040	1.21	0.79	2.56	0.54	44.9	5.8	7	16.90
W593966		6.76			0.80	7.25	27.9	3030	1.43	4.28	2.32	0.08	42.3	11.7	7	9.49
W593967		2.73			0.50	6.60	26.3	1740	1.45	3.33	2.78	0.06	41.2	11.4	6	16.60
W593968		5.11			0.01	0.17	<0.2	30	0.10	0.05	34.0	0.02	1.42	1.1	1	0.09
W593969		5.64			0.31	7.50	15.0	2520	1.39	2.61	1.75	0.06	50.3	7.4	7	8.98
W593970		5.52			0.57	7.24	20.4	2390	1.43	3.32	1.86	0.19	46.5	8.7	7	10.15
W593971		2.25			0.42	7.47	19.5	1810	1.47	2.38	1.84	0.19	48.2	6.5	5	13.55
W593972		2.68			0.34	7.74	33.6	7530	1.23	2.67	2.02	0.16	52.0	7.6	3	12.80
W593973		2.36			0.08	7.47	10.9	3910	1.23	0.26	2.60	0.06	39.5	4.0	6	9.77
W593974		5.85			0.11	7.39	10.2	3260	1.35	0.81	2.42	0.10	33.6	11.9	8	9.97
W593975		4.27			0.12	7.27	6.9	2310	1.61	0.38	2.19	0.21	41.8	5.8	8	14.15
W593976		<0.02			0.09	7.49	6.9	2350	1.64	0.36	2.25	0.21	47.1	5.9	9	14.80
W593977		1.70			0.10	7.01	11.3	1730	1.18	0.38	2.08	0.27	45.5	7.1	12	19.15
W593978		5.86			0.17	6.75	8.7	2450	1.38	0.99	1.83	0.24	42.8	7.9	7	18.15
W593979		2.09			0.13	6.95	14.1	2390	1.25	0.17	3.31	0.18	40.2	6.1	6	20.4
W593980		0.26			38.7	5.74	2630	110	1.11	36.2	1.72	47.4	32.8	17.6	23	10.25
W593981		8.15			0.12	7.26	8.1	2170	1.46	0.19	2.94	0.14	39.9	7.4	8	17.25
W593982		3.78			0.09	7.58	12.8	1850	1.40	0.14	1.75	0.14	47.0	6.1	7	27.0
W593983		8.09			0.16	7.23	73.2	2230	1.72	0.16	2.63	0.47	40.9	8.1	8	18.95

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251825

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593932		7.7	2.92	17.15	0.22	1.4	0.041	2.94	25.8	21.7	0.78	667	1.15	2.43	8.5	2.5
W593933		8.3	2.80	16.25	0.18	1.3	0.039	2.75	22.5	21.1	0.70	668	1.95	2.48	7.7	2.4
W593934		7.8	2.87	17.00	0.19	1.4	0.035	2.85	20.8	37.3	0.35	800	1.89	0.52	8.2	2.4
W593935		9.2	2.97	14.25	0.08	1.3	0.032	2.53	18.4	32.9	0.43	994	1.84	0.55	6.8	4.2
W593936		8.3	2.71	16.50	0.11	1.5	0.040	2.85	22.1	20.2	0.58	642	1.77	2.20	7.9	2.7
W593937		11.9	2.88	17.50	0.10	1.5	0.037	2.94	18.0	25.5	0.27	617	2.07	1.24	8.3	2.4
W593938		13.2	2.87	16.90	0.11	1.5	0.038	2.79	22.6	22.2	0.77	682	1.75	2.44	8.1	2.5
W593939		6080	5.69	12.20	0.07	1.5	0.435	1.14	8.7	13.1	1.10	1700	20.9	1.61	3.2	28.7
W593940		24.7	2.85	15.55	0.11	1.6	0.039	3.27	20.7	78.3	0.71	2570	14.15	0.16	7.9	2.1
W593941		13.9	2.87	18.10	0.10	2.1	0.043	3.10	28.1	40.4	0.33	764	3.90	1.17	9.5	2.8
W593942		20.4	2.76	15.65	0.10	1.3	0.041	2.59	17.3	22.9	0.61	816	2.78	1.77	7.6	2.2
W593943		19.0	2.70	17.00	0.12	1.4	0.043	2.73	22.6	22.2	0.54	677	2.20	2.25	8.0	2.4
W593944		26.6	2.57	16.35	0.11	1.3	0.051	2.78	17.8	15.3	0.39	602	1.84	2.23	7.6	2.1
W593957		7.6	3.06	15.75	0.11	1.3	0.052	3.67	23.9	63.1	0.89	1910	2.12	0.08	8.0	2.4
W593958		14.2	5.69	14.05	0.12	1.0	0.206	3.02	24.2	15.9	0.91	8250	5.96	0.04	5.9	2.7
W593959		13.8	2.69	16.50	0.11	1.3	0.035	2.90	18.0	22.6	0.70	747	1.25	1.53	8.0	2.3
W593960		61.4	2.49	17.65	0.09	1.4	0.034	3.32	21.8	43.1	0.38	594	0.98	0.09	8.7	1.8
W593961		48.7	2.35	17.10	0.11	1.3	0.035	3.28	25.5	43.0	0.36	521	0.88	0.09	8.3	1.8
W593962		197.5	2.44	12.15	0.10	0.9	0.104	3.05	20.9	14.0	0.66	1540	1.08	0.03	5.8	2.1
W593963		56.7	2.53	12.20	0.11	0.9	0.085	2.78	20.5	13.8	0.69	2100	108.0	0.02	5.4	1.9
W593964		3.4	2.59	15.75	0.13	1.2	0.083	3.73	26.4	12.4	0.89	1300	1.57	0.02	7.1	1.8
W593965		8.5	2.32	14.05	0.11	1.0	0.079	2.97	25.0	18.5	0.80	922	0.99	0.03	5.7	1.8
W593966		4.1	2.79	17.00	0.11	1.4	0.083	3.97	20.3	14.4	0.64	1030	0.68	0.93	8.2	2.4
W593967		7.2	2.62	16.05	0.10	1.3	0.057	3.32	20.6	18.6	0.58	892	0.90	0.60	7.3	2.4
W593968		3.8	0.14	0.53	0.06	0.1	<0.005	0.06	1.4	1.0	1.84	135	0.06	0.07	0.3	0.8
W593969		8.2	2.62	16.00	0.13	1.5	0.040	3.81	26.0	14.9	0.61	962	1.27	1.35	8.1	2.2
W593970		12.2	2.56	15.65	0.13	1.7	0.059	4.05	23.2	17.3	0.68	1040	1.63	0.51	8.1	2.1
W593971		10.1	2.32	15.35	0.13	2.0	0.078	4.17	24.9	23.0	0.69	927	1.31	0.06	6.3	1.7
W593972		8.6	1.71	15.05	0.14	2.7	0.049	5.19	26.9	32.7	0.61	843	0.62	0.13	6.1	1.3
W593973		1.6	2.51	16.80	0.13	1.3	0.074	4.37	18.5	11.8	0.76	1060	0.30	1.73	8.2	2.0
W593974		6.4	4.49	16.10	0.09	1.1	0.092	3.17	16.5	19.0	0.82	673	0.45	2.53	7.1	2.2
W593975		20.6	2.90	16.50	0.09	1.4	0.070	3.03	21.1	16.1	0.77	595	0.45	2.30	8.0	2.2
W593976		21.3	2.96	16.80	0.12	1.4	0.070	3.06	24.5	16.9	0.80	610	0.46	2.32	8.2	2.4
W593977		19.1	2.59	15.70	0.10	1.7	0.080	2.66	22.3	66.8	0.67	777	0.60	0.36	8.3	2.1
W593978		28.5	2.67	15.55	0.11	1.3	0.107	2.70	22.0	57.8	0.64	670	1.66	0.06	7.4	2.0
W593979		15.6	2.55	14.50	0.10	1.1	0.036	3.01	20.4	108.5	0.86	1080	0.72	0.33	6.5	1.8
W593980		1195	9.25	14.60	0.12	0.8	1.630	2.75	17.5	15.9	0.67	2330	17.70	0.06	4.9	15.3
W593981		14.6	2.95	16.65	0.10	1.4	0.048	2.94	19.4	16.2	0.72	750	0.64	2.21	7.9	2.3
W593982		13.4	2.39	17.20	0.12	1.5	0.040	3.28	23.1	154.5	0.50	957	0.58	0.64	8.2	2.0
W593983		10.5	2.75	16.65	0.13	1.5	0.041	3.09	20.4	28.6	0.66	1060	0.75	1.61	8.1	2.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251825

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593932		610	18.2	113.5	<0.002	0.01	1.98	9.9	1	1.9	379	0.63	<0.05	13.10	0.266	1.23
W593933		590	17.1	99.7	<0.002	0.01	1.52	9.0	1	1.9	418	0.59	<0.05	10.90	0.255	1.10
W593934		630	17.9	107.5	<0.002	0.03	24.6	9.8	1	2.0	126.5	0.62	<0.05	11.35	0.267	1.25
W593935		550	17.6	91.4	<0.002	0.03	24.0	9.2	1	1.5	109.5	0.59	<0.05	10.95	0.233	1.06
W593936		590	18.1	111.5	<0.002	0.01	4.46	10.3	1	1.7	359	0.67	<0.05	13.00	0.248	1.09
W593937		600	18.1	112.0	<0.002	0.01	15.50	9.8	<1	2.3	209	0.72	<0.05	11.60	0.260	1.11
W593938		610	23.9	104.5	<0.002	0.01	1.48	11.0	<1	1.9	422	0.69	<0.05	12.75	0.263	1.00
W593939		460	>10000	30.3	0.012	2.30	447	12.3	2	2.0	191.5	0.21	1.16	2.01	0.239	0.47
W593940		510	23.4	138.0	0.003	0.84	38.6	9.3	1	1.7	140.0	0.75	<0.05	12.85	0.214	2.27
W593941		690	19.6	148.0	<0.002	0.09	19.10	11.6	<1	2.0	182.5	0.91	<0.05	17.75	0.270	1.53
W593942		560	20.8	91.0	<0.002	0.02	10.75	9.2	<1	2.2	312	0.64	<0.05	10.25	0.244	1.11
W593943		580	21.6	110.5	<0.002	0.01	4.20	9.9	1	2.3	364	0.68	<0.05	11.85	0.241	1.09
W593944		560	20.6	103.5	<0.002	0.01	5.30	9.0	<1	2.4	339	0.63	<0.05	10.70	0.240	1.14
W593957		600	27.0	164.5	<0.002	0.77	14.80	10.7	1	1.7	102.0	0.67	<0.05	13.00	0.248	2.41
W593958		450	78.2	196.0	<0.002	2.36	19.30	9.6	<1	1.9	58.5	0.49	0.09	10.80	0.187	2.58
W593959		610	19.3	100.5	<0.002	0.05	5.92	10.0	<1	2.1	286	0.68	<0.05	10.20	0.256	1.30
W593960		660	15.2	141.0	<0.002	0.03	21.3	11.6	1	2.4	85.3	0.70	<0.05	12.50	0.283	1.48
W593961		640	15.7	143.0	<0.002	0.04	20.3	11.2	1	2.1	85.0	0.69	<0.05	13.95	0.277	1.42
W593962		430	13.3	177.0	<0.002	0.15	17.45	8.1	1	1.6	74.4	0.46	0.07	10.00	0.186	1.91
W593963		400	16.6	171.0	0.008	0.14	16.65	7.7	<1	1.1	71.8	0.43	0.16	9.26	0.176	1.83
W593964		550	5.7	204	<0.002	0.07	5.29	10.2	<1	1.5	81.0	0.56	<0.05	11.95	0.233	2.33
W593965		440	11.5	180.5	<0.002	0.22	8.88	8.8	<1	1.5	118.0	0.49	<0.05	10.80	0.192	1.87
W593966		630	13.4	158.5	<0.002	0.43	6.28	10.4	1	1.8	147.0	0.73	0.05	11.50	0.258	2.29
W593967		560	11.6	139.5	0.002	0.51	8.56	9.4	<1	1.5	127.5	0.63	<0.05	11.10	0.233	1.84
W593968		80	0.7	2.2	<0.002	0.01	0.09	0.3	1	<0.2	84.2	0.05	<0.05	0.17	0.009	0.04
W593969		580	16.5	162.0	<0.002	0.31	5.92	9.9	<1	1.4	152.5	0.74	<0.05	14.90	0.241	1.97
W593970		560	18.2	178.0	<0.002	0.42	8.75	9.6	1	1.6	106.5	0.79	<0.05	14.50	0.235	2.32
W593971		380	14.4	184.0	<0.002	0.33	13.90	7.1	<1	1.3	74.8	0.80	<0.05	17.90	0.170	2.46
W593972		240	21.3	170.5	<0.002	0.51	16.50	5.1	<1	1.1	170.5	1.17	<0.05	22.0	0.099	2.84
W593973		630	6.9	164.5	<0.002	0.13	6.08	10.3	<1	2.1	164.0	0.66	<0.05	9.31	0.266	2.47
W593974		570	14.0	105.5	<0.002	0.11	5.96	9.3	<1	2.2	252	0.60	<0.05	9.66	0.242	1.26
W593975		590	22.4	109.0	<0.002	0.02	7.15	10.3	1	2.0	347	0.69	<0.05	12.30	0.248	1.19
W593976		600	21.4	120.5	<0.002	0.02	7.48	10.7	1	2.2	355	0.69	<0.05	13.50	0.253	1.25
W593977		530	15.6	97.3	<0.002	0.06	18.40	10.5	1	2.3	146.0	0.81	<0.05	14.45	0.232	1.20
W593978		500	13.1	104.5	<0.002	0.08	20.1	9.6	1	2.1	118.5	0.67	<0.05	13.20	0.219	1.42
W593979		560	45.3	103.0	<0.002	0.13	17.15	9.4	<1	1.7	176.5	0.55	<0.05	11.20	0.237	1.66
W593980		460	1680	151.0	0.002	7.92	107.5	8.8	1	11.1	63.1	0.41	0.76	8.39	0.171	2.14
W593981		600	17.0	105.5	<0.002	0.05	3.25	10.0	<1	1.6	373	0.65	<0.05	10.45	0.257	1.30
W593982		620	17.4	134.5	<0.002	0.10	18.80	10.6	1	1.7	225	0.72	<0.05	13.20	0.257	1.60
W593983		630	21.9	117.0	<0.002	0.15	8.31	11.4	1	1.6	299	0.67	<0.05	10.20	0.263	1.62

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251825

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593932		2.4	69	1.5	16.6	65	46.2	<0.005
W593933		2.3	68	1.2	14.7	59	38.2	<0.005
W593934		3.3	71	3.8	15.5	63	44.0	<0.005
W593935		3.4	69	2.4	14.1	71	35.6	<0.005
W593936		2.9	69	1.5	16.5	57	39.7	<0.005
W593937		5.2	71	4.2	14.9	58	42.3	<0.005
W593938		2.2	72	1.8	17.3	63	38.3	<0.005
W593939		1.3	80	0.6	14.1	5080	56.4	0.312
W593940		5.0	59	3.8	16.2	50	41.8	0.030
W593941		5.3	72	2.7	18.7	63	56.5	<0.005
W593942		2.9	68	2.3	15.1	62	35.7	<0.005
W593943		2.7	67	1.9	16.1	63	38.5	<0.005
W593944		2.9	66	1.9	13.8	56	35.5	<0.005
W593957		2.8	67	4.8	16.6	65	36.5	0.018
W593958		3.1	55	13.5	14.4	183	29.0	0.082
W593959		7.1	69	2.9	15.8	53	34.3	<0.005
W593960		2.8	69	4.7	14.3	43	37.7	<0.005
W593961		2.7	67	4.5	14.6	39	37.1	<0.005
W593962		5.1	48	2.4	12.1	45	25.4	0.007
W593963		6.0	53	3.1	12.8	56	24.1	0.008
W593964		4.4	66	3.0	15.7	47	30.4	<0.005
W593965		3.5	59	3.3	14.5	49	27.7	<0.005
W593966		4.1	69	3.0	14.4	50	38.1	0.026
W593967		8.8	65	2.5	16.6	50	36.9	0.027
W593968		0.2	2	<0.1	2.7	5	2.3	<0.005
W593969		3.8	65	2.0	15.2	59	39.2	0.020
W593970		4.5	63	2.5	14.6	58	43.0	0.023
W593971		2.7	49	2.2	13.1	50	49.2	0.016
W593972		3.9	37	1.6	11.1	34	61.9	0.018
W593973		3.2	65	5.0	14.2	45	37.2	0.007
W593974		3.6	72	4.5	14.1	64	32.0	<0.005
W593975		3.2	67	1.7	15.9	61	38.7	<0.005
W593976		3.5	69	1.8	16.8	63	38.5	<0.005
W593977		3.1	60	2.6	16.9	65	43.9	<0.005
W593978		3.0	60	2.2	14.8	64	36.4	<0.005
W593979		4.5	66	1.8	13.8	53	32.4	<0.005
W593980		5.5	57	7.3	9.2	3410	23.4	1.825
W593981		3.5	70	1.9	15.6	59	38.5	<0.005
W593982		3.3	69	2.3	13.8	54	41.3	<0.005
W593983		3.7	73	2.9	16.8	76	41.7	0.012

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251825

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251833

Project: Klaza

P.O. No.: 19-081

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251833

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295441		4.01			0.56	8.05	24.4	1540	1.42	1.10	1.55	0.24	48.6	6.2	10	13.45
K295442		5.05			0.50	8.12	19.0	2150	2.00	1.13	1.27	0.80	53.5	6.6	8	14.35
K295443		3.96			7.11	6.85	90.6	780	1.38	10.10	1.37	1.92	26.5	31.0	8	8.04
K295444		2.49			2.73	7.72	159.5	1280	1.87	2.29	2.24	3.90	57.3	7.6	9	16.50
K295445		5.10			5.48	5.62	445	250	1.39	5.31	3.92	17.85	39.0	33.5	10	10.20
K295446		5.06			0.28	7.41	35.1	2320	1.69	1.26	2.60	0.22	41.1	7.6	12	14.00
K295447		<0.02			0.27	7.27	34.5	2300	1.73	1.18	2.57	0.24	40.8	7.7	11	13.60
K295448		3.44			0.50	7.34	24.5	2010	1.74	1.11	2.47	0.19	43.5	7.3	10	16.00
K295449		4.06			6.81	6.40	567	1030	1.53	3.31	2.63	28.3	56.1	17.8	6	14.35
K295450		4.22			1.35	7.22	48.2	970	1.79	1.85	2.84	0.65	59.5	11.4	9	18.10
K295451		2.25			1.77	7.59	66.6	2150	1.82	1.50	2.22	0.73	64.9	6.0	15	14.95
K295452		2.56			3.38	7.44	91.1	2330	1.66	2.21	2.48	6.20	23.8	3.2	9	11.05
K295453		3.14			4.62	7.43	260	190	1.62	2.71	0.54	3.41	52.2	9.4	9	6.46
K295454		0.26	103	1.005	>100	5.48	254	560	0.80	5.32	1.45	24.6	19.55	12.7	60	0.96
K295455		4.65			0.53	7.73	23.9	2520	1.53	1.74	1.38	0.28	48.0	7.3	9	15.10
K295456		4.19			2.68	7.54	639	360	1.48	8.60	0.98	1.90	25.7	4.5	11	8.47
K295457		3.13			10.50	6.16	746	450	1.26	39.8	0.75	1.51	23.6	6.9	8	7.51
K295458		5.23			0.17	7.12	19.8	1620	2.14	0.19	3.09	0.09	52.8	7.1	18	17.60
K295459		1.50			0.13	6.78	17.8	1180	2.05	0.18	3.37	0.08	47.7	7.3	16	15.75
K295460		1.53			0.11	7.29	18.9	1240	2.03	0.13	3.48	0.08	57.1	7.7	16	17.25
K295461		3.38			0.14	7.22	21.7	1520	2.12	0.19	2.58	0.10	56.2	7.0	17	17.70
K295462		3.84			0.81	6.93	109.5	1140	1.59	1.59	2.64	0.51	53.3	6.7	8	17.80
K295463		3.12			0.10	7.20	12.4	2220	1.94	0.66	2.98	0.07	40.4	7.5	11	18.20
K295464		2.04			3.96	6.92	283	230	1.39	9.30	2.33	1.31	34.3	9.2	9	12.20
K295465		5.10			0.14	6.96	13.6	2170	1.64	0.60	3.16	0.09	39.4	7.5	10	17.85
K295466		2.60			2.13	7.81	185.0	550	1.55	4.43	1.96	2.85	46.0	8.8	9	14.65
K295467		5.28			0.02	0.16	0.2	20	0.13	0.02	32.6	0.02	1.10	0.9	1	0.08
K295468		2.73			0.12	7.53	9.6	2210	1.64	0.40	2.88	0.15	42.3	8.0	11	10.60
K295469		6.67			0.27	7.15	31.5	2220	1.61	0.75	3.29	0.43	36.6	9.5	14	8.93
K295470		2.11			0.17	8.25	9.7	2690	1.34	1.23	1.59	0.12	43.9	6.3	9	11.75
K295471		1.72			0.49	7.21	21.3	1290	1.46	1.07	2.46	0.32	41.2	6.0	8	19.55
K295472		2.55			0.26	7.26	14.8	1530	2.31	0.52	0.51	0.60	44.4	3.2	5	15.40
K295473		2.62			<0.01	7.44	3.5	950	2.24	0.04	0.91	0.03	39.4	1.5	3	21.4
K295474		0.26			40.8	5.91	2660	860	1.26	39.1	1.73	45.6	36.1	18.1	22	10.70
K295475		4.53			0.06	7.10	18.0	850	2.08	0.06	0.75	0.07	38.2	1.8	3	21.2
K295476		2.16			0.16	6.76	14.4	750	2.19	0.48	0.21	0.25	36.8	2.7	4	21.9
K295477		5.36			0.17	7.31	25.2	1930	2.20	1.08	2.13	0.30	45.7	7.1	8	24.4
K295478		5.73			0.35	7.24	26.0	2270	1.71	1.14	2.43	0.78	41.4	6.6	10	23.3
K295479		6.48			0.77	7.11	40.0	2200	1.73	1.33	2.70	1.60	35.4	7.3	10	21.9
K295480		6.13			4.49	7.07	118.0	870	1.39	6.39	2.30	12.10	46.0	9.9	9	19.50

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251833

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295441		41.6	3.00	16.45	0.10	1.6	0.081	2.48	25.0	59.0	0.57	877	1.79	0.06	8.3	2.6
K295442		17.1	4.18	17.60	0.12	1.6	0.105	3.33	29.7	37.3	0.79	696	1.86	0.38	8.9	2.7
K295443		42.5	4.58	14.30	0.11	1.3	0.364	3.37	13.9	8.3	0.67	850	6.72	0.05	3.0	3.5
K295444		93.5	3.50	17.00	0.15	1.5	0.340	3.72	31.2	10.7	0.99	1480	2.28	0.04	7.6	2.1
K295445		67.7	4.46	12.25	0.11	1.1	0.389	2.69	21.4	16.6	1.35	1840	2.10	0.03	4.9	2.7
K295446		15.9	2.99	16.50	0.13	1.5	0.104	3.15	21.1	21.6	0.69	728	1.38	1.32	7.9	2.4
K295447		16.0	3.00	17.10	0.13	1.5	0.104	3.15	21.1	21.9	0.68	727	1.44	1.31	8.0	2.5
K295448		44.4	3.12	16.30	0.13	1.5	0.114	3.13	22.7	27.7	0.69	762	0.96	0.92	7.9	2.0
K295449		45.4	6.42	16.45	0.13	1.1	0.621	2.99	31.3	22.0	1.12	1340	4.96	0.03	4.9	3.5
K295450		19.7	4.13	17.15	0.14	1.4	0.373	3.43	31.3	10.7	1.06	1420	1.09	0.04	6.1	3.8
K295451		131.5	3.25	17.25	0.14	1.5	0.390	3.72	35.0	8.8	0.93	1400	1.38	0.04	6.7	3.1
K295452		186.5	2.88	15.55	0.13	1.4	0.296	3.71	12.7	7.1	0.86	2060	3.08	0.04	5.9	2.0
K295453		120.5	4.46	16.45	0.13	1.4	0.371	3.82	26.4	6.5	0.43	608	1.46	0.05	6.4	3.0
K295454		6120	5.70	12.25	0.10	1.5	0.450	1.14	9.5	14.1	1.10	1720	22.1	1.62	3.2	29.6
K295455		85.3	2.69	16.35	0.09	1.4	0.154	2.33	26.7	50.2	0.57	746	0.90	0.05	7.4	2.4
K295456		54.2	3.83	16.15	0.11	1.3	0.323	3.56	13.5	15.9	0.45	411	4.63	0.06	5.5	2.2
K295457		105.0	6.99	14.10	0.09	1.3	0.201	2.96	12.3	18.5	0.45	245	23.7	0.05	3.6	3.4
K295458		14.0	2.65	18.60	0.12	3.5	0.031	3.28	26.6	20.0	0.98	876	1.46	0.06	10.0	6.3
K295459		13.0	2.64	18.35	0.14	3.5	0.029	3.27	23.3	18.1	1.02	891	1.27	0.05	10.0	6.3
K295460		14.2	2.72	18.50	0.15	3.7	0.029	3.37	29.3	18.7	1.06	916	1.23	0.05	10.2	6.5
K295461		9.7	2.42	19.15	0.14	3.6	0.038	3.26	28.1	25.1	0.94	984	2.39	0.05	10.4	6.4
K295462		31.2	3.17	15.35	0.13	1.6	0.148	2.64	28.7	44.1	0.56	719	1.71	0.48	6.9	2.4
K295463		16.2	2.97	16.75	0.12	1.6	0.085	2.78	19.5	25.1	0.77	571	1.23	1.80	8.7	2.6
K295464		83.8	7.42	15.70	0.14	1.1	0.189	3.20	18.1	9.2	0.76	817	1.41	0.10	5.3	2.8
K295465		10.3	3.00	17.10	0.12	1.4	0.094	2.68	19.6	19.4	0.77	648	1.49	1.84	8.4	2.7
K295466		49.5	4.27	16.90	0.12	1.2	0.327	3.32	24.9	17.6	0.80	932	0.91	0.57	7.3	2.7
K295467		3.9	0.14	0.50	0.06	0.1	0.005	0.03	1.2	1.1	2.01	128	0.06	0.08	0.2	0.6
K295468		17.3	2.97	17.05	0.11	1.5	0.061	2.96	22.0	12.3	0.79	567	0.99	2.16	8.3	2.6
K295469		35.2	3.25	17.05	0.12	1.2	0.069	2.67	18.2	13.0	0.90	671	2.07	2.00	8.0	2.9
K295470		32.9	2.88	17.60	0.11	1.2	0.115	3.09	23.1	33.3	0.52	638	7.34	0.10	8.5	1.9
K295471		34.8	2.87	16.40	0.10	1.3	0.110	2.07	20.4	125.0	0.72	766	1.94	0.05	7.8	2.2
K295472		6.4	1.57	18.70	0.11	2.7	0.031	2.84	24.2	27.0	0.14	451	1.10	0.11	15.4	2.3
K295473		2.2	1.35	19.90	0.10	2.8	0.020	3.08	20.6	16.0	0.19	414	0.38	0.07	16.1	0.8
K295474		1195	9.22	14.20	0.13	0.9	1.645	2.73	19.1	16.9	0.68	2320	17.65	0.06	4.7	15.4
K295475		3.0	1.28	18.45	0.11	2.5	0.014	2.87	19.8	14.8	0.24	310	0.86	0.07	14.7	0.9
K295476		15.4	1.36	17.05	0.08	2.6	0.023	2.68	18.6	25.7	0.17	273	2.40	0.08	14.8	4.5
K295477		23.6	2.75	16.55	0.11	1.3	0.079	2.68	24.7	54.1	0.70	572	1.52	0.66	9.5	3.1
K295478		21.1	3.07	16.20	0.12	0.9	0.116	2.70	21.6	45.9	0.73	529	2.04	1.70	7.5	3.0
K295479		46.0	3.07	16.20	0.11	1.0	0.110	2.86	17.9	70.2	0.85	495	2.14	1.19	7.2	2.8
K295480		74.8	4.44	15.65	0.11	0.9	0.192	3.06	24.8	15.3	1.03	830	3.01	0.18	5.5	3.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251833

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295441		690	21.3	97.2	<0.002	0.43	8.43	12.2	1	1.7	159.5	0.68	0.09	13.75	0.284	1.35
K295442		690	81.7	145.0	<0.002	0.40	8.50	13.4	1	2.4	131.5	0.69	0.09	14.20	0.296	1.73
K295443		530	290	186.0	0.004	3.90	37.7	12.3	2	5.9	52.1	0.35	2.04	10.05	0.157	2.37
K295444		650	248	238	0.002	1.12	18.00	12.2	1	4.5	86.4	0.55	0.39	12.90	0.246	3.17
K295445		450	1320	186.5	<0.002	3.08	18.05	8.7	1	5.5	90.9	0.44	0.76	9.22	0.178	2.48
K295446		620	24.9	106.5	<0.002	0.37	5.20	11.4	1	2.2	280	0.68	0.08	11.65	0.267	1.54
K295447		610	23.2	107.0	<0.002	0.37	5.39	11.7	1	2.2	280	0.68	0.10	11.90	0.268	1.57
K295448		610	39.3	129.5	<0.002	0.58	7.86	11.4	1	3.3	221	0.68	0.14	13.15	0.259	1.80
K295449		450	2370	222	<0.002	4.98	20.9	9.8	1	8.5	66.4	0.45	0.56	11.25	0.167	2.52
K295450		580	74.2	197.0	<0.002	1.74	8.46	11.2	1	4.1	101.5	0.53	0.40	12.85	0.215	2.73
K295451		690	67.4	222	<0.002	0.80	30.0	13.1	1	3.5	66.8	0.55	0.28	13.75	0.232	3.14
K295452		670	407	232	<0.002	0.78	46.2	11.9	1	3.5	72.2	0.48	0.20	11.90	0.243	3.26
K295453		610	184.5	214	<0.002	4.03	29.8	11.2	1	7.6	18.7	0.54	0.38	11.70	0.224	2.64
K295454		460	>10000	28.1	0.009	2.32	450	12.7	2	2.0	191.0	0.22	1.23	1.92	0.236	0.55
K295455		640	18.9	109.0	<0.002	0.28	29.8	11.5	1	2.3	82.4	0.61	0.10	12.75	0.262	1.60
K295456		620	109.0	198.5	<0.002	3.12	20.7	11.3	1	7.3	45.1	0.42	0.58	10.45	0.204	2.57
K295457		440	241	176.5	<0.002	7.20	39.5	8.5	2	10.5	29.6	0.32	0.99	11.00	0.131	2.12
K295458		1090	14.1	115.5	<0.002	0.18	9.26	7.0	1	1.5	141.0	0.71	<0.05	8.36	0.295	3.01
K295459		1070	10.1	100.0	<0.002	0.14	9.07	6.7	<1	1.5	154.5	0.70	<0.05	7.29	0.283	2.81
K295460		1110	9.1	116.0	<0.002	0.15	9.33	7.0	1	1.6	164.0	0.72	<0.05	8.95	0.297	2.76
K295461		1080	8.4	121.5	<0.002	0.23	10.25	7.3	1	1.5	118.5	0.73	<0.05	8.64	0.300	2.81
K295462		520	61.9	121.0	0.002	1.51	8.78	9.5	1	2.4	194.5	0.64	0.21	16.40	0.217	1.86
K295463		610	15.1	91.8	<0.002	0.22	3.72	11.3	1	1.8	392	0.82	0.08	12.95	0.259	1.25
K295464		540	305	159.5	<0.002	7.23	7.49	10.9	2	6.7	110.0	0.43	0.58	9.96	0.188	2.24
K295465		620	16.9	85.7	<0.002	0.20	2.26	11.8	1	1.9	379	0.69	0.07	11.90	0.269	1.22
K295466		700	119.0	165.5	<0.002	2.61	4.32	13.0	1	4.8	186.0	0.57	0.67	10.60	0.272	2.16
K295467		70	0.9	1.0	<0.002	0.01	0.08	0.3	1	<0.2	77.3	<0.05	<0.05	0.17	0.008	0.02
K295468		620	16.5	91.1	<0.002	0.10	1.66	11.1	1	1.8	366	0.81	0.09	13.45	0.266	1.09
K295469		660	29.1	85.7	<0.002	0.32	2.55	12.2	1	2.1	377	0.61	0.25	9.27	0.279	1.18
K295470		660	14.4	103.0	<0.002	0.21	6.57	11.8	1	3.3	109.0	0.66	0.05	14.75	0.278	1.21
K295471		590	10.0	63.3	<0.002	0.09	16.10	10.9	<1	2.2	165.0	0.62	<0.05	12.55	0.251	1.40
K295472		380	41.9	123.5	<0.002	0.03	5.43	3.6	1	2.8	106.0	1.39	0.08	9.18	0.154	1.23
K295473		340	30.4	130.0	<0.002	0.02	1.85	2.9	1	2.7	86.7	1.63	<0.05	8.51	0.137	1.28
K295474		450	1710	152.5	0.004	7.92	106.5	9.0	1	11.4	65.7	0.39	0.74	9.43	0.164	2.22
K295475		320	26.7	118.0	<0.002	0.13	2.64	2.6	<1	2.2	89.7	1.54	<0.05	8.07	0.131	1.19
K295476		340	35.5	120.0	<0.002	0.20	6.77	2.8	<1	2.4	98.3	1.46	0.05	8.48	0.128	1.25
K295477		560	24.8	119.5	<0.002	0.59	11.85	9.2	1	2.6	337	0.73	0.17	11.60	0.227	1.43
K295478		640	55.1	116.0	<0.002	0.51	5.70	10.5	1	2.1	416	0.60	0.16	9.51	0.268	1.42
K295479		620	47.0	108.0	<0.002	0.90	8.22	9.9	1	2.6	354	0.59	0.33	9.30	0.247	1.75
K295480		550	240	204	<0.002	1.98	15.00	9.9	1	4.2	108.0	0.49	2.22	13.85	0.202	2.87

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251833

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295441		3.1	73	6.2	14.9	52	44.5	0.008
K295442		4.5	80	3.8	17.6	117	45.6	0.016
K295443		5.1	82	4.0	7.8	174	35.8	0.096
K295444		4.9	73	4.1	15.3	358	40.9	0.077
K295445		6.0	55	4.8	9.5	1520	28.8	0.257
K295446		3.5	73	1.1	16.1	57	42.0	0.093
K295447		3.7	73	1.2	16.0	54	43.6	0.087
K295448		4.2	73	1.2	15.3	55	41.9	0.008
K295449		8.2	80	4.5	10.9	2500	30.7	0.099
K295450		6.2	79	3.1	18.2	87	40.0	0.018
K295451		4.9	85	3.0	18.7	95	43.2	0.014
K295452		4.8	74	4.5	9.6	577	37.8	0.027
K295453		4.1	74	5.8	9.0	275	37.0	0.113
K295454		1.5	79	0.6	14.1	5150	49.9	0.287
K295455		4.6	74	3.6	16.0	58	38.9	0.012
K295456		5.3	70	4.3	9.0	164	34.9	0.137
K295457		10.9	55	3.8	8.3	129	40.1	0.884
K295458		4.8	64	2.0	13.3	62	138.5	0.006
K295459		4.8	62	1.8	12.8	60	135.0	0.005
K295460		5.3	64	1.9	13.3	64	138.0	0.005
K295461		4.8	64	1.8	13.7	53	139.0	0.005
K295462		4.9	61	2.1	12.9	66	44.2	0.034
K295463		4.5	75	1.5	16.3	45	43.5	0.006
K295464		4.1	67	3.0	10.3	130	31.2	0.220
K295465		3.6	77	0.8	16.1	55	37.0	0.008
K295466		3.9	81	2.7	14.6	356	30.3	0.151
K295467		0.2	1	<0.1	2.5	5	2.1	<0.005
K295468		5.1	73	0.8	16.2	63	40.3	<0.005
K295469		3.4	79	1.0	16.5	79	33.6	0.006
K295470		2.3	76	8.4	15.5	40	30.7	0.016
K295471		2.5	73	1.6	14.6	66	35.0	0.009
K295472		4.3	21	1.6	18.5	83	64.0	0.012
K295473		3.3	15	1.4	16.7	61	61.5	<0.005
K295474		5.8	56	7.1	9.7	3420	23.9	1.645
K295475		2.9	15	1.2	15.6	55	53.3	<0.005
K295476		4.0	18	1.7	13.8	73	54.4	0.015
K295477		3.7	60	1.4	17.2	65	30.9	0.038
K295478		2.7	73	1.4	15.0	105	22.5	0.032
K295479		2.6	70	2.1	13.7	150	22.8	0.063
K295480		4.2	67	2.9	15.9	617	21.6	0.321

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251833

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251838

Project: Klaza

P.O. No.: 19-082

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251838

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295481		4.60			1.44	7.26	31.6	2390	1.58	0.99	2.35	3.20	45.5	4.9	10	17.55
K295482		5.70			2.20	6.90	35.7	1850	1.57	0.87	2.19	5.28	40.4	4.6	10	16.05
K295483		6.02			0.43	7.31	20.7	2330	1.55	1.09	2.26	2.79	40.6	5.8	10	12.90
K295484		5.04			0.33	7.33	12.2	2180	1.68	0.87	2.55	0.45	38.5	4.8	10	12.00
K295485		4.69			0.58	7.07	17.0	2260	1.59	0.80	2.41	0.91	38.4	6.0	11	13.35
K295486		1.90			0.29	6.72	9.7	2090	1.59	0.63	2.64	0.74	31.6	5.7	8	16.35
K295487		1.71			0.36	6.60	10.7	2170	1.69	0.73	2.65	0.77	33.7	6.6	9	17.10
K295488		4.58			0.39	6.19	10.6	1340	2.03	0.18	3.09	0.39	45.2	4.6	12	24.3
K295489		4.97			0.15	6.15	12.5	1020	2.14	0.16	3.58	0.36	48.2	5.0	13	25.6
K295490		4.40			0.17	7.00	12.1	1820	2.18	0.19	3.08	0.41	59.6	5.2	13	27.4
K295491		1.71			0.09	7.76	12.8	3650	1.40	0.23	1.14	0.21	60.2	4.0	9	20.8
K295492		4.24			0.55	6.50	20.8	1880	1.59	0.80	2.86	1.37	41.2	6.0	9	19.80
K295493		<0.02			0.52	6.70	21.7	1930	1.63	0.80	2.86	1.32	42.7	5.8	9	20.2
K295494		4.54			0.91	6.98	17.7	2130	1.62	1.54	2.93	1.93	36.6	6.9	10	18.50
K295495		3.28			27.0	6.86	196.0	950	1.85	44.7	2.68	8.84	42.7	8.0	18	18.65
K295496		4.52			0.28	6.45	19.4	1290	1.64	0.18	3.19	0.85	42.0	5.1	28	27.7
K295497		4.79			0.24	6.79	9.7	1500	2.01	0.10	3.92	0.98	47.4	5.0	14	29.0
K295498		4.27			0.05	6.69	10.1	1050	2.05	0.03	3.38	0.29	43.3	4.7	13	32.5
K295499		0.26	104	1.010	>100	5.51	257	610	0.66	4.76	1.46	25.2	19.10	11.7	63	0.85
K295500		5.88			0.10	6.66	7.9	1220	2.02	0.05	3.05	0.49	43.6	4.6	14	31.7
K295501		6.22			0.24	7.41	12.0	2110	1.83	0.08	2.56	2.01	56.0	5.0	20	28.4
K295502		4.89			1.46	6.86	54.0	2360	1.83	2.43	2.48	5.33	52.4	7.0	24	22.9
K295503		5.70			0.44	7.22	18.1	2040	1.33	1.03	2.22	0.69	42.5	9.9	8	13.75
K295504		6.18			0.34	7.09	12.6	1700	1.25	0.56	1.88	1.14	44.2	7.5	9	14.45
K295505		4.56			0.26	7.16	12.8	2390	1.62	1.68	2.67	0.74	42.8	6.9	14	11.85
K295506		2.69			0.41	7.48	18.0	4260	1.36	0.48	1.65	1.64	49.5	6.2	9	18.75
K295507		5.05			<0.01	0.08	<0.2	20	0.07	0.01	32.6	<0.02	0.97	0.5	1	0.08
K295508		1.54			0.85	6.97	51.6	2780	1.33	0.87	2.74	1.05	49.1	6.5	8	26.5
K295509		1.90			0.53	7.28	67.8	970	1.35	0.48	1.89	3.73	47.4	8.5	8	20.9
K295510		1.14			3.41	5.91	360	510	1.29	1.01	2.18	58.3	41.5	5.4	8	13.75
K295511		3.26			0.41	7.06	21.0	2450	1.41	0.40	2.89	0.83	42.6	6.8	13	13.80
K295512		5.08			0.60	7.22	35.8	2460	1.52	0.94	2.50	0.81	44.7	8.5	12	14.05
K295513		0.26			42.5	5.98	2670	850	1.17	37.6	1.82	48.0	38.5	17.0	25	10.20
K295514		3.25			0.40	6.95	7.9	1960	1.45	1.32	2.39	0.41	61.3	5.3	9	19.80
K295515		4.83			0.77	6.75	23.0	3590	1.41	0.77	2.95	6.00	37.1	7.2	11	13.00
K295516		5.47			0.36	7.68	17.5	2500	1.50	1.63	2.56	0.44	47.8	7.1	11	9.91
K295517		3.48			0.77	6.97	64.8	2010	1.17	1.32	1.98	2.40	47.1	13.9	9	11.90
K295518		4.37			0.34	7.37	32.3	2340	1.53	1.05	2.16	0.26	47.0	14.4	10	16.05
K295519		2.99			0.39	7.14	32.0	1280	1.55	1.77	2.28	0.33	43.2	14.3	11	12.85
K295520		1.98			1.09	6.76	75.4	600	1.17	3.19	3.13	0.84	40.7	9.3	8	19.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251838

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295481		38.7	2.92	15.95	0.07	1.0	0.096	2.89	23.3	33.5	0.69	422	1.75	1.32	7.3	2.2
K295482		37.7	2.99	15.60	0.07	0.9	0.077	2.67	20.7	30.1	0.78	442	1.44	1.23	7.0	2.2
K295483		36.2	3.08	15.20	0.08	0.9	0.065	2.56	20.4	27.2	0.66	401	1.21	1.99	7.3	2.3
K295484		18.3	2.98	15.80	0.08	0.9	0.077	2.47	19.9	32.1	0.80	490	0.67	2.23	7.6	2.4
K295485		41.9	3.17	15.55	0.09	0.9	0.083	2.60	19.1	33.1	0.78	546	0.60	1.94	7.6	2.4
K295486		10.9	2.91	15.10	0.08	0.9	0.064	2.73	15.7	59.0	0.68	498	0.65	1.42	7.4	2.2
K295487		14.3	2.78	15.75	0.10	0.9	0.075	2.73	16.4	56.2	0.65	472	0.74	1.37	8.2	2.3
K295488		7.8	2.10	17.45	0.09	2.4	0.026	2.61	21.5	28.9	0.51	462	0.98	0.06	11.4	2.5
K295489		4.5	2.29	17.90	0.10	2.4	0.027	2.59	22.8	46.8	0.51	518	0.82	0.34	11.9	2.8
K295490		7.5	2.41	18.25	0.11	2.5	0.028	2.79	29.3	57.9	0.75	549	0.93	0.22	12.1	2.8
K295491		5.7	2.18	15.70	0.08	1.1	0.044	2.74	32.2	80.1	0.46	412	2.77	0.09	8.5	1.9
K295492		32.2	2.71	14.85	0.09	1.1	0.077	2.49	21.0	44.6	0.85	710	1.07	0.19	7.6	2.4
K295493		32.5	2.76	14.85	0.09	1.1	0.074	2.50	21.9	47.3	0.87	711	1.45	0.19	7.7	2.3
K295494		17.2	2.99	15.70	0.08	0.9	0.067	2.82	18.7	50.9	0.72	633	1.43	1.77	7.5	2.5
K295495		741	3.60	16.55	0.08	2.1	0.322	2.25	22.0	127.5	0.88	574	2.75	1.41	7.8	10.4
K295496		13.1	1.88	18.45	0.10	3.7	0.037	2.63	20.4	22.4	0.73	467	1.04	0.30	8.8	15.8
K295497		8.8	2.28	17.50	0.14	1.9	0.035	2.89	23.3	18.7	1.00	686	0.62	0.09	8.5	6.6
K295498		6.4	2.32	18.50	0.15	1.8	0.026	2.90	20.4	23.4	0.71	461	0.43	0.26	8.7	5.7
K295499		6190	5.75	12.00	0.10	1.5	0.420	1.11	8.2	12.1	1.13	1730	21.8	1.63	3.2	27.6
K295500		7.6	2.25	18.20	0.12	1.8	0.029	2.93	21.2	17.6	0.79	520	0.43	0.05	8.7	6.3
K295501		9.8	2.13	18.80	0.14	2.7	0.023	2.92	28.6	24.1	0.81	680	0.70	0.06	8.9	12.0
K295502		46.1	2.76	18.15	0.13	3.3	0.128	2.58	27.1	27.9	0.86	809	2.49	0.05	8.4	16.7
K295503		31.2	2.93	16.45	0.12	0.9	0.075	2.53	22.1	59.3	0.66	617	0.59	0.11	7.6	2.7
K295504		17.1	2.77	16.30	0.13	1.0	0.062	2.47	22.3	32.6	0.65	593	2.08	0.15	7.7	2.5
K295505		29.5	3.05	16.20	0.14	1.0	0.103	2.63	21.5	19.7	0.78	504	1.69	2.08	7.7	2.8
K295506		19.4	2.57	16.65	0.13	1.0	0.076	2.80	26.5	31.4	0.60	540	0.70	0.09	8.2	2.8
K295507		27.1	0.11	0.26	0.23	<0.1	0.006	0.01	1.1	1.0	1.94	130	<0.05	0.03	0.1	0.5
K295508		36.5	2.63	15.00	0.22	1.1	0.078	2.65	27.9	33.3	1.04	635	1.08	0.04	7.1	2.6
K295509		19.3	2.85	16.00	0.15	1.2	0.243	2.41	25.2	48.1	0.69	819	1.53	0.05	8.1	2.6
K295510		136.0	4.20	13.80	0.11	0.8	3.57	2.77	22.1	13.9	1.04	1580	2.16	0.03	5.8	2.4
K295511		10.8	3.02	15.95	0.14	1.0	0.060	2.87	22.0	15.4	0.83	668	2.65	1.64	7.6	2.5
K295512		54.4	3.16	16.10	0.12	0.9	0.105	2.92	23.5	17.5	0.77	451	1.12	1.89	7.6	2.7
K295513		1180	9.26	14.85	0.11	0.8	1.595	2.66	20.5	16.1	0.72	2420	18.75	0.08	4.9	15.2
K295514		13.1	2.46	15.55	0.14	1.0	0.040	2.79	33.7	64.4	0.58	468	0.61	1.20	7.5	2.5
K295515		34.0	3.00	15.25	0.13	1.1	0.068	2.52	18.6	22.6	0.85	617	1.41	1.82	7.5	2.5
K295516		39.5	3.05	16.50	0.14	1.0	0.117	2.77	25.5	16.8	0.78	482	1.00	1.76	8.0	2.4
K295517		156.0	3.47	15.35	0.11	0.9	0.127	2.57	25.5	27.7	0.74	578	3.06	0.11	7.0	3.1
K295518		94.1	2.90	16.55	0.15	1.0	0.131	2.91	24.6	20.1	0.67	347	1.29	1.36	7.8	2.5
K295519		81.0	2.88	15.85	0.12	1.0	0.110	3.08	22.5	13.5	0.68	354	2.19	1.29	7.5	2.7
K295520		84.6	4.11	14.25	0.14	0.8	0.180	3.09	21.9	15.3	1.30	570	11.45	0.09	5.6	2.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251838

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295481		640	91.6	142.5	<0.002	0.70	15.55	10.5	1	2.6	272	0.66	0.32	12.80	0.259	1.88
K295482		580	89.1	132.5	<0.002	0.74	18.90	9.3	<1	2.5	233	0.62	0.15	12.00	0.237	1.87
K295483		610	51.7	103.0	<0.002	0.62	8.07	9.3	1	2.1	333	0.66	0.20	11.75	0.252	1.35
K295484		620	26.0	99.8	<0.002	0.38	5.45	9.7	<1	2.0	381	0.70	0.21	12.65	0.257	1.32
K295485		600	41.5	112.5	<0.002	0.42	7.44	9.9	1	2.0	348	0.68	0.12	11.50	0.254	1.35
K295486		600	39.6	96.2	<0.002	0.28	6.72	9.0	<1	2.3	303	0.67	0.10	9.92	0.256	1.26
K295487		580	37.3	98.7	<0.002	0.35	7.86	9.6	<1	2.6	298	0.72	0.11	10.50	0.257	1.32
K295488		870	36.2	71.7	<0.002	0.02	8.62	4.7	<1	1.6	249	0.83	<0.05	7.44	0.256	1.23
K295489		860	28.5	70.4	<0.002	0.01	8.07	4.8	<1	1.5	424	0.84	<0.05	7.50	0.249	1.23
K295490		940	34.4	81.1	<0.002	0.03	8.90	5.6	<1	1.7	354	0.86	<0.05	9.05	0.263	1.37
K295491		620	17.1	113.0	<0.002	0.14	19.95	8.6	<1	1.6	145.5	0.79	<0.05	17.75	0.247	1.15
K295492		610	36.8	88.0	<0.002	0.35	13.75	7.9	<1	2.1	194.5	0.65	0.12	10.05	0.240	1.39
K295493		620	35.4	96.5	<0.002	0.35	14.00	8.0	1	2.2	197.5	0.65	0.14	10.95	0.242	1.40
K295494		600	77.6	102.0	<0.002	0.20	5.10	9.6	<1	2.1	366	0.67	0.17	10.80	0.254	1.22
K295495		610	299	91.9	<0.002	1.24	15.85	7.6	<1	3.5	554	0.68	0.36	10.95	0.250	1.45
K295496		680	62.2	74.6	<0.002	0.08	6.57	4.8	1	1.7	387	0.66	<0.05	7.33	0.260	1.51
K295497		810	82.3	89.7	<0.002	0.07	3.86	5.1	<1	1.7	297	0.58	<0.05	6.89	0.271	1.55
K295498		830	33.2	91.6	<0.002	0.02	4.58	5.1	1	1.5	318	0.60	<0.05	6.51	0.269	1.54
K295499		470	>10000	28.0	0.010	2.35	463	11.1	2	2.1	194.0	0.20	1.24	1.75	0.240	0.50
K295500		810	31.3	87.1	<0.002	0.02	5.49	4.9	<1	1.3	287	0.62	<0.05	6.69	0.264	1.52
K295501		810	209	103.0	<0.002	0.07	7.00	5.8	<1	1.7	311	0.65	<0.05	9.14	0.274	1.49
K295502		620	160.5	102.0	<0.002	0.92	16.95	6.2	1	2.7	234	0.62	0.14	9.85	0.244	1.53
K295503		600	34.2	83.3	<0.002	0.39	13.40	9.3	<1	2.2	154.0	0.55	0.20	9.82	0.253	1.30
K295504		610	34.3	85.8	<0.002	0.26	13.55	9.5	<1	1.9	113.5	0.58	0.12	10.35	0.254	1.22
K295505		620	35.9	98.4	<0.002	0.36	4.08	9.8	<1	1.9	373	0.56	0.27	10.40	0.253	1.26
K295506		640	96.4	105.0	<0.002	0.34	11.40	10.2	<1	2.5	122.5	0.60	0.12	11.40	0.266	1.40
K295507		70	0.6	0.5	<0.002	0.01	0.06	0.2	1	3.6	78.9	<0.05	<0.05	0.08	0.005	<0.02
K295508		550	93.3	141.0	<0.002	0.71	26.3	9.0	<1	2.1	128.5	0.58	0.18	11.60	0.230	1.98
K295509		620	55.4	103.0	<0.002	0.66	20.3	9.7	<1	2.7	109.0	0.69	0.09	11.70	0.251	1.74
K295510		470	386	180.5	<0.002	3.12	40.3	7.6	<1	6.9	62.6	0.44	0.23	9.54	0.192	2.40
K295511		620	53.2	102.5	<0.002	0.47	10.00	9.2	<1	2.0	346	0.54	0.08	9.36	0.254	1.38
K295512		600	46.1	121.0	<0.002	0.92	16.65	9.3	1	2.5	346	0.55	0.24	9.60	0.253	1.51
K295513		470	1740	157.0	0.002	8.08	113.0	8.2	2	11.5	70.5	0.39	0.72	8.62	0.172	2.23
K295514		570	21.6	102.0	<0.002	0.05	5.48	8.3	1	2.3	290	0.58	0.56	12.70	0.235	1.08
K295515		610	169.0	84.2	<0.002	0.61	17.40	9.0	<1	2.2	409	0.57	0.15	8.42	0.245	1.17
K295516		660	23.3	104.5	<0.002	0.25	8.28	10.3	<1	2.4	332	0.60	0.19	11.45	0.272	1.26
K295517		550	69.4	105.0	0.002	1.31	36.3	9.2	1	3.1	129.0	0.51	0.34	9.99	0.233	1.57
K295518		630	18.9	116.0	<0.002	0.54	14.40	10.0	<1	3.0	266	0.57	0.08	10.10	0.257	1.65
K295519		600	19.1	130.0	0.003	1.43	11.70	9.5	1	3.2	253	0.61	0.29	10.05	0.236	1.97
K295520		540	47.9	159.0	0.009	2.97	12.95	8.6	2	4.6	123.0	0.43	1.16	10.40	0.200	2.33

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251838

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295481		4.3	75	1.3	15.1	282	22.2	0.051
K295482		3.5	67	1.5	13.8	349	21.8	0.050
K295483		2.7	70	1.0	13.9	205	22.1	0.035
K295484		3.2	69	0.8	15.0	66	22.7	0.019
K295485		2.8	70	1.0	14.3	92	21.6	0.015
K295486		2.4	68	0.9	13.8	104	20.7	0.008
K295487		3.0	69	1.0	14.1	104	22.3	0.010
K295488		4.6	50	1.5	10.3	119	79.9	<0.005
K295489		3.4	50	1.1	11.0	132	82.8	<0.005
K295490		4.1	52	1.2	12.7	125	86.7	0.005
K295491		2.6	57	9.6	13.8	59	29.2	<0.005
K295492		2.8	60	1.9	13.5	155	33.1	0.015
K295493		2.9	61	2.0	14.2	156	33.1	0.014
K295494		2.4	70	1.1	14.4	166	21.5	0.015
K295495		3.7	61	1.9	12.9	685	72.4	0.481
K295496		5.0	49	1.1	9.4	130	137.5	0.005
K295497		3.8	50	1.3	11.6	145	55.1	0.005
K295498		2.9	51	0.9	10.2	103	50.0	<0.005
K295499		1.2	80	0.6	14.9	5190	55.5	0.269
K295500		2.2	50	1.6	10.3	114	54.4	<0.005
K295501		4.4	53	1.8	11.5	173	89.8	0.005
K295502		5.4	52	1.6	12.1	381	122.0	0.032
K295503		2.4	71	2.3	12.7	77	23.0	0.019
K295504		2.2	71	7.1	15.3	104	23.4	0.013
K295505		2.7	73	1.8	15.0	66	22.9	0.020
K295506		2.2	73	4.7	15.6	121	23.5	0.042
K295507		0.1	1	0.1	2.0	4	1.3	<0.005
K295508		2.5	69	2.1	12.7	95	21.9	0.113
K295509		2.5	71	4.1	15.1	309	27.1	0.036
K295510		9.1	55	5.1	9.1	4450	19.3	1.195
K295511		2.9	71	2.1	12.8	91	24.0	0.034
K295512		3.1	73	1.4	13.4	81	22.6	0.107
K295513		5.2	58	7.2	9.8	3580	24.9	1.855
K295514		2.1	63	1.7	13.6	80	23.4	<0.005
K295515		3.0	71	1.3	13.4	332	23.6	0.088
K295516		3.0	76	1.5	17.1	59	24.8	0.039
K295517		4.1	67	2.7	14.1	163	21.9	0.156
K295518		3.9	71	1.7	14.7	51	23.4	0.044
K295519		4.3	70	1.9	15.5	44	23.6	0.051
K295520		3.6	63	2.6	13.0	89	21.7	0.193

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251838

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251844

Project: Klaza

P.O. No.: 19-083

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251844

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295521		4.56			0.68	7.09	63.7	1730	1.51	1.85	2.43	0.74	43.4	6.3	8	22.1
K295522		4.18			0.42	7.34	24.9	2890	1.67	1.21	2.10	0.91	40.9	6.9	8	22.4
K295523		3.05			0.41	7.76	40.5	2530	1.76	1.22	2.09	0.84	53.8	9.1	9	25.3
K295524		1.48			1.54	4.75	124.5	100	1.05	2.96	6.00	2.46	26.9	13.0	6	12.25
K295525		5.09			0.89	7.07	102.5	1450	1.43	1.15	2.54	2.06	45.3	8.4	8	21.3
K295526		4.01			1.46	7.02	90.3	360	1.32	1.53	2.66	4.96	45.4	10.8	8	19.40
K295527		1.95			1.01	7.01	82.3	1270	1.38	0.72	2.72	1.31	50.0	4.9	8	21.2
K295528		1.78			1.17	7.39	93.2	1740	1.38	0.91	2.22	0.91	53.7	5.8	8	23.9
K295529		5.56			1.79	7.47	79.3	1750	1.51	1.02	2.78	10.85	46.6	7.4	9	20.4
K295530		5.25			0.60	7.63	43.0	3040	1.20	0.74	1.87	1.27	45.0	13.0	9	17.30
K295531		6.25			0.24	7.61	20.9	3240	1.12	0.53	1.72	0.52	52.2	6.2	8	13.35
K295532		3.40			0.28	6.92	59.7	2020	1.03	0.59	1.40	0.50	53.8	7.6	7	16.15
K295533		0.26	101	0.962	>100	5.64	247	510	0.68	4.96	1.48	26.0	19.55	12.0	66	0.84
K295534		5.19			0.48	6.68	84.6	1910	1.23	0.78	2.06	0.99	46.4	14.4	8	20.7
K295535		5.60			0.94	6.84	62.1	1110	1.18	1.80	2.37	1.05	47.6	6.8	8	19.35
K295536		5.72			0.62	6.94	52.8	1820	1.32	3.73	3.26	0.64	46.6	7.4	8	18.90
K295537		4.93			3.60	7.64	43.3	880	1.27	2.47	2.28	1.73	43.5	16.5	13	12.05
K295538		3.82			1.39	7.05	30.4	1720	1.29	0.85	2.08	6.31	42.8	8.4	8	11.45
K295539		2.46			1.61	7.56	111.0	790	1.54	1.72	1.90	3.81	51.2	6.3	9	19.80
K295540		0.26			40.4	5.56	2520	210	1.08	36.0	1.62	46.4	35.8	16.6	23	9.40
K295541		3.07			2.19	7.53	111.0	1140	1.53	2.57	1.65	2.82	58.9	5.5	8	19.15
K295542		1.19			0.43	7.28	46.8	1860	1.51	1.00	2.27	0.36	50.8	7.4	9	22.0
K295543		4.80			0.46	7.13	31.6	2330	1.57	0.94	2.49	1.09	42.7	7.0	9	13.15
K295544		4.42			0.23	6.93	13.1	2330	1.54	0.58	2.60	0.17	41.1	7.6	13	12.25
K295545		4.74			0.26	7.56	20.2	2120	1.39	0.63	2.05	0.29	44.9	6.9	10	16.70
K295546		3.04			0.61	7.46	57.9	1270	1.44	2.00	2.29	0.95	49.5	8.0	9	11.95
K295547		3.61			0.62	7.51	39.6	2030	1.72	1.71	2.27	0.46	47.6	8.5	11	12.35
K295548		<0.02			0.53	7.70	40.7	2030	1.63	1.71	2.23	0.48	54.5	8.2	9	12.30
K295549		4.94			0.38	6.75	22.0	2640	1.46	1.50	2.83	0.97	39.9	6.7	8	18.40
K295550		4.33			0.67	7.39	49.0	2190	1.41	0.99	2.41	0.92	53.1	6.6	10	21.1
K295551		4.30	129		>100	6.39	500	340	1.24	211	1.13	51.8	30.2	23.0	8	9.07
K295552		4.32			2.03	7.28	66.5	1250	1.46	2.01	1.73	1.96	56.8	6.8	9	13.55
K295553		5.01			1.17	7.22	53.5	1770	1.46	1.67	2.25	0.65	46.4	5.1	10	18.65
K295554		2.23			1.21	7.71	61.5	1560	1.53	3.00	1.63	0.36	55.8	10.5	9	21.7
K295555		4.91			0.03	0.09	<0.2	20	0.06	0.04	33.2	0.02	1.06	0.5	1	0.10
K295556		3.83			1.33	6.64	210	1610	1.38	1.05	3.48	6.53	45.4	5.4	18	18.30
K295557		5.60			0.49	7.03	48.9	2120	1.72	0.18	2.60	1.62	55.3	7.0	18	14.25
K295558		4.52			0.41	7.70	25.2	2330	1.91	0.18	2.56	4.32	64.3	7.5	19	14.15
K295559		2.19			7.87	6.74	300	520	1.64	4.94	2.36	74.8	47.0	6.6	8	14.60
K295560		3.00			7.33	7.62	320	850	1.64	0.93	1.70	100.0	49.9	5.5	9	18.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251844

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295521		85.0	2.58	16.10	0.13	0.9	0.159	2.87	22.7	29.2	0.83	553	1.31	0.19	7.9	2.5
K295522		42.0	2.76	16.30	0.13	0.9	0.125	3.42	20.9	38.8	0.61	475	1.95	0.55	7.2	2.5
K295523		26.9	3.28	16.90	0.15	1.2	0.102	3.62	28.7	16.6	0.76	503	1.21	0.15	8.1	2.6
K295524		84.1	5.39	10.90	0.13	0.6	0.109	2.07	14.1	12.6	2.46	1630	12.00	0.04	3.9	2.1
K295525		92.5	2.90	16.80	0.14	1.0	0.154	3.15	23.5	18.3	0.89	771	1.09	0.06	7.9	2.3
K295526		53.2	3.76	15.45	0.12	0.9	0.106	2.81	23.6	22.1	1.02	905	2.57	0.04	6.8	2.8
K295527		87.4	2.82	15.40	0.16	0.9	0.098	2.83	27.7	20.0	1.02	636	0.52	0.04	6.8	2.4
K295528		84.8	2.88	16.60	0.15	1.0	0.120	3.01	29.8	18.2	0.86	567	0.71	0.04	7.5	2.6
K295529		74.5	2.87	17.05	0.13	0.9	0.192	2.90	24.8	28.1	0.97	564	2.34	0.05	7.6	2.4
K295530		159.5	2.96	15.90	0.13	1.0	0.154	2.57	24.0	28.8	0.71	558	2.60	0.07	7.7	2.5
K295531		38.4	3.19	16.30	0.13	1.2	0.098	2.17	28.3	37.5	0.68	609	1.47	0.06	8.1	2.0
K295532		62.2	2.86	14.05	0.15	1.1	0.085	2.13	30.2	44.1	0.52	447	2.24	0.04	7.2	2.8
K295533		6300	5.83	11.70	0.10	1.6	0.436	1.15	8.3	12.0	1.14	1760	21.9	1.66	3.2	27.4
K295534		117.5	2.86	13.60	0.12	1.0	0.094	2.12	25.9	40.1	0.69	518	2.36	0.03	6.6	2.7
K295535		46.5	3.06	14.20	0.13	1.0	0.105	2.45	26.3	28.9	0.89	975	0.75	0.04	6.8	2.4
K295536		56.7	3.01	14.50	0.15	0.9	0.100	2.52	25.6	25.2	1.02	881	0.64	0.05	6.7	2.2
K295537		140.5	4.10	17.05	0.14	1.2	0.160	2.09	22.3	31.2	0.86	615	2.28	0.04	7.0	5.9
K295538		82.4	2.83	14.95	0.14	1.2	0.173	2.59	22.5	36.4	0.74	544	0.86	0.06	7.5	2.0
K295539		83.5	3.24	15.75	0.14	1.1	0.229	3.39	28.3	10.6	0.83	1100	1.20	0.05	5.6	2.7
K295540		1130	8.80	13.35	0.10	0.8	1.560	2.53	18.3	14.7	0.65	2220	16.40	0.06	4.6	13.9
K295541		135.5	3.54	15.65	0.14	0.9	0.232	3.44	33.5	8.4	0.82	1040	1.95	0.04	6.2	2.2
K295542		66.7	2.93	15.90	0.13	1.0	0.152	2.85	27.2	24.7	0.87	607	10.60	0.05	7.5	2.3
K295543		47.8	3.21	16.10	0.13	1.0	0.143	2.79	22.4	16.1	0.80	589	2.97	1.27	7.9	2.4
K295544		25.4	2.88	15.85	0.13	1.0	0.084	2.71	21.4	16.0	0.71	488	2.33	2.09	7.8	2.7
K295545		26.8	2.78	15.75	0.14	1.0	0.098	2.67	23.4	26.7	0.65	562	0.76	0.77	8.2	2.4
K295546		137.0	3.16	16.35	0.13	1.0	0.130	3.11	25.8	31.1	0.86	709	1.31	0.06	5.9	2.7
K295547		35.3	3.58	16.95	0.15	1.0	0.117	3.22	24.9	12.2	0.85	593	11.90	1.40	8.3	2.7
K295548		31.9	3.53	16.65	0.16	1.0	0.116	3.17	29.4	12.4	0.85	562	6.24	1.42	8.2	2.5
K295549		29.0	2.96	15.80	0.16	1.1	0.084	2.77	20.1	28.7	0.76	517	3.40	1.02	8.2	2.3
K295550		36.2	3.37	15.70	0.12	1.0	0.101	2.97	29.5	27.7	0.94	550	6.31	0.07	7.4	2.7
K295551		1600	6.66	15.75	0.11	0.7	1.990	2.99	16.4	6.7	0.62	814	7.96	0.05	3.9	2.8
K295552		115.5	2.78	15.85	0.18	0.9	0.128	3.39	31.8	10.2	0.79	723	3.01	0.05	4.7	2.5
K295553		42.3	3.10	15.65	0.16	0.9	0.113	3.09	24.8	7.4	0.93	569	1.95	0.08	7.5	2.3
K295554		37.5	3.10	16.60	0.15	0.9	0.159	3.27	31.0	9.7	0.82	712	1.67	0.08	7.9	2.6
K295555		1.2	0.14	0.28	0.16	<0.1	0.007	0.02	1.1	1.0	2.05	132	<0.05	0.03	0.1	0.5
K295556		52.8	2.91	14.25	0.20	1.2	0.078	2.91	23.7	12.5	1.31	1320	10.95	0.04	7.6	2.9
K295557		8.5	2.36	17.90	0.23	3.5	0.037	3.23	27.6	16.4	1.00	913	1.94	0.05	10.1	6.1
K295558		20.7	2.77	18.55	0.23	3.5	0.037	3.38	33.3	15.9	1.10	804	0.94	0.06	10.7	6.6
K295559		118.0	4.48	14.30	0.12	1.4	0.755	2.96	24.8	20.2	1.08	1520	1.83	0.04	7.0	3.6
K295560		192.0	3.84	15.75	0.13	1.3	0.835	3.17	27.2	6.9	0.77	1340	2.06	0.06	8.1	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251844

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295521		630	47.8	122.5	0.002	0.72	20.1	9.9	<1	3.3	168.0	0.55	0.24	10.70	0.250	2.20
K295522		620	49.7	156.5	<0.002	1.10	16.80	9.6	1	3.0	179.5	0.51	0.26	9.35	0.254	2.53
K295523		670	34.1	157.5	<0.002	1.24	9.55	10.5	1	3.8	147.0	0.68	0.24	11.95	0.259	2.66
K295524		370	106.5	114.5	0.011	3.76	20.6	6.8	1	3.3	184.5	0.31	0.75	6.37	0.148	1.82
K295525		620	56.8	140.0	0.002	1.53	22.5	9.7	<1	3.4	105.0	0.60	0.31	10.25	0.253	3.00
K295526		610	134.5	140.0	0.002	2.69	19.65	9.2	1	3.1	102.5	0.50	0.40	10.30	0.225	2.82
K295527		570	61.0	151.0	<0.002	0.99	22.5	9.7	<1	3.3	129.5	0.51	0.19	10.35	0.229	2.49
K295528		640	53.7	150.0	<0.002	1.14	23.2	10.4	1	3.4	97.1	0.56	0.28	12.15	0.252	2.72
K295529		660	416	134.0	<0.002	1.11	20.0	10.2	1	3.7	176.0	0.51	0.33	10.35	0.257	2.44
K295530		670	63.3	108.0	<0.002	0.72	42.8	9.6	<1	2.8	104.5	0.54	0.14	10.60	0.265	2.05
K295531		660	20.5	95.5	<0.002	0.49	16.65	10.0	<1	2.8	111.0	0.67	0.12	12.55	0.262	1.55
K295532		560	20.2	99.5	<0.002	0.96	29.2	9.4	1	2.4	129.0	0.65	0.14	12.05	0.233	1.51
K295533		470	>10000	28.1	0.009	2.35	471	11.7	2	2.0	196.5	0.21	1.29	1.84	0.249	0.47
K295534		540	26.8	105.0	0.003	0.79	40.8	9.4	1	2.6	99.5	0.52	0.16	11.20	0.222	1.65
K295535		530	40.1	119.5	<0.002	1.09	21.5	9.0	1	2.8	88.7	0.59	0.36	11.95	0.224	1.90
K295536		560	38.0	120.5	<0.002	0.95	19.10	9.5	1	2.8	106.5	0.53	0.33	11.70	0.224	1.94
K295537		890	61.2	92.1	<0.002	1.75	42.8	13.1	1	3.7	110.5	0.53	0.56	9.83	0.316	1.85
K295538		580	315	105.5	<0.002	0.71	26.6	9.2	<1	2.1	115.5	0.68	0.27	11.75	0.235	1.83
K295539		560	150.5	177.5	0.002	1.97	18.20	9.5	1	3.8	87.3	0.50	0.51	12.85	0.203	2.72
K295540		430	1615	150.5	<0.002	7.56	105.0	8.0	2	11.2	62.1	0.38	0.67	8.13	0.163	2.04
K295541		550	100.5	194.5	<0.002	1.64	21.1	9.6	1	4.6	66.0	0.55	0.55	14.75	0.218	2.85
K295542		600	20.8	124.0	0.002	0.66	14.80	9.9	1	2.6	115.5	0.66	0.18	13.20	0.249	2.23
K295543		620	55.4	111.0	<0.002	0.66	6.41	10.1	1	3.3	290	0.62	0.15	11.10	0.260	1.74
K295544		590	16.9	93.1	<0.002	0.16	4.68	9.6	1	2.3	380	0.62	<0.05	10.80	0.252	1.29
K295545		660	17.9	103.5	<0.002	0.24	8.84	10.3	1	2.3	199.5	0.63	0.06	11.95	0.271	1.39
K295546		610	28.7	148.0	<0.002	1.37	33.1	10.2	1	3.7	95.9	0.44	0.64	13.00	0.205	2.37
K295547		740	35.9	141.5	0.002	1.09	4.58	10.7	1	4.9	260	0.68	0.40	12.60	0.263	2.05
K295548		720	34.4	155.0	<0.002	1.10	4.35	11.3	1	4.8	264	0.68	0.29	14.65	0.261	2.01
K295549		580	54.3	94.4	0.002	0.23	7.88	9.6	1	2.5	243	0.69	0.37	10.60	0.252	1.61
K295550		610	31.1	145.5	0.002	0.96	11.30	10.3	1	3.0	122.0	0.61	0.23	13.90	0.240	2.09
K295551		470	1685	163.5	<0.002	6.41	59.1	8.7	2	9.8	38.5	0.31	1.71	10.75	0.144	2.13
K295552		560	38.7	223	<0.002	1.72	21.8	9.6	1	3.7	105.0	0.37	0.69	12.50	0.168	2.86
K295553		600	27.4	142.0	<0.002	0.82	9.51	10.0	1	3.0	118.5	0.61	0.32	11.75	0.238	2.31
K295554		660	29.8	170.5	<0.002	0.89	11.25	10.7	1	3.1	106.0	0.56	0.21	14.75	0.263	2.65
K295555		70	0.7	0.9	<0.002	0.01	0.10	0.2	1	<0.2	76.5	<0.05	<0.05	0.12	0.005	0.03
K295556		670	59.3	158.5	<0.002	1.34	24.1	10.6	1	2.3	154.0	0.62	0.13	9.51	0.252	3.23
K295557		1070	36.8	130.0	<0.002	0.42	12.15	6.7	1	1.4	162.5	0.68	<0.05	7.93	0.308	2.72
K295558		1200	38.8	155.0	<0.002	0.23	10.15	7.3	1	1.5	183.5	0.67	<0.05	9.00	0.323	2.65
K295559		600	1345	187.5	<0.002	3.00	14.70	8.5	1	4.6	96.7	0.65	0.09	10.80	0.214	2.82
K295560		580	3460	175.5	<0.002	1.95	12.25	10.0	1	6.0	79.8	0.75	0.14	14.15	0.250	2.53

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251844

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
K295521		3.1	69	2.1	15.9	108	23.9	0.075
K295522		3.7	71	1.7	14.0	103	22.9	0.033
K295523		3.5	77	3.0	18.1	208	30.6	0.060
K295524		4.9	55	2.3	14.5	217	14.8	0.290
K295525		3.6	75	2.5	12.6	142	23.7	0.233
K295526		3.8	69	2.7	13.8	295	22.4	0.163
K295527		4.7	68	2.2	14.1	157	20.9	0.063
K295528		5.4	72	1.9	13.8	134	23.6	0.071
K295529		3.8	73	2.0	14.6	879	22.1	0.066
K295530		2.9	73	1.6	13.3	126	22.9	0.070
K295531		2.2	71	2.2	13.9	77	25.9	0.040
K295532		4.0	62	1.8	11.6	84	24.7	0.066
K295533		1.3	82	0.6	13.0	5280	68.7	0.296
K295534		3.2	62	2.1	13.4	210	23.3	0.079
K295535		2.8	62	1.5	11.8	256	24.1	0.076
K295536		3.4	66	2.0	13.2	112	23.4	0.076
K295537		2.9	106	2.9	14.1	191	32.8	0.102
K295538		2.7	67	2.0	11.5	645	31.1	0.066
K295539		3.0	68	3.2	10.1	308	30.8	0.113
K295540		5.0	54	7.1	8.5	3240	21.9	1.660
K295541		2.8	67	4.1	11.4	247	23.4	0.084
K295542		3.3	69	2.3	13.6	86	24.3	0.036
K295543		3.2	72	2.4	14.7	125	28.1	0.092
K295544		3.1	70	1.0	14.5	38	27.9	0.008
K295545		3.0	72	3.9	14.1	56	25.4	0.017
K295546		5.0	70	1.9	13.1	105	27.0	0.149
K295547		4.5	76	2.5	15.4	75	28.6	0.062
K295548		4.6	75	2.4	16.0	71	26.0	0.059
K295549		3.9	69	3.0	13.7	95	28.2	0.057
K295550		5.2	71	2.4	13.3	115	24.6	0.055
K295551		3.6	59	6.1	7.8	3280	17.9	0.717
K295552		3.4	65	2.8	10.5	188	24.5	0.137
K295553		4.0	68	2.2	12.0	92	25.8	0.057
K295554		5.9	72	2.1	12.3	79	22.9	0.054
K295555		0.2	2	0.1	2.0	4	1.3	<0.005
K295556		3.8	70	4.5	12.6	401	36.6	0.528
K295557		5.5	64	2.0	12.0	159	145.5	0.010
K295558		5.8	67	2.0	13.0	300	151.5	0.005
K295559		6.3	57	4.7	9.7	4990	40.1	0.166
K295560		4.8	67	4.2	12.0	6870	34.6	0.117

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251844

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251846

Project: Klaza

P.O. No.: 19-084

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251846

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295561		3.72			0.87	7.39	60.9	1370	1.39	1.68	2.17	1.71	48.7	5.9	9	23.0
K295562		1.07			2.44	6.60	206	470	1.26	2.66	1.61	19.35	52.7	12.5	10	13.75
K295563		4.76			0.38	7.18	39.9	1690	1.30	0.80	2.11	0.61	44.6	4.4	10	21.6
K295564		4.07			0.36	7.81	27.0	1390	1.32	1.28	1.86	0.56	50.9	8.5	11	21.9
K295565		2.67			7.09	7.03	210	300	1.53	7.56	1.77	52.6	48.7	12.3	10	20.1
K295566		2.30			0.99	6.97	56.4	1710	1.57	2.23	2.45	1.03	52.3	12.9	10	20.6
K295567		1.94			0.82	7.48	46.1	1460	1.52	1.53	2.26	0.88	55.7	12.7	9	21.3
K295568		4.87			0.34	7.96	28.0	1890	1.61	0.56	1.66	0.18	45.7	7.2	10	17.90
K295569		1.22			1.14	7.33	84.1	1510	1.69	0.89	2.65	3.86	49.0	7.8	9	19.65
K295570		2.49			1.87	7.23	211	530	1.51	1.02	2.24	23.2	49.2	7.1	9	16.05
K295571		2.68			0.94	7.37	178.5	630	1.47	2.07	2.96	0.88	53.2	12.9	10	20.5
K295572		4.78			0.72	7.43	76.0	1610	1.67	1.37	3.07	1.22	50.7	6.9	11	19.55
K295573		<0.02			0.70	7.11	80.4	1630	1.62	1.48	3.07	1.21	46.4	6.9	11	19.65
K295574		1.77			1.25	7.23	99.4	1090	1.77	1.30	2.27	1.46	42.6	5.5	8	25.8
K295575		2.36			5.27	6.24	357	430	1.38	1.66	2.33	5.82	45.1	7.3	9	15.75
K295576		3.34			1.24	7.21	72.6	2120	1.56	1.17	1.96	1.58	46.7	5.4	11	19.90
K295577		2.71			1.87	7.26	150.0	690	1.45	1.93	1.39	4.73	60.6	34.0	13	13.50
K295578		2.71			1.44	6.85	66.8	350	1.36	2.76	1.55	3.73	47.2	16.3	11	11.55
K295579		5.51			0.65	7.47	48.0	560	1.45	2.84	1.94	0.56	48.0	9.7	10	13.60
K295580		0.26	101	1.020	>100	5.64	271	590	0.66	5.09	1.46	23.7	19.15	12.0	64	0.89
K295581		4.56			0.22	7.44	12.6	2610	1.82	0.97	2.42	0.38	41.4	5.3	10	17.05
K295582		4.93			0.23	6.99	19.6	2860	1.60	0.63	3.45	0.49	46.0	7.1	9	21.3
K295583		4.16			0.34	7.40	13.2	2390	1.55	1.11	2.27	0.15	37.3	5.0	11	14.55
K295584		4.63			0.19	7.19	13.2	2400	1.65	0.62	2.97	0.16	41.4	6.4	12	16.35
K295585		4.54			0.14	7.58	6.7	2240	1.72	0.52	2.64	0.16	48.7	7.6	13	13.05
K295586		1.60			0.10	7.09	11.8	1930	1.51	0.23	2.71	0.17	44.2	6.1	12	17.35
K295587		0.26			40.2	5.94	2710	780	1.12	38.2	1.72	44.4	35.0	16.6	24	10.45
K295588		4.99			0.24	7.41	13.8	2320	1.59	1.02	2.70	0.28	39.9	7.8	14	15.40
K295589		4.54			0.29	7.33	10.5	2090	1.85	1.01	2.71	0.59	46.4	7.6	11	12.20
K295590		5.31			0.84	7.21	38.3	1970	1.47	1.07	2.06	1.21	33.3	7.6	10	19.65
K295591		5.22			1.51	7.60	54.3	2530	1.49	2.05	2.26	2.67	47.0	7.3	8	20.0
K295592		5.62			0.27	7.44	19.9	3180	1.60	0.70	2.45	1.29	49.0	7.0	9	24.4
K295593		5.24			0.02	0.22	<0.2	30	0.15	0.02	33.0	0.03	1.27	0.6	1	0.11
K295594		3.96			0.26	8.08	15.7	2530	1.58	1.22	2.23	0.30	49.7	6.6	9	19.85
K295595		4.90			0.80	7.13	52.5	2770	1.33	1.83	1.93	1.01	38.9	6.4	9	20.0
K295596		3.98			1.20	6.51	65.3	1670	1.41	0.87	1.95	11.45	36.9	5.5	8	16.05
K295597		3.27			0.30	7.80	45.8	1870	1.55	0.54	1.54	0.89	44.1	7.3	9	22.4
K295598		3.45			0.42	6.81	35.2	1690	1.54	0.84	2.78	0.65	39.5	6.5	8	21.3
K295599		4.93			0.28	7.24	51.6	2690	1.45	0.27	2.35	0.65	42.1	6.1	8	25.5
K295600		4.13			0.37	7.00	39.9	1710	1.65	0.41	3.64	1.56	46.6	6.5	8	21.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251846

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295561		29.8	3.49	15.80	0.13	1.1	0.128	3.04	25.8	9.4	0.90	715	0.68	0.06	7.7	2.3
K295562		86.3	4.37	14.15	0.12	0.9	0.353	2.96	30.3	14.7	0.81	1030	1.69	0.04	6.1	3.7
K295563		15.8	2.80	15.60	0.12	1.1	0.094	2.66	23.5	36.6	0.73	722	0.61	0.06	7.8	2.2
K295564		13.3	3.06	16.60	0.14	1.0	0.116	2.44	27.3	80.7	0.65	749	0.71	0.07	8.2	2.0
K295565		122.5	4.92	15.30	0.12	1.0	0.642	3.13	27.1	9.5	0.79	1540	2.65	0.04	6.7	2.7
K295566		33.3	3.37	15.45	0.13	1.2	0.127	2.94	28.6	9.1	0.93	870	0.94	0.05	7.7	2.1
K295567		27.5	3.15	15.80	0.14	1.2	0.138	3.11	31.8	9.1	0.90	796	0.99	0.05	7.7	2.2
K295568		19.3	3.02	16.90	0.10	1.4	0.076	3.35	23.4	8.8	0.67	692	1.82	0.05	9.4	2.2
K295569		43.1	3.29	15.60	0.12	1.3	0.131	2.97	26.4	14.5	0.97	1440	2.35	0.04	8.0	2.5
K295570		36.4	4.08	15.00	0.11	1.2	0.346	2.90	27.1	14.7	0.85	1690	4.30	0.04	7.3	2.9
K295571		71.6	3.39	15.35	0.11	1.1	0.164	3.10	30.0	10.4	1.12	960	1.45	0.04	7.4	2.6
K295572		24.8	3.08	15.65	0.12	1.1	0.306	2.92	27.2	19.5	1.11	1120	3.76	0.04	7.7	2.6
K295573		24.7	3.06	15.65	0.13	1.1	0.303	2.88	24.6	19.4	1.09	1120	3.48	0.04	8.0	2.6
K295574		24.4	2.98	15.35	0.11	1.3	0.111	3.24	22.2	10.7	0.93	1710	14.05	0.04	8.1	2.0
K295575		175.5	4.57	13.75	0.11	0.9	0.271	2.97	26.1	16.4	0.99	1690	1.43	0.03	6.0	2.2
K295576		98.2	3.03	15.45	0.12	1.0	0.153	3.25	25.5	14.5	0.79	1500	2.39	0.03	7.2	2.3
K295577		105.0	4.43	16.40	0.12	0.9	0.304	3.35	32.7	15.5	0.69	1020	3.61	0.04	6.1	2.9
K295578		105.0	4.19	14.55	0.11	0.8	0.356	3.37	26.0	12.7	0.74	1140	1.57	0.05	4.2	2.5
K295579		104.5	4.04	16.25	0.12	1.0	0.216	3.62	25.3	19.9	0.65	449	0.81	0.42	7.1	2.0
K295580		6250	5.92	11.95	0.08	1.5	0.425	1.15	9.1	13.0	1.14	1740	20.0	1.67	3.3	26.8
K295581		14.4	3.30	16.30	0.11	1.1	0.098	3.05	21.1	21.5	0.82	500	0.74	1.32	8.8	2.3
K295582		11.9	3.44	15.25	0.11	1.0	0.070	2.57	24.4	44.6	1.11	929	1.21	0.09	7.8	2.4
K295583		11.0	3.24	16.00	0.11	0.9	0.072	2.78	18.9	20.3	0.78	467	2.80	1.58	7.7	2.4
K295584		24.5	2.99	16.20	0.12	1.0	0.097	2.72	21.5	23.7	0.86	560	1.72	1.80	8.3	2.5
K295585		13.4	2.96	16.55	0.13	1.1	0.085	2.81	26.2	19.1	0.78	483	2.46	2.26	8.4	2.5
K295586		10.8	2.76	15.15	0.14	1.0	0.050	2.66	22.9	30.4	0.78	592	3.57	1.94	7.6	2.4
K295587		1200	9.37	13.75	0.10	0.8	1.535	2.69	18.5	16.6	0.69	2340	16.45	0.06	4.7	14.1
K295588		27.8	3.18	16.10	0.12	1.1	0.120	2.98	20.7	24.6	0.77	612	1.60	2.03	8.3	2.5
K295589		19.7	3.13	16.70	0.12	1.3	0.123	2.95	24.1	17.0	0.79	645	4.47	1.90	9.0	2.6
K295590		24.2	3.73	16.70	0.09	1.3	0.121	3.18	16.3	26.9	0.39	969	1.03	0.08	8.6	2.8
K295591		32.5	3.73	16.05	0.11	1.1	0.121	3.42	25.0	22.4	0.74	1160	0.93	0.08	7.3	2.5
K295592		16.1	2.94	16.05	0.13	1.2	0.081	3.08	25.8	24.2	0.59	816	3.75	0.75	7.9	2.6
K295593		3.4	0.15	0.77	0.11	0.1	0.005	0.07	1.3	1.1	1.90	129	0.06	0.10	0.8	0.2
K295594		27.7	3.06	17.25	0.20	1.2	0.105	3.12	26.5	24.0	0.57	511	9.91	1.22	8.4	2.4
K295595		45.4	3.32	16.05	0.11	1.2	0.128	3.08	19.5	33.7	0.58	600	1.67	0.12	8.1	3.1
K295596		21.9	2.91	14.25	0.10	1.1	0.136	2.69	18.7	46.2	0.60	1210	2.70	0.04	6.8	2.3
K295597		14.8	3.04	16.55	0.11	1.1	0.069	2.24	22.5	69.3	0.46	738	16.40	0.05	8.1	2.7
K295598		19.0	2.87	15.35	0.12	1.0	0.082	2.40	20.2	55.4	0.88	1060	7.14	0.04	7.5	2.3
K295599		10.8	2.70	15.25	0.11	1.1	0.068	2.65	22.0	35.8	0.73	894	1.69	0.06	7.5	2.5
K295600		13.8	3.29	15.05	0.12	1.0	0.072	2.57	25.1	36.0	1.08	938	1.78	0.16	7.4	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251846

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295561		590	52.5	136.0	<0.002	0.71	6.97	9.8	1	2.8	107.5	0.61	0.51	12.85	0.249	2.16
K295562		520	365	208	0.002	2.15	18.30	9.4	1	4.9	85.4	0.48	0.40	11.80	0.202	2.68
K295563		600	25.9	95.3	<0.002	0.37	11.25	9.8	<1	2.4	128.5	0.66	0.10	12.15	0.252	1.61
K295564		640	26.5	105.0	<0.002	0.41	19.25	10.9	1	2.3	173.0	0.66	0.25	13.40	0.270	1.61
K295565		540	792	179.5	<0.002	3.44	10.80	9.5	1	6.3	68.8	0.53	0.42	12.35	0.216	2.54
K295566		570	59.3	111.0	<0.002	0.96	5.68	9.9	1	2.8	93.7	0.67	0.80	11.60	0.238	2.18
K295567		580	47.1	133.5	<0.002	0.75	4.91	10.1	1	3.1	86.7	0.64	0.39	13.10	0.241	2.13
K295568		690	15.0	106.5	<0.002	0.28	3.76	11.3	<1	2.2	75.0	0.70	0.08	13.55	0.283	1.85
K295569		580	235	113.5	<0.002	0.67	7.17	10.1	<1	2.9	135.5	0.65	0.28	14.25	0.247	2.02
K295570		550	837	133.5	<0.002	2.14	8.05	9.7	<1	4.2	87.5	0.61	0.06	14.00	0.234	2.51
K295571		580	38.7	134.5	<0.002	1.71	9.52	9.9	1	2.6	122.5	0.56	0.47	13.60	0.242	2.64
K295572		570	74.0	143.0	<0.002	1.33	6.93	9.6	<1	3.1	137.5	0.60	0.34	14.40	0.243	2.55
K295573		570	72.9	131.5	<0.002	1.36	7.24	9.7	<1	3.2	135.0	0.60	0.37	13.45	0.237	2.56
K295574		600	112.0	133.0	<0.002	1.06	8.93	9.6	<1	1.9	85.5	0.64	0.28	13.10	0.245	3.20
K295575		470	178.5	206	<0.002	3.86	56.7	8.4	<1	3.8	58.6	0.50	0.17	12.20	0.194	2.98
K295576		560	67.7	160.5	<0.002	0.89	13.75	9.6	<1	2.7	84.0	0.58	0.19	14.05	0.232	2.74
K295577		570	125.0	237	<0.002	3.30	20.8	10.3	1	5.8	70.6	0.50	0.45	13.60	0.209	3.07
K295578		530	125.5	193.0	<0.002	2.81	8.17	8.6	1	7.0	70.0	0.35	0.68	12.75	0.161	2.75
K295579		600	32.1	174.5	<0.002	2.13	8.72	10.0	1	4.3	139.5	0.54	0.84	13.55	0.228	2.50
K295580		460	>10000	28.2	0.011	2.37	457	11.9	2	1.9	196.5	0.20	1.16	2.01	0.243	0.50
K295581		620	58.6	120.0	<0.002	0.31	5.62	10.8	1	2.5	258	0.66	0.27	13.75	0.258	1.86
K295582		580	42.2	96.7	<0.002	0.42	8.00	9.9	<1	2.2	175.0	0.60	0.12	12.20	0.248	1.91
K295583		620	19.3	107.0	<0.002	0.12	3.29	10.3	1	2.0	294	0.52	0.31	9.93	0.260	1.57
K295584		600	16.0	104.0	<0.002	0.20	3.17	10.2	<1	2.1	330	0.64	0.12	12.50	0.259	1.54
K295585		610	18.6	110.0	<0.002	0.09	1.63	10.6	1	1.9	378	0.65	0.11	13.70	0.257	1.29
K295586		570	18.5	105.0	<0.002	0.12	2.68	9.3	<1	1.6	330	0.64	<0.05	13.45	0.238	1.36
K295587		450	1700	148.5	0.002	8.03	107.5	8.0	1	10.5	61.8	0.38	0.73	9.18	0.170	2.19
K295588		620	40.8	110.5	<0.002	0.31	3.70	10.1	<1	2.2	368	0.61	0.27	11.75	0.262	1.51
K295589		610	42.7	111.5	<0.002	0.29	4.55	10.3	<1	2.4	342	0.77	0.25	12.90	0.258	1.67
K295590		650	50.5	127.0	<0.002	0.67	10.80	10.1	<1	3.0	72.1	0.64	0.23	10.55	0.273	1.98
K295591		620	94.9	159.0	<0.002	1.21	8.62	10.5	1	3.8	109.0	0.56	0.71	14.20	0.251	2.31
K295592		630	22.5	125.0	<0.002	0.24	6.84	10.4	<1	2.1	185.5	0.60	0.10	14.05	0.258	1.74
K295593		70	1.2	2.2	<0.002	0.01	0.07	0.2	1	0.2	78.0	0.08	<0.05	0.22	0.006	0.03
K295594		650	16.6	126.0	0.002	0.15	6.62	11.0	1	2.2	238	0.64	0.13	14.55	0.273	1.58
K295595		630	59.5	112.0	<0.002	0.85	14.70	10.6	1	2.3	114.5	0.61	0.49	12.15	0.248	1.96
K295596		560	380	130.5	<0.002	0.89	17.20	8.9	1	2.4	92.6	0.53	0.15	11.60	0.226	2.24
K295597		650	21.0	92.5	0.004	0.34	18.10	11.1	<1	2.1	118.0	0.60	<0.05	12.45	0.273	1.54
K295598		600	42.2	81.7	0.002	0.34	14.75	10.3	<1	1.9	121.0	0.54	<0.05	11.30	0.252	1.79
K295599		600	43.0	99.8	0.002	0.48	15.65	9.8	<1	2.0	109.5	0.59	<0.05	12.35	0.255	1.68
K295600		610	69.7	109.0	0.002	0.42	9.10	9.9	<1	3.1	146.5	0.53	0.08	12.25	0.242	1.87

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251846

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295561		2.9	69	2.4	11.3	172	30.4	0.056
K295562		5.5	61	4.8	11.0	1280	22.7	0.185
K295563		3.9	67	3.7	12.8	80	29.1	0.027
K295564		3.0	73	4.2	14.5	86	27.7	0.020
K295565		5.0	62	5.5	11.8	3380	28.2	0.131
K295566		5.2	67	2.5	14.6	109	33.5	0.070
K295567		5.8	68	2.2	14.1	98	34.0	0.140
K295568		3.7	77	3.0	13.4	49	37.0	0.051
K295569		4.6	68	3.1	15.1	337	34.5	0.094
K295570		4.8	65	4.5	13.1	1870	32.6	0.133
K295571		4.6	68	2.8	13.9	93	30.4	0.411
K295572		5.4	66	3.3	15.8	138	29.4	0.087
K295573		5.0	66	3.4	15.6	135	30.9	0.086
K295574		3.3	67	5.5	14.5	187	31.4	0.120
K295575		3.8	56	5.2	11.3	380	24.0	0.723
K295576		2.9	65	2.7	14.4	254	26.8	0.080
K295577		3.7	69	5.5	13.8	489	24.8	0.145
K295578		2.3	66	3.5	13.4	479	21.5	0.107
K295579		4.6	68	1.9	16.1	83	26.1	0.115
K295580		1.3	81	0.6	13.9	5170	48.7	0.266
K295581		4.2	72	2.1	14.4	63	28.4	0.022
K295582		4.1	69	2.9	16.0	80	26.5	0.013
K295583		3.2	71	2.5	12.5	42	25.0	0.016
K295584		4.1	72	1.8	15.6	39	25.6	0.021
K295585		4.0	72	0.9	16.2	38	28.5	0.016
K295586		4.9	67	1.2	15.4	38	25.4	0.007
K295587		5.4	57	6.9	9.8	3410	22.9	1.710
K295588		3.7	74	1.3	14.5	52	29.8	0.034
K295589		4.9	72	1.1	15.8	84	30.9	0.017
K295590		2.6	80	3.7	12.4	140	34.8	0.041
K295591		2.9	73	3.0	15.5	210	31.8	0.070
K295592		2.8	73	1.7	16.2	113	32.7	0.013
K295593		0.2	1	0.1	2.6	5	2.3	<0.005
K295594		3.9	76	1.9	17.0	64	36.5	0.013
K295595		2.8	73	2.4	13.1	136	33.2	0.036
K295596		2.6	65	3.4	11.8	982	30.5	0.068
K295597		2.7	77	3.3	14.7	212	34.1	0.008
K295598		2.4	71	3.3	14.2	106	31.6	0.015
K295599		2.5	70	3.5	13.6	89	31.0	0.015
K295600		3.6	69	4.1	15.9	181	27.8	0.025

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251846

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE WH19251848

Project: Klaza

P.O. No.: 19-086

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251848

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295601		4.82			0.97	7.04	72.0	1890	1.62	0.98	2.67	17.60	45.4	7.5	10	21.1
K295602		2.68			4.69	7.00	133.5	990	1.64	1.90	2.58	35.3	41.8	7.4	9	20.5
K295603		2.85			0.86	7.47	66.5	1770	1.74	0.61	3.08	1.47	51.1	7.8	11	17.00
K295604		4.74			0.63	7.28	19.5	2930	1.55	1.15	2.87	1.67	42.8	8.1	11	14.50
K295605		4.59			0.19	7.37	13.3	2140	1.65	0.51	2.90	1.23	44.6	7.6	13	11.60
K295606		4.69			0.55	7.54	25.3	2210	1.62	1.47	2.71	1.28	48.9	5.8	12	11.30
K295607		0.26		1.020	98.4	5.41	250	610	0.73	4.81	1.43	24.0	19.55	11.1	63	0.86
K295608		2.46			2.06	7.40	157.5	2070	1.39	1.26	1.91	7.96	49.6	5.5	10	15.90
K295609		3.71			1.52	7.62	74.4	1900	1.65	1.34	2.53	4.32	50.5	7.3	11	14.40
K295610		1.14			2.05	7.26	290	600	1.44	1.78	2.82	22.4	51.2	7.4	8	20.9
K295611		2.68			1.04	7.82	76.8	2000	1.59	0.97	1.97	7.51	53.0	7.6	9	15.35
K295612		4.75			0.41	7.57	29.0	2200	1.70	0.99	2.49	0.51	50.5	7.3	12	17.15
K295613		5.72			0.25	7.14	15.2	2170	1.62	0.65	2.83	0.25	40.6	7.2	11	13.30
K295614		5.92			0.26	7.31	11.9	2310	1.56	0.72	2.48	0.29	42.2	7.5	12	11.30
K295615		5.58			0.37	7.16	39.3	3350	1.59	1.85	2.48	0.59	43.2	7.3	12	14.95
K295616		1.62			2.26	7.44	84.0	830	1.37	3.20	3.06	4.20	62.5	14.4	9	18.30
K295617		1.41			1.83	7.33	89.6	680	1.34	2.98	3.19	5.23	68.4	17.5	10	19.25
K295618		5.99			0.67	7.50	82.2	1680	1.48	1.19	2.82	1.82	44.5	9.2	9	19.10
K295619		1.45			8.38	7.00	121.5	300	1.33	12.70	2.15	9.01	61.8	11.8	9	11.25
K295620		5.47			0.48	7.60	40.9	1640	1.60	1.15	2.25	3.02	48.7	13.1	10	19.95
K295621		5.10			0.60	8.43	28.1	2110	1.69	4.30	1.66	4.68	55.9	30.0	9	17.35
K295622		4.70			0.48	7.58	43.6	930	1.43	5.23	2.07	3.22	47.3	54.1	12	12.20
K295623		5.74			0.20	7.97	22.5	3100	1.65	1.53	1.71	1.68	55.2	26.9	10	11.40
K295624		0.26	102	1.030	>100	5.65	261	610	0.70	5.10	1.48	25.0	20.3	12.1	66	0.91
K295625		4.10			0.34	8.11	24.4	2450	1.59	1.64	2.16	0.59	54.6	14.8	11	11.35
K295626		2.91			0.32	7.91	25.1	2560	1.57	1.33	2.78	0.42	51.3	10.1	10	15.40
K295627		4.51			0.34	7.43	23.6	2340	1.56	0.75	2.86	0.30	44.9	9.0	13	11.65
K295628		4.44			0.22	7.61	28.3	2140	1.66	0.59	2.97	0.24	45.1	6.6	11	17.85
K295629		1.11			1.11	7.55	123.0	350	1.43	4.14	2.16	0.35	47.6	8.8	13	12.05
K295630		3.50			0.23	8.04	18.9	2450	1.67	0.29	2.67	0.19	54.9	7.2	10	20.6
K295631		4.93			0.02	0.17	0.3	40	0.09	0.03	35.5	0.02	1.22	0.6	2	0.09
K295632		1.04			0.14	7.23	15.7	2330	1.48	0.47	3.21	0.24	44.3	6.6	9	14.80
K295633		5.08			0.19	7.52	9.7	2170	1.52	0.35	2.67	0.21	51.3	7.8	12	9.81
K295634		4.86			0.16	7.68	8.4	2330	1.54	0.52	2.78	0.17	46.4	8.0	16	9.84
K295635		3.70			0.15	7.45	9.9	2030	1.58	0.57	2.66	0.14	48.6	6.9	12	15.90
K295636		<0.02			0.15	7.56	10.6	2100	1.67	0.64	2.74	0.14	47.8	7.2	12	16.30
K295637		2.68			0.75	7.27	72.2	1580	1.46	6.67	2.52	1.09	41.1	11.6	11	27.5
K295638		3.69			0.11	7.87	7.2	2280	1.81	0.39	3.05	0.15	48.8	7.6	11	17.70
K295639		1.75			0.58	7.70	44.8	2130	1.79	1.67	2.62	0.19	46.6	9.6	11	18.45
K295640		5.76			0.28	7.18	38.7	1800	1.64	0.70	3.16	0.87	49.7	9.3	9	23.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251848

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295601		98.5	3.75	15.50	0.12	1.0	0.174	2.86	24.4	19.0	0.93	1060	3.59	0.15	7.2	2.9
K295602		58.8	3.63	15.30	0.10	1.0	0.249	3.17	21.3	17.7	0.83	1260	1.29	0.05	7.2	2.5
K295603		13.4	3.51	16.75	0.13	1.1	0.090	2.92	26.4	15.9	1.03	1420	0.89	1.32	8.5	2.8
K295604		11.9	3.10	16.50	0.12	1.1	0.084	3.11	21.1	23.1	0.76	1140	5.35	1.38	8.1	3.9
K295605		20.0	2.96	17.00	0.12	1.2	0.072	3.09	21.8	20.5	0.82	1150	7.81	1.77	8.3	2.7
K295606		33.9	3.22	16.05	0.13	1.1	0.150	3.30	26.2	14.2	0.81	1220	8.88	1.49	7.6	2.6
K295607		5920	5.70	11.85	0.08	1.7	0.415	1.10	9.0	12.3	1.10	1680	20.6	1.61	3.2	26.6
K295608		41.7	3.29	15.50	0.11	1.1	0.276	4.01	26.1	23.0	0.63	898	14.95	0.55	7.1	2.2
K295609		45.4	3.54	16.70	0.12	1.1	0.289	3.43	27.2	12.9	0.91	752	38.5	1.12	8.0	2.7
K295610		98.3	4.72	15.95	0.12	1.0	0.342	3.11	27.6	13.6	1.09	990	17.05	0.09	7.6	2.7
K295611		57.7	3.65	16.65	0.12	1.0	0.179	3.10	29.1	21.7	0.76	621	24.3	1.22	7.8	2.5
K295612		28.5	3.09	16.50	0.14	1.0	0.121	2.87	26.9	19.0	0.77	624	25.4	1.79	7.9	2.6
K295613		29.0	2.92	16.05	0.13	1.2	0.082	2.70	20.5	16.0	0.85	610	19.90	2.21	8.4	2.6
K295614		36.0	2.83	16.40	0.13	1.2	0.114	3.02	21.9	13.6	0.77	552	3.42	2.07	8.3	2.6
K295615		70.8	3.06	16.80	0.12	1.2	0.159	3.33	22.1	18.1	0.78	649	2.29	1.46	8.2	2.3
K295616		76.1	3.60	15.75	0.12	1.0	0.261	3.53	35.1	14.3	1.25	1910	14.15	0.12	6.9	2.5
K295617		67.1	3.81	15.50	0.13	1.1	0.261	3.53	39.0	13.0	1.28	2050	31.7	0.11	7.1	2.9
K295618		33.8	2.67	17.15	0.12	1.1	0.127	3.23	22.9	26.8	0.92	1240	2.72	0.19	8.4	2.7
K295619		23.3	6.33	15.70	0.12	0.9	0.263	3.32	35.6	9.1	1.02	1890	0.71	0.05	5.1	2.5
K295620		19.5	3.61	16.25	0.11	1.0	0.190	3.39	25.8	17.3	0.84	1280	4.31	0.38	8.0	2.6
K295621		36.6	4.27	17.15	0.12	1.3	0.185	3.47	30.9	15.8	0.79	913	8.41	0.84	8.0	3.0
K295622		61.1	3.99	16.05	0.12	1.1	0.121	3.52	25.5	11.4	0.83	640	7.05	1.35	7.7	2.9
K295623		41.6	3.65	16.70	0.13	1.3	0.127	3.24	30.3	17.9	0.87	495	1.72	1.60	8.7	3.1
K295624		6240	5.92	12.30	0.08	1.6	0.444	1.16	9.8	12.6	1.15	1760	21.7	1.68	3.3	27.7
K295625		47.9	3.48	17.00	0.13	1.3	0.127	3.37	29.5	19.5	0.84	564	1.56	1.82	8.1	2.9
K295626		53.2	3.27	16.35	0.13	1.2	0.145	3.06	27.5	29.1	0.88	667	1.70	1.92	8.4	2.6
K295627		74.6	3.24	16.25	0.12	1.3	0.110	2.77	22.9	12.4	0.84	686	1.15	2.10	8.2	2.6
K295628		22.8	3.18	16.75	0.12	1.3	0.081	2.93	22.9	19.6	0.84	759	3.66	1.84	8.5	2.6
K295629		173.5	5.06	16.05	0.12	1.1	0.142	3.05	24.5	8.7	0.69	602	0.79	1.43	7.2	2.7
K295630		11.5	2.99	16.35	0.14	1.2	0.062	2.85	29.5	22.1	0.79	702	1.68	1.19	8.0	2.5
K295631		2.8	0.15	0.56	0.12	0.1	0.006	0.06	1.3	1.1	1.85	136	0.08	0.07	0.3	0.3
K295632		16.7	3.06	16.25	0.17	1.2	0.096	2.94	22.1	13.3	0.70	733	1.41	1.47	8.0	2.3
K295633		33.8	3.06	16.45	0.16	1.2	0.060	2.59	27.6	13.2	0.89	572	1.27	2.24	8.0	2.6
K295634		15.1	2.93	16.95	0.15	1.4	0.089	2.73	23.4	11.3	0.86	601	7.88	2.50	8.4	2.7
K295635		20.0	2.94	16.35	0.15	1.3	0.081	2.57	25.2	14.4	0.72	540	4.44	2.27	8.2	2.7
K295636		19.6	3.03	17.00	0.14	1.4	0.081	2.66	24.3	15.2	0.73	556	5.92	2.37	8.7	2.6
K295637		65.9	4.16	17.50	0.11	1.3	0.236	3.06	20.1	32.7	0.57	746	1.43	0.21	8.2	2.8
K295638		12.0	3.18	17.15	0.13	1.4	0.092	2.72	24.4	13.8	0.78	597	1.35	2.17	9.0	2.8
K295639		110.5	3.89	16.85	0.13	1.4	0.154	3.21	23.9	10.9	0.60	653	0.88	1.57	8.7	2.6
K295640		70.0	3.24	15.65	0.17	1.1	0.201	2.70	25.9	30.4	0.89	753	0.93	0.97	7.0	2.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251848

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295601		600	107.0	136.5	<0.002	0.82	6.96	10.1	<1	4.0	105.0	0.53	0.21	12.10	0.237	2.29
K295602		590	1610	140.5	<0.002	1.88	8.08	9.7	<1	3.5	89.2	0.54	0.49	11.80	0.244	2.74
K295603		690	49.2	133.0	<0.002	1.09	4.29	12.6	1	2.2	266	0.63	0.12	12.65	0.284	2.24
K295604		660	154.0	131.5	<0.002	0.57	3.09	11.2	1	2.5	300	0.58	0.26	11.70	0.269	1.85
K295605		640	59.7	123.5	0.002	0.23	2.18	11.5	1	3.1	346	0.62	0.05	12.35	0.263	1.69
K295606		620	83.6	154.0	0.002	0.55	2.65	10.4	1	3.1	293	0.61	0.16	13.75	0.257	2.00
K295607		450	10000	27.5	0.009	2.28	448	11.8	2	1.9	189.0	0.21	1.11	1.96	0.240	0.48
K295608		610	410	207	0.003	1.52	6.20	10.7	1	4.7	166.5	0.59	0.26	13.90	0.232	2.83
K295609		620	162.0	157.5	0.006	1.11	6.03	10.9	1	4.2	216	0.66	0.24	15.30	0.257	2.25
K295610		580	448	163.5	0.003	2.14	11.65	10.5	1	5.5	109.0	0.59	0.16	13.05	0.238	2.54
K295611		620	213	140.5	0.006	0.83	6.51	10.4	1	4.7	234	0.58	0.10	14.40	0.256	1.95
K295612		620	31.4	126.0	0.005	0.51	3.19	10.8	1	3.2	300	0.61	0.12	13.75	0.256	1.62
K295613		630	21.0	97.0	0.003	0.20	1.71	10.1	1	2.2	372	0.59	0.10	10.55	0.261	1.36
K295614		590	24.8	115.5	0.002	0.23	1.95	10.4	<1	2.3	340	0.67	0.20	12.25	0.243	1.42
K295615		630	31.2	119.5	0.002	0.70	4.12	10.4	1	2.8	307	0.62	0.39	12.45	0.254	1.88
K295616		620	169.5	200	0.010	2.23	10.50	11.2	1	3.8	111.5	0.54	1.04	12.80	0.234	3.11
K295617		630	186.0	199.5	0.033	2.48	10.05	11.5	1	4.2	109.0	0.56	0.83	13.65	0.233	3.23
K295618		650	51.4	109.0	0.003	0.68	10.30	10.7	1	3.0	115.5	0.64	0.35	12.15	0.273	2.31
K295619		540	393	174.0	<0.002	5.54	6.23	9.6	2	9.3	49.2	0.43	6.29	12.20	0.185	2.40
K295620		630	62.3	149.0	0.002	0.71	7.77	10.6	1	4.0	122.0	0.60	0.17	12.90	0.257	2.57
K295621		690	54.6	153.0	<0.002	0.59	6.78	11.6	1	4.1	169.5	0.64	0.72	14.65	0.282	2.21
K295622		660	50.7	133.0	<0.002	1.80	3.76	11.2	1	3.5	254	0.57	1.67	12.35	0.252	1.86
K295623		650	22.7	131.5	<0.002	0.69	3.11	11.4	1	3.6	278	0.68	0.37	14.45	0.272	1.63
K295624		470	>10000	28.3	0.011	2.39	466	12.4	2	1.9	196.0	0.22	1.30	2.00	0.246	0.48
K295625		630	30.2	137.0	<0.002	0.73	2.69	11.0	1	3.2	290	0.68	0.48	15.00	0.265	1.70
K295626		630	28.5	125.0	<0.002	0.48	2.12	10.7	1	3.2	314	0.65	0.32	14.40	0.265	1.60
K295627		620	20.9	105.0	<0.002	0.36	2.50	10.8	<1	3.0	341	0.63	0.15	13.50	0.265	1.50
K295628		670	19.1	109.5	<0.002	0.29	2.44	11.0	<1	2.2	310	0.65	0.06	12.90	0.278	1.63
K295629		590	38.0	147.0	<0.002	2.83	2.71	10.3	1	7.1	252	0.55	0.27	13.40	0.246	1.69
K295630		650	18.1	116.5	<0.002	0.31	7.08	11.1	<1	2.1	264	0.61	0.09	15.05	0.277	1.52
K295631		90	1.0	1.5	<0.002	0.01	0.08	0.4	1	<0.2	84.8	<0.05	<0.05	0.15	0.011	0.02
K295632		630	20.2	106.5	<0.002	0.51	5.67	10.5	1	2.2	272	0.62	0.06	13.10	0.265	1.63
K295633		620	17.3	99.7	<0.002	0.08	1.08	11.2	<1	1.9	386	0.62	<0.05	14.50	0.261	1.12
K295634		630	19.0	98.8	0.009	0.09	1.29	10.8	1	2.5	384	0.65	0.11	13.80	0.267	1.16
K295635		620	16.4	97.9	0.004	0.13	1.72	10.3	<1	2.1	395	0.66	0.08	14.10	0.259	1.15
K295636		640	17.8	95.2	0.005	0.13	1.79	11.0	1	2.2	411	0.70	0.08	13.95	0.270	1.17
K295637		640	58.5	114.0	<0.002	1.85	24.5	11.0	1	5.6	121.5	0.64	0.38	11.70	0.266	1.77
K295638		690	17.8	97.0	<0.002	0.04	2.37	11.8	<1	2.7	379	0.71	<0.05	13.40	0.282	1.23
K295639		640	24.6	141.5	<0.002	1.32	4.01	11.3	1	5.5	286	0.69	0.18	13.65	0.263	1.89
K295640		600	22.4	113.0	<0.002	0.44	10.45	10.5	1	2.5	226	0.56	0.08	11.70	0.257	1.51

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19251848

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295601		3.5	70	2.7	14.9	977	27.5	0.189
K295602		3.1	67	4.6	13.1	2740	28.7	0.339
K295603		3.9	82	2.5	17.2	172	32.0	0.414
K295604		3.6	77	1.7	14.9	175	31.2	0.011
K295605		3.6	76	1.7	15.5	122	32.6	0.008
K295606		3.9	72	2.2	15.3	141	30.3	0.021
K295607		1.3	79	0.6	13.6	5040	49.2	0.266
K295608		4.1	69	3.0	13.0	649	29.9	0.305
K295609		4.8	73	1.8	15.1	329	30.9	0.112
K295610		4.4	70	3.2	14.5	1370	26.0	0.330
K295611		3.7	72	2.0	14.6	541	29.3	0.166
K295612		4.4	72	1.1	15.6	75	30.7	0.032
K295613		3.5	73	0.9	15.3	48	33.1	0.028
K295614		3.9	69	0.9	15.1	49	32.7	0.024
K295615		4.1	74	1.3	14.3	80	33.1	0.044
K295616		4.1	73	2.6	15.2	295	28.5	0.093
K295617		4.5	72	2.8	15.7	345	29.3	0.090
K295618		4.2	80	2.9	14.7	158	31.6	0.087
K295619		3.3	66	4.9	11.3	363	23.7	0.461
K295620		3.6	72	3.2	14.2	243	27.9	0.047
K295621		3.8	79	2.9	17.3	401	31.9	0.032
K295622		4.4	78	1.7	15.0	200	29.6	0.090
K295623		3.1	77	1.2	16.3	199	34.2	0.025
K295624		1.3	83	0.6	14.5	5270	51.1	0.280
K295625		3.9	75	1.2	16.7	115	36.4	0.030
K295626		4.1	73	1.0	16.5	72	33.9	0.022
K295627		4.5	73	1.0	16.0	54	34.8	0.039
K295628		4.1	78	1.4	16.1	62	35.4	0.021
K295629		3.7	69	1.5	14.3	58	30.2	0.487
K295630		3.8	76	1.4	16.4	58	35.2	0.013
K295631		0.2	3	<0.1	2.6	4	1.8	<0.005
K295632		3.6	74	0.9	15.4	66	35.0	0.007
K295633		3.9	74	0.6	17.3	54	34.1	0.008
K295634		4.2	76	0.9	16.5	45	36.3	0.011
K295635		4.0	73	0.6	15.6	41	36.5	0.011
K295636		3.9	75	0.6	15.5	43	38.7	0.011
K295637		4.1	77	2.4	15.6	177	36.8	0.224
K295638		3.8	81	0.6	17.2	51	38.7	0.005
K295639		5.9	75	1.3	15.6	56	38.2	0.063
K295640		3.7	71	1.4	17.0	138	35.4	0.031

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19251848

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 11-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254134

Project: Klaza

P.O. No.: 19-046

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 11-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254134

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W593521		1.05			13.25	6.90	58.1	2500	1.70	15.25	3.59	90.2	50.0	7.2	7	22.8
W593522		3.46			0.86	7.54	31.8	2330	1.96	1.11	2.89	0.75	49.7	8.0	10	16.95
W593523		2.68			1.57	7.09	41.9	1770	1.85	1.24	2.68	4.73	40.9	8.4	9	24.0
W593524		2.92			0.62	7.55	29.6	2470	1.63	0.36	2.77	1.68	37.0	9.3	9	28.0
W593525		4.84			0.13	7.44	7.6	2500	1.60	0.28	3.07	0.11	42.6	7.8	11	12.30
W593526		0.26			32.8	7.10	150.5	150	0.66	9.59	6.28	36.3	27.1	98.0	126	1.65
W593527		1.35			1.15	6.63	20.7	1530	1.78	4.36	3.50	0.13	38.7	7.0	11	16.50
W593528		5.72			0.57	7.56	11.1	2160	1.66	1.65	2.93	0.10	61.6	9.8	10	10.30
W593529		5.38			0.86	7.95	20.7	2490	1.71	1.79	2.71	0.19	43.0	10.9	13	12.90
W593530		5.52			0.42	8.05	11.5	2860	1.75	1.14	2.67	0.20	38.3	8.4	13	11.95
W593531		4.45			0.22	7.93	9.3	2120	1.71	0.67	2.99	0.33	45.0	8.5	11	7.04
W593532		5.32			0.04	7.80	7.1	2560	1.81	0.09	3.02	0.11	45.3	8.7	13	6.28
W593533		<0.02			0.04	7.96	7.3	2600	1.69	0.09	3.08	0.13	44.6	8.7	12	6.20
W593534		4.73			0.05	7.91	7.9	2460	1.86	0.11	2.93	0.10	44.6	8.5	14	8.25
W593535		4.70			0.09	7.72	8.3	2320	1.72	0.25	2.99	0.10	44.2	8.0	13	9.62
W593536		4.24			0.06	8.03	11.4	2500	1.87	0.10	3.08	0.11	51.4	8.6	12	5.04
W593537		5.02			0.09	7.91	9.0	2560	1.79	0.40	3.00	0.09	44.0	8.2	11	8.08
W593538		1.12			73.1	7.53	2570	1020	1.76	1.83	2.54	71.4	46.6	7.1	9	17.70
W593539		5.03			0.05	0.15	1.0	30	0.09	0.02	34.1	0.05	1.13	1.3	1	0.06
W593540		3.74			0.41	7.80	27.9	2120	1.68	0.85	3.07	0.33	47.2	7.4	11	13.00
W593541		3.40			0.07	8.02	6.1	2540	1.72	0.11	3.11	0.12	52.3	8.1	12	5.45
W593542		4.20			0.07	7.92	6.4	2580	1.74	0.13	2.98	0.14	46.9	7.8	12	5.12
W593543		1.73			0.21	8.08	15.4	2340	1.58	0.31	3.66	0.42	48.3	9.3	11	6.01
W593544		2.61			0.09	7.78	8.4	2620	1.64	0.15	2.72	0.11	44.8	7.5	14	7.23
W593545		0.95			0.35	9.05	38.9	1920	2.02	1.02	6.18	0.16	53.9	10.4	9	15.10
W593546		1.07			0.44	8.48	34.0	1770	2.12	1.03	4.60	0.16	45.9	11.1	8	15.15
W593547		2.37			0.10	7.49	5.8	2240	1.74	0.21	2.93	0.16	46.4	6.3	13	10.05
W593548		1.25			0.52	6.70	33.8	960	1.64	1.60	4.87	0.21	42.4	21.0	8	37.8
W593549		4.57			0.15	7.48	6.5	2280	1.74	0.19	4.16	0.12	45.2	7.2	11	12.20
W593550		3.03			0.06	7.84	4.9	2480	1.75	0.10	2.51	0.08	43.7	8.3	10	11.05
W593551		5.14			0.42	7.21	17.1	1890	1.59	0.81	2.59	0.14	37.2	9.0	9	17.80
W593552		4.83			0.08	7.43	6.7	2130	1.60	0.13	3.14	0.09	42.5	8.0	11	14.00
W593553		5.43			0.07	7.54	4.4	2420	1.53	0.10	3.51	0.10	45.3	7.8	9	11.45
W593554		5.16			0.06	7.43	5.5	1820	1.62	0.10	2.46	0.11	41.8	6.7	9	17.10
W593555		0.26	99	1.025	>100	5.58	250	620	0.71	5.05	1.48	25.4	17.35	11.7	65	0.87
W593556		4.44			0.23	6.53	16.6	2010	1.65	0.48	3.12	0.24	37.7	9.6	9	20.2
W593557		5.27			0.07	7.43	4.8	2400	1.77	0.10	2.99	0.13	45.7	7.9	12	10.15
W593558		5.59			0.14	7.12	6.8	2450	1.76	0.14	2.90	0.23	42.5	7.8	11	11.00
W593559		3.45			1.37	6.52	93.0	1140	1.63	7.05	2.63	0.97	36.6	8.8	9	14.30
W593560		2.76			0.89	7.13	218	1530	1.68	1.17	2.18	0.69	50.9	8.3	9	23.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 11-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W593521		22.9	4.14	14.80	0.10	1.3	0.391	3.13	28.5	10.6	1.31	2580	1.95	0.11	6.8	2.7
W593522		9.3	3.78	16.90	0.12	1.3	0.192	3.18	25.5	9.1	0.86	1460	2.38	1.09	8.2	3.0
W593523		20.1	3.93	15.80	0.10	1.2	0.225	3.10	20.7	12.2	0.90	1940	1.47	0.13	7.5	3.2
W593524		13.6	3.34	16.80	0.09	1.3	0.071	3.44	18.7	14.2	0.83	1660	1.04	0.26	8.0	3.1
W593525		16.8	3.17	16.75	0.10	1.3	0.076	2.81	20.7	9.0	0.82	771	1.29	2.10	8.1	2.9
W593526		6950	9.87	12.15	0.14	0.8	2.64	1.04	15.6	9.1	2.27	904	64.2	0.87	3.0	387
W593527		166.5	3.16	17.05	0.09	1.2	0.303	2.30	21.3	8.2	0.73	1030	1.55	2.13	8.2	2.6
W593528		49.8	3.38	16.50	0.11	1.2	0.140	2.31	41.2	10.7	0.90	939	2.40	2.36	7.8	3.0
W593529		167.0	3.60	17.30	0.11	1.1	0.127	2.51	22.0	11.5	0.98	1020	1.84	2.16	8.4	3.4
W593530		31.8	3.62	17.85	0.08	1.3	0.075	2.64	18.7	15.6	0.98	759	1.43	2.24	8.6	3.3
W593531		19.0	3.55	16.60	0.10	1.1	0.122	1.95	23.9	14.7	0.97	910	1.11	2.37	7.8	2.8
W593532		6.4	3.19	17.75	0.09	1.0	0.040	2.53	23.1	13.6	1.00	643	2.00	2.51	8.8	3.1
W593533		6.4	3.30	17.95	0.11	1.0	0.044	2.63	23.4	13.3	1.01	666	2.15	2.56	9.1	3.0
W593534		7.7	3.26	17.70	0.12	1.1	0.044	2.65	22.5	12.8	0.98	650	1.53	2.56	8.6	3.1
W593535		9.7	3.24	16.95	0.09	1.0	0.060	2.57	23.1	11.8	0.90	681	1.36	2.35	8.3	3.0
W593536		9.5	3.31	17.90	0.11	1.1	0.042	2.63	25.9	10.8	1.02	682	1.53	2.55	9.5	2.9
W593537		11.9	3.20	17.30	0.10	1.2	0.063	2.54	22.4	10.1	0.89	730	1.45	2.37	8.5	2.9
W593538		184.5	3.78	16.95	0.10	1.3	0.467	3.16	24.9	11.9	0.54	1240	1.13	0.49	8.0	2.6
W593539		2.1	0.13	0.49	<0.05	0.1	<0.005	0.06	1.1	1.8	1.97	121	0.05	0.06	0.3	0.2
W593540		24.0	3.31	17.90	0.10	1.3	0.129	2.64	24.0	11.6	0.89	885	1.13	1.97	8.2	2.7
W593541		7.7	3.21	17.50	0.11	1.3	0.044	2.65	27.2	12.1	1.00	654	1.29	2.47	8.4	3.1
W593542		7.4	3.20	17.45	0.11	1.3	0.049	2.63	23.5	11.6	0.99	675	0.97	2.49	8.3	2.8
W593543		25.8	3.83	18.60	0.10	1.3	0.098	2.52	24.5	12.0	1.01	874	1.47	2.51	8.4	3.1
W593544		6.4	3.14	16.80	0.13	1.4	0.043	2.80	22.7	10.4	0.94	672	1.16	2.48	8.3	2.8
W593545		80.3	5.62	26.1	0.13	1.4	0.401	2.69	27.2	11.0	0.86	1940	0.92	1.61	8.5	2.8
W593546		94.2	5.11	22.3	0.12	1.3	0.293	2.34	23.8	12.5	0.98	1750	1.38	1.77	8.2	3.5
W593547		24.4	3.20	16.35	0.12	1.4	0.072	2.51	24.0	10.3	0.86	861	1.32	2.30	8.7	2.8
W593548		106.0	3.61	17.40	0.09	1.2	0.326	1.72	22.0	21.5	0.54	735	1.75	0.98	7.5	2.5
W593549		13.9	3.33	16.05	0.12	1.4	0.052	2.68	24.3	12.3	0.76	768	1.49	1.57	7.9	2.8
W593550		7.6	3.23	17.05	0.10	1.4	0.045	2.79	22.6	13.3	0.84	614	6.07	2.10	8.6	2.9
W593551		20.6	2.98	17.05	0.10	1.4	0.081	2.56	18.9	26.5	0.52	665	1.30	0.41	8.4	2.7
W593552		12.4	3.19	16.35	0.10	1.3	0.060	2.54	21.2	8.2	0.76	793	2.24	2.00	7.9	2.9
W593553		7.8	2.99	15.70	0.11	1.3	0.047	2.52	23.7	13.4	0.73	734	0.53	1.61	7.8	2.8
W593554		5.8	2.77	15.90	0.10	1.5	0.043	2.78	21.2	15.7	0.62	591	1.48	1.42	8.2	2.4
W593555		6120	5.78	12.15	0.11	1.5	0.436	1.15	8.6	13.1	1.14	1730	22.5	1.65	3.2	28.7
W593556		16.2	2.95	15.25	0.13	1.3	0.092	2.76	18.6	9.6	0.59	848	1.21	1.49	8.1	2.7
W593557		6.4	3.02	16.65	0.14	1.3	0.040	2.65	22.5	9.8	0.82	648	2.09	2.33	8.9	2.8
W593558		19.9	3.19	16.85	0.14	1.1	0.046	2.60	20.3	10.5	0.83	668	1.75	2.21	8.9	2.9
W593559		19.0	3.64	15.65	0.12	1.0	0.263	3.16	18.0	15.2	0.62	1310	2.16	0.06	7.7	2.4
W593560		22.0	3.44	15.60	0.13	1.1	0.127	2.93	27.7	11.2	0.76	1280	2.63	0.05	7.9	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 11-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W593521		530	1075	174.5	<0.002	1.13	8.97	9.4	1	3.6	136.5	0.56	0.15	14.60	0.209	2.62
W593522		660	74.5	144.5	<0.002	0.89	3.87	11.7	2	2.0	256	0.63	0.32	10.95	0.271	2.10
W593523		640	308	130.0	<0.002	0.88	5.99	11.1	2	2.7	132.5	0.52	0.29	9.84	0.261	2.48
W593524		690	99.7	116.0	<0.002	0.23	6.04	11.4	1	2.0	126.0	0.60	<0.05	10.20	0.286	2.47
W593525		710	17.7	93.9	<0.002	0.07	1.75	11.5	1	1.7	373	0.61	<0.05	10.95	0.286	1.21
W593526		710	8830	28.1	0.016	6.64	33.5	13.5	15	6.7	160.0	0.22	0.70	3.04	0.208	2.40
W593527		710	22.9	84.2	<0.002	0.57	7.69	11.4	2	3.4	262	0.60	0.19	8.75	0.267	1.47
W593528		700	20.7	87.8	<0.002	0.24	3.86	12.0	1	2.8	342	0.57	0.09	10.70	0.279	1.18
W593529		740	29.9	103.0	<0.002	0.28	4.21	13.3	2	1.8	299	0.59	0.43	10.65	0.302	1.38
W593530		750	28.3	88.5	<0.002	0.07	3.81	12.7	2	1.8	458	0.55	0.39	7.87	0.314	1.12
W593531		720	35.0	73.0	<0.002	0.05	4.82	12.2	1	2.6	499	0.51	0.05	7.57	0.293	0.88
W593532		700	15.4	79.8	<0.002	0.01	1.11	12.5	1	1.6	468	0.62	<0.05	12.50	0.293	0.88
W593533		710	14.6	79.6	<0.002	0.01	1.01	12.7	1	1.6	476	0.61	<0.05	13.35	0.297	0.90
W593534		700	15.9	86.8	<0.002	0.03	1.85	12.2	1	1.6	447	0.63	<0.05	11.75	0.292	1.01
W593535		680	15.4	85.7	<0.002	0.10	2.90	11.9	1	1.8	400	0.61	<0.05	13.05	0.280	1.00
W593536		710	17.3	88.4	<0.002	0.02	1.86	12.9	1	1.7	464	0.66	<0.05	15.05	0.299	1.00
W593537		680	17.4	92.9	<0.002	0.21	8.10	12.1	1	1.9	402	0.63	0.07	10.25	0.283	1.09
W593538		650	3130	176.5	<0.002	2.40	1400	11.4	2	12.0	149.5	0.67	0.16	8.47	0.261	2.15
W593539		80	2.1	1.8	<0.002	0.01	1.01	0.3	4	<0.2	84.1	<0.05	<0.05	0.13	0.006	0.02
W593540		690	26.1	95.6	<0.002	0.31	21.9	11.5	2	2.5	358	0.57	0.12	8.43	0.281	1.25
W593541		700	16.4	87.3	<0.002	0.02	1.41	12.1	1	1.7	454	0.57	<0.05	11.20	0.293	0.96
W593542		680	17.3	88.9	<0.002	0.02	1.18	12.0	1	1.7	452	0.58	<0.05	11.25	0.287	0.98
W593543		700	22.3	90.8	<0.002	0.13	2.84	12.2	1	2.3	462	0.61	<0.05	10.20	0.292	1.05
W593544		670	17.0	98.3	<0.002	0.02	1.81	11.8	2	1.5	424	0.62	<0.05	11.95	0.279	1.01
W593545		700	18.0	124.5	<0.002	0.51	7.94	12.7	1	5.2	503	0.65	<0.05	14.10	0.288	1.96
W593546		660	16.0	121.0	<0.002	0.50	6.38	11.9	1	4.1	379	0.61	0.05	11.90	0.274	1.72
W593547		650	18.6	85.6	<0.002	0.02	3.02	12.1	1	1.7	357	0.60	<0.05	11.70	0.272	1.03
W593548		590	22.2	75.6	<0.002	0.48	48.9	9.9	1	3.4	189.5	0.60	0.08	11.85	0.241	1.10
W593549		610	17.9	92.2	<0.002	0.07	4.82	10.8	1	1.5	353	0.64	<0.05	12.30	0.256	1.00
W593550		680	16.0	90.9	<0.002	0.04	3.37	11.9	<1	1.5	369	0.67	<0.05	12.50	0.280	0.98
W593551		670	20.6	87.8	<0.002	0.49	12.05	10.8	1	2.3	136.5	0.63	0.13	9.77	0.269	1.23
W593552		640	15.3	89.9	<0.002	0.06	2.18	11.0	2	1.6	369	0.60	<0.05	11.90	0.259	1.00
W593553		660	15.8	86.5	<0.002	0.03	3.95	11.1	1	1.4	317	0.58	<0.05	11.95	0.269	0.93
W593554		600	16.3	94.5	<0.002	0.02	4.52	10.4	1	1.3	245	0.67	<0.05	12.85	0.246	0.99
W593555		460	>10000	28.5	0.010	2.38	462	11.9	3	1.8	194.0	0.21	1.25	1.80	0.244	0.51
W593556		590	21.1	93.8	<0.002	0.27	4.17	10.0	1	1.6	271	0.60	0.06	12.10	0.246	1.25
W593557		660	16.8	95.7	<0.002	0.03	1.14	11.5	1	1.5	409	0.64	<0.05	12.85	0.271	0.92
W593558		660	19.7	86.6	<0.002	0.04	2.21	12.0	1	1.5	387	0.63	<0.05	11.25	0.287	1.04
W593559		580	46.9	132.0	<0.002	1.70	10.55	10.2	1	3.7	84.7	0.58	3.56	11.45	0.242	2.50
W593560		560	58.5	135.0	<0.002	1.30	11.35	10.3	1	3.2	67.6	0.65	0.06	16.35	0.236	2.21

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 11-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W593521		6.2	60	2.6	13.1	5690	38.3	0.018
W593522		4.2	77	1.5	16.3	117	38.6	0.016
W593523		4.8	73	5.5	14.9	404	36.9	0.018
W593524		4.0	81	4.7	14.6	186	39.2	0.013
W593525		3.3	80	1.4	16.3	55	39.6	<0.005
W593526		4.9	401	6.1	13.5	8160	29.3	1.540
W593527		4.1	76	2.4	15.3	62	36.1	0.015
W593528		3.9	79	1.4	17.1	65	35.6	0.046
W593529		3.3	84	1.4	16.6	86	34.6	0.013
W593530		2.5	86	1.8	15.6	69	41.5	0.006
W593531		2.9	83	1.9	16.1	73	33.5	0.087
W593532		2.9	81	1.0	18.2	48	27.0	<0.005
W593533		3.0	84	0.9	17.7	48	26.6	<0.005
W593534		3.6	82	0.9	17.7	47	30.4	0.009
W593535		3.9	79	0.9	17.2	49	27.9	<0.005
W593536		3.5	83	1.2	18.5	49	27.6	<0.005
W593537		3.8	77	1.6	16.7	53	32.1	<0.005
W593538		4.5	74	3.2	15.2	3190	37.4	0.288
W593539		0.3	2	<0.1	2.1	6	2.8	<0.005
W593540		3.5	83	3.7	15.5	65	41.4	0.007
W593541		3.3	82	1.6	17.7	51	43.2	<0.005
W593542		3.5	81	1.2	17.7	53	42.6	<0.005
W593543		3.9	87	1.2	17.6	73	40.8	<0.005
W593544		3.7	77	0.9	18.0	49	45.2	<0.005
W593545		5.4	120	1.4	20.0	92	40.9	0.013
W593546		4.7	100	1.5	17.4	98	40.0	0.013
W593547		3.7	74	1.1	17.1	63	43.1	<0.005
W593548		5.6	80	5.8	16.1	66	36.2	0.008
W593549		2.8	72	2.1	18.8	51	42.7	<0.005
W593550		3.2	77	1.5	15.6	51	44.3	<0.005
W593551		4.4	76	2.5	14.5	52	42.4	0.007
W593552		3.6	73	2.1	15.9	54	42.1	<0.005
W593553		4.0	73	2.2	16.9	52	41.3	<0.005
W593554		3.4	69	1.4	14.4	51	45.0	<0.005
W593555		1.3	81	0.6	13.4	5160	51.8	0.266
W593556		4.1	69	1.2	15.1	67	38.7	<0.005
W593557		3.9	76	1.1	17.4	52	37.7	<0.005
W593558		3.8	79	1.9	17.0	62	31.5	0.010
W593559		6.7	69	4.1	12.2	117	27.3	0.030
W593560		7.0	67	6.1	13.9	90	28.7	0.027

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 11-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254134

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254141

Project: Klaza

P.O. No.: 19-087

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254141

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
K295641		5.97				0.17	6.96	20.3	1910	1.65	0.35	2.38	0.56	41.7	7.2	9
K295642		2.38				3.83	6.41	275	580	1.51	3.63	3.72	7.34	47.2	6.5	9
K295643		2.61				0.61	6.85	31.7	1590	1.73	0.61	2.74	0.74	42.9	6.7	9
K295644		3.77				1.37	7.20	20.9	2100	1.64	0.97	2.64	15.45	46.5	8.3	13
K295645		5.30				0.29	6.84	9.4	2240	1.67	0.29	2.64	1.72	42.2	7.2	14
K295646		0.26	99	1.020		>100	5.53	249	610	0.70	5.10	1.48	24.5	19.40	12.0	66
K295647		6.72				0.30	6.88	13.4	2200	1.69	0.38	2.73	0.27	40.6	6.8	16
K295648		4.71				0.13	7.40	6.3	2590	1.64	0.19	2.75	0.13	48.2	7.5	15
K295649		3.43				0.22	6.95	24.6	2250	1.67	0.27	2.68	0.18	40.0	7.3	12
K295650		3.45				1.36	7.11	35.1	2430	1.56	1.81	2.48	0.33	57.8	13.4	12
K295651		4.67				0.37	6.96	30.2	2430	1.50	0.59	2.66	0.27	42.6	7.2	10
K295652		3.79				0.28	7.21	23.3	2260	1.59	0.48	2.95	0.17	41.8	7.7	12
K295653		2.18				0.59	7.23	35.0	1890	1.66	2.77	2.31	0.40	44.2	11.0	11
K295654		5.22				0.30	6.99	18.7	2400	1.63	0.88	3.01	0.18	43.1	7.8	12
K295655		<0.02				0.27	6.67	17.6	2270	1.54	0.97	2.88	0.16	40.3	7.4	13
K295656		3.51				0.34	6.64	56.2	1750	1.63	0.38	2.88	0.52	42.3	7.1	13
K295657		6.18				0.80	6.75	28.2	3050	1.56	1.13	2.74	5.25	43.4	8.4	14
K295658		3.58				0.70	7.16	41.5	1540	1.68	3.12	2.67	0.17	46.7	43.2	12
K295659		3.00				0.54	6.96	22.6	2150	1.43	1.12	2.72	0.61	48.2	11.1	10
K295660		5.05				0.01	0.14	<0.2	20	0.08	0.02	31.5	<0.02	1.04	0.8	1
K295661		4.55				0.71	7.56	25.9	2130	1.65	1.65	2.03	0.68	44.9	16.6	9
K295662		6.24				0.33	7.23	13.3	2360	1.64	0.41	2.88	0.70	43.6	7.7	12
K295663		6.38				0.25	7.15	12.5	2370	1.60	0.61	2.72	0.15	35.5	8.3	13
K295664		3.18				1.29	6.78	34.5	1660	1.60	2.80	2.91	2.70	18.80	6.6	10
K295665		5.26				0.39	6.74	18.8	1940	1.43	0.61	2.04	2.09	26.7	2.8	12
K295666		0.26	101			100.0	5.41	243	530	0.66	4.93	1.44	23.7	19.20	11.7	63
K295667		3.11				0.89	7.71	32.5	1000	1.18	1.16	1.47	5.35	35.8	9.5	12
K295668		2.74				1.42	6.22	32.2	990	1.58	1.59	4.20	9.44	14.95	3.9	8
K295669		3.76				1.28	7.81	26.7	2530	1.36	1.33	1.77	4.50	24.8	2.4	12
K295670		1.97				2.85	7.30	37.1	1340	1.57	1.21	2.18	15.75	48.2	3.4	10
K295671		1.59				23.0	7.30	335	150	1.50	33.8	0.90	4.70	60.8	7.7	10
K295672		1.83				1.12	6.97	82.5	1700	1.73	1.33	3.14	1.82	47.7	7.9	18
K295673		1.89				0.81	7.22	84.7	1540	1.86	1.00	3.23	1.89	50.4	7.8	18
K295674		3.49				0.21	7.08	33.8	1940	1.63	0.19	3.13	0.75	57.5	7.3	17
K295675		4.94				4.25	7.55	125.5	1660	1.59	6.57	2.40	4.21	50.7	9.8	9
K295676		4.88				0.62	8.09	25.0	1990	1.26	1.13	1.87	1.29	52.5	7.7	9
K295677		4.91				0.73	7.40	26.6	2240	1.41	1.46	2.75	1.46	49.0	12.9	9
K295678		1.25			1.125	88.2	7.37	318	670	1.88	162.0	2.11	145.0	57.6	10.2	8
K295679		5.16				0.22	7.38	39.6	1390	2.03	0.18	2.84	0.34	57.2	4.4	5
K295680		4.99				0.45	7.18	36.5	1490	1.93	0.20	3.27	0.70	55.1	4.7	5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254141

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K295641		20.6	10.8	2.99	16.10	0.12	1.3	0.067	2.84	20.6	27.2	0.70	771	0.79	0.84	8.7
K295642		23.7	138.0	4.80	14.30	0.12	1.0	0.184	3.05	25.8	13.8	1.30	3120	0.55	0.07	6.6
K295643		25.8	13.3	2.69	15.95	0.12	1.4	0.076	2.99	21.1	72.4	0.86	992	0.63	0.08	8.5
K295644		17.80	50.7	3.51	16.05	0.15	1.3	0.137	3.18	23.5	21.2	0.76	955	1.26	1.25	8.1
K295645		10.60	50.7	2.71	15.90	0.15	1.4	0.071	2.61	21.1	10.3	0.73	593	1.64	2.17	8.3
K295646		0.90	6060	5.73	12.35	0.10	1.4	0.437	1.15	9.3	12.7	1.13	1720	22.4	1.64	3.3
K295647		14.50	16.3	2.92	15.95	0.13	1.3	0.062	2.79	20.1	14.9	0.71	679	1.72	2.03	8.4
K295648		9.07	10.5	2.95	16.70	0.14	1.3	0.047	2.73	24.1	11.4	0.83	565	2.33	2.29	8.8
K295649		16.10	13.1	2.94	16.30	0.14	1.4	0.055	2.66	19.5	19.7	0.74	640	1.80	1.98	8.6
K295650		13.65	214	3.11	16.25	0.16	1.3	0.238	3.23	31.7	23.7	0.83	678	2.14	1.68	8.7
K295651		13.20	34.3	2.89	15.60	0.15	1.2	0.089	2.88	21.4	17.0	0.78	634	1.38	1.97	8.5
K295652		10.15	13.5	2.94	16.90	0.14	1.3	0.066	2.68	21.2	13.5	0.81	635	2.69	2.46	8.9
K295653		12.90	27.1	3.39	16.30	0.15	1.2	0.257	2.95	23.7	11.6	0.71	570	3.00	1.98	7.5
K295654		13.25	28.1	2.89	17.10	0.15	1.3	0.110	2.68	20.7	13.8	0.76	675	0.95	2.39	8.7
K295655		12.40	23.4	2.77	15.75	0.14	1.2	0.099	2.53	19.7	12.3	0.73	636	0.75	2.28	7.9
K295656		14.55	11.0	2.70	16.55	0.15	1.8	0.063	2.74	20.2	17.1	0.80	812	8.23	1.75	9.1
K295657		12.70	43.8	2.93	16.00	0.16	1.4	0.155	2.65	22.0	14.8	0.75	710	7.03	2.00	8.5
K295658		9.70	51.1	4.04	16.30	0.15	1.4	0.112	2.55	23.5	11.8	0.79	537	2.85	2.17	8.6
K295659		11.95	48.5	2.81	16.60	0.15	1.4	0.147	2.82	24.1	24.6	0.74	790	2.28	1.18	8.9
K295660		0.08	2.2	0.13	0.46	0.11	0.1	0.005	0.05	1.2	1.2	2.30	132	<0.05	0.06	0.2
K295661		13.05	87.4	3.80	16.75	0.15	1.3	0.217	2.72	22.8	22.9	0.93	558	1.10	1.62	9.1
K295662		10.55	12.0	2.93	16.60	0.17	1.2	0.052	2.69	21.8	14.8	0.78	551	1.68	2.31	8.6
K295663		10.25	23.5	2.66	16.45	0.17	1.2	0.080	2.57	17.1	15.8	0.76	541	1.06	2.48	8.3
K295664		12.85	293	1.91	15.90	0.15	1.3	0.221	2.53	9.0	15.6	0.54	617	2.65	2.32	8.2
K295665		16.40	18.7	0.84	13.75	0.18	1.3	0.077	3.21	13.8	12.6	0.41	400	2.31	0.66	7.5
K295666		0.89	5990	5.63	11.95	0.11	1.4	0.430	1.12	9.3	12.1	1.10	1680	21.2	1.61	3.3
K295667		18.50	17.0	1.43	15.70	0.15	1.4	0.125	3.58	19.3	14.3	0.58	419	2.36	0.10	7.0
K295668		20.5	20.3	1.96	14.35	0.14	1.3	0.179	3.06	7.2	16.1	0.66	1080	8.43	0.33	7.4
K295669		14.50	9.4	1.13	15.45	0.15	1.5	0.135	4.03	12.9	13.0	0.50	355	4.81	0.80	8.8
K295670		16.55	42.4	2.09	16.25	0.17	1.3	0.353	4.15	22.6	24.9	0.54	888	0.41	0.07	8.3
K295671		7.87	485	5.29	17.25	0.15	1.3	0.623	3.84	30.4	7.7	0.55	725	1.54	0.05	5.6
K295672		24.2	35.2	2.26	16.70	0.08	3.3	0.071	3.27	23.3	16.0	0.80	1300	2.61	0.05	10.2
K295673		26.0	26.6	2.31	17.85	0.08	3.4	0.075	3.41	23.9	15.6	0.79	1260	2.01	0.04	10.8
K295674		19.80	11.7	2.61	17.70	0.09	3.5	0.031	3.06	28.7	27.4	0.96	695	1.77	0.04	10.0
K295675		25.0	169.0	3.55	16.05	0.08	1.2	0.290	2.91	26.7	26.1	0.91	806	1.69	0.05	7.2
K295676		20.7	29.8	3.28	16.60	0.09	1.2	0.132	2.57	27.0	26.5	0.78	830	1.12	0.08	7.6
K295677		25.3	43.4	3.12	16.95	0.09	1.2	0.112	2.83	24.7	35.6	0.82	862	0.98	0.12	8.2
K295678		28.2	486	4.54	17.45	0.09	1.4	2.89	3.24	29.6	14.7	0.82	1630	2.56	0.05	7.8
K295679		33.5	4.5	2.54	18.80	0.10	2.2	0.034	2.83	28.3	32.0	0.86	669	1.52	0.07	9.5
K295680		28.5	6.2	2.60	17.55	0.08	2.1	0.034	2.65	27.1	33.2	0.89	712	1.42	0.07	8.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254141

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K295641		2.4	620	17.1	100.5	<0.002	0.15	8.88	10.8	1	2.1	195.0	0.66	<0.05	12.35	0.259
K295642		2.8	540	435	166.5	<0.002	3.07	31.7	9.7	1	3.9	88.8	0.51	0.29	11.35	0.216
K295643		2.3	600	30.0	104.5	<0.002	0.24	10.20	10.5	1	2.2	105.5	0.70	0.10	12.90	0.248
K295644		2.5	590	294	126.5	<0.002	0.74	4.51	10.4	1	2.6	247	0.62	0.20	13.10	0.244
K295645		2.4	600	19.1	94.8	<0.002	0.09	1.75	10.5	1	2.1	339	0.64	0.05	12.35	0.245
K295646		28.9	460	>10000	28.6	0.010	2.36	457	12.6	2	1.9	194.5	0.21	1.21	1.99	0.240
K295647		2.7	610	23.8	95.2	<0.002	0.25	2.15	10.3	1	2.1	348	0.65	<0.05	11.60	0.252
K295648		3.1	620	17.0	97.6	<0.002	0.12	1.16	11.3	1	1.8	403	0.66	<0.05	13.40	0.258
K295649		2.7	630	17.4	93.4	<0.002	0.20	2.98	10.6	1	2.0	319	0.68	0.05	10.90	0.250
K295650		2.7	590	20.0	130.0	<0.002	0.60	5.74	10.9	1	3.2	282	0.69	0.91	12.95	0.247
K295651		2.7	620	38.7	101.0	<0.002	0.28	2.56	10.5	1	2.2	324	0.64	0.09	11.55	0.258
K295652		2.8	650	16.4	85.3	0.002	0.15	2.17	11.1	1	2.3	379	0.67	0.10	11.70	0.268
K295653		2.8	630	72.3	127.0	0.003	1.33	2.07	10.8	1	3.3	313	0.59	0.22	12.60	0.245
K295654		3.1	660	25.8	89.6	<0.002	0.24	2.31	11.7	1	2.5	375	0.62	0.14	11.50	0.267
K295655		2.7	620	24.7	83.6	<0.002	0.24	2.04	11.0	1	2.3	358	0.59	0.14	11.85	0.251
K295656		3.4	720	26.5	103.0	0.012	0.29	5.70	10.1	1	1.9	297	0.66	0.09	10.40	0.269
K295657		2.8	610	123.0	94.9	0.006	0.43	3.20	10.7	1	2.2	344	0.66	0.15	12.25	0.249
K295658		3.7	610	18.2	96.9	<0.002	1.58	1.52	11.1	1	2.1	375	0.67	1.74	12.45	0.253
K295659		2.8	640	34.8	93.9	0.003	0.41	3.86	10.6	<1	2.5	232	0.67	0.17	11.65	0.267
K295660		0.3	80	<0.5	1.4	<0.002	<0.01	0.07	0.2	2	<0.2	77.3	<0.05	<0.05	0.13	0.006
K295661		3.3	850	37.9	102.5	<0.002	0.69	3.52	11.7	1	3.8	231	0.65	0.50	12.30	0.294
K295662		3.1	620	44.7	91.3	<0.002	0.11	1.48	10.9	1	1.9	396	0.62	0.12	11.60	0.265
K295663		2.7	610	15.9	84.3	<0.002	0.20	1.93	10.9	1	3.2	382	0.58	0.09	11.15	0.270
K295664		2.7	640	44.8	103.5	0.002	0.33	5.69	11.5	1	2.7	320	0.58	0.58	10.90	0.255
K295665		1.2	520	67.0	143.5	<0.002	0.09	42.7	8.3	1	2.3	175.5	0.59	<0.05	12.10	0.227
K295666		28.0	460	9920	28.2	0.012	2.33	449	12.4	2	1.8	190.0	0.21	1.19	1.93	0.234
K295667		2.4	620	178.5	187.0	<0.002	0.45	21.0	10.6	1	2.2	84.1	0.54	0.05	14.95	0.221
K295668		2.1	570	338	128.5	<0.002	0.19	11.80	10.7	1	2.3	151.5	0.57	0.06	11.00	0.241
K295669		1.8	630	194.0	199.5	0.003	0.08	16.60	13.2	1	2.5	169.5	0.64	0.06	16.15	0.259
K295670		2.4	630	1290	183.5	<0.002	0.57	7.60	9.6	1	4.2	126.0	0.59	0.09	12.55	0.233
K295671		2.9	580	380	248	<0.002	5.16	69.8	10.8	1	12.4	34.8	0.49	0.65	13.40	0.191
K295672		9.3	1140	85.3	120.5	0.002	0.53	13.35	5.9	1	1.5	208	0.71	<0.05	7.62	0.299
K295673		6.5	1180	101.0	133.5	0.002	0.49	11.70	6.2	1	1.7	216	0.74	<0.05	8.22	0.311
K295674		6.0	1090	23.6	130.0	<0.002	0.13	10.65	6.3	1	1.3	221	0.72	<0.05	8.86	0.294
K295675		2.9	660	235	154.5	<0.002	1.52	37.1	10.6	1	4.0	137.5	0.53	0.32	12.55	0.260
K295676		2.7	670	84.4	108.5	<0.002	0.33	11.45	11.2	1	2.9	133.5	0.62	<0.05	12.95	0.278
K295677		2.9	660	41.1	111.0	<0.002	0.27	14.80	11.5	1	2.8	195.0	0.62	0.56	12.40	0.269
K295678		3.5	680	3560	195.5	<0.002	3.86	30.0	9.3	1	9.6	139.5	0.60	0.16	10.55	0.263
K295679		1.8	880	20.9	94.4	<0.002	0.15	5.66	5.3	1	1.6	224	0.69	<0.05	8.96	0.300
K295680		1.9	860	49.2	88.2	<0.002	0.09	8.49	5.0	1	1.4	235	0.65	<0.05	8.69	0.294

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254141

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K295641		1.68	4.1	73	2.1	15.5	128	36.6	0.007
K295642		2.89	5.0	64	5.6	13.6	553	30.6	0.433
K295643		2.03	4.8	69	1.4	15.2	138	39.1	0.009
K295644		1.84	4.8	67	2.1	15.6	1100	37.7	0.017
K295645		1.18	4.2	69	0.7	15.8	139	39.4	0.007
K295646		0.48	1.3	81	0.6	14.2	5090	52.1	0.274
K295647		1.26	3.7	70	0.8	15.5	67	38.1	0.012
K295648		1.11	4.0	73	0.8	17.5	45	39.4	<0.005
K295649		1.34	4.1	71	0.9	15.9	53	40.1	0.007
K295650		1.68	4.9	72	1.3	16.1	62	38.1	0.236
K295651		1.44	4.1	73	1.3	15.6	65	34.9	0.024
K295652		1.19	3.8	75	0.9	16.0	48	37.9	0.037
K295653		1.73	4.4	68	1.3	15.3	70	36.8	0.088
K295654		1.21	3.6	80	0.8	16.6	48	39.0	0.010
K295655		1.17	3.7	75	0.8	15.2	46	36.3	0.013
K295656		1.67	4.6	70	3.1	14.8	79	59.6	0.034
K295657		1.35	3.9	71	1.0	15.9	417	41.5	0.032
K295658		1.19	3.9	71	0.8	17.0	49	39.6	0.041
K295659		1.50	4.5	73	1.8	18.4	97	39.3	0.020
K295660		0.02	0.2	2	<0.1	2.2	3	2.2	<0.005
K295661		1.33	2.7	82	1.2	16.4	204	38.8	0.066
K295662		1.05	3.5	73	0.6	16.3	97	37.4	0.016
K295663		1.08	3.6	75	0.9	15.8	48	35.9	0.009
K295664		1.82	4.3	77	2.6	11.8	196	39.2	0.373
K295665		2.04	2.5	64	7.3	10.1	162	37.7	0.041
K295666		0.47	1.3	79	0.6	14.1	5050	48.9	0.278
K295667		2.50	4.6	73	7.3	11.7	307	41.2	0.078
K295668		3.09	5.8	69	7.8	11.4	583	38.2	0.468
K295669		3.22	4.3	71	6.0	10.6	366	44.4	0.151
K295670		3.58	4.9	73	2.0	11.9	1360	41.1	0.130
K295671		2.84	2.5	71	7.3	8.8	362	41.2	1.005
K295672		2.88	6.6	63	2.7	11.0	225	134.5	0.055
K295673		3.14	7.4	66	2.6	11.8	228	143.0	0.055
K295674		2.63	7.4	62	1.8	13.3	219	139.0	<0.005
K295675		2.37	5.1	75	3.2	14.9	327	36.5	0.219
K295676		1.59	2.7	79	3.8	15.7	138	33.1	0.031
K295677		1.82	5.2	78	2.1	15.6	189	34.2	0.037
K295678		3.06	3.9	65	6.7	13.4	>10000	45.3	0.504
K295679		1.65	4.7	47	1.2	12.7	94	73.2	<0.005
K295680		1.58	4.4	46	1.3	12.1	134	69.8	0.007

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254141

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254149

Project: Klaza

P.O. No.: 19-088

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254149

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
K295681		5.15					0.56	7.52	33.9	1720	2.04	0.06	3.31	1.45	56.1	4.9
K295682		5.40					0.27	7.68	36.2	1990	1.89	0.14	2.58	0.24	65.7	7.0
K295683		6.72					0.16	7.78	33.5	2350	2.00	0.13	2.90	0.19	69.9	7.3
K295684		4.42					0.60	7.33	73.1	3540	2.00	0.51	2.81	1.62	64.0	7.5
K295685		2.76	15.90			2.35	74.6	4.68	7570	120	1.02	37.6	1.07	398	27.7	6.7
K295686		5.06					0.08	0.10	8.0	30	0.06	0.05	33.6	0.55	1.32	0.5
K295687		4.62					2.38	7.63	256	460	1.19	2.46	0.42	7.45	46.4	8.1
K295688		5.28					2.96	7.51	116.0	710	1.30	6.01	1.40	3.47	63.7	10.5
K295689		5.48					0.15	7.23	10.8	2280	1.22	1.54	2.64	0.16	49.0	6.6
K295690		2.19					0.14	7.09	12.3	2270	1.29	1.57	2.84	0.10	43.5	6.1
K295691		2.70					0.52	7.77	57.1	1730	1.53	4.01	2.33	0.68	55.3	7.7
K295692		4.55					0.13	7.45	12.7	2270	1.28	0.55	2.42	0.11	46.7	7.5
K295693		0.26		97	1.010		>100	5.60	260	620	0.71	5.26	1.46	26.1	22.2	12.8
K295694		4.82					0.14	7.70	10.2	2430	1.59	0.37	2.82	0.11	51.6	7.7
K295695		4.94					0.44	7.52	13.8	2280	1.38	3.37	2.90	0.21	46.8	7.6
K295696		5.32					0.29	7.95	35.8	2330	1.50	1.06	2.95	0.20	55.8	8.8
K295697		4.15					0.41	8.20	31.8	2210	1.64	1.72	2.80	0.58	54.1	8.3
K295698		2.56					4.94	7.65	57.4	1730	1.64	28.0	2.41	2.30	54.8	4.6
K295699		2.87					0.32	7.59	16.4	2310	1.48	1.51	2.89	0.15	47.1	8.3
K295700		0.86					0.12	7.11	19.8	2340	1.50	0.41	2.78	0.14	40.2	7.8
K295701		5.24					0.25	7.87	23.8	2440	1.55	1.76	2.90	0.20	47.2	7.6
K295702		2.71					0.08	7.84	5.2	2430	1.59	0.27	2.98	0.08	52.9	8.2
K295703		2.19					0.55	7.68	63.2	2050	1.27	2.72	1.93	0.36	50.5	11.7
K295704		2.56					0.40	8.48	34.4	2310	1.70	1.21	2.93	0.26	58.7	9.3
K295705		4.29					0.08	7.83	8.2	2360	1.53	0.23	2.93	0.14	51.6	7.4
K295706		3.24					0.21	7.29	14.5	2090	1.57	0.35	2.78	0.31	46.6	6.9
K295707		5.00					0.07	7.71	5.8	2330	1.62	0.13	2.96	0.12	49.0	7.7
K295708		<0.02					0.08	7.39	5.2	2210	1.62	0.13	2.89	0.13	47.4	6.9
K295709		2.22					0.06	7.20	7.4	2180	1.65	0.14	2.77	0.07	47.1	6.3
K295710		4.20					0.07	7.24	11.2	1960	1.75	0.19	2.73	0.07	48.5	6.2
K295711		7.03					0.21	7.12	9.7	2170	1.65	0.61	2.78	0.09	50.4	6.6
K295712		5.77					0.21	7.16	18.1	2270	1.61	0.38	2.76	1.06	41.0	7.1
K295713		4.12					0.46	7.30	32.6	2240	1.54	3.05	2.61	0.73	42.7	7.2
K295714		2.96					0.38	7.80	70.6	2210	1.28	0.62	1.76	2.59	52.4	7.6
K295715		5.90					0.12	7.44	58.4	2200	1.54	0.33	2.96	0.32	52.1	7.0
K295716		0.26		100	0.972		>100	5.47	250	600	0.65	5.11	1.49	24.3	19.00	11.8
K295717		3.24					0.86	6.96	280	1870	1.58	1.58	2.58	1.70	43.2	7.7
K295718		4.71					0.26	7.75	27.8	2340	1.26	0.68	1.47	0.12	44.9	8.7
K295719		2.96					0.40	7.65	36.9	1610	1.28	2.68	1.32	0.17	58.3	11.0
K295720		3.36					0.37	7.54	71.1	1510	1.48	2.24	1.60	0.17	54.8	7.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
K295681		6	34.2	7.2	2.71	18.25	0.08	2.2	0.043	2.80	27.6	29.3	0.95	837	1.51	0.09
K295682		20	18.75	12.7	2.74	18.60	0.09	4.3	0.036	2.20	32.7	86.2	0.96	728	1.89	0.06
K295683		22	13.20	10.4	2.49	19.90	0.11	4.8	0.033	2.34	34.6	97.0	0.97	559	1.21	0.07
K295684		20	15.85	16.7	2.76	17.90	0.09	4.2	0.060	2.27	31.4	73.8	0.96	1190	1.73	0.05
K295685		7	7.72	769	12.60	18.35	0.10	0.9	7.35	2.27	13.1	6.0	0.42	1030	3.23	0.02
K295686		2	0.10	2.3	0.14	0.28	<0.05	<0.1	0.014	0.03	1.3	1.1	1.72	142	0.06	0.03
K295687		10	8.03	14.1	5.68	17.80	0.08	1.1	0.423	3.70	24.7	4.1	0.41	462	23.0	0.04
K295688		10	15.80	47.8	5.73	16.15	0.08	1.0	0.439	3.35	34.2	9.7	0.87	1330	1.47	0.07
K295689		11	11.00	30.3	3.17	15.75	0.07	1.2	0.128	2.70	24.3	10.5	0.83	486	1.15	1.85
K295690		11	8.32	30.2	3.21	15.85	0.08	1.0	0.199	2.63	22.1	10.7	0.84	581	1.14	1.68
K295691		9	13.25	50.5	4.08	17.10	0.10	1.1	0.281	2.94	28.1	13.9	0.81	565	0.93	1.22
K295692		10	12.05	19.8	2.96	15.55	0.08	1.1	0.127	2.57	24.0	19.5	0.74	567	0.85	1.38
K295693		65	0.96	6070	5.76	12.60	0.07	1.5	0.476	1.15	9.2	12.0	1.13	1700	24.3	1.64
K295694		12	9.63	15.8	3.05	16.40	0.09	1.1	0.075	2.73	25.8	10.8	0.87	552	0.87	2.30
K295695		13	8.47	105.0	2.93	16.20	0.09	1.1	0.109	2.65	23.2	11.1	0.84	542	1.38	2.29
K295696		13	11.00	51.8	3.34	17.35	0.08	1.1	0.100	2.74	27.0	13.4	0.89	585	1.28	2.20
K295697		11	9.27	32.2	3.74	17.30	0.08	1.1	0.162	2.77	28.0	13.8	0.93	718	1.43	1.73
K295698		10	11.70	1225	4.36	16.95	0.08	0.9	0.453	3.11	28.8	19.1	0.83	1050	0.91	0.57
K295699		11	9.67	46.3	3.16	16.40	0.07	1.1	0.120	2.41	23.8	11.5	0.89	555	1.52	2.26
K295700		11	9.77	11.0	2.99	16.60	0.08	1.1	0.111	2.44	19.1	11.4	0.79	506	1.28	2.25
K295701		13	10.10	34.1	3.36	16.75	0.09	1.0	0.195	2.74	23.0	11.8	0.90	567	1.54	2.11
K295702		20	8.95	6.6	3.13	17.15	0.07	1.2	0.058	2.59	26.1	12.2	0.88	604	0.91	2.43
K295703		10	9.68	88.8	4.35	16.10	0.10	1.0	0.141	2.96	26.1	23.6	0.62	560	0.79	0.28
K295704		13	12.35	52.0	3.89	18.00	0.10	1.1	0.119	2.97	30.7	14.7	0.84	612	2.79	1.50
K295705		13	11.05	10.9	2.98	16.40	0.09	1.2	0.068	2.70	26.0	9.5	0.82	576	1.04	2.31
K295706		12	16.10	8.8	2.83	15.50	0.09	1.3	0.067	2.53	23.5	13.0	0.72	589	0.94	2.02
K295707		12	10.45	5.7	2.83	16.30	0.09	1.1	0.063	2.69	24.6	10.4	0.85	574	2.06	2.42
K295708		12	9.76	5.3	2.77	16.40	0.16	1.1	0.051	2.65	23.9	11.7	0.83	555	2.15	2.37
K295709		12	8.28	4.9	2.51	16.15	0.16	1.1	0.061	2.77	24.2	10.8	0.75	516	1.38	2.38
K295710		11	12.05	7.7	2.67	16.30	0.16	1.4	0.040	2.84	24.9	12.8	0.70	541	2.42	2.26
K295711		13	10.20	18.9	2.71	16.45	0.15	1.4	0.060	2.75	25.9	18.0	0.64	583	2.27	1.53
K295712		11	10.90	6.4	2.96	16.50	0.17	1.2	0.066	2.79	20.0	12.6	0.76	570	1.05	2.23
K295713		9	9.25	16.3	3.06	16.35	0.16	1.2	0.066	2.73	21.6	19.2	0.61	622	1.41	1.15
K295714		8	10.80	13.6	2.92	17.15	0.16	1.3	0.160	2.82	27.2	21.4	0.49	580	3.67	0.52
K295715		11	9.72	7.2	2.75	16.30	0.18	1.1	0.051	2.76	26.5	11.5	0.77	557	1.50	2.30
K295716		62	0.88	5980	5.77	12.10	0.12	1.4	0.430	1.16	9.0	12.9	1.14	1730	22.9	1.65
K295717		10	13.10	18.0	3.36	16.65	0.15	1.1	0.126	2.72	21.6	15.4	0.61	620	1.40	1.22
K295718		9	9.60	35.4	2.41	17.55	0.13	1.1	0.087	2.77	22.7	43.0	0.40	570	2.13	0.09
K295719		9	16.10	50.5	3.23	16.65	0.18	0.9	0.096	2.74	32.0	28.5	0.55	654	2.11	0.16
K295720		10	11.60	98.7	4.15	16.95	0.16	1.0	0.092	3.06	29.5	18.1	0.67	541	1.72	0.64

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
K295681		9.1	2.0	910	73.8	98.8	<0.002	0.10	8.53	5.1	1	1.5	317	0.68	<0.05	8.63
K295682		9.9	7.2	1320	12.4	68.0	<0.002	0.08	11.40	5.7	1	1.5	357	0.71	<0.05	9.09
K295683		10.6	8.3	1280	10.9	73.2	<0.002	0.06	11.60	5.6	1	1.7	354	0.77	<0.05	10.80
K295684		10.5	8.2	1210	44.8	70.4	<0.002	0.29	14.60	5.5	1	1.8	314	0.69	<0.05	9.47
K295685		4.6	2.4	350	9550	114.0	0.002	>10.0	92.6	6.1	3	38.7	38.9	0.43	0.54	9.40
K295686		0.1	0.4	80	13.0	0.9	<0.002	0.01	0.19	0.2	2	<0.2	81.5	<0.05	<0.05	0.11
K295687		7.4	2.6	580	185.5	220	0.006	5.71	5.35	9.3	2	9.5	16.1	0.65	0.32	13.95
K295688		6.5	2.4	580	122.5	194.5	<0.002	3.39	8.27	9.2	1	5.5	70.7	0.52	0.69	12.70
K295689		8.0	2.6	630	19.0	101.0	<0.002	0.28	2.87	10.6	1	2.3	356	0.68	<0.05	13.90
K295690		8.0	2.7	620	14.9	95.5	<0.002	0.29	1.64	9.7	1	2.9	309	0.64	<0.05	11.30
K295691		8.3	2.8	680	40.2	145.5	<0.002	1.57	2.75	11.9	1	7.0	242	0.62	0.07	13.70
K295692		7.7	2.5	610	15.2	91.6	<0.002	0.28	3.29	10.1	1	2.4	265	0.62	0.05	13.45
K295693		3.4	29.9	460	>10000	34.8	0.011	2.36	462	12.3	3	2.0	197.0	0.23	1.16	2.11
K295694		8.1	2.9	660	21.2	97.3	<0.002	0.13	1.28	10.8	1	2.2	404	0.63	<0.05	13.90
K295695		8.0	2.9	630	20.6	88.0	<0.002	0.24	1.54	10.6	1	3.5	397	0.64	<0.05	13.35
K295696		8.3	2.9	660	21.6	110.5	<0.002	0.50	1.63	11.8	1	4.7	392	0.63	0.11	13.35
K295697		8.1	2.9	680	28.9	114.5	<0.002	0.94	2.04	11.5	2	4.6	338	0.62	0.18	13.80
K295698		7.0	2.4	630	81.2	147.0	<0.002	1.29	5.95	10.6	2	4.6	150.5	0.52	0.34	13.30
K295699		8.1	3.0	690	19.9	89.0	<0.002	0.29	1.42	11.7	1	3.3	415	0.66	0.07	10.60
K295700		8.0	2.6	640	17.9	79.0	<0.002	0.26	1.43	10.4	1	2.7	430	0.66	<0.05	8.77
K295701		7.9	2.7	680	23.6	102.5	<0.002	0.41	1.72	10.9	1	3.4	403	0.62	0.05	10.55
K295702		8.5	3.0	680	16.5	93.3	<0.002	0.02	0.83	11.5	1	1.9	431	0.69	<0.05	13.80
K295703		7.4	2.7	610	38.5	117.0	<0.002	1.46	5.53	10.4	1	5.4	120.5	0.62	0.17	15.10
K295704		8.2	2.9	690	24.2	130.0	<0.002	0.64	3.09	12.1	1	4.5	305	0.62	0.07	13.95
K295705		8.1	2.6	650	19.8	98.3	<0.002	0.05	1.02	10.6	1	1.9	404	0.70	<0.05	14.20
K295706		7.6	2.5	590	34.7	98.5	<0.002	0.17	2.30	10.0	1	2.8	331	0.64	<0.05	13.75
K295707		8.1	2.7	650	16.8	94.0	<0.002	0.02	1.17	10.8	1	3.2	417	0.63	<0.05	12.45
K295708		8.0	3.4	610	17.1	93.7	<0.002	0.01	1.05	11.0	1	3.1	395	0.64	<0.05	12.10
K295709		7.7	2.8	570	14.6	90.1	<0.002	0.01	1.18	10.3	1	4.3	383	0.59	<0.05	14.90
K295710		8.1	2.6	570	15.0	100.5	<0.002	0.05	2.26	10.4	1	2.4	340	0.71	<0.05	15.70
K295711		8.3	2.6	580	15.6	98.7	<0.002	0.10	4.75	10.5	1	3.6	267	0.75	0.06	15.05
K295712		7.9	2.7	600	31.5	86.3	<0.002	0.23	3.09	10.5	1	2.3	373	0.62	<0.05	12.20
K295713		7.9	2.6	620	75.7	86.7	<0.002	0.39	7.48	10.6	1	3.0	232	0.66	0.18	11.85
K295714		8.1	2.8	650	84.1	101.5	<0.002	0.37	8.80	11.5	1	4.2	119.5	0.66	0.05	14.65
K295715		7.8	2.6	610	55.3	92.4	<0.002	0.13	9.06	11.1	1	3.8	388	0.57	<0.05	13.30
K295716		3.2	28.4	450	>10000	28.0	0.011	2.34	450	12.0	3	1.9	190.5	0.22	1.20	2.06
K295717		7.7	2.8	610	195.5	106.5	<0.002	1.01	25.6	10.8	<1	4.6	235	0.56	0.11	11.50
K295718		8.5	2.7	680	18.0	100.0	<0.002	0.36	12.55	11.4	1	5.3	83.3	0.69	0.07	13.75
K295719		7.7	2.7	600	13.9	114.0	<0.002	0.86	19.15	11.3	1	4.4	76.5	0.53	1.08	16.00
K295720		7.4	2.6	590	14.0	154.0	<0.002	1.24	11.80	10.7	1	9.6	132.0	0.61	0.09	15.80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K295681		0.301	1.77	4.7	48	2.1	12.0	213	71.8	0.013
K295682		0.349	1.19	3.7	62	2.2	10.3	90	175.5	<0.005
K295683		0.339	1.07	5.4	58	2.7	10.3	84	200	<0.005
K295684		0.319	1.10	5.3	60	2.7	10.2	528	181.5	0.078
K295685		0.141	1.88	3.2	42	5.1	5.8	>10000	25.6	>10.0
K295686		0.006	<0.02	0.1	1	<0.1	2.2	41	2.0	0.005
K295687		0.236	2.92	3.1	71	9.9	6.8	614	29.7	0.138
K295688		0.224	2.68	5.2	67	6.8	9.6	305	26.7	0.115
K295689		0.256	1.36	3.9	73	1.5	16.2	44	31.6	0.009
K295690		0.256	1.32	3.3	71	1.6	15.5	44	28.4	0.011
K295691		0.270	1.77	5.1	80	2.3	15.4	92	28.8	0.054
K295692		0.252	1.17	3.4	70	2.4	15.2	42	29.9	<0.005
K295693		0.242	0.52	1.4	80	0.6	15.3	5090	57.1	0.272
K295694		0.270	1.00	4.0	76	0.6	16.5	44	31.7	<0.005
K295695		0.265	1.07	3.8	74	0.7	16.2	49	33.8	0.005
K295696		0.272	1.11	3.8	79	0.7	16.8	53	29.7	0.052
K295697		0.273	1.37	4.3	78	1.7	15.8	101	31.3	0.015
K295698		0.244	1.97	4.1	72	4.2	14.0	250	28.3	0.114
K295699		0.282	1.06	3.9	82	0.7	17.2	57	29.0	0.006
K295700		0.269	1.14	3.4	75	0.8	14.3	51	27.3	0.005
K295701		0.274	1.30	3.9	78	1.0	15.3	62	28.1	0.013
K295702		0.279	1.09	3.9	78	0.5	16.9	45	31.4	<0.005
K295703		0.248	1.41	5.0	71	4.0	14.7	75	29.9	0.403
K295704		0.278	1.41	4.5	79	1.5	17.6	70	31.6	0.026
K295705		0.265	1.02	4.1	75	0.6	16.1	49	33.5	<0.005
K295706		0.245	1.10	3.6	69	0.7	14.3	66	36.8	<0.005
K295707		0.266	1.00	3.9	75	0.6	17.1	45	33.1	<0.005
K295708		0.261	0.96	3.6	72	0.4	17.7	43	33.2	<0.005
K295709		0.252	0.96	3.3	67	0.6	15.8	37	33.9	<0.005
K295710		0.242	1.03	5.0	66	1.5	17.0	38	40.8	<0.005
K295711		0.247	1.05	4.4	67	2.1	17.8	39	39.3	0.050
K295712		0.266	1.01	3.6	72	0.8	15.0	133	34.4	<0.005
K295713		0.265	1.12	3.2	72	2.3	16.1	115	34.9	0.007
K295714		0.278	1.15	4.0	74	5.4	18.0	230	37.2	0.006
K295715		0.263	0.98	3.3	72	0.7	17.0	57	33.7	<0.005
K295716		0.242	0.50	1.3	79	0.4	13.9	5180	53.0	0.279
K295717		0.259	1.28	3.7	72	2.2	15.8	178	30.6	0.054
K295718		0.287	1.14	3.5	73	13.7	15.9	39	31.5	0.008
K295719		0.257	1.17	4.2	70	7.5	17.1	47	27.6	0.042
K295720		0.251	1.46	4.0	69	3.6	15.4	43	26.5	0.109

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254149

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	Au-GRA22	ME-MS61
	ME-OG62	Pb-OG62	Zn-OG62	

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254152

Project: Klaza

P.O. No.: 19-090

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254152

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
K295721		5.19			0.09	7.44	6.8	2170	1.50	0.27	2.80	0.09	48.5	6.8	10	11.75
K295722		1.78			0.98	7.66	107.5	590	1.66	4.78	0.97	0.44	53.3	8.6	9	12.20
K295723		3.96			0.09	8.27	6.8	2140	1.35	0.17	1.53	0.09	50.3	6.1	9	13.85
K295724		2.56			0.27	7.20	35.7	2030	1.69	0.66	2.17	0.24	55.5	8.3	8	22.0
K295725		5.07			0.18	7.41	31.2	1820	1.44	0.61	1.87	0.40	47.1	6.1	7	17.25
K295726		3.47			0.29	7.20	66.0	1550	1.47	0.33	1.90	2.71	50.9	7.3	7	32.3
K295727		4.95			0.01	0.11	<0.2	30	0.08	0.02	34.0	0.02	1.13	0.8	1	0.09
K295728		4.40			0.10	7.80	20.8	1870	1.31	0.41	1.33	0.13	55.8	6.0	9	23.0
K295729		3.21			1.25	7.29	35.5	1940	1.36	0.66	2.31	4.50	51.1	5.7	8	16.50
K295730		4.96			1.76	7.33	85.9	1750	1.64	1.80	2.01	3.86	56.6	7.8	8	14.90
K295731		2.07			3.26	7.38	143.5	610	1.61	2.66	2.10	2.23	58.6	6.0	8	12.50
K295732		3.52			1.10	7.89	75.3	1950	1.61	2.01	1.80	0.47	58.6	5.6	9	10.50
K295733		0.26	101	0.993	>100	5.60	267	630	0.72	5.09	1.53	25.4	19.80	12.2	65	0.91
K295734		2.03			3.95	6.37	220	400	1.21	10.80	0.54	1.00	40.7	62.3	9	4.89
K295735		2.68			2.34	7.45	81.4	660	1.44	5.65	0.89	1.72	34.9	6.8	9	4.94
K295736		1.68			11.20	6.72	241	240	1.32	25.2	0.39	1.29	52.7	10.1	8	4.19
K295737		5.29			1.79	7.42	71.1	1240	1.54	4.30	1.81	2.24	53.7	4.4	9	12.35
K295738		4.39			1.42	7.19	23.9	1840	1.60	4.02	2.12	3.21	48.5	5.3	8	11.85
K295739		5.06			0.26	7.12	11.8	2010	1.62	5.04	2.36	0.16	47.9	6.1	9	11.45
K295740		3.06			1.90	7.93	46.9	2170	1.55	4.14	0.81	1.20	62.6	4.6	9	17.40
K295741		4.13			0.43	7.77	8.8	2900	1.78	1.10	1.97	2.67	52.0	8.5	9	11.90
K295742		3.42			0.53	7.94	14.6	2340	1.72	0.90	1.48	3.53	59.8	8.5	9	13.55
K295743		2.90			0.85	8.19	24.9	1850	1.75	1.87	0.36	6.90	56.6	11.7	8	22.9
K295744		3.90			0.50	8.27	25.2	1920	2.03	1.17	0.96	2.49	58.1	10.7	9	15.65
K295745		3.83			0.74	8.46	27.5	1700	1.93	1.96	0.28	0.90	54.9	7.8	8	17.60
K295746		0.26	97	0.988	>100	5.61	258	610	0.66	4.92	1.50	24.2	19.15	12.5	63	0.86
K295747		4.61			0.36	7.70	11.2	2280	1.81	0.53	1.02	0.78	53.7	8.5	8	16.05
K295748		3.88			0.78	7.96	31.1	1480	1.33	1.22	0.06	0.19	56.3	4.3	7	22.6
K295749		3.63			1.41	7.92	52.3	2080	1.49	3.09	0.06	0.22	54.7	3.6	7	17.25
K295750		3.59			0.82	7.99	32.2	600	1.40	2.14	0.12	0.17	44.6	5.4	7	16.15
K295751		3.53			0.61	8.01	36.7	1920	1.56	1.87	0.35	0.44	60.4	5.1	9	18.45
K295752		1.74			0.77	7.71	37.8	1670	1.39	2.10	0.25	0.20	57.4	5.1	8	19.95
K295753		3.04			0.66	7.64	33.8	600	1.75	2.05	0.51	1.32	47.5	7.1	8	15.70
K295754		3.41			0.68	7.46	14.3	380	1.95	1.96	0.80	0.94	49.1	8.2	9	12.75
K295755		2.99			0.36	7.77	11.3	2520	2.06	0.97	1.83	1.76	55.5	9.7	9	9.86
K295756		4.92			0.62	7.84	21.8	1250	2.17	1.52	0.74	3.99	51.3	8.5	9	12.15
K295757		3.54			1.02	8.19	75.9	1220	2.99	2.03	0.28	8.87	66.3	10.8	8	17.70
K295758		2.46			2.09	7.76	67.7	210	1.37	4.45	0.07	1.34	59.6	3.2	7	11.20
K295759		<0.02			2.11	7.76	67.8	190	1.40	4.55	0.07	1.39	60.0	3.1	8	11.60
K295760		2.32			2.74	7.63	115.0	140	2.35	5.45	0.09	2.77	56.0	8.3	9	13.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254152

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295721		10.2	2.76	16.05	0.16	1.0	0.049	2.83	25.3	10.3	0.72	568	1.67	2.33	7.5	2.5
K295722		85.0	4.83	18.00	0.15	1.0	0.277	3.44	28.8	12.6	0.56	706	1.68	0.25	7.8	2.8
K295723		21.1	2.91	18.85	0.15	1.1	0.053	3.14	25.6	34.6	0.36	582	2.93	0.14	8.8	2.1
K295724		35.0	2.77	16.10	0.15	0.9	0.091	2.54	30.2	40.6	0.73	807	3.41	0.05	7.1	2.8
K295725		30.2	2.93	16.70	0.14	1.2	0.068	2.77	24.2	61.9	0.63	632	1.61	0.07	7.9	2.4
K295726		14.0	2.74	15.90	0.15	1.1	0.042	2.94	27.3	18.6	0.66	570	1.77	0.04	7.8	2.7
K295727		2.8	0.13	0.35	0.09	0.1	<0.005	0.03	1.2	1.3	1.79	128	<0.05	0.04	0.2	0.4
K295728		10.9	2.78	17.00	0.17	1.1	0.055	2.95	30.3	26.1	0.49	607	1.37	0.08	7.8	2.1
K295729		22.7	3.54	15.95	0.16	1.2	0.109	3.09	26.4	15.0	0.67	875	1.20	1.08	7.5	2.3
K295730		95.5	3.61	15.90	0.16	1.0	0.249	3.26	31.0	19.8	0.84	1170	1.44	0.06	6.9	2.5
K295731		248	4.23	16.25	0.14	1.1	0.254	3.37	32.1	13.8	0.88	1130	1.66	0.05	5.4	3.1
K295732		125.5	3.37	17.40	0.16	1.1	0.206	3.72	31.4	20.6	0.78	867	1.00	0.07	6.4	2.6
K295733		6200	5.91	12.70	0.12	1.6	0.453	1.18	9.3	12.8	1.16	1760	23.4	1.68	3.3	29.6
K295734		287	9.35	15.10	0.12	1.0	0.237	3.27	20.7	4.8	0.44	295	1.29	0.05	3.5	6.0
K295735		27.1	4.23	17.20	0.11	1.0	0.208	3.97	18.8	5.8	0.61	721	0.62	0.06	4.8	2.3
K295736		147.0	7.09	15.70	0.12	0.9	0.294	3.45	27.6	6.0	0.41	250	1.47	0.06	2.8	3.9
K295737		82.9	3.54	16.25	0.14	1.2	0.222	3.44	29.6	22.4	0.77	786	1.40	0.06	6.2	2.6
K295738		47.1	2.75	15.80	0.14	1.3	0.145	2.77	26.0	20.5	0.63	421	1.34	1.57	7.2	2.4
K295739		55.1	2.58	15.95	0.12	1.2	0.102	2.97	25.6	12.3	0.64	415	1.27	2.12	7.4	2.3
K295740		146.5	4.48	16.90	0.14	1.1	0.176	3.22	34.7	16.7	0.42	269	4.65	1.04	7.4	2.4
K295741		56.8	3.25	17.20	0.17	1.0	0.090	2.81	27.8	13.1	0.58	690	2.43	2.13	8.0	3.0
K295742		113.5	3.56	17.70	0.14	1.1	0.099	3.04	31.8	13.3	0.48	835	1.70	1.91	8.0	2.9
K295743		125.5	4.54	16.20	0.15	1.1	0.113	3.26	31.0	21.3	0.27	1020	3.05	0.66	7.3	3.4
K295744		118.0	3.65	18.10	0.14	1.2	0.096	3.01	31.8	17.4	0.29	1230	2.68	1.59	8.1	4.4
K295745		137.0	4.20	18.35	0.13	1.2	0.172	3.49	29.8	18.7	0.27	316	11.00	0.87	7.5	3.2
K295746		6120	5.83	12.90	0.11	1.5	0.443	1.18	9.3	14.5	1.15	1720	20.6	1.67	3.2	30.8
K295747		32.3	4.02	18.35	0.13	1.2	0.088	2.93	29.6	22.8	0.39	475	2.47	1.69	8.0	3.0
K295748		22.3	4.73	16.80	0.13	1.0	0.164	3.59	32.5	8.4	0.25	171	2.53	0.16	6.9	1.5
K295749		69.6	3.50	16.45	0.13	1.0	0.155	3.53	31.9	17.9	0.28	118	4.49	0.07	6.5	1.6
K295750		57.8	4.75	16.80	0.13	1.0	0.144	3.37	25.2	47.7	0.25	201	1.53	0.09	7.0	1.8
K295751		84.0	4.25	17.25	0.13	1.2	0.204	3.38	33.9	33.4	0.27	229	1.20	0.25	7.4	2.0
K295752		84.4	4.69	17.50	0.14	1.1	0.183	3.26	32.7	41.8	0.25	188	1.25	0.23	6.9	1.8
K295753		98.3	4.38	17.85	0.12	1.1	0.170	3.46	25.8	12.2	0.34	305	1.17	0.53	6.5	2.4
K295754		102.5	5.20	15.80	0.14	1.1	0.142	3.12	26.1	11.4	0.38	342	1.36	0.93	6.6	2.5
K295755		134.0	3.27	17.95	0.12	1.1	0.129	2.65	30.8	12.6	0.73	554	0.94	2.21	7.5	2.9
K295756		220	3.62	15.85	0.13	1.1	0.147	3.06	27.8	18.0	0.41	382	1.86	1.14	6.5	3.2
K295757		387	4.50	17.55	0.15	1.3	0.246	3.49	36.1	17.8	0.35	469	16.50	0.28	6.4	3.6
K295758		117.0	5.41	14.80	0.14	1.2	0.206	3.59	30.9	6.8	0.29	73	2.51	0.06	6.0	1.1
K295759		118.0	5.42	14.65	0.14	1.1	0.207	3.52	30.9	7.0	0.30	71	2.88	0.06	6.2	1.2
K295760		209	7.93	14.60	0.19	1.2	0.201	3.36	27.5	7.5	0.29	109	1.99	0.06	5.7	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254152

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295721		570	15.1	107.0	<0.002	0.06	1.37	10.2	<1	2.6	377	0.60	<0.05	14.75	0.249	0.96
K295722		600	41.5	163.0	<0.002	2.40	8.17	11.4	1	8.6	71.4	0.64	0.12	16.25	0.246	1.94
K295723		680	16.2	110.0	<0.002	0.05	7.98	11.9	<1	4.0	104.0	0.58	<0.05	15.70	0.301	1.14
K295724		570	16.7	103.0	0.002	0.52	17.40	10.9	1	3.3	85.5	0.51	0.17	13.25	0.248	1.41
K295725		580	20.9	104.0	<0.002	0.44	13.20	10.9	1	2.9	121.0	0.64	0.12	13.85	0.254	1.39
K295726		560	83.8	127.0	<0.002	0.91	10.45	11.3	1	2.1	66.0	0.61	0.11	14.60	0.255	1.84
K295727		80	<0.5	0.8	<0.002	<0.01	0.11	0.2	2	<0.2	77.7	<0.05	<0.05	0.13	0.006	<0.02
K295728		600	12.3	119.0	<0.002	0.35	9.08	10.9	1	2.4	75.7	0.65	0.09	16.00	0.260	1.46
K295729		580	477	122.0	<0.002	0.53	5.85	10.1	1	3.3	218	0.61	0.07	15.75	0.251	1.61
K295730		570	205	169.5	<0.002	1.46	19.25	10.1	1	4.7	89.7	0.57	0.37	14.95	0.214	2.32
K295731		550	70.2	196.0	<0.002	2.86	34.2	10.3	1	7.5	60.5	0.43	0.84	15.15	0.192	2.56
K295732		620	31.0	170.5	<0.002	1.51	23.4	10.6	1	5.5	90.2	0.49	0.68	17.80	0.221	2.32
K295733		460	>10000	29.9	0.012	2.39	466	12.4	2	2.0	195.0	0.21	1.23	2.00	0.248	0.50
K295734		450	72.3	201	<0.002	9.63	21.5	8.9	2	12.8	16.6	0.36	2.20	12.70	0.123	2.01
K295735		570	58.3	241	<0.002	3.47	3.14	10.1	1	13.4	26.6	0.41	1.25	15.70	0.172	2.50
K295736		520	117.5	201	<0.002	7.08	19.85	8.5	1	15.5	17.0	0.29	4.78	13.65	0.119	2.07
K295737		540	81.9	178.0	<0.002	1.85	16.05	10.1	1	5.6	86.8	0.53	0.76	16.10	0.202	2.31
K295738		510	91.4	113.5	<0.002	0.92	7.48	9.1	1	3.5	210	0.73	1.22	17.85	0.208	1.41
K295739		530	19.4	107.0	<0.002	0.39	6.10	9.4	1	2.8	307	0.62	0.66	19.55	0.231	1.24
K295740		660	92.7	136.5	<0.002	0.36	9.45	11.4	2	4.0	186.0	0.62	1.00	17.00	0.250	1.87
K295741		630	33.5	104.5	<0.002	0.08	1.59	11.4	1	2.1	353	0.62	0.16	14.35	0.266	1.32
K295742		640	112.5	118.5	<0.002	0.09	2.09	11.7	1	3.6	284	0.65	0.25	15.70	0.265	1.57
K295743		640	67.3	138.5	<0.002	0.30	2.78	12.5	2	7.8	130.0	0.58	0.24	14.95	0.252	1.98
K295744		680	64.7	126.0	<0.002	0.07	2.80	13.0	2	6.6	227	0.68	0.14	15.60	0.264	1.69
K295745		640	97.1	165.0	<0.002	0.12	3.01	13.7	3	10.9	112.0	0.63	0.54	14.90	0.240	2.29
K295746		470	>10000	30.1	0.009	2.40	460	12.8	3	1.8	196.5	0.20	1.21	2.02	0.241	0.49
K295747		650	34.0	123.0	<0.002	0.29	2.02	11.7	1	2.4	256	0.67	0.09	18.35	0.252	1.53
K295748		470	51.4	158.5	<0.002	0.94	3.89	10.5	3	4.2	52.0	0.58	0.46	13.75	0.231	2.32
K295749		420	97.6	150.0	<0.002	0.62	7.19	10.3	3	6.3	53.8	0.52	0.54	12.00	0.215	2.06
K295750		510	41.2	141.5	<0.002	2.46	3.02	11.2	4	5.5	50.5	0.57	0.27	12.80	0.247	2.00
K295751		800	33.2	143.0	<0.002	1.20	4.93	11.0	2	5.8	90.7	0.59	0.23	15.35	0.242	1.86
K295752		710	40.2	143.0	<0.002	1.40	4.82	10.0	3	6.8	94.9	0.55	0.28	16.15	0.232	2.02
K295753		710	38.5	165.5	<0.002	2.30	3.68	11.7	3	5.1	109.0	0.56	0.28	15.75	0.213	2.23
K295754		840	35.6	128.0	<0.002	2.98	1.72	12.6	3	5.8	151.0	0.55	0.21	16.15	0.217	1.61
K295755		610	33.7	108.5	<0.002	0.89	2.01	11.4	2	2.7	321	0.61	0.24	15.35	0.239	1.40
K295756		660	71.2	128.0	<0.002	1.84	2.86	10.8	2	5.1	146.5	0.54	0.31	13.75	0.214	1.71
K295757		640	51.3	174.0	<0.002	1.79	3.84	12.3	2	6.8	85.8	0.57	0.43	18.05	0.199	2.63
K295758		480	360	146.0	<0.002	3.74	2.69	12.4	3	10.7	101.0	0.52	0.55	13.10	0.199	1.81
K295759		470	373	146.0	<0.002	3.78	2.63	12.5	4	11.0	102.0	0.51	0.60	12.65	0.206	1.85
K295760		730	171.5	144.0	<0.002	6.23	4.54	13.8	4	15.3	72.7	0.44	0.63	12.75	0.186	1.87

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254152

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295721		3.6	67	1.0	16.2	39	28.2	<0.005
K295722		5.1	69	4.3	17.0	77	26.8	0.296
K295723		2.1	83	14.4	16.0	38	31.5	<0.005
K295724		6.7	71	2.8	15.3	52	26.6	0.008
K295725		4.1	71	3.4	15.6	61	32.2	0.006
K295726		5.5	70	2.5	13.6	202	30.7	0.007
K295727		0.1	1	<0.1	2.3	4	1.9	<0.005
K295728		2.9	72	3.5	15.8	39	31.9	0.005
K295729		3.7	67	2.4	14.8	396	34.1	0.013
K295730		4.7	66	2.8	14.0	334	29.5	0.034
K295731		6.0	66	2.7	12.4	219	30.2	0.154
K295732		3.8	71	2.1	14.8	77	33.2	0.081
K295733		1.3	82	0.3	14.4	5300	51.4	0.283
K295734		3.6	56	3.4	8.4	102	26.8	1.755
K295735		3.1	63	5.4	7.4	152	29.3	0.203
K295736		3.2	56	4.8	5.6	116	25.4	2.23
K295737		4.2	64	3.3	11.6	214	32.9	0.051
K295738		6.4	58	1.6	14.8	248	36.0	0.138
K295739		4.1	63	1.1	15.2	34	33.8	0.126
K295740		3.9	74	7.8	13.5	207	30.2	0.026
K295741		2.5	72	1.7	18.5	141	28.6	0.008
K295742		2.8	74	3.2	19.3	190	30.2	0.013
K295743		5.0	78	13.4	17.2	237	29.6	0.010
K295744		2.6	78	6.4	19.6	171	31.5	0.013
K295745		3.2	76	11.2	15.3	245	33.1	0.014
K295746		1.3	81	0.8	14.5	5210	52.9	0.284
K295747		3.6	71	3.4	14.5	130	32.4	<0.005
K295748		2.3	64	10.8	7.5	169	29.6	<0.005
K295749		2.5	68	17.9	8.3	200	29.7	0.022
K295750		2.6	75	10.3	10.4	147	29.3	0.023
K295751		3.2	77	8.9	11.0	145	31.1	0.016
K295752		3.2	72	9.9	9.0	136	33.2	0.019
K295753		3.2	69	8.1	11.2	137	30.3	0.022
K295754		3.3	67	11.7	15.0	121	31.3	0.018
K295755		2.7	69	2.6	17.8	161	31.4	0.012
K295756		4.8	69	11.1	18.1	257	30.9	0.012
K295757		8.4	73	8.9	18.0	299	36.0	0.051
K295758		4.5	70	26.2	11.4	115	30.5	0.089
K295759		4.3	70	26.3	11.2	112	30.4	0.068
K295760		12.4	71	23.5	14.6	220	35.6	0.065

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254152

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254158

Project: Klaza

P.O. No.: 19-091

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254158

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295761		4.13			0.80	7.83	60.0	780	2.00	1.81	1.32	5.47	53.9	10.7	12	15.70
K295762		2.16			0.46	7.71	23.7	1920	1.80	0.94	2.22	4.49	51.1	8.0	9	21.2
K295763		5.35			0.34	6.95	17.3	2070	1.80	1.02	2.70	1.43	37.9	7.6	10	13.55
K295764		5.42			0.19	7.68	5.7	2230	1.84	0.72	2.80	0.49	44.4	8.0	13	11.00
K295765		5.46			0.21	7.91	17.8	2610	1.79	4.18	2.30	0.93	47.9	9.8	10	11.50
K295766		<0.02			0.27	7.85	18.9	2610	1.91	3.66	2.32	1.02	49.9	10.8	12	12.30
K295767		4.82			0.30	8.08	19.7	1970	1.79	2.13	2.09	2.30	49.7	9.2	9	15.55
K295768		4.34			0.22	8.14	9.0	2580	1.92	1.06	2.38	1.19	49.0	8.1	10	9.92
K295769		2.00			0.44	7.60	10.0	270	1.70	2.06	1.98	0.81	46.8	8.3	8	12.60
K295770		4.19			0.18	7.63	10.2	2920	1.84	1.23	2.63	0.42	47.3	8.0	10	11.75
K295771		3.73			0.41	8.04	20.8	1760	1.95	2.17	1.92	1.48	50.9	9.6	9	15.00
K295772		1.87			2.57	6.36	97.3	490	1.46	23.7	0.47	1.09	30.0	9.3	9	9.55
K295773		5.07			0.01	0.12	0.3	30	0.11	0.03	33.8	0.02	1.11	1.3	1	0.08
K295774		3.02			0.99	7.66	35.3	610	1.64	7.70	1.54	2.21	53.7	9.9	8	17.75
K295775		3.53			0.31	7.23	11.1	2360	1.57	0.62	2.96	0.60	39.5	7.3	11	14.15
K295776		5.00			0.59	7.50	20.0	1840	1.73	1.02	2.50	1.27	46.7	7.4	12	11.50
K295777		3.47			0.45	7.97	10.6	2450	1.79	0.93	2.35	2.96	50.2	9.3	11	14.75
K295778		3.31			1.17	7.25	21.1	370	1.59	3.52	2.29	6.00	49.2	6.4	8	15.10
K295779		3.62			1.37	7.37	12.7	290	1.49	4.98	1.57	4.14	46.7	7.8	10	11.60
K295780		1.38			0.67	7.18	11.6	930	1.25	2.83	2.44	1.74	48.2	8.7	10	14.85
K295781		1.91			0.72	6.81	11.0	290	1.16	3.01	2.09	1.43	40.8	7.9	9	12.95
K295782		3.94			0.43	6.86	10.2	180	1.20	2.61	1.98	0.68	49.3	7.2	9	14.95
K295783		3.77			0.65	6.33	10.5	200	1.01	4.26	1.51	0.45	39.2	8.1	10	9.83
K295784		3.57			0.43	6.24	8.0	240	1.00	3.26	1.46	0.57	37.9	7.0	10	7.85
K295785		5.17			0.21	7.40	6.2	2340	1.55	1.05	2.81	0.32	52.8	7.9	14	11.55
K295786		5.29			0.16	6.91	17.8	2020	1.58	0.79	2.71	0.74	52.6	8.2	11	17.70
K295787		5.02			0.43	7.06	40.2	1980	1.64	0.83	2.46	1.51	52.2	7.2	10	18.30
K295788		6.22			0.31	6.87	26.4	1740	1.50	0.63	2.37	1.02	39.2	7.3	10	16.65
K295789		0.26	100	1.040	>100	5.39	253	590	0.72	4.99	1.44	24.1	20.5	12.5	64	0.90
K295790		6.30			0.58	7.35	16.9	2180	1.60	2.29	2.38	1.31	49.6	6.7	15	12.00
K295791		3.58			1.28	7.44	41.0	1320	1.55	4.62	1.54	3.12	53.3	8.1	9	17.70
K295792		2.08			4.36	6.47	117.0	180	1.36	12.75	0.30	8.95	45.4	9.6	8	10.75
K295793		5.79			1.25	7.18	67.7	1500	1.46	3.51	1.72	5.30	49.0	8.9	8	20.2
K295794		6.92			1.08	6.86	47.8	1260	1.32	1.90	1.54	8.27	47.9	9.2	7	18.40
K295795		4.20			1.60	7.37	62.9	570	1.58	2.53	1.82	10.05	57.7	9.0	8	21.2
K295796		0.26	101	1.030	>100	5.49	261	600	0.72	5.42	1.48	26.4	22.5	13.9	64	1.01
K295797		4.55			0.81	7.43	43.4	1150	1.57	1.59	2.07	5.20	109.5	11.1	9	18.75
K295798		4.78			0.86	6.53	48.4	1790	1.49	0.98	2.44	1.49	40.9	7.6	7	17.40
K295799		5.05			0.77	6.83	55.4	970	1.46	1.71	2.22	2.18	45.1	27.2	8	16.05
K295800		4.89			1.33	6.77	51.2	1660	1.53	7.17	2.41	1.69	43.3	8.0	10	16.00

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254158

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295761		109.0	4.61	17.50	0.12	1.8	0.122	3.52	27.8	11.4	0.70	566	1.81	0.12	6.6	4.2
K295762		44.8	3.80	16.95	0.11	1.1	0.105	2.96	26.9	23.3	0.65	984	1.10	0.84	7.3	2.9
K295763		59.8	3.04	17.20	0.11	1.0	0.100	2.72	19.2	9.9	0.65	517	1.14	1.52	7.0	2.7
K295764		65.8	3.13	17.75	0.11	1.0	0.077	2.69	23.0	11.7	0.80	484	1.43	2.26	7.6	2.8
K295765		66.2	3.10	17.80	0.12	1.0	0.127	2.85	26.1	13.3	0.78	364	1.24	2.32	7.6	2.7
K295766		69.6	3.20	18.45	0.13	1.1	0.152	2.83	26.5	14.5	0.78	366	1.38	2.31	7.9	3.0
K295767		138.5	3.24	17.80	0.11	1.0	0.086	2.77	27.0	23.7	0.71	443	1.43	1.47	7.2	3.1
K295768		80.1	3.29	18.10	0.14	1.1	0.092	2.77	25.1	14.5	0.76	511	1.69	2.19	8.1	3.1
K295769		45.1	4.97	15.90	0.14	1.0	0.068	2.72	24.5	11.6	0.58	497	1.28	1.06	6.7	2.6
K295770		39.4	3.30	17.80	0.13	1.0	0.065	2.49	24.9	11.4	0.78	538	2.01	1.94	7.9	2.7
K295771		126.5	3.69	17.65	0.13	0.9	0.100	2.75	28.7	13.1	0.60	651	1.30	1.51	7.0	2.9
K295772		234	10.05	15.55	0.15	0.7	0.123	2.81	14.6	9.5	0.34	216	1.79	0.07	3.9	2.5
K295773		2.9	0.14	0.35	<0.05	0.1	<0.005	0.03	1.2	1.3	1.76	125	0.06	0.04	0.1	0.4
K295774		150.0	5.38	17.05	0.13	1.0	0.156	2.87	28.3	14.3	0.57	581	3.15	0.32	6.9	2.8
K295775		49.3	2.96	16.45	0.10	0.9	0.067	2.74	20.2	16.5	0.72	674	1.01	1.77	7.2	2.4
K295776		134.0	3.54	16.65	0.11	1.0	0.085	2.75	24.9	11.4	0.73	570	1.34	1.69	7.3	2.6
K295777		103.5	3.45	18.20	0.12	1.1	0.099	2.83	26.5	18.5	0.67	785	1.62	1.44	7.8	3.0
K295778		108.5	4.00	16.50	0.13	0.9	0.166	3.00	26.6	21.8	0.91	638	2.08	0.63	6.3	2.8
K295779		38.8	6.37	15.10	0.13	1.0	0.098	3.12	24.1	10.6	0.62	452	2.75	0.36	5.9	2.9
K295780		35.4	3.65	16.10	0.08	1.0	0.075	2.71	24.1	11.0	0.73	541	1.22	1.21	7.4	2.7
K295781		44.6	4.35	13.90	0.07	0.9	0.057	2.72	20.9	13.8	0.59	475	2.29	0.90	6.0	2.6
K295782		38.6	5.39	13.80	0.07	1.0	0.057	2.72	24.7	15.4	0.63	442	1.80	0.85	6.6	2.3
K295783		27.1	8.50	11.55	0.10	0.8	0.035	2.65	19.3	7.8	0.47	339	2.18	0.46	5.0	2.3
K295784		18.0	7.43	10.25	0.08	0.8	0.028	2.72	19.5	6.7	0.41	296	3.54	0.28	4.9	2.4
K295785		40.6	3.22	16.90	0.08	1.1	0.094	2.66	27.2	11.1	0.80	538	1.92	2.21	7.9	2.6
K295786		49.2	3.13	16.50	0.08	1.0	0.073	2.45	26.8	21.0	0.69	589	2.09	1.59	7.9	2.8
K295787		128.0	2.94	16.65	0.10	1.0	0.114	2.62	26.7	21.9	0.69	537	3.07	1.73	7.8	2.4
K295788		58.0	2.98	16.15	0.07	1.0	0.097	2.61	19.3	31.3	0.67	602	2.61	1.02	7.5	2.3
K295789		5980	5.62	12.10	0.06	1.3	0.425	1.11	8.5	13.0	1.11	1660	22.7	1.60	3.1	27.9
K295790		129.0	3.14	16.90	0.08	1.0	0.117	2.77	25.4	10.6	0.71	546	3.88	1.89	7.4	3.2
K295791		119.5	4.07	16.05	0.08	1.0	0.242	3.16	28.3	12.8	0.67	883	3.40	0.48	6.8	2.4
K295792		316	6.71	13.60	0.09	0.8	0.277	3.03	21.7	12.0	0.36	258	3.08	0.06	4.2	2.4
K295793		177.5	3.75	15.80	0.08	1.0	0.154	2.72	25.4	35.3	0.61	982	3.19	0.06	7.0	2.7
K295794		114.5	3.27	13.80	0.07	0.9	0.143	2.87	25.1	19.1	0.73	639	6.18	0.05	5.2	2.2
K295795		215	4.16	15.85	0.08	1.0	0.209	3.01	30.8	22.4	0.72	966	3.53	0.05	6.5	2.8
K295796		6140	5.72	13.05	0.06	1.5	0.495	1.14	9.3	14.4	1.13	1720	24.4	1.63	3.5	31.3
K295797		157.5	3.08	17.70	0.12	1.1	0.153	2.93	64.5	40.2	0.72	579	2.99	0.08	6.5	3.3
K295798		58.1	3.26	15.85	0.08	1.0	0.101	2.65	21.0	19.3	0.76	597	2.54	0.71	7.1	2.1
K295799		204	3.43	16.40	0.09	1.1	0.096	2.68	22.7	23.6	0.64	603	2.37	0.83	7.5	2.4
K295800		287	3.31	15.85	0.07	1.1	0.111	2.73	21.3	14.4	0.72	567	1.64	1.43	7.0	2.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254158

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295761		740	60.4	163.5	<0.002	2.96	5.84	10.2	2	7.3	112.0	0.50	0.30	11.30	0.215	2.30
K295762		640	88.5	122.0	<0.002	1.36	2.38	11.4	1	2.6	182.0	0.62	0.12	14.05	0.247	1.88
K295763		600	60.8	97.6	<0.002	1.05	1.68	10.6	1	2.7	284	0.56	0.16	10.60	0.234	1.64
K295764		640	25.1	90.3	<0.002	0.39	1.07	11.3	2	1.9	379	0.59	0.14	12.20	0.261	1.20
K295765		640	25.4	109.5	<0.002	0.86	2.07	11.4	2	2.8	382	0.60	2.29	14.10	0.250	1.43
K295766		640	28.4	111.0	<0.002	0.91	2.22	11.8	1	3.0	383	0.62	2.07	14.35	0.256	1.38
K295767		620	30.6	111.5	<0.002	1.28	4.77	11.5	2	4.0	258	0.57	0.82	14.70	0.247	1.49
K295768		670	27.2	95.0	<0.002	0.37	2.59	12.1	2	2.4	364	0.67	0.17	13.85	0.276	1.22
K295769		590	43.6	119.5	<0.002	3.93	2.64	11.3	3	4.2	201	0.54	0.34	13.75	0.220	1.34
K295770		640	23.1	92.5	<0.002	1.05	2.23	12.1	2	2.7	379	0.60	0.33	12.70	0.266	1.23
K295771		670	39.1	114.5	<0.002	1.16	6.96	11.2	1	3.8	256	0.57	0.28	14.60	0.245	1.45
K295772		470	82.4	138.5	<0.002	>10.0	16.60	9.5	5	26.9	50.1	0.32	3.78	8.21	0.144	1.50
K295773		70	0.8	1.0	<0.002	0.01	0.08	0.2	4	<0.2	80.0	<0.05	<0.05	0.13	0.005	<0.02
K295774		600	39.0	129.5	<0.002	3.68	10.05	11.1	3	10.4	95.0	0.55	1.34	13.60	0.228	1.55
K295775		580	29.2	85.0	<0.002	0.26	5.93	10.1	1	2.0	332	0.56	0.09	11.00	0.245	1.08
K295776		600	64.2	107.0	<0.002	1.39	1.30	11.0	2	4.0	303	0.61	0.11	13.40	0.238	1.19
K295777		630	58.0	102.0	<0.002	0.69	1.69	11.6	2	2.9	276	0.61	0.08	14.30	0.257	1.24
K295778		560	209	153.5	<0.002	2.95	4.85	10.3	2	5.1	166.5	0.50	0.39	13.45	0.205	1.89
K295779		580	269	142.5	<0.002	6.03	1.01	11.1	3	6.9	97.0	0.47	0.47	12.55	0.196	1.54
K295780		610	69.0	114.5	<0.002	2.14	1.07	10.5	1	4.4	230	0.54	0.22	12.80	0.237	1.57
K295781		520	94.8	108.5	<0.002	3.43	0.95	9.0	2	4.5	179.5	0.48	0.29	12.15	0.198	1.36
K295782		530	30.0	111.5	<0.002	4.55	1.00	10.1	3	4.6	172.0	0.54	0.32	12.90	0.202	1.35
K295783		470	42.9	108.0	<0.002	8.63	0.87	8.5	4	5.2	102.5	0.42	0.38	11.15	0.171	1.19
K295784		440	27.3	109.0	<0.002	7.67	0.72	8.7	5	5.5	76.8	0.40	0.25	10.45	0.161	1.23
K295785		650	20.9	95.6	<0.002	0.39	0.82	11.6	1	2.4	377	0.63	0.12	14.60	0.267	1.15
K295786		610	20.2	95.3	<0.002	0.33	7.98	12.0	1	2.3	294	0.62	0.09	14.30	0.258	1.23
K295787		590	23.8	102.5	<0.002	0.48	10.25	11.5	1	2.5	284	0.61	0.19	13.85	0.245	1.38
K295788		570	35.7	90.6	<0.002	0.60	13.60	9.8	1	2.3	209	0.68	0.10	12.25	0.236	1.34
K295789		460	10000	32.1	0.012	2.33	454	12.2	3	1.8	188.0	0.20	1.10	1.94	0.233	0.48
K295790		590	47.4	108.0	0.002	1.02	5.24	10.9	1	3.2	314	0.61	0.32	14.10	0.241	1.49
K295791		590	50.5	140.0	<0.002	1.83	8.79	10.9	1	5.4	123.5	0.55	0.65	14.70	0.221	2.16
K295792		460	254	146.5	0.002	6.04	51.9	9.7	4	11.1	48.6	0.33	1.97	12.35	0.140	1.92
K295793		570	56.1	101.0	<0.002	1.52	31.8	10.4	1	3.5	92.5	0.56	0.39	14.75	0.231	2.00
K295794		520	250	139.5	<0.002	2.40	12.60	10.1	1	5.2	68.5	0.42	0.31	11.90	0.174	2.50
K295795		570	205	137.5	<0.002	2.64	25.0	11.1	2	4.0	71.7	0.53	0.36	14.45	0.213	2.28
K295796		460	>10000	35.9	0.011	2.38	458	13.6	2	2.0	195.0	0.21	1.32	2.07	0.240	0.52
K295797		620	69.1	123.5	<0.002	1.73	24.8	11.6	2	4.0	108.0	0.54	0.35	15.55	0.215	2.29
K295798		540	67.5	96.7	<0.002	1.44	10.70	9.9	1	3.3	180.0	0.59	0.09	11.75	0.223	1.68
K295799		560	62.7	103.5	<0.002	1.64	43.4	10.4	1	3.3	205	0.59	0.37	12.20	0.229	1.70
K295800		560	77.0	100.5	<0.002	1.52	3.92	10.3	1	3.6	284	0.58	0.35	12.60	0.228	1.69

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254158

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295761		5.6	69	10.4	15.2	184	66.6	0.037
K295762		3.6	71	6.5	17.2	367	29.8	0.008
K295763		2.0	70	2.8	14.1	141	29.9	0.015
K295764		2.3	73	2.3	15.6	73	26.9	0.007
K295765		2.8	73	1.9	15.3	95	28.2	0.025
K295766		2.8	73	2.0	15.9	103	29.6	0.025
K295767		3.5	71	4.4	16.8	163	28.0	0.022
K295768		3.1	76	1.8	16.8	130	29.1	0.014
K295769		4.6	69	10.7	16.8	87	28.5	0.013
K295770		3.1	76	3.5	15.6	84	27.9	0.006
K295771		4.1	72	5.3	16.7	161	33.4	0.035
K295772		4.4	59	13.3	11.8	79	20.3	0.601
K295773		0.2	1	0.1	2.1	4	1.7	<0.005
K295774		4.4	67	11.3	18.2	175	30.1	0.432
K295775		2.5	69	2.2	15.0	102	27.1	0.012
K295776		2.9	68	6.9	15.2	136	29.5	0.021
K295777		3.4	71	4.8	17.9	225	30.7	<0.005
K295778		4.2	64	11.2	14.7	467	25.6	0.025
K295779		3.6	68	26.6	13.7	299	27.0	0.026
K295780		3.7	69	9.3	14.2	163	26.4	0.020
K295781		3.1	60	13.3	12.7	130	24.2	0.022
K295782		3.6	62	15.2	13.1	79	25.7	0.045
K295783		2.9	55	15.5	11.6	51	23.0	0.085
K295784		2.9	58	22.6	11.1	46	23.4	0.016
K295785		3.6	74	1.8	17.7	68	28.2	0.051
K295786		4.0	72	1.9	17.9	103	28.1	0.009
K295787		3.8	68	2.2	15.3	113	26.1	0.020
K295788		3.5	66	3.2	14.1	119	28.3	0.026
K295789		1.3	79	0.5	14.4	5050	46.1	0.290
K295790		3.4	69	4.2	14.4	140	27.6	0.026
K295791		4.4	67	8.1	14.9	273	24.9	0.029
K295792		5.4	58	17.8	12.8	450	21.7	0.168
K295793		5.1	67	6.8	14.2	329	24.5	0.097
K295794		4.3	60	9.6	12.9	323	24.0	0.057
K295795		5.6	67	9.5	17.4	772	27.1	0.035
K295796		1.4	81	0.5	16.2	5200	53.3	0.271
K295797		4.7	72	4.4	16.1	280	29.5	0.033
K295798		3.7	63	5.6	13.9	215	28.3	0.047
K295799		3.8	65	4.1	13.9	227	27.9	0.086
K295800		3.1	65	7.3	13.3	187	28.3	0.039

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254158

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254169

Project: Klaza

P.O. No.: 19-093

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254169

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K295801		5.46		2.13	6.83	142.5	1510	1.42	5.23	2.24	2.20	46.7	7.4	8	17.25	437
K295802		2.14		3.78	7.30	181.5	880	1.65	5.15	1.47	3.77	51.7	5.9	9	15.75	263
K295803		3.78		3.04	6.83	201	990	1.37	3.34	1.15	2.26	47.5	6.6	11	15.70	215
K295804		2.38		4.15	6.70	65.6	630	1.70	0.28	1.99	7.18	46.1	4.6	7	29.3	17.1
K295805		3.81		4.67	6.94	52.6	700	1.79	0.24	2.48	7.73	47.4	4.7	6	29.4	12.7
K295806		4.65		5.19	6.51	84.2	770	1.72	5.96	2.05	6.83	50.4	4.4	5	34.4	95.0
K295807		4.92		0.03	0.10	1.2	30	0.06	0.02	32.1	0.04	1.19	0.8	1	0.17	1.9
K295808		5.07		0.77	7.40	46.0	1280	1.42	1.58	1.75	1.19	51.1	6.5	8	19.90	38.8
K295809		5.33		2.03	7.59	86.6	1740	1.30	5.31	1.55	3.01	71.3	11.1	8	15.40	159.5
K295810		5.25		1.18	7.09	45.7	1550	1.09	3.75	1.64	1.38	49.5	8.2	8	19.15	89.5
K295811		4.20		0.26	7.16	27.7	820	0.99	1.37	1.36	1.18	49.5	7.5	9	15.40	35.8
K295812		4.57		0.24	7.74	24.1	2320	1.11	0.68	0.85	0.47	55.6	8.1	9	21.2	61.8
K295813		<0.02		0.29	7.82	21.6	2240	1.08	0.83	0.89	0.37	56.0	7.7	10	21.1	57.9
K295814		5.48		0.29	7.34	7.4	2070	1.62	1.10	1.97	0.94	42.4	8.5	9	18.45	51.8
K295815		4.16		0.17	6.04	14.7	2490	1.15	0.74	3.68	0.23	44.4	6.8	9	25.8	23.9
K295816		3.83		0.62	7.37	63.8	1190	1.34	2.55	1.19	0.95	54.5	8.4	9	20.3	125.5
K295817		5.31		0.43	7.02	23.0	1970	1.48	1.75	1.96	0.47	44.0	9.3	9	14.00	40.8
K295818		5.86		0.14	6.57	9.6	2210	1.37	0.84	2.58	0.14	35.1	7.3	10	23.8	12.4
K295819		0.26	101	100.0	5.40	253	600	0.68	4.84	1.41	25.0	19.60	12.5	62	0.92	5980
K295820		6.14		0.29	6.74	16.5	2260	1.38	1.49	2.34	0.22	42.7	9.4	9	27.0	51.7
K295821		5.43		0.19	7.23	15.7	1920	1.29	0.98	1.81	0.26	48.5	6.9	10	29.8	28.1
K295822		6.42		0.08	7.34	8.6	2320	1.56	0.49	2.70	0.19	43.6	8.4	12	13.65	8.2
K295823		5.50		0.26	7.45	14.1	2100	1.67	2.90	2.53	0.51	46.2	8.3	11	10.75	43.1
K295824		4.85		0.20	7.26	17.2	1830	1.52	1.09	2.59	0.34	41.1	7.8	12	14.55	22.6
K295825		2.99		0.20	7.08	9.5	1960	1.63	1.14	2.65	0.16	40.4	6.6	11	13.20	17.4
K295826		6.30		0.35	7.00	21.1	1930	1.46	2.15	2.36	0.47	41.6	7.6	10	17.80	45.4
K295827		0.26		98.4	5.33	235	590	0.64	4.92	1.39	24.8	19.65	12.3	62	0.91	5870
K295828		5.75		0.51	7.46	16.0	2190	1.56	2.17	2.71	0.54	46.2	8.7	13	8.75	79.0
K295829		5.04		0.54	7.47	17.9	2250	1.64	1.49	2.60	1.10	47.6	8.2	12	10.25	41.6
K295830		5.42		0.27	7.64	14.1	2190	1.48	0.50	2.65	1.04	53.5	8.8	12	6.99	17.9
K295831		4.16		0.46	7.37	16.0	2160	1.57	0.90	2.59	0.60	46.4	9.5	12	7.32	20.8
K295832		1.39		1.96	7.99	66.4	2310	1.39	2.98	1.57	15.85	48.9	7.4	11	10.80	52.3
K295833		4.48		0.26	7.38	27.4	2800	1.40	1.06	2.26	0.29	41.0	9.7	14	6.82	36.6
K295834		2.37		0.15	7.80	10.9	2320	1.36	0.42	2.85	0.24	56.8	8.0	12	4.37	9.6
K295835		2.00		0.10	7.98	10.5	2310	1.56	0.39	2.84	0.19	52.0	8.3	11	4.07	9.6
K295836		4.90		0.16	7.74	21.0	2220	1.70	0.40	2.66	0.66	53.5	8.5	15	6.91	21.4
K295837		5.09		0.30	7.85	23.4	2270	1.59	0.54	2.72	2.96	49.9	7.7	11	5.56	14.8
K295838		4.88		0.29	7.67	9.0	2320	1.62	0.71	2.76	0.91	44.7	7.8	13	7.49	18.4
K295839		2.51		0.56	7.34	16.0	1750	1.32	1.92	1.92	3.81	43.3	7.2	10	17.45	35.0
K295840		3.16		7.47	6.95	226	570	1.24	29.1	1.17	2.51	43.4	9.2	9	10.60	550

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254169

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K295801		3.41	16.35	0.11	1.0	0.145	2.91	24.2	19.5	0.77	641	1.38	0.68	6.5	2.4	550
K295802		4.56	17.35	0.12	1.0	0.305	3.48	28.1	8.0	0.77	1050	1.23	0.04	5.2	2.2	570
K295803		3.96	15.65	0.11	1.9	0.212	3.11	24.5	14.8	0.50	1440	3.25	0.05	6.4	3.9	700
K295804		2.35	16.80	0.12	2.2	0.044	2.66	22.3	23.5	0.63	1520	2.70	0.06	9.0	2.3	840
K295805		2.67	17.90	0.14	2.2	0.040	2.84	22.2	19.7	0.75	1620	2.94	0.06	9.3	2.2	870
K295806		2.63	16.35	0.12	1.9	0.131	2.36	25.6	34.7	0.67	1240	1.89	0.06	8.3	1.8	730
K295807		0.12	0.32	0.09	<0.1	<0.005	0.02	1.3	1.0	1.65	119	0.09	0.03	0.2	0.9	70
K295808		3.22	15.35	0.12	0.9	0.161	2.58	27.6	24.8	0.65	781	1.77	0.16	7.4	2.0	570
K295809		2.74	16.20	0.15	0.9	0.269	3.23	39.5	23.6	0.65	669	82.5	0.07	6.5	2.5	600
K295810		2.50	15.45	0.15	1.0	0.130	2.97	27.5	29.8	0.60	734	12.30	0.08	6.9	2.1	560
K295811		2.81	15.05	0.13	1.1	0.098	1.56	25.8	64.6	0.47	802	168.0	0.05	8.2	2.3	670
K295812		2.87	16.65	0.15	1.1	0.064	2.67	29.5	37.1	0.39	624	3.11	0.10	8.9	2.3	670
K295813		2.92	16.90	0.14	1.1	0.062	2.66	30.0	39.5	0.39	620	2.66	0.10	9.0	2.6	660
K295814		3.10	16.80	0.13	1.0	0.086	2.73	22.3	23.0	0.72	356	11.20	1.30	8.5	2.9	610
K295815		2.23	15.60	0.14	0.9	0.062	2.35	22.0	38.9	0.47	706	20.3	0.13	8.3	2.4	600
K295816		4.19	16.90	0.14	0.9	0.131	2.78	30.2	36.1	0.64	626	4.19	0.07	7.3	2.5	590
K295817		3.78	15.95	0.12	1.0	0.112	2.78	22.7	15.3	0.56	433	1.34	1.29	7.6	2.5	570
K295818		2.71	15.25	0.13	0.9	0.073	2.64	17.3	15.7	0.54	411	1.25	1.45	7.5	2.4	560
K295819		5.59	11.75	0.09	1.4	0.428	1.12	8.8	13.1	1.09	1660	20.3	1.59	3.3	27.6	450
K295820		3.07	15.40	0.12	1.0	0.059	2.49	21.6	40.0	0.73	539	1.41	0.08	7.7	2.7	590
K295821		3.11	15.75	0.14	1.0	0.061	2.32	25.8	44.9	0.57	581	20.6	0.20	8.2	2.5	630
K295822		3.14	16.70	0.13	0.9	0.064	2.54	22.0	14.8	0.85	506	16.95	2.33	8.5	3.0	650
K295823		3.11	16.60	0.14	1.0	0.078	2.53	23.8	13.7	0.90	453	151.5	2.36	8.6	2.8	650
K295824		3.09	16.50	0.12	1.0	0.093	2.12	20.8	14.2	0.84	464	15.20	2.33	8.3	2.8	630
K295825		2.97	16.50	0.13	0.9	0.076	2.17	20.3	11.8	0.79	482	0.83	2.25	8.1	2.8	620
K295826		3.04	16.20	0.12	0.9	0.080	2.56	20.5	27.6	0.63	498	2.43	1.31	8.0	2.9	630
K295827		5.52	11.75	0.10	1.4	0.438	1.10	8.8	13.2	1.07	1620	20.5	1.58	3.3	27.2	440
K295828		3.34	17.25	0.13	1.0	0.076	2.73	22.9	10.4	0.89	539	1.78	1.99	8.4	3.1	650
K295829		3.14	16.65	0.14	1.0	0.080	2.69	24.3	11.3	0.84	510	10.30	2.14	8.5	2.8	660
K295830		3.15	15.90	0.13	1.0	0.070	2.43	28.5	11.2	0.91	543	12.45	2.24	8.0	2.7	640
K295831		2.96	16.65	0.16	1.0	0.072	2.46	23.3	10.3	0.83	563	11.50	2.30	8.4	3.0	630
K295832		2.32	17.30	0.16	1.1	0.247	3.73	26.6	7.1	0.37	444	0.95	0.47	8.0	2.8	620
K295833		3.23	15.75	0.12	1.0	0.063	2.68	21.0	12.4	0.77	519	0.69	1.99	8.0	2.7	620
K295834		3.22	18.10	0.14	1.3	0.052	2.59	29.1	8.5	0.92	558	9.17	2.38	9.0	2.9	660
K295835		3.27	17.25	0.17	1.2	0.054	2.58	27.3	9.4	0.94	555	11.70	2.35	8.6	2.7	670
K295836		3.22	17.85	0.15	1.3	0.067	2.64	27.7	11.6	0.91	546	7.76	2.28	8.7	2.9	640
K295837		3.25	17.60	0.16	1.3	0.074	2.61	26.0	11.2	0.93	558	1.38	2.31	8.3	2.6	650
K295838		3.28	17.10	0.16	1.2	0.093	2.60	22.7	12.8	0.90	552	0.70	2.26	8.2	2.8	660
K295839		3.30	16.95	0.13	1.4	0.093	2.59	21.2	38.9	0.60	717	0.85	0.59	8.3	2.6	630
K295840		7.50	16.55	0.13	1.1	0.366	3.18	21.8	12.8	0.60	583	0.86	0.06	5.3	2.6	530

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254169

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
K295801		64.8	114.5	<0.002	1.72	14.65	9.5	1	4.1	210	0.51	0.49	11.60	0.215	2.00	3.0
K295802		134.0	181.0	<0.002	3.61	28.1	10.3	2	8.4	58.3	0.42	0.30	12.85	0.182	2.91	3.3
K295803		75.5	153.5	<0.002	3.83	61.6	7.9	2	6.5	72.3	0.46	0.21	9.92	0.201	2.34	5.1
K295804		283	88.7	<0.002	0.33	18.25	5.1	1	1.2	139.5	0.61	<0.05	7.28	0.290	2.06	4.7
K295805		402	88.0	<0.002	0.27	14.95	5.3	1	1.2	123.0	0.65	<0.05	7.39	0.300	2.12	4.7
K295806		217	92.5	<0.002	0.44	31.5	5.3	1	2.3	116.0	0.58	0.05	7.98	0.260	1.81	4.9
K295807		1.9	0.8	<0.002	0.01	0.19	0.2	2	<0.2	76.3	<0.05	<0.05	0.11	0.005	0.02	0.2
K295808		89.3	119.5	0.004	0.73	13.40	9.9	1	3.0	95.2	0.60	0.13	13.15	0.240	2.07	4.2
K295809		113.0	152.5	0.009	1.14	18.70	10.8	1	4.0	73.0	0.51	0.44	14.80	0.224	2.39	3.5
K295810		69.5	119.5	0.002	0.73	20.5	10.0	1	3.9	81.7	0.57	0.74	13.65	0.224	1.94	2.9
K295811		23.6	63.6	0.009	0.35	38.7	11.0	1	2.5	184.5	0.66	0.27	12.85	0.251	0.93	3.8
K295812		21.2	118.5	<0.002	0.20	26.0	12.3	1	2.0	89.6	0.70	0.12	14.15	0.279	1.30	4.3
K295813		21.1	116.5	<0.002	0.20	24.6	12.6	1	2.1	90.9	0.67	0.18	14.40	0.280	1.26	4.4
K295814		50.0	107.5	<0.002	0.25	5.04	11.3	1	2.0	236	0.65	0.19	13.10	0.262	1.29	2.8
K295815		15.5	73.2	0.002	0.14	18.80	10.1	1	1.7	143.0	0.62	0.17	10.70	0.257	1.22	4.7
K295816		54.7	152.5	<0.002	1.92	36.5	11.2	1	5.7	68.9	0.54	0.78	13.70	0.235	2.06	4.2
K295817		33.0	120.0	<0.002	1.38	4.17	10.3	1	3.4	216	0.58	0.37	12.90	0.231	1.62	4.2
K295818		16.8	88.5	<0.002	0.42	5.96	9.9	1	1.8	275	0.56	0.09	10.25	0.237	1.26	3.3
K295819		9840	27.7	0.011	2.31	441	12.3	2	1.8	188.0	0.21	1.13	1.86	0.234	0.50	1.4
K295820		20.3	80.5	<0.002	0.41	12.45	10.4	1	2.1	105.0	0.59	0.44	11.55	0.243	1.39	2.4
K295821		15.8	88.8	0.002	0.49	14.95	11.2	1	2.4	111.0	0.63	0.10	13.40	0.256	1.28	3.1
K295822		18.8	94.5	0.002	0.08	1.53	11.7	1	2.2	404	0.59	0.08	11.20	0.276	1.29	3.1
K295823		28.3	99.4	0.015	0.51	1.59	11.5	1	2.6	379	0.65	0.36	13.05	0.270	1.39	3.6
K295824		26.3	93.1	<0.002	0.52	2.63	11.3	1	3.3	357	0.62	0.15	10.85	0.268	1.49	3.3
K295825		18.1	83.4	<0.002	0.13	2.90	11.3	1	2.4	366	0.60	0.26	10.95	0.265	1.26	3.1
K295826		32.6	106.5	<0.002	0.67	7.06	11.7	1	3.4	247	0.57	0.31	10.75	0.260	1.56	3.5
K295827		9730	28.2	0.010	2.27	435	12.2	2	1.8	187.0	0.20	1.15	1.88	0.231	0.49	1.3
K295828		43.6	108.5	<0.002	0.41	2.60	12.1	1	3.1	369	0.62	0.45	11.85	0.268	1.42	3.8
K295829		62.0	105.5	<0.002	0.41	2.23	12.0	2	3.0	379	0.67	0.20	12.40	0.273	1.37	4.3
K295830		53.6	95.0	<0.002	0.14	1.95	11.8	1	2.0	428	0.59	0.07	12.55	0.270	1.11	3.7
K295831		73.2	95.7	<0.002	0.21	2.67	11.6	1	2.1	383	0.64	0.10	11.15	0.263	1.32	3.6
K295832		469	211	<0.002	0.87	37.3	11.7	1	3.3	94.7	0.68	0.21	14.80	0.257	2.26	4.7
K295833		27.5	111.0	<0.002	0.56	4.29	11.4	1	2.9	336	0.59	0.18	12.80	0.264	1.44	3.8
K295834		27.3	91.8	<0.002	0.06	2.06	11.7	1	2.2	440	0.69	0.06	13.85	0.283	1.11	4.1
K295835		20.7	93.1	<0.002	0.08	1.87	11.6	1	2.2	440	0.66	0.06	13.95	0.283	1.04	4.0
K295836		32.7	98.6	<0.002	0.23	2.10	11.9	1	2.1	424	0.65	0.06	12.05	0.274	1.16	4.0
K295837		46.8	99.8	<0.002	0.30	1.85	11.5	1	2.1	423	0.61	0.08	13.05	0.273	1.17	4.1
K295838		43.9	95.6	<0.002	0.16	1.62	11.6	1	2.2	399	0.59	0.08	11.85	0.278	1.23	3.6
K295839		123.5	91.2	<0.002	0.30	14.75	10.9	1	3.4	156.0	0.62	0.37	12.20	0.260	1.36	4.7
K295840		107.0	172.0	<0.002	6.84	33.4	9.8	2	9.9	46.3	0.42	1.18	11.90	0.181	2.07	4.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254169

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
K295801		62	5.8	12.5	195	26.0	0.132
K295802		62	7.1	11.2	300	26.5	0.378
K295803		57	11.3	9.7	233	66.8	0.314
K295804		45	2.8	10.6	748	72.1	0.075
K295805		46	2.7	11.2	782	68.4	0.047
K295806		43	3.0	11.0	531	58.8	0.066
K295807		1	<0.1	2.2	5	1.8	<0.005
K295808		64	2.4	13.3	170	25.6	0.034
K295809		68	3.3	12.6	231	24.6	0.124
K295810		64	3.8	13.9	141	27.2	0.093
K295811		71	10.4	16.4	187	27.1	0.039
K295812		76	9.5	18.1	71	26.9	0.017
K295813		76	9.5	18.5	63	27.5	0.018
K295814		71	4.0	14.4	91	24.9	0.051
K295815		68	12.7	21.7	38	24.7	0.008
K295816		68	4.7	14.3	99	24.1	0.156
K295817		65	2.3	14.4	58	26.3	0.147
K295818		65	2.3	13.0	34	25.4	0.013
K295819		77	0.5	14.2	4960	48.5	0.306
K295820		70	2.1	14.6	48	28.0	0.059
K295821		72	3.0	16.8	46	24.9	0.016
K295822		76	0.8	16.7	44	23.0	0.009
K295823		75	1.1	17.7	60	26.2	0.073
K295824		74	1.0	15.3	58	26.8	0.028
K295825		73	0.9	15.5	45	25.1	0.016
K295826		75	3.3	15.5	65	25.5	0.041
K295827		77	0.5	14.4	4860	47.1	0.272
K295828		76	1.7	18.8	75	25.1	0.076
K295829		76	5.7	17.9	121	26.2	0.036
K295830		74	5.7	18.8	117	26.0	0.008
K295831		74	1.3	16.9	77	27.6	0.018
K295832		72	4.9	16.4	1100	30.0	0.051
K295833		74	1.6	18.0	54	27.3	0.032
K295834		78	0.9	20.9	47	35.2	0.007
K295835		79	1.0	19.2	45	33.6	<0.005
K295836		75	6.0	18.9	74	34.7	0.034
K295837		75	1.9	18.0	268	34.7	0.007
K295838		76	1.3	17.9	95	33.1	0.015
K295839		74	2.4	16.1	301	36.0	0.016
K295840		62	4.2	11.6	217	30.6	2.21

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254169

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254205

Project: Klaza

P.O. No.: 19-094

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254205

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
K295841		4.53				0.43	7.17	20.4	2210	1.51	3.60	2.55	0.38	47.7	8.8	12
K295842		4.57				0.38	7.46	19.6	2090	1.48	1.43	2.67	1.08	48.6	9.7	11
K295843		5.63				0.85	7.06	26.9	1950	1.58	0.88	3.01	2.63	51.3	7.0	9
K295844		4.65				0.30	7.41	20.8	2190	1.62	0.84	2.50	0.46	54.9	9.4	13
K295845		3.56				0.60	7.27	14.6	2210	1.70	0.89	2.69	1.02	54.8	9.7	13
K295846		3.76	377	1.485	1.545	>100	5.53	1335	220	1.30	627	2.29	149.5	41.1	9.2	6
K295847		<0.02	370	1.520	1.530	>100	5.67	1290	300	1.19	626	2.26	151.5	42.9	9.1	7
K295848		4.82				0.71	6.64	15.9	1730	1.44	1.20	1.91	0.59	36.9	5.3	9
K295849		4.36				0.79	6.65	63.0	1580	1.56	1.50	2.68	0.99	49.3	18.2	9
K295850		1.86				5.19	6.35	328	1110	1.32	0.78	3.85	11.00	54.1	9.2	8
K295851		5.16				0.14	7.02	10.4	2050	1.45	0.31	2.54	0.21	40.5	6.5	10
K295852		0.91				28.0	6.35	352	140	1.44	30.9	2.43	14.15	51.4	8.4	7
K295853		6.58				0.29	7.04	21.6	1930	1.56	0.99	2.70	0.76	51.5	6.6	10
K295854		5.89				0.14	7.31	8.5	1980	1.60	1.88	2.65	0.26	47.3	6.4	10
K295855		4.03				0.21	7.56	8.7	2410	1.58	0.63	2.22	1.73	51.7	6.9	11
K295856		0.26	100	0.994		>100	5.48	248	570	0.60	5.28	1.48	24.3	19.05	11.8	63
K295857		4.25				0.31	7.42	7.9	2370	1.54	0.47	2.34	0.74	43.6	7.0	11
K295858		4.80				0.33	7.40	42.4	2190	1.59	1.89	2.31	0.91	46.5	12.1	8
K295859		2.92				0.89	6.83	138.0	480	1.27	17.65	2.34	1.27	41.4	46.2	7
K295860		2.40				0.72	6.74	34.7	1280	1.50	1.71	2.63	0.95	47.6	17.8	9
K295861		2.63				0.46	6.56	43.8	1570	1.50	6.37	2.54	1.01	40.4	23.2	7
K295862		2.80				1.74	7.08	144.0	1470	1.34	34.8	1.94	1.96	40.3	11.9	7
K295863		4.69				0.26	7.56	15.5	2160	1.57	1.44	1.67	2.55	59.5	12.7	9
K295864		2.02				0.68	7.38	63.9	440	1.47	3.17	1.24	1.96	50.4	9.0	8
K295865		4.98				0.01	0.20	0.5	30	0.12	0.04	32.1	0.02	1.35	0.7	1
K295866		4.87				0.37	7.30	17.2	1910	1.71	0.84	2.18	0.88	53.1	8.6	9
K295867		2.26				0.28	6.90	11.1	1670	1.47	0.87	2.33	0.80	39.8	7.1	8
K295868		2.53				0.24	7.18	11.8	2510	1.33	0.81	2.22	0.57	39.5	6.6	8
K295869		3.94				0.31	7.09	11.6	550	1.53	1.07	2.07	1.15	44.2	8.2	8
K295870		3.99				0.29	7.14	15.1	1720	1.55	0.99	2.22	1.01	46.2	17.4	9
K295871		3.07				1.49	7.38	105.5	1420	1.44	4.18	2.19	2.71	54.3	7.0	8
K295872		5.68				4.58	7.43	183.5	850	1.50	7.51	1.05	19.30	58.1	10.1	8
K295873		4.44				0.64	6.81	40.6	1530	1.51	1.65	2.23	5.66	50.7	22.3	8
K295874		3.87				0.57	6.82	72.9	1910	1.62	1.01	2.87	17.00	53.5	26.5	7
K295875		0.26	103	1.045		>100	5.52	253	620	0.65	5.24	1.48	24.8	19.55	11.7	64
K295876		6.08				0.44	7.67	25.7	2810	1.56	0.97	1.38	10.95	82.2	12.3	8
K295877		2.25				3.38	6.93	235	760	1.58	2.92	2.20	23.7	85.2	4.9	6
K295878		3.96				4.81	7.27	313	970	1.70	6.57	1.57	46.1	74.3	27.0	7
K295879		3.66				10.35	6.79	405	740	1.69	73.5	1.42	27.2	89.0	21.8	6
K295880		2.73				0.75	6.75	84.1	920	1.36	5.16	2.49	9.42	46.7	14.6	7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254205

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K295841		10.65	68.6	3.25	16.60	0.08	1.3	0.114	2.82	23.8	14.7	0.87	495	1.41	2.03	8.0
K295842		10.40	22.4	3.34	16.40	0.08	1.3	0.095	2.69	24.4	15.5	0.86	490	0.87	2.02	8.1
K295843		17.85	27.4	2.93	17.05	0.08	1.3	0.084	2.74	26.2	21.9	0.64	531	0.96	1.66	7.7
K295844		9.05	22.1	3.28	17.00	0.10	1.4	0.085	2.87	28.1	15.9	0.96	531	1.44	2.09	8.1
K295845		14.40	14.2	3.00	17.35	0.09	1.3	0.062	2.84	28.2	23.5	0.85	532	1.72	1.64	8.3
K295846		15.35	4760	6.89	14.85	0.08	0.9	3.11	2.45	22.7	12.8	0.81	1700	20.6	0.03	5.3
K295847		15.55	4690	6.97	15.10	0.09	0.8	2.98	2.53	23.4	12.8	0.81	1700	9.72	0.03	5.5
K295848		24.7	15.3	2.69	15.30	0.07	1.3	0.087	2.84	18.2	25.3	0.55	598	3.96	0.32	7.3
K295849		23.4	32.9	3.16	15.20	0.07	1.2	0.107	2.91	24.5	16.5	0.84	1320	1.47	0.57	7.3
K295850		20.5	615	4.52	14.95	0.07	1.0	0.344	2.81	29.7	10.8	1.18	4690	1.16	0.25	6.4
K295851		22.2	5.5	2.83	14.90	0.08	1.2	0.072	2.84	19.4	15.5	0.69	595	5.34	1.62	7.4
K295852		19.55	1735	6.42	15.10	0.10	0.9	0.837	2.94	27.8	9.3	0.70	3810	4.46	0.04	5.9
K295853		12.25	11.8	3.07	16.35	0.10	1.2	0.113	2.88	26.1	13.4	0.81	806	13.20	1.51	7.8
K295854		11.35	10.4	2.89	16.10	0.08	1.2	0.115	2.75	24.0	13.6	0.76	483	0.58	2.07	7.7
K295855		11.80	17.5	3.00	16.70	0.10	1.0	0.058	2.82	27.4	12.8	0.73	389	1.25	2.25	7.7
K295856		0.89	6190	5.79	12.30	0.08	1.4	0.427	1.14	9.0	12.1	1.14	1730	22.1	1.65	3.3
K295857		10.55	19.6	2.91	17.00	0.11	1.0	0.047	2.72	22.2	13.5	0.78	353	1.30	2.27	7.9
K295858		24.2	101.0	3.08	17.85	0.14	1.1	0.050	2.82	24.2	12.4	0.72	272	1.22	1.38	7.2
K295859		25.9	117.5	4.56	15.65	0.11	1.0	0.112	2.80	22.4	11.8	0.90	289	3.36	0.18	5.6
K295860		24.6	61.6	2.69	16.90	0.14	1.1	0.037	2.83	24.4	49.9	0.90	272	1.19	1.07	6.8
K295861		20.2	176.5	2.91	17.65	0.13	1.0	0.056	2.79	21.1	33.4	0.73	294	2.23	0.61	6.7
K295862		19.15	865	3.54	19.50	0.14	1.1	0.129	2.81	19.8	39.4	0.50	356	1.96	0.22	8.1
K295863		13.30	42.4	2.97	17.75	0.16	1.2	0.059	2.79	30.0	18.0	0.72	364	1.40	1.66	8.2
K295864		15.95	75.7	4.27	17.30	0.13	1.0	0.089	3.08	27.3	12.9	0.42	145	1.91	1.36	5.6
K295865		0.07	2.9	0.14	0.70	0.08	0.1	0.006	0.06	1.3	1.2	2.05	125	0.05	0.10	0.3
K295866		12.85	43.3	2.72	17.10	0.13	1.3	0.054	2.81	28.3	13.3	0.72	239	2.48	2.05	7.4
K295867		13.45	45.3	3.03	16.95	0.13	1.2	0.054	2.73	19.3	17.7	0.58	285	1.33	1.06	7.8
K295868		13.65	53.4	3.02	17.30	0.12	1.3	0.063	2.70	19.4	19.0	0.55	292	1.28	1.00	8.1
K295869		11.50	54.5	2.89	16.60	0.12	1.2	0.059	2.81	21.9	11.9	0.67	208	1.08	1.60	6.8
K295870		14.05	73.5	3.09	17.00	0.13	1.1	0.087	2.91	24.0	10.7	0.68	298	11.60	1.62	6.9
K295871		16.90	260	3.33	18.55	0.15	1.1	0.220	4.25	28.7	12.3	0.84	823	1.46	0.09	6.3
K295872		16.85	495	4.03	19.65	0.13	1.2	0.636	3.81	33.1	9.6	0.57	704	11.90	0.09	4.8
K295873		16.35	98.8	3.04	18.00	0.14	1.1	0.165	3.71	26.0	11.1	0.73	457	0.98	0.57	6.5
K295874		19.30	390	3.07	15.85	0.15	1.1	0.124	3.25	29.8	11.2	1.04	1180	1.60	0.85	7.3
K295875		0.91	6110	5.82	12.45	0.10	1.5	0.427	1.13	9.4	12.1	1.14	1720	22.3	1.66	3.3
K295876		17.05	226	3.18	17.25	0.15	1.2	0.127	3.20	49.9	13.1	0.68	460	8.32	1.59	8.0
K295877		19.80	1295	3.85	23.0	0.14	1.1	0.442	3.24	52.5	12.9	0.97	1800	37.9	0.07	6.3
K295878		20.6	2230	3.92	24.8	0.16	1.2	0.604	3.11	42.5	27.3	0.70	879	77.6	0.06	7.4
K295879		22.7	2900	4.47	21.5	0.13	1.1	0.881	2.85	51.4	17.6	0.70	857	38.2	0.04	5.9
K295880		18.65	249	3.23	17.25	0.12	1.1	0.115	2.60	24.6	38.7	0.89	754	3.74	0.05	6.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254205

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
K295841		2.6	640	27.9	106.5	<0.002	0.63	2.27	11.5	1	3.3	374	0.63	0.32	12.95	0.262
K295842		2.6	690	32.4	101.0	<0.002	0.80	1.92	11.7	1	2.8	374	0.62	0.21	11.85	0.274
K295843		2.5	570	133.5	110.0	<0.002	0.58	3.74	10.7	1	3.4	297	0.64	0.18	14.35	0.243
K295844		2.8	640	31.7	113.5	<0.002	0.61	1.69	12.2	1	3.3	379	0.66	0.17	13.50	0.265
K295845		2.7	650	53.1	115.5	<0.002	0.36	2.27	12.6	1	2.5	339	0.68	0.24	14.40	0.268
K295846		2.0	470	>10000	129.5	<0.002	7.40	95.3	8.8	2	26.6	57.4	0.41	0.95	9.45	0.186
K295847		2.2	490	>10000	131.0	<0.002	7.47	96.4	9.2	2	26.3	56.2	0.41	0.99	9.30	0.199
K295848		1.8	580	43.2	99.5	<0.002	0.13	5.07	9.4	<1	2.3	140.5	0.64	<0.05	10.65	0.235
K295849		2.4	550	56.7	121.5	<0.002	0.77	5.05	9.7	1	3.5	171.0	0.66	0.32	13.55	0.226
K295850		2.3	510	133.5	134.0	<0.002	2.15	23.7	9.2	1	6.1	138.0	0.56	0.09	12.35	0.213
K295851		2.3	620	21.0	99.8	<0.002	0.16	2.12	10.4	1	2.0	337	0.60	<0.05	10.70	0.263
K295852		2.8	490	1385	147.0	<0.002	6.17	61.2	9.0	2	7.3	72.6	0.47	0.18	10.35	0.201
K295853		2.6	610	39.5	116.0	<0.002	0.43	2.92	11.4	1	2.2	298	0.64	0.06	14.15	0.254
K295854		2.5	570	21.6	107.0	<0.002	0.09	2.43	10.4	1	2.2	356	0.67	0.80	14.30	0.246
K295855		2.4	610	25.6	106.5	<0.002	0.05	1.05	11.4	1	2.2	354	0.59	0.17	13.65	0.258
K295856		28.1	460	>10000	29.0	0.011	2.34	442	11.3	2	2.0	190.0	0.20	1.19	1.91	0.241
K295857		2.4	580	32.4	104.0	<0.002	0.16	1.35	10.5	1	2.1	346	0.58	0.13	12.75	0.251
K295858		2.8	580	28.8	123.0	<0.002	1.07	3.64	9.9	1	4.1	247	0.55	0.33	12.75	0.232
K295859		3.7	520	44.0	152.5	<0.002	3.20	6.25	8.7	3	6.3	77.9	0.43	9.38	12.60	0.183
K295860		2.2	560	22.8	113.5	<0.002	1.30	4.80	9.7	1	3.6	194.5	0.52	0.33	12.60	0.216
K295861		2.3	540	25.1	105.5	<0.002	1.52	10.50	9.2	1	6.0	148.5	0.52	2.20	11.35	0.208
K295862		2.2	600	44.0	106.5	<0.002	1.44	78.0	10.6	1	6.6	94.2	0.63	1.51	12.25	0.239
K295863		2.8	600	24.8	114.5	<0.002	0.51	3.54	10.6	1	2.6	244	0.66	0.19	16.00	0.252
K295864		2.2	630	45.1	159.0	<0.002	2.69	5.00	10.2	1	6.5	176.0	0.47	0.57	15.75	0.186
K295865		<0.2	70	0.6	1.7	<0.002	<0.01	0.11	0.3	2	<0.2	75.8	<0.05	<0.05	0.18	0.010
K295866		2.6	520	25.5	117.0	<0.002	1.18	2.38	9.7	1	2.9	287	0.68	0.24	17.35	0.201
K295867		2.2	570	25.2	107.0	<0.002	1.30	6.13	10.1	1	5.1	191.0	0.62	0.15	12.25	0.230
K295868		2.0	590	24.2	102.5	<0.002	1.03	7.62	9.9	1	4.7	192.0	0.65	0.14	12.80	0.246
K295869		2.3	560	22.8	121.5	<0.002	1.85	3.08	9.7	2	4.7	258	0.55	0.18	12.40	0.211
K295870		2.6	560	30.6	136.0	<0.002	1.36	2.64	9.5	1	5.6	264	0.57	0.17	14.05	0.211
K295871		2.3	570	87.9	262	<0.002	2.07	11.20	10.1	1	6.8	89.7	0.52	0.75	15.45	0.200
K295872		2.3	590	745	267	0.002	3.00	11.45	9.8	2	10.8	61.4	0.42	0.96	15.80	0.165
K295873		2.4	580	71.2	151.0	<0.002	1.56	6.76	10.4	1	4.8	142.0	0.54	0.35	12.50	0.198
K295874		2.7	540	53.1	146.0	<0.002	1.55	7.45	9.5	2	3.8	151.0	0.65	0.14	14.95	0.210
K295875		28.6	460	>10000	30.1	0.010	2.36	443	11.6	2	2.0	191.5	0.21	1.32	2.01	0.239
K295876		3.0	590	51.0	134.0	<0.002	0.96	5.09	10.3	1	3.7	221	0.70	0.20	16.45	0.228
K295877		2.8	590	253	184.0	0.002	2.54	21.0	9.4	1	13.9	71.2	0.50	0.43	13.90	0.191
K295878		3.4	670	195.5	164.5	0.003	2.22	88.6	10.4	1	11.3	74.7	0.63	0.56	15.50	0.212
K295879		4.4	710	257	158.0	0.002	2.75	116.5	8.9	2	9.9	47.5	0.50	1.98	13.45	0.182
K295880		2.5	540	38.8	105.5	<0.002	1.61	66.9	9.3	1	5.9	96.1	0.55	1.06	12.10	0.209

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 12-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254205

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
K295841		1.59	4.3	76	0.9	16.7	65	34.9	0.061
K295842		1.44	4.5	78	1.4	17.6	109	34.7	0.040
K295843		1.49	4.5	66	2.2	16.7	179	33.1	0.040
K295844		1.49	4.7	75	1.8	18.6	61	36.3	0.034
K295845		1.62	4.8	74	3.0	18.8	96	35.5	0.009
K295846		2.44	3.2	57	9.1	11.0	>10000	22.2	1.345
K295847		2.41	3.2	61	9.2	11.8	>10000	21.1	1.495
K295848		1.93	4.0	68	7.9	12.4	78	32.5	<0.005
K295849		2.34	4.1	62	2.5	14.2	113	31.3	0.029
K295850		2.66	4.9	60	4.7	14.9	1160	27.9	0.256
K295851		1.63	3.0	74	7.1	13.5	48	31.7	<0.005
K295852		3.71	2.6	58	8.8	14.2	1200	25.2	0.932
K295853		1.83	4.5	71	10.3	18.4	91	34.0	0.013
K295854		1.39	4.1	68	1.7	16.9	41	33.4	0.011
K295855		1.34	2.9	69	0.7	17.6	106	27.1	0.019
K295856		0.48	1.3	78	0.6	14.0	5080	50.3	0.271
K295857		1.25	2.4	67	0.9	15.6	100	26.5	0.008
K295858		1.60	3.1	66	2.6	14.2	94	29.0	0.070
K295859		1.87	4.4	57	4.3	13.0	106	25.9	0.357
K295860		1.69	2.5	64	2.8	13.5	79	27.9	0.048
K295861		1.57	2.9	60	3.8	12.2	85	26.6	0.105
K295862		1.53	3.9	70	4.4	14.1	151	29.4	0.610
K295863		1.39	3.4	67	1.8	16.1	154	31.0	0.024
K295864		1.73	4.3	63	2.2	11.8	202	27.2	0.049
K295865		0.03	0.2	2	<0.1	2.4	4	3.3	<0.005
K295866		1.41	5.3	61	1.3	13.6	92	33.6	0.040
K295867		1.54	3.4	67	2.1	13.0	69	30.5	0.032
K295868		1.53	3.3	69	2.5	12.5	71	33.0	0.030
K295869		1.78	3.4	64	2.1	12.1	100	31.1	0.037
K295870		1.85	3.4	63	1.7	13.0	130	29.4	0.060
K295871		3.40	4.9	65	7.9	13.8	304	31.3	1.140
K295872		3.20	4.4	63	9.8	11.4	1270	31.1	0.420
K295873		2.65	3.6	62	2.5	13.5	412	29.7	0.255
K295874		2.42	4.5	61	2.4	14.1	596	29.0	0.112
K295875		0.50	1.3	80	0.8	14.0	5100	52.1	0.281
K295876		1.97	8.3	64	1.8	16.4	719	32.0	0.256
K295877		3.29	6.1	59	7.0	13.4	1300	28.5	4.70
K295878		2.54	6.9	69	7.1	14.6	1380	32.0	0.766
K295879		2.44	5.4	68	10.9	13.9	1340	28.0	0.805
K295880		1.94	4.0	62	5.2	13.4	783	28.5	0.113

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 12-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254205

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254213

Project: Klaza

P.O. No.: 19-095

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254213

Sample Description	Method	WEI-21	Ag-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K295881		5.06		0.66	7.27	41.8	1720	1.44	4.27	1.98	3.38	45.7	7.5	8	19.95	164.0
K295882		4.38		4.66	7.26	92.2	620	1.47	11.45	1.07	9.23	59.5	11.9	9	14.60	214
K295883		3.65		0.78	7.18	55.0	1590	1.42	3.22	1.62	17.35	47.1	10.3	6	17.95	170.0
K295884		2.56		68.9	4.76	596	270	0.87	109.5	0.13	6.28	163.0	15.0	6	13.65	2160
K295885		1.87		2.10	7.32	95.6	700	1.65	4.58	2.21	4.17	54.7	11.5	7	21.7	234
K295886		3.03		0.69	7.15	25.1	2520	1.62	1.87	2.15	1.40	45.7	8.3	7	16.50	152.5
K295887		5.26		0.42	7.38	10.1	2970	1.68	1.22	2.20	0.37	45.5	7.1	8	10.75	91.3
K295888		0.26		96.4	5.27	257	590	0.76	4.58	1.40	21.3	16.10	12.6	61	0.80	5910
K295889		1.82		0.38	7.60	6.7	3280	1.69	0.67	2.00	0.38	38.4	5.5	8	9.73	63.6
K295890		2.53		0.98	7.20	44.6	500	1.40	1.77	2.18	0.80	41.5	5.9	6	13.15	226
K295891		4.63		0.40	7.49	15.5	1940	1.56	0.66	2.35	0.38	45.3	5.1	7	12.85	97.3
K295892		3.23		0.47	7.90	9.7	2390	1.64	0.73	1.92	0.41	44.3	6.0	7	14.05	119.5
K295893		1.35		0.33	7.22	10.5	3010	1.58	0.75	2.07	0.45	74.1	5.9	7	13.35	24.4
K295894		1.77		1.07	6.65	25.0	2870	1.57	1.42	2.95	4.23	60.8	4.4	7	14.95	85.4
K295895		3.00		0.36	7.10	34.7	1880	1.69	0.81	2.11	0.47	42.7	6.4	8	22.0	31.2
K295896		6.14		1.18	7.22	15.6	1790	1.65	1.91	2.04	1.13	41.5	6.8	7	19.65	23.0
K295897		2.86		1.47	6.97	28.9	1720	1.64	2.92	2.38	12.90	40.5	10.4	9	16.50	45.7
K295898		5.04		0.32	7.66	13.8	2020	1.79	1.51	2.28	0.69	43.9	7.2	8	13.50	38.7
K295899		3.92		0.21	7.40	12.4	1730	1.59	0.91	1.64	1.67	45.2	5.3	8	14.45	55.4
K295900		1.93		0.90	6.72	104.5	410	1.01	2.61	1.72	8.38	38.5	8.7	7	11.00	39.1
K295901		1.68		0.22	7.88	25.7	2190	1.21	0.83	1.10	18.90	50.1	8.9	7	14.15	70.2
K295902		3.57		1.05	7.16	64.5	1000	1.48	1.97	1.73	20.3	85.2	14.5	6	20.9	150.5
K295903		5.01		0.01	0.10	0.3	30	0.06	0.04	33.7	0.12	1.34	0.7	2	0.14	2.2
K295904		2.34		6.52	6.64	140.5	320	1.16	11.10	0.85	6.42	117.5	22.1	7	10.55	136.0
K295905		3.31		20.2	6.80	346	220	1.30	17.45	0.86	5.01	69.4	14.5	7	10.70	1015
K295906		2.16		1.57	6.66	109.0	1310	1.54	5.75	1.51	0.58	280	14.7	7	12.90	283
K295907		5.78		1.27	7.20	73.4	410	1.35	4.17	2.26	1.48	40.8	8.3	8	14.25	207
K295908		5.62		0.77	6.75	43.1	460	1.30	2.20	1.88	1.04	39.9	5.0	8	12.40	88.1
K295909		4.97		0.40	7.13	17.7	400	1.33	1.70	1.84	0.84	52.9	15.2	8	12.20	44.5
K295910		0.26	102	>100	5.26	240	590	0.66	4.47	1.39	20.7	15.70	11.6	61	0.76	5950
K295911		5.51		0.52	7.12	20.8	390	1.38	1.59	2.01	0.76	44.0	15.6	9	10.40	50.0
K295912		6.48		0.44	6.97	34.9	2030	1.66	1.39	2.22	0.68	38.4	6.8	9	15.80	62.7
K295913		6.97		0.37	7.16	26.7	1250	1.53	1.24	2.25	0.56	62.1	10.2	8	10.80	151.0
K295914		3.81		0.62	7.15	31.4	340	1.46	2.37	2.04	0.79	46.9	13.9	8	13.85	64.7
K295915		<0.02		0.58	7.06	32.6	510	1.53	2.20	2.08	0.84	43.0	12.6	8	13.80	69.9
K295916		2.99		0.74	7.09	47.5	710	1.36	4.45	1.99	0.61	39.3	11.5	8	13.00	91.3
K295917		3.55		2.96	7.44	229	1000	1.60	7.99	2.44	1.02	47.9	8.5	9	19.75	517
K295918		2.10		3.41	7.00	337	760	1.51	4.44	1.98	0.87	48.8	7.6	7	16.45	1140
K295919		1.31		3.05	6.56	163.0	1700	1.54	5.39	2.03	3.78	38.5	8.5	8	13.95	88.8
K295920		1.44		0.46	6.96	181.0	780	1.66	0.52	2.99	0.55	45.8	7.9	17	22.2	28.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K295881		3.18	17.70	0.12	1.3	0.121	3.41	23.3	20.5	0.78	572	2.69	0.09	7.0	2.3	600
K295882		4.26	17.75	0.14	0.9	0.214	3.42	33.5	14.1	0.65	487	16.40	0.05	3.7	2.7	550
K295883		3.29	17.25	0.14	1.1	0.172	3.18	24.5	31.5	0.66	879	1.40	0.08	7.0	2.3	630
K295884		10.60	14.60	0.17	0.6	1.010	2.24	102.5	11.1	0.27	97	105.0	0.04	2.0	2.8	330
K295885		3.64	17.65	0.12	1.1	0.221	3.45	31.7	9.8	1.04	1020	2.49	0.04	4.8	2.6	550
K295886		2.75	17.70	0.13	1.3	0.103	3.28	23.8	24.3	0.69	429	1.36	1.09	7.7	2.3	560
K295887		2.88	14.90	0.14	1.0	0.066	2.91	24.2	15.4	0.76	318	1.53	1.98	6.9	5.6	570
K295888		5.49	10.60	0.09	1.4	0.368	1.09	7.9	13.4	1.07	1640	18.10	1.56	2.9	27.3	440
K295889		2.71	14.35	0.14	1.0	0.064	3.01	20.8	21.5	0.74	338	1.09	1.54	7.2	2.5	570
K295890		3.27	13.60	0.12	0.9	0.085	3.02	21.8	25.1	0.66	495	1.87	0.18	6.3	1.9	540
K295891		3.18	14.20	0.15	1.0	0.074	2.95	24.7	23.9	0.85	341	1.88	0.90	7.1	2.1	580
K295892		3.39	15.10	0.14	1.0	0.067	3.31	24.3	22.0	0.83	322	1.71	1.36	7.3	1.9	700
K295893		3.21	13.75	0.14	1.0	0.059	2.84	46.0	14.5	0.68	282	1.10	1.79	6.5	1.6	550
K295894		3.30	13.85	0.13	1.0	0.072	2.79	36.9	12.6	0.95	471	0.85	1.47	6.6	1.7	540
K295895		2.52	13.85	0.13	1.1	0.057	3.23	22.9	20.7	0.66	497	0.79	0.62	7.5	1.9	550
K295896		3.06	13.50	0.13	1.1	0.078	3.24	22.0	21.3	0.70	514	1.71	0.43	7.0	1.9	550
K295897		3.49	13.70	0.14	0.9	0.172	3.26	21.3	10.6	0.58	565	0.49	1.22	6.7	2.5	560
K295898		3.65	14.40	0.14	1.0	0.059	2.79	23.8	22.2	0.87	394	0.63	1.14	6.7	2.2	600
K295899		3.26	14.40	0.14	1.1	0.049	2.60	24.3	27.5	0.69	319	0.57	0.76	6.4	1.7	560
K295900		6.29	12.60	0.13	0.9	0.096	3.02	19.8	26.8	0.67	459	0.79	0.08	4.3	2.3	500
K295901		2.83	15.15	0.12	1.1	0.080	2.50	27.7	37.1	0.37	926	0.73	0.08	7.1	1.8	590
K295902		4.02	14.25	0.17	0.8	0.160	2.85	52.1	25.0	0.72	1380	5.73	0.03	5.6	2.2	550
K295903		0.13	0.30	0.15	<0.1	<0.005	0.03	1.4	1.0	1.61	125	0.05	0.03	0.1	1.0	70
K295904		7.24	15.95	0.19	0.6	0.261	3.28	72.8	9.5	0.58	603	6.74	0.05	2.3	3.6	470
K295905		6.28	18.30	0.15	0.7	0.550	3.39	43.9	6.6	0.71	861	27.2	0.05	3.3	2.5	550
K295906		8.35	21.6	0.26	0.9	0.262	3.39	201	28.5	0.84	847	76.5	0.16	4.9	3.6	520
K295907		4.46	14.85	0.14	0.8	0.135	4.24	22.0	10.7	0.85	591	4.02	0.47	4.8	2.4	580
K295908		3.64	13.30	0.14	0.8	0.085	3.95	21.3	6.7	0.64	294	0.97	1.18	4.4	1.4	550
K295909		3.67	13.75	0.16	0.8	0.072	3.70	29.9	5.3	0.68	252	0.30	1.90	4.0	1.4	570
K295910		5.47	9.94	0.08	1.2	0.358	1.10	7.8	12.6	1.06	1650	16.95	1.55	2.8	25.4	440
K295911		3.77	12.95	0.14	0.8	0.053	3.45	23.9	8.8	0.65	263	0.84	1.82	4.5	1.9	560
K295912		3.33	14.40	0.12	0.9	0.059	3.27	20.4	18.8	0.81	365	1.10	1.17	6.6	1.8	560
K295913		3.40	14.50	0.15	0.8	0.084	2.89	38.6	13.1	0.72	269	2.20	1.95	5.8	1.8	570
K295914		3.64	14.05	0.15	0.8	0.068	3.30	25.5	11.1	0.70	270	4.03	1.66	4.6	1.9	570
K295915		3.49	14.15	0.14	0.8	0.076	3.31	23.9	11.9	0.69	271	4.31	1.69	4.7	1.8	570
K295916		3.03	13.75	0.14	0.8	0.061	3.93	21.4	21.5	0.74	367	3.29	0.34	4.7	1.7	570
K295917		3.02	15.45	0.14	0.9	0.151	3.31	26.9	11.0	0.90	717	5.09	0.05	6.1	2.1	580
K295918		3.79	16.15	0.14	1.1	0.261	3.14	26.8	10.1	0.78	621	1.88	0.04	6.1	3.1	510
K295919		5.07	14.20	0.13	1.1	0.224	2.96	20.4	12.2	0.79	979	3.48	0.04	4.3	3.2	600
K295920		2.31	14.95	0.14	3.1	0.050	3.14	22.8	17.8	0.88	1210	2.35	0.04	9.4	6.2	1070

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
K295881		37.1	136.0	<0.002	1.25	19.40	9.9	1	5.5	88.2	0.54	1.36	12.90	0.222	2.34	3.6
K295882		146.0	220	<0.002	3.14	49.2	9.8	2	10.9	42.5	0.29	0.81	13.90	0.140	2.60	3.0
K295883		57.1	139.5	<0.002	1.26	46.5	9.9	1	6.2	94.5	0.57	0.50	14.50	0.216	2.13	3.5
K295884		578	150.0	0.003	>10.0	90.3	6.2	2	9.8	40.2	0.16	3.76	8.04	0.075	1.93	3.1
K295885		90.5	205	<0.002	2.69	11.05	9.1	1	6.1	60.1	0.45	0.93	14.85	0.158	3.17	4.0
K295886		28.0	136.0	<0.002	1.12	10.40	9.8	2	4.4	211	0.67	0.28	13.20	0.224	1.98	3.5
K295887		26.2	103.5	<0.002	1.00	3.16	9.7	1	3.7	346	0.52	0.23	12.60	0.232	1.40	3.8
K295888		9660	24.5	0.010	2.22	428	11.2	2	1.7	182.5	0.18	1.05	1.73	0.229	0.44	1.2
K295889		35.5	104.5	<0.002	0.69	4.06	9.5	1	3.3	271	0.54	0.16	12.35	0.240	1.42	3.3
K295890		37.1	105.0	<0.002	2.05	29.7	9.2	1	4.7	93.9	0.47	0.42	10.80	0.213	1.73	2.6
K295891		28.6	100.0	0.002	0.79	12.45	9.7	1	2.7	173.5	0.54	0.15	12.20	0.240	1.43	3.5
K295892		29.4	115.0	<0.002	1.12	6.70	10.9	1	4.0	224	0.54	0.15	12.80	0.257	1.68	5.1
K295893		22.3	101.0	<0.002	0.89	3.37	8.9	1	3.4	296	0.51	0.09	12.25	0.219	1.60	4.8
K295894		86.5	99.4	<0.002	0.67	6.24	8.5	1	3.8	251	0.53	0.09	10.80	0.222	1.83	4.9
K295895		21.9	109.5	<0.002	0.66	9.00	9.0	1	2.9	171.5	0.65	0.05	11.05	0.236	1.83	5.1
K295896		122.0	122.0	<0.002	0.99	8.14	9.2	1	3.1	130.5	0.63	0.10	11.70	0.229	2.02	4.0
K295897		274	125.5	<0.002	1.58	5.40	9.4	1	3.4	197.0	0.49	0.46	10.70	0.229	2.27	4.0
K295898		33.2	109.0	<0.002	1.38	3.76	10.2	1	3.2	198.0	0.49	0.27	12.50	0.239	1.70	3.2
K295899		23.1	96.4	<0.002	1.20	5.67	9.7	1	3.4	121.5	0.50	0.24	13.50	0.219	1.39	2.7
K295900		75.1	119.0	<0.002	5.85	11.90	8.3	1	3.8	96.5	0.35	0.50	11.10	0.160	1.91	2.7
K295901		47.0	107.5	<0.002	0.74	31.1	9.6	<1	3.2	75.3	0.56	0.16	14.70	0.233	1.50	3.5
K295902		62.1	137.0	<0.002	1.91	33.4	9.2	1	5.3	75.7	0.39	0.42	12.15	0.205	2.30	4.7
K295903		0.8	1.0	<0.002	0.01	0.22	0.2	1	<0.2	82.2	<0.05	<0.05	0.14	0.005	0.03	0.1
K295904		120.5	187.5	<0.002	7.16	35.2	8.6	1	8.4	21.9	0.17	3.15	9.13	0.109	2.62	3.8
K295905		150.5	172.5	0.002	4.93	60.5	8.9	1	10.5	25.4	0.23	8.86	9.84	0.134	2.63	3.4
K295906		42.1	124.5	0.004	3.25	21.0	8.1	1	6.1	252	0.46	1.55	14.50	0.154	1.99	8.1
K295907		66.0	151.5	<0.002	2.97	5.44	9.6	1	4.7	153.0	0.36	1.11	11.15	0.190	2.71	5.1
K295908		128.0	125.5	<0.002	2.55	1.95	8.9	1	4.1	215	0.32	0.45	10.20	0.180	2.06	4.1
K295909		37.9	121.0	<0.002	2.81	1.70	9.6	1	3.4	234	0.29	0.54	11.15	0.164	1.86	4.6
K295910		9600	23.5	0.010	2.22	439	10.5	2	1.6	180.5	0.17	1.00	1.67	0.226	0.42	1.2
K295911		48.4	111.5	<0.002	2.81	2.57	8.5	1	3.3	295	0.34	0.47	10.90	0.178	1.74	4.0
K295912		38.5	107.5	<0.002	1.24	4.48	9.6	1	4.1	238	0.51	0.45	10.70	0.228	1.86	3.7
K295913		32.1	102.5	<0.002	1.70	4.92	9.3	1	3.3	300	0.42	0.34	12.25	0.207	1.55	4.3
K295914		36.2	116.5	<0.002	2.82	2.46	9.3	1	3.8	216	0.33	0.78	10.80	0.173	1.74	5.0
K295915		33.9	110.0	<0.002	2.65	2.60	9.0	1	3.9	225	0.35	0.75	10.40	0.180	1.73	4.7
K295916		31.8	132.0	0.002	2.20	2.77	9.4	1	4.5	141.5	0.34	1.90	10.35	0.183	2.21	4.3
K295917		68.9	150.5	0.003	2.05	9.66	9.6	<1	5.1	112.0	0.45	1.90	12.60	0.222	2.79	5.2
K295918		55.6	141.5	0.002	2.89	17.85	8.9	1	7.8	106.5	0.54	1.34	13.10	0.192	2.33	6.3
K295919		131.5	125.0	0.002	4.86	6.53	7.8	2	9.3	194.5	0.30	1.43	9.17	0.163	2.01	4.8
K295920		32.4	112.5	<0.002	1.22	7.75	6.7	1	2.3	280	0.58	0.06	8.50	0.289	2.43	6.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
K295881		68	2.7	12.6	385	29.4	0.156
K295882		61	3.8	12.5	634	24.4	0.187
K295883		61	4.1	14.9	1620	28.6	0.088
K295884		59	4.0	8.9	473	16.3	4.17
K295885		56	3.9	13.0	448	27.8	0.274
K295886		63	2.7	14.3	494	32.2	0.134
K295887		64	1.7	13.2	85	25.1	0.077
K295888		76	0.5	12.9	4910	42.5	0.269
K295889		66	1.6	12.6	100	25.1	0.042
K295890		63	3.3	12.2	125	23.4	0.099
K295891		65	2.0	13.6	93	25.3	0.045
K295892		75	1.9	14.4	71	25.3	0.079
K295893		63	1.1	12.4	68	24.8	0.031
K295894		62	1.9	12.2	358	25.2	0.054
K295895		64	1.4	12.4	91	27.1	0.034
K295896		63	1.4	12.7	216	26.4	0.025
K295897		66	2.0	12.2	1030	23.6	0.058
K295898		68	1.6	13.1	114	25.5	0.038
K295899		63	1.4	12.9	193	27.0	0.040
K295900		56	1.9	12.4	461	22.8	0.106
K295901		67	1.8	16.9	1520	28.3	0.048
K295902		66	2.2	16.6	1250	19.5	0.058
K295903		1	<0.1	2.3	10	1.8	<0.005
K295904		60	4.7	10.3	469	15.4	0.152
K295905		59	7.2	8.5	387	18.1	0.235
K295906		90	1.6	17.6	187	22.4	0.333
K295907		66	2.7	12.8	191	21.1	0.187
K295908		62	1.7	11.3	114	19.7	0.111
K295909		68	1.3	12.9	85	20.1	0.064
K295910		77	0.4	12.3	4840	50.3	0.296
K295911		66	1.5	12.1	85	19.9	0.065
K295912		70	1.7	12.1	94	22.8	0.078
K295913		67	1.1	13.0	74	21.6	0.195
K295914		62	2.1	11.7	70	22.9	0.115
K295915		63	2.1	11.0	71	22.7	0.122
K295916		66	2.9	10.1	81	20.6	0.127
K295917		67	5.3	11.3	128	22.0	0.115
K295918		62	8.7	10.3	168	25.1	0.101
K295919		57	4.5	8.5	359	34.1	0.166
K295920		59	2.7	12.9	103	121.5	0.172

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 14-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254213

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254215

Project: Klaza

P.O. No.: 19-096

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254215

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295921		5.87			0.52	7.64	73.8	430	1.29	1.18	2.63	0.54	58.5	8.7	8	21.7
K295922		3.64			0.92	8.03	122.0	1830	1.43	1.04	2.81	1.11	55.3	4.7	8	19.00
K295923		2.59			4.46	7.69	511	1490	1.47	0.97	2.09	5.53	53.4	4.1	8	15.40
K295924		4.07			0.62	8.36	85.3	1750	1.38	0.73	2.09	0.70	55.1	4.0	8	18.65
K295925		3.96			1.84	7.64	61.3	970	1.37	3.84	1.81	0.71	47.1	5.1	8	15.05
K295926		4.31			0.38	7.27	37.8	2320	1.57	0.80	2.66	0.81	40.5	5.7	8	18.55
K295927		1.04			1.37	6.94	60.1	750	1.41	2.92	3.13	1.16	42.7	6.4	7	17.30
K295928		<0.02			1.40	7.32	64.8	580	1.45	2.92	3.13	1.21	51.5	6.6	7	18.30
K295929		3.50			0.55	7.17	53.4	1620	1.62	1.24	2.41	0.62	44.0	10.4	9	19.40
K295930		4.01			0.27	7.03	22.5	1930	1.62	0.44	2.30	0.32	38.3	5.7	8	18.75
K295931		2.37			0.84	7.54	70.8	430	1.51	1.21	2.00	1.12	42.8	16.0	8	17.55
K295932		3.04			1.31	6.73	129.5	670	1.32	1.89	2.22	2.39	34.2	8.7	8	13.85
K295933		0.26	105	1.000	>100	5.69	256	620	0.68	4.98	1.48	24.6	19.40	12.0	66	0.89
K295934		2.73			0.95	7.58	158.0	1110	1.42	1.50	2.67	1.55	51.7	9.8	8	17.10
K295935		4.70			1.17	7.18	65.0	550	1.47	2.54	2.38	1.69	41.4	11.6	7	13.20
K295936		5.57			1.41	7.80	63.5	210	1.43	3.65	0.96	1.16	34.2	18.7	11	9.48
K295937		4.20			0.82	7.01	192.0	1300	1.68	0.38	3.26	0.64	48.9	7.3	18	14.65
K295938		5.97			0.53	7.00	216	1440	1.87	0.18	3.75	0.32	54.7	7.1	18	15.85
K295939		5.17			0.39	6.95	146.5	1630	1.83	0.19	3.82	0.33	56.1	7.4	18	18.30
K295940		5.05			0.01	0.12	0.6	30	0.13	0.03	32.2	<0.02	1.39	0.9	2	0.08
K295941		5.31			9.40	7.19	415	440	1.27	11.55	0.61	2.30	55.4	7.4	9	9.37
K295942		3.45			17.40	6.55	547	140	1.05	14.45	0.61	22.6	38.6	8.1	9	6.83
K295943		2.88			0.70	7.49	16.5	2670	1.30	1.06	1.51	1.36	40.6	8.0	9	14.25
K295944		4.00			1.07	7.55	125.5	1680	1.55	1.01	2.01	2.87	52.0	6.5	10	19.45
K295945		4.67			11.25	7.53	614	320	1.44	11.25	1.20	12.25	54.0	7.6	10	14.35
K295946		1.20			9.50	7.91	290	690	1.72	11.45	1.31	8.53	52.2	6.4	9	14.90
K295947		1.17			8.60	8.05	279	680	1.82	9.94	1.14	7.43	51.0	6.4	10	14.90
K295948		1.31			0.58	6.83	35.3	1740	1.45	1.21	3.28	0.91	48.0	15.6	9	19.45
K295949		4.83			4.36	7.77	305	730	1.61	4.49	0.93	10.60	52.1	10.3	9	15.75
K295950		4.79			0.65	6.64	24.6	1830	1.43	0.80	2.58	2.97	42.2	7.1	9	24.0
K295951		3.19			0.84	6.82	93.2	2640	1.60	1.76	3.05	1.62	47.0	6.6	8	22.9
K295952		2.71			0.38	7.15	20.4	1710	1.33	0.87	1.99	0.99	53.7	7.1	8	20.4
K295953		3.97			0.18	6.96	17.8	2230	1.51	1.00	2.57	0.39	42.4	6.6	10	20.2
K295954		0.26			99.7	5.48	258	570	0.67	5.24	1.42	24.3	19.75	11.2	63	0.83
K295955		3.46			1.53	7.33	36.8	1970	1.67	5.43	2.59	2.09	42.9	6.8	10	20.1
K295956		2.66			5.41	7.20	253	910	1.32	19.20	1.72	3.70	50.0	7.7	10	13.00
K295957		3.34			2.27	7.13	89.5	1640	1.47	8.21	2.00	1.11	43.6	4.7	9	17.50
K295958		3.49			6.79	7.07	200	460	1.43	27.4	1.42	4.01	47.1	5.4	9	11.75
K295959		3.83			6.09	7.13	188.5	940	1.38	3.57	2.51	22.3	17.15	10.1	8	15.70
K295960		2.81			7.35	6.82	281	570	1.33	11.55	1.44	3.67	45.5	14.4	9	7.46

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254215

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295921		55.7	3.68	16.15	0.11	1.0	0.080	3.03	32.1	17.1	0.89	445	4.23	0.04	6.6	2.3
K295922		224	3.67	17.55	0.16	1.0	0.135	3.38	30.2	36.1	1.13	767	1.63	0.05	7.9	1.9
K295923		1430	4.19	16.45	0.14	0.8	0.403	3.25	29.0	64.1	1.02	909	0.88	0.05	7.1	1.8
K295924		88.0	3.57	18.55	0.14	1.0	0.093	3.55	30.1	34.6	0.95	622	1.29	0.06	8.0	1.9
K295925		118.0	4.84	16.45	0.12	0.9	0.122	3.42	25.0	10.7	0.83	532	0.60	0.05	5.9	2.2
K295926		71.6	2.68	16.90	0.12	1.0	0.078	2.81	19.9	27.4	0.80	381	4.00	0.06	7.6	1.8
K295927		128.5	3.56	14.95	0.13	0.9	0.087	2.96	21.0	17.6	1.14	491	2.45	0.04	4.6	1.7
K295928		138.5	3.59	15.35	0.14	1.0	0.092	3.02	26.7	17.7	1.15	488	2.10	0.04	4.9	1.6
K295929		126.5	3.53	16.95	0.13	1.2	0.105	3.21	21.8	23.0	0.73	437	1.18	0.18	7.2	2.0
K295930		37.8	2.73	16.60	0.15	1.1	0.052	2.70	18.3	69.6	0.69	397	0.98	0.08	8.3	1.7
K295931		162.5	4.29	16.20	0.14	1.0	0.053	3.34	22.7	9.3	0.77	443	2.01	0.05	6.1	2.4
K295932		273	4.48	15.50	0.12	0.8	0.057	3.11	17.7	11.2	0.98	625	190.0	0.05	4.4	1.6
K295933		6210	5.87	12.30	0.10	1.6	0.413	1.17	8.5	13.3	1.15	1740	19.90	1.68	3.3	27.4
K295934		387	3.30	17.35	0.14	1.0	0.079	3.38	29.0	9.5	1.03	647	4.72	0.05	6.1	1.7
K295935		111.0	5.35	17.65	0.14	0.9	0.119	3.38	22.0	9.7	1.01	714	3.56	0.05	4.0	2.0
K295936		69.0	5.88	16.85	0.13	1.1	0.179	3.84	18.1	7.4	0.66	510	3.10	0.06	3.3	2.6
K295937		27.8	2.41	18.35	0.12	3.7	0.038	3.44	23.6	10.9	1.11	2350	3.80	0.04	10.5	6.2
K295938		24.3	2.57	18.40	0.13	3.7	0.034	3.37	27.0	12.1	1.19	1380	1.63	0.05	10.4	6.4
K295939		17.0	2.41	18.60	0.16	3.7	0.045	3.27	27.3	14.7	1.05	1300	1.68	0.04	10.6	6.3
K295940		1.9	0.13	0.43	0.09	<0.1	0.005	0.03	1.4	0.9	1.86	128	0.06	0.04	0.3	0.7
K295941		356	5.47	20.4	0.12	1.1	0.391	3.52	29.6	5.1	0.51	552	0.78	0.04	5.9	2.0
K295942		987	6.73	18.70	0.12	0.9	1.230	3.25	19.9	5.1	0.46	333	0.84	0.04	4.7	2.0
K295943		20.4	3.20	16.35	0.11	1.1	0.122	3.94	20.0	17.1	0.56	666	1.00	0.15	7.5	1.9
K295944		22.5	3.76	17.10	0.13	1.2	0.140	3.40	27.9	17.6	0.77	648	3.51	0.79	7.6	2.3
K295945		423	6.82	19.90	0.12	1.1	0.854	3.52	28.9	6.1	0.78	948	1.52	0.06	6.2	2.5
K295946		218	5.97	17.90	0.14	1.3	0.486	3.62	27.5	5.5	1.05	1600	1.28	0.04	7.4	2.3
K295947		267	6.13	18.20	0.12	1.3	0.449	3.73	27.4	5.8	1.07	1670	1.10	0.04	7.6	2.5
K295948		194.5	3.27	16.10	0.13	1.1	0.098	2.71	25.2	22.4	0.88	811	2.93	0.89	7.8	2.5
K295949		97.0	5.91	17.90	0.13	1.2	0.342	3.64	27.5	7.6	0.90	893	0.92	0.04	7.8	2.9
K295950		19.3	2.82	14.40	0.07	1.1	0.192	2.74	20.6	55.7	0.89	680	1.49	0.07	7.4	4.5
K295951		45.9	3.20	14.25	0.09	1.1	0.086	2.89	24.4	33.1	1.07	749	1.21	0.07	7.0	3.0
K295952		39.4	2.88	14.95	0.09	1.1	0.079	3.17	27.7	34.5	0.60	590	1.60	0.51	7.1	2.5
K295953		33.6	2.85	15.05	0.06	0.9	0.057	2.93	21.2	13.0	0.65	395	1.92	1.60	7.2	2.5
K295954		6050	5.64	11.35	0.06	1.4	0.415	1.14	8.6	14.1	1.10	1680	19.80	1.62	3.1	28.4
K295955		143.0	3.54	16.55	0.08	1.0	0.115	3.18	21.2	18.6	0.78	670	1.26	0.82	7.9	2.7
K295956		866	5.94	16.10	0.10	1.0	0.248	3.38	25.5	10.7	0.65	367	1.07	0.37	5.6	2.6
K295957		236	2.94	14.80	0.08	0.9	0.129	3.46	22.6	12.6	0.75	596	0.94	0.11	6.3	2.3
K295958		230	4.57	15.85	0.10	0.9	0.387	3.38	25.0	7.0	0.78	986	1.26	0.04	4.5	2.5
K295959		399	3.46	12.85	0.07	0.8	0.810	3.34	7.9	9.6	1.13	1750	2.23	0.03	3.3	2.1
K295960		380	4.93	15.60	0.09	0.8	0.275	3.48	23.9	6.7	0.80	1250	1.15	0.05	2.4	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254215

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295921		580	25.8	131.5	<0.002	2.58	3.55	10.3	2	4.8	168.5	0.50	0.36	14.35	0.222	2.33
K295922		600	65.4	146.5	<0.002	0.88	3.90	11.2	1	4.9	166.5	0.60	0.21	14.70	0.247	2.59
K295923		560	130.5	138.5	<0.002	1.23	19.85	10.1	1	10.6	129.5	0.54	0.17	11.60	0.240	2.50
K295924		660	36.2	155.5	<0.002	1.22	4.56	11.8	1	4.8	132.0	0.62	0.10	13.90	0.264	2.91
K295925		590	59.5	152.5	<0.002	3.45	4.56	10.5	2	6.2	113.5	0.46	0.40	11.75	0.200	2.48
K295926		610	46.1	93.0	<0.002	1.17	4.22	10.0	1	3.7	135.5	0.65	0.10	11.35	0.236	2.00
K295927		570	80.5	129.5	<0.002	2.31	6.73	8.9	1	3.9	113.0	0.40	0.31	11.65	0.155	2.41
K295928		590	79.8	157.5	<0.002	2.33	6.99	9.6	1	4.0	114.0	0.42	0.34	14.10	0.163	2.43
K295929		570	35.1	116.0	<0.002	1.59	3.69	9.8	2	4.2	136.0	0.63	0.15	13.00	0.223	2.13
K295930		600	23.1	74.6	<0.002	0.53	3.30	9.8	1	2.9	163.0	0.68	0.06	12.50	0.249	1.67
K295931		560	51.9	153.5	<0.002	3.17	6.07	10.1	2	4.6	98.5	0.51	0.12	13.70	0.197	2.54
K295932		500	113.0	168.5	0.047	3.97	8.28	8.4	2	5.4	70.3	0.37	0.32	11.10	0.151	2.66
K295933		460	>10000	27.9	0.010	2.43	471	11.8	3	2.0	197.0	0.21	1.24	1.93	0.248	0.51
K295934		580	48.3	168.0	<0.002	2.07	8.96	10.1	2	4.8	83.8	0.51	0.29	14.25	0.199	2.77
K295935		510	76.9	189.0	<0.002	4.49	5.90	10.3	3	5.8	95.4	0.34	0.36	14.25	0.148	2.87
K295936		600	78.0	208	<0.002	5.49	4.86	11.1	3	7.4	57.9	0.30	0.67	14.05	0.133	2.87
K295937		1140	26.9	138.5	<0.002	1.31	15.85	6.8	1	1.5	165.0	0.67	<0.05	7.89	0.302	3.47
K295938		1090	24.6	143.5	<0.002	1.09	15.00	6.9	1	1.4	209	0.70	<0.05	8.91	0.296	3.36
K295939		1110	22.4	131.0	<0.002	0.72	11.95	6.9	1	1.4	274	0.69	<0.05	8.35	0.295	3.21
K295940		70	0.5	1.1	<0.002	0.01	0.10	0.2	2	<0.2	79.1	<0.05	<0.05	0.11	0.006	0.02
K295941		520	169.0	183.0	<0.002	4.86	29.5	8.7	1	17.9	19.8	0.52	0.90	15.55	0.188	2.80
K295942		490	448	172.5	<0.002	6.52	17.60	8.4	1	16.4	17.2	0.40	0.60	10.45	0.156	2.26
K295943		590	84.4	148.5	<0.002	1.05	5.51	9.9	1	3.2	139.0	0.65	0.17	11.10	0.248	2.50
K295944		600	132.5	167.0	<0.002	1.44	3.74	10.5	1	4.9	209	0.60	0.11	14.75	0.236	2.54
K295945		570	520	213	<0.002	5.52	25.8	10.7	1	23.1	45.4	0.53	0.32	14.20	0.192	2.91
K295946		590	499	198.5	<0.002	2.30	19.40	11.1	1	12.1	41.3	0.66	0.33	16.40	0.215	3.38
K295947		600	416	202	<0.002	2.04	22.5	11.2	1	12.0	37.9	0.67	0.28	15.80	0.218	3.43
K295948		570	37.6	102.5	<0.002	1.04	9.58	10.2	1	22.4	230	0.62	0.18	13.80	0.234	1.81
K295949		610	412	226	<0.002	2.93	13.80	11.5	1	8.0	42.3	0.77	0.43	14.45	0.233	3.40
K295950		560	73.4	88.6	<0.002	0.30	7.10	9.0	1	2.1	121.0	0.66	0.12	12.65	0.236	2.26
K295951		540	55.0	111.0	<0.002	1.06	10.25	9.1	1	4.3	125.0	0.70	0.20	11.15	0.221	2.32
K295952		620	30.3	114.5	<0.002	0.18	15.55	9.6	<1	2.0	182.0	0.62	0.13	18.85	0.246	1.69
K295953		570	31.8	109.0	<0.002	0.35	1.85	9.2	1	3.4	321	0.56	0.15	11.95	0.240	1.65
K295954		450	9900	27.7	0.009	2.31	441	11.3	2	1.8	190.0	0.19	1.18	1.95	0.235	0.46
K295955		640	106.0	123.5	<0.002	0.69	4.72	11.1	1	4.1	234	0.61	0.49	10.30	0.261	2.45
K295956		530	111.5	178.5	<0.002	5.19	29.9	9.7	1	8.6	115.5	0.48	4.24	12.40	0.190	2.32
K295957		560	76.5	133.5	<0.002	1.08	10.20	9.3	1	3.7	117.0	0.50	0.67	11.90	0.221	2.63
K295958		530	226	189.5	<0.002	3.65	25.3	9.4	1	9.2	49.1	0.36	0.82	11.85	0.172	2.77
K295959		550	735	188.0	<0.002	2.82	53.7	8.6	1	6.3	83.5	0.26	0.46	9.75	0.148	3.27
K295960		530	240	196.0	<0.002	4.79	34.8	8.8	1	11.2	36.4	0.20	0.98	10.10	0.119	2.44

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254215

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295921		4.3	68	2.7	14.5	65	24.0	0.057
K295922		4.6	70	5.0	14.7	149	26.0	0.066
K295923		2.9	67	6.4	11.0	523	20.9	0.046
K295924		4.4	74	4.1	12.0	113	24.2	0.056
K295925		2.8	66	10.2	12.1	95	21.7	0.043
K295926		4.4	69	4.7	12.6	95	23.7	0.023
K295927		4.6	58	5.3	13.8	118	22.8	0.025
K295928		4.8	60	5.5	15.4	123	23.6	0.025
K295929		4.7	68	5.3	13.8	112	26.7	0.022
K295930		7.4	67	2.2	11.7	77	26.3	0.014
K295931		4.1	64	9.1	13.0	133	24.1	0.032
K295932		2.8	57	12.1	10.0	220	21.0	0.056
K295933		1.4	82	0.6	13.4	5210	53.9	0.282
K295934		3.4	70	8.9	12.6	171	24.4	0.041
K295935		4.2	64	12.2	10.1	173	23.5	0.064
K295936		3.1	70	16.2	9.4	121	26.0	0.038
K295937		3.9	63	3.7	11.8	96	148.5	0.203
K295938		4.0	62	4.4	12.3	88	143.5	0.242
K295939		6.5	62	3.9	13.1	80	145.5	0.147
K295940		0.2	1	<0.1	2.7	3	1.9	<0.005
K295941		4.3	62	9.3	8.2	179	25.5	0.353
K295942		4.5	58	8.0	6.6	1460	20.8	0.522
K295943		4.2	67	3.1	11.9	137	25.7	0.035
K295944		4.8	66	4.0	13.2	240	27.3	0.144
K295945		5.4	68	10.0	10.5	894	25.8	0.896
K295946		12.4	68	7.6	10.0	709	28.6	0.329
K295947		9.8	70	8.2	9.8	623	28.8	0.263
K295948		5.0	66	2.9	16.9	110	29.0	0.051
K295949		6.6	69	6.5	10.5	831	25.5	0.445
K295950		3.7	65	3.8	14.3	228	23.8	0.019
K295951		7.3	65	4.9	14.9	140	24.3	0.055
K295952		3.4	69	3.0	15.2	83	28.6	0.026
K295953		3.2	65	1.8	13.6	60	23.3	0.029
K295954		1.3	80	0.5	13.6	4970	46.1	0.304
K295955		3.8	75	3.2	14.7	205	23.9	0.191
K295956		4.3	62	3.2	13.2	317	24.2	2.49
K295957		4.8	63	3.1	12.5	141	22.5	0.253
K295958		4.9	62	5.7	8.7	342	20.7	0.712
K295959		3.8	56	5.6	9.2	1870	19.1	0.291
K295960		4.2	63	4.1	8.2	361	19.3	0.720

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254215

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254218

Project: Klaza

P.O. No.: 19-098

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254218

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
K295961		1.57			9.92	5.06	773	340	1.07	20.1	1.25	2.30	22.7	36.9	8	8.65
K295962		4.88			1.16	7.13	422	2040	1.52	3.05	2.02	1.40	41.8	13.1	10	19.00
K295963		2.36			2.86	7.01	445	930	1.40	6.76	1.72	0.69	38.4	10.4	8	21.6
K295964		3.10			1.51	7.20	59.5	1510	1.66	1.28	2.10	1.79	46.7	6.7	9	20.1
K295965		4.69			1.64	7.03	77.2	1230	1.77	1.64	2.34	6.31	49.5	7.8	11	21.0
K295966		5.07			0.02	0.08	0.7	20	0.07	0.02	32.5	0.04	1.03	0.9	2	0.10
K295967		2.25			2.03	7.31	161.0	590	1.42	2.60	1.66	6.94	59.0	7.8	9	25.7
K295968		4.82			0.83	6.69	43.5	2080	1.59	1.72	2.60	2.14	42.0	7.7	11	20.6
K295969		4.27			0.44	7.32	18.3	2150	1.76	1.01	2.54	0.48	45.9	7.0	16	9.33
K295970		6.27			0.56	7.06	18.6	2250	1.67	0.61	2.63	3.92	44.1	7.2	14	12.00
K295971		3.25			0.63	7.28	32.8	2120	1.57	1.24	2.45	2.05	46.2	7.9	13	15.40
K295972		3.00			0.44	7.12	20.4	2150	1.67	0.95	2.51	3.79	40.8	8.2	13	13.05
K295973		6.50			0.46	7.39	10.2	2250	1.44	0.51	2.60	0.25	48.8	7.6	15	13.20
K295974		6.23			0.53	7.33	19.3	2070	1.52	0.65	2.50	0.57	47.0	11.3	14	14.40
K295975		6.18			0.75	7.25	9.8	2230	1.55	0.81	2.56	0.27	42.5	7.1	17	13.75
K295976		6.79			0.50	7.17	8.5	2210	1.57	0.50	2.61	0.56	45.1	7.1	16	12.75
K295977		5.05			0.45	6.98	22.3	1890	1.39	0.81	2.74	2.47	39.3	10.6	12	18.85
K295978		5.00			0.15	7.64	13.1	2120	1.46	0.47	1.86	0.22	53.7	9.6	11	17.65
K295979		4.97			0.12	7.53	7.1	2360	1.57	0.27	2.55	0.13	46.9	7.9	14	12.20
K295980		0.26			39.8	5.65	2680	180	1.08	37.5	1.69	45.5	32.3	16.7	24	10.40
K295981		5.03			0.23	7.19	15.5	2320	1.55	0.54	2.53	0.20	47.0	8.5	13	10.70
K295982		2.81			8.17	6.32	281	1240	1.12	5.76	0.13	0.78	66.9	2.0	7	19.25
K295983		3.21			11.65	6.08	194.0	900	0.76	14.70	0.05	0.56	56.7	1.0	8	10.95
K295984		3.26			2.32	7.69	48.1	1870	1.01	7.51	0.06	0.28	60.0	0.5	10	5.83
K295985		3.31			1.33	7.85	42.6	1700	1.04	4.71	0.07	0.29	63.0	0.9	9	10.20
K295986		<0.02			1.48	7.80	43.3	1680	1.05	5.12	0.07	0.34	66.2	0.9	12	11.60
K295987		3.23			1.04	7.97	46.5	1700	1.09	4.34	0.06	0.17	65.6	2.2	9	16.15
K295988		4.01			0.87	8.26	56.9	1440	1.39	1.81	0.05	0.19	57.8	5.6	9	22.8
K295989		4.22			1.03	8.45	60.1	2430	1.30	2.16	0.03	0.19	65.6	3.9	9	22.6
K295990		2.73			0.88	8.18	32.9	1500	1.35	2.39	0.02	0.20	57.5	4.9	10	14.85
K295991		4.66			1.17	7.79	62.2	180	1.09	3.86	0.02	0.07	56.1	10.5	11	5.97
K295992		3.76			0.70	8.23	27.1	1410	1.34	2.25	0.02	0.12	55.0	7.0	10	16.80
K295993		1.52			0.76	7.60	16.3	360	1.18	2.54	0.02	0.04	43.5	3.4	9	8.35
K295994		0.26	106	0.996	>100	5.53	243	580	0.68	5.35	1.43	25.2	20.2	12.6	62	0.91
K295995		2.27			0.84	7.80	52.0	430	1.28	3.04	0.02	0.08	48.6	18.2	12	7.26
K295996		3.14			0.52	8.09	27.9	1660	1.40	1.59	0.03	0.16	57.6	6.7	11	18.50
K295997		2.66			0.48	8.09	30.7	1620	1.44	2.35	0.07	0.20	60.4	11.8	8	24.0
K295998		4.21			0.42	8.49	33.0	2020	1.79	1.67	0.10	0.52	56.9	15.0	10	14.75
K295999		3.48			0.54	8.32	29.4	1480	1.64	2.33	0.09	0.35	52.3	16.4	10	15.40
K296000		2.16			0.45	8.12	19.9	550	1.49	2.01	0.06	0.13	55.8	15.4	9	12.75

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254218

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K295961		486	11.90	11.80	0.10	0.6	0.224	2.46	10.7	7.2	0.60	554	2.76	0.04	2.6	3.5
K295962		229	2.94	15.35	0.08	0.9	0.146	3.58	21.7	19.9	0.69	396	2.55	0.14	6.8	2.5
K295963		160.5	4.61	15.10	0.08	0.9	0.104	2.98	20.2	13.3	0.69	365	1.94	0.05	5.8	3.6
K295964		97.3	3.87	15.50	0.09	1.2	0.143	3.41	23.8	27.0	0.82	1040	0.97	0.08	7.9	2.4
K295965		50.4	3.70	15.65	0.08	1.3	0.183	2.37	25.8	37.7	0.90	1000	2.03	0.03	7.9	2.4
K295966		1.9	0.13	0.21	<0.05	<0.1	0.005	0.02	1.1	1.4	2.09	125	<0.05	0.03	0.1	0.2
K295967		168.5	3.16	16.45	0.09	1.2	0.158	3.04	31.2	10.3	0.58	375	1.53	0.04	7.5	3.4
K295968		84.8	2.97	15.40	0.08	1.2	0.135	2.73	21.2	21.7	0.67	400	1.48	1.53	8.0	2.4
K295969		48.4	3.11	15.85	0.09	1.1	0.077	2.85	23.1	14.5	0.78	486	2.40	2.10	8.4	2.9
K295970		122.5	2.89	15.40	0.09	1.3	0.110	2.87	22.6	12.7	0.72	411	2.46	2.13	8.1	2.4
K295971		145.5	3.24	16.30	0.08	1.1	0.103	2.83	23.2	36.9	0.78	406	2.60	1.58	8.3	2.7
K295972		121.5	3.09	15.70	0.09	1.1	0.123	2.78	20.3	27.7	0.76	407	1.91	1.85	8.2	2.6
K295973		159.0	2.96	15.70	0.09	1.1	0.075	2.78	25.1	16.6	0.82	420	1.59	2.23	7.8	2.7
K295974		174.5	3.00	15.95	0.10	1.0	0.085	2.94	24.3	13.4	0.73	353	1.38	1.85	7.5	2.6
K295975		335	2.95	15.95	0.08	1.1	0.081	2.88	21.2	12.3	0.74	381	1.88	2.05	7.7	2.7
K295976		145.5	2.85	16.00	0.07	1.1	0.072	2.75	22.6	14.7	0.77	410	1.05	2.21	7.7	2.8
K295977		103.5	3.13	15.65	0.08	1.1	0.067	2.95	20.0	33.1	0.64	415	2.22	0.95	7.5	2.7
K295978		36.7	2.92	16.55	0.09	1.1	0.048	2.86	28.7	30.1	0.59	446	1.32	1.20	8.0	2.5
K295979		29.2	2.91	16.05	0.08	1.0	0.051	2.77	24.2	13.3	0.83	384	1.34	2.30	7.9	2.7
K295980		1165	9.18	13.80	0.12	0.8	1.475	2.64	15.7	17.2	0.66	2310	16.05	0.06	4.5	15.7
K295981		49.0	3.10	16.30	0.09	1.1	0.060	2.74	24.2	16.8	0.75	307	1.29	2.08	7.9	2.5
K295982		154.5	4.11	13.70	0.10	1.2	0.784	2.80	38.3	17.4	0.25	76	4.62	0.05	3.9	1.6
K295983		81.2	2.69	13.55	0.09	0.9	0.784	3.06	32.1	16.4	0.22	51	3.39	0.07	5.5	0.6
K295984		21.7	2.99	15.15	0.11	1.0	0.329	4.00	32.5	7.5	0.29	64	2.58	0.09	5.7	0.5
K295985		28.4	3.75	14.20	0.11	0.9	0.358	3.85	34.7	13.0	0.30	80	3.13	0.07	5.2	0.5
K295986		30.1	3.81	15.35	0.16	0.9	0.402	3.77	37.2	11.4	0.30	82	3.45	0.07	5.5	0.9
K295987		67.4	4.44	15.10	0.16	0.8	0.374	3.78	37.0	7.4	0.31	107	9.15	0.07	5.2	0.8
K295988		136.0	5.32	17.35	0.14	0.9	0.261	3.58	31.1	7.9	0.27	282	2.82	0.04	7.0	1.8
K295989		190.0	6.10	16.45	0.13	0.9	0.440	3.94	36.8	6.7	0.31	158	3.22	0.06	5.9	1.3
K295990		66.7	4.60	16.30	0.14	0.8	0.471	4.01	32.3	6.2	0.36	193	2.92	0.05	5.1	1.2
K295991		31.6	5.17	16.20	0.16	0.9	0.242	3.84	29.2	6.7	0.37	48	2.67	0.07	3.9	2.3
K295992		65.9	4.17	17.25	0.15	0.9	0.221	3.79	30.9	7.8	0.33	163	2.13	0.06	6.0	1.8
K295993		49.2	4.65	12.95	0.12	0.8	0.260	3.69	23.3	6.2	0.30	63	1.85	0.07	5.3	1.3
K295994		6210	5.78	12.10	0.11	1.4	0.462	1.15	9.5	12.9	1.12	1710	21.4	1.65	3.3	28.7
K295995		46.3	4.49	14.70	0.13	0.7	0.296	3.86	26.0	6.9	0.37	84	5.12	0.07	4.2	2.5
K295996		155.5	4.62	14.55	0.12	1.1	0.249	3.55	31.8	11.3	0.28	104	3.48	0.06	6.0	1.7
K295997		187.0	5.49	17.50	0.13	0.9	0.300	3.43	33.5	16.5	0.29	117	4.00	0.04	5.2	1.5
K295998		194.0	4.79	18.15	0.13	0.9	0.201	2.69	30.9	38.6	0.20	194	2.94	0.06	7.0	2.9
K295999		155.5	4.96	17.95	0.13	1.0	0.244	3.51	27.5	21.7	0.28	161	4.03	0.07	5.5	2.6
K296000		66.2	5.14	15.20	0.12	0.8	0.376	3.88	29.4	9.2	0.35	148	1.68	0.06	4.0	2.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254218

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
K295961		380	307	124.5	<0.002	>10.0	40.1	6.7	2	9.3	39.0	0.21	1.89	6.87	0.103	1.80
K295962		550	64.4	142.0	<0.002	1.33	26.6	9.4	1	3.4	126.0	0.55	0.27	10.85	0.224	2.52
K295963		560	88.0	138.5	<0.002	4.10	21.9	9.0	1	9.4	55.7	0.53	0.43	10.65	0.200	2.42
K295964		590	113.5	128.5	<0.002	0.69	15.05	10.0	1	4.1	91.2	0.78	0.32	14.40	0.246	2.43
K295965		580	118.5	95.9	<0.002	0.84	18.55	10.5	1	4.0	109.5	0.77	0.52	14.70	0.239	2.04
K295966		70	0.8	0.7	<0.002	<0.01	0.10	0.2	2	<0.2	78.0	<0.05	<0.05	0.12	0.005	0.02
K295967		560	98.5	145.5	<0.002	2.25	28.1	10.3	1	4.8	59.6	0.75	0.69	14.55	0.231	2.51
K295968		550	45.4	98.6	<0.002	0.52	6.06	9.7	1	2.9	302	0.77	0.23	11.00	0.236	1.34
K295969		560	31.8	113.5	<0.002	0.19	1.32	10.2	1	3.0	349	0.81	0.09	12.45	0.243	1.23
K295970		570	60.7	106.5	<0.002	0.32	1.10	9.6	1	2.3	353	0.85	0.09	11.80	0.239	1.19
K295971		620	32.5	111.5	<0.002	0.54	7.40	10.8	1	3.5	305	0.70	0.15	11.90	0.265	1.32
K295972		610	25.7	100.5	<0.002	0.44	4.51	10.3	1	3.1	338	0.75	0.11	11.25	0.255	1.21
K295973		600	18.1	105.0	<0.002	0.19	0.96	10.7	1	2.3	384	0.62	<0.05	13.30	0.252	1.26
K295974		590	27.8	122.0	<0.002	0.58	1.39	10.4	1	3.2	321	0.60	0.11	11.95	0.245	1.43
K295975		590	19.9	107.0	<0.002	0.37	1.25	9.9	1	2.6	347	0.60	0.27	11.10	0.254	1.30
K295976		580	40.5	96.1	<0.002	0.29	0.90	9.9	1	2.2	382	0.63	0.10	12.15	0.246	1.13
K295977		570	47.8	105.0	<0.002	0.76	10.05	9.6	1	3.4	232	0.62	0.21	10.70	0.239	1.43
K295978		600	18.5	115.0	<0.002	0.27	14.75	10.8	1	2.4	254	0.63	0.07	14.95	0.252	1.28
K295979		600	16.8	103.0	<0.002	0.15	0.68	10.6	1	1.9	404	0.64	<0.05	12.35	0.252	1.17
K295980		450	1680	138.0	0.002	7.99	103.0	8.2	1	9.9	64.0	0.36	0.71	7.81	0.160	2.02
K295981		610	16.5	108.0	<0.002	0.62	1.25	10.4	1	3.2	339	0.61	0.13	11.15	0.250	1.32
K295982		670	335	146.5	<0.002	0.63	81.3	7.5	2	6.2	144.0	0.52	0.41	18.50	0.115	2.11
K295983		400	792	170.0	<0.002	0.66	105.5	8.3	2	10.3	81.7	0.41	0.69	11.25	0.198	1.89
K295984		380	73.3	181.0	<0.002	0.78	16.00	11.3	4	8.5	97.2	0.42	0.56	13.15	0.210	2.29
K295985		470	58.2	168.5	<0.002	0.50	8.23	11.5	3	7.4	96.1	0.40	0.39	10.85	0.192	2.15
K295986		470	62.0	184.0	<0.002	0.51	8.65	13.0	3	8.6	101.5	0.43	0.43	11.80	0.192	2.40
K295987		530	40.6	176.5	<0.002	0.61	12.15	11.9	2	8.4	108.5	0.39	0.49	11.35	0.185	2.15
K295988		770	45.2	174.5	<0.002	0.50	17.75	11.7	1	8.8	59.0	0.53	0.26	14.80	0.234	2.82
K295989		950	67.2	193.0	<0.002	0.84	6.50	11.8	1	8.1	88.5	0.45	0.40	14.70	0.204	2.69
K295990		570	52.9	207	<0.002	0.87	6.86	12.1	1	6.5	66.8	0.36	0.43	12.05	0.188	2.75
K295991		180	129.5	190.5	<0.002	4.80	7.99	11.7	2	13.0	31.2	0.29	0.77	7.41	0.147	2.07
K295992		370	59.3	181.0	<0.002	1.92	15.05	12.0	2	9.7	60.2	0.46	0.45	12.85	0.205	2.45
K295993		290	70.2	166.0	<0.002	3.83	4.47	12.8	2	10.5	39.9	0.38	0.23	11.50	0.174	1.81
K295994		460	>10000	29.3	0.011	2.39	457	12.9	2	2.0	192.5	0.20	1.21	1.95	0.237	0.47
K295995		620	51.0	186.5	<0.002	3.48	6.97	18.3	2	10.3	27.6	0.30	0.37	9.60	0.169	2.14
K295996		800	38.7	162.0	<0.002	1.22	12.15	14.2	1	8.1	92.2	0.47	0.17	16.25	0.205	2.05
K295997		730	34.7	177.0	<0.002	1.74	23.8	13.4	2	12.7	114.5	0.41	0.96	17.05	0.184	2.53
K295998		900	25.2	134.5	<0.002	1.38	24.3	15.4	1	5.9	85.1	0.53	0.56	16.40	0.232	1.85
K295999		600	30.6	178.5	<0.002	2.03	8.39	14.3	1	6.3	58.9	0.44	0.77	14.95	0.186	2.44
K296000		410	33.4	192.0	<0.002	3.15	4.13	12.4	2	8.9	32.6	0.32	0.40	10.85	0.144	2.43

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254218

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
K295961		6.1	46	3.2	7.0	239	13.2	1.620
K295962		4.9	63	1.6	12.6	132	22.5	0.171
K295963		2.7	61	3.0	10.8	96	22.6	1.665
K295964		5.2	69	3.8	14.3	200	26.5	0.071
K295965		6.3	69	5.3	14.9	503	28.2	0.104
K295966		0.2	1	<0.1	2.0	10	1.3	<0.005
K295967		4.2	67	2.9	15.3	381	25.9	0.343
K295968		3.9	67	1.6	14.9	134	26.4	0.113
K295969		5.1	67	2.3	17.4	63	27.0	0.035
K295970		4.4	66	1.3	15.6	222	28.2	0.084
K295971		4.0	74	4.0	15.9	115	25.5	0.108
K295972		3.8	72	2.4	15.5	191	26.2	0.054
K295973		4.1	71	1.1	16.5	42	25.4	0.043
K295974		3.7	66	1.2	15.3	55	25.1	0.061
K295975		3.6	68	4.6	14.5	46	26.9	0.130
K295976		4.2	67	3.7	15.9	67	26.5	0.066
K295977		3.6	66	2.9	14.6	158	26.0	0.087
K295978		5.3	69	5.3	17.1	38	26.3	0.026
K295979		4.1	68	2.1	16.8	32	24.9	0.018
K295980		4.9	57	6.8	8.2	3370	22.3	1.940
K295981		3.8	69	1.3	17.1	35	27.5	0.034
K295982		3.3	48	2.8	7.9	352	49.1	0.236
K295983		2.3	56	21.0	5.5	102	28.6	0.282
K295984		1.8	68	21.8	5.5	27	24.9	0.078
K295985		1.8	69	19.4	5.1	93	21.8	0.049
K295986		2.0	69	21.0	5.6	97	22.8	0.050
K295987		2.7	71	21.1	6.4	133	23.2	0.036
K295988		3.7	72	11.1	9.0	277	23.8	0.035
K295989		4.0	74	13.6	8.3	337	24.9	0.045
K295990		2.9	71	12.2	8.7	272	26.4	0.029
K295991		1.5	69	18.6	8.4	47	23.4	0.122
K295992		2.9	71	12.2	9.6	197	24.0	0.052
K295993		1.8	70	31.3	7.9	92	21.5	0.021
K295994		1.3	80	0.6	14.4	5190	50.2	0.279
K295995		1.9	70	26.2	7.4	115	21.2	0.051
K295996		4.1	77	22.7	9.6	187	24.0	0.023
K295997		4.7	76	9.1	10.1	160	23.0	0.042
K295998		8.4	79	5.9	14.2	282	24.5	0.025
K295999		5.6	76	5.8	11.6	188	24.2	0.022
K296000		3.2	72	21.2	9.1	118	21.4	0.016

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254218

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254224

Project: Klaza

P.O. No.: 19-099

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254224

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W602501		2.84			0.38	7.99	21.9	1820	1.40	1.87	0.09	0.12	67.4	5.0	9	19.00
W602502		4.73			0.65	8.15	37.5	1170	1.48	3.21	0.05	0.12	70.4	5.5	10	12.80
W602503		4.10			0.49	8.01	71.9	900	1.75	1.14	0.12	0.26	64.8	6.1	9	19.35
W602504		2.53			0.24	8.02	84.1	4750	1.58	0.73	0.12	0.22	53.8	5.8	9	24.2
W602505		3.71			0.62	7.56	44.5	1440	1.34	2.38	0.13	0.41	66.4	5.0	9	20.7
W602506		5.10			0.01	0.12	<0.2	40	0.09	0.04	33.1	0.02	1.32	0.8	2	0.14
W602507		4.17			0.21	8.25	27.6	1910	1.55	0.86	0.14	0.35	61.3	9.4	10	20.6
W602508		4.10			0.30	8.20	28.0	980	1.78	1.38	0.44	1.52	56.2	9.5	11	17.00
W602509		2.78			0.67	8.43	60.9	870	1.42	1.43	0.85	2.08	69.7	25.8	10	16.05
W602510		2.50			0.31	7.57	12.6	700	1.37	1.70	1.72	0.32	49.9	10.2	9	16.10
W602511		4.91			0.26	7.53	12.6	520	1.50	1.17	1.91	0.42	56.7	8.8	10	16.95
W602512		5.32			0.37	7.43	4.1	2670	1.54	1.22	2.65	0.36	46.3	7.7	15	12.25
W602513		3.18			0.18	7.40	4.9	2720	1.53	0.40	2.41	0.26	43.3	6.7	12	13.00
W602514		0.26	103	0.999	>100	5.59	247	610	0.68	5.25	1.44	25.3	20.2	12.4	64	0.91
W602515		2.18			0.54	7.07	41.1	320	1.46	1.61	1.94	1.18	50.5	8.3	10	16.80
W602516		3.03			0.34	7.56	28.8	1460	1.36	0.62	2.30	2.70	47.2	8.7	10	19.00
W602517		1.70			0.51	7.43	39.9	380	1.84	1.10	2.11	2.86	50.6	11.7	8	16.10
W602518		4.93			0.29	7.36	10.2	1710	1.48	0.63	2.78	0.49	42.4	8.1	12	21.8
W602519		3.48			0.46	7.12	37.9	1890	1.43	1.12	2.64	0.57	43.2	7.3	9	17.05
W602520		3.21			0.79	7.47	68.3	280	1.65	3.00	2.41	0.68	50.4	18.9	8	17.45
W602521		0.96			0.82	7.53	70.9	120	2.22	3.13	0.42	0.65	46.6	9.8	7	47.5
W602522		<0.02			0.77	7.20	62.1	300	2.04	2.88	0.42	0.60	44.0	9.1	7	41.8
W602523		3.74			0.43	7.27	35.5	1190	1.57	1.42	2.14	0.92	50.5	8.1	10	15.15
W602524		5.42			0.51	7.29	41.0	1790	1.31	1.79	1.90	0.73	45.8	7.6	10	10.05
W602525		5.06			0.62	6.78	35.5	590	1.48	1.18	2.36	0.90	41.7	7.4	9	12.40
W602526		5.07			0.30	7.28	7.9	1670	1.55	0.92	2.37	0.29	44.3	6.7	13	10.50
W602527		1.88			0.73	6.88	37.9	260	1.41	3.74	1.96	0.67	52.9	11.4	9	12.60
W602528		6.22			0.35	7.69	14.6	840	1.58	1.49	2.16	0.27	54.1	6.8	12	13.90
W602529		5.94			0.35	7.11	15.9	1740	1.44	1.79	2.13	0.45	44.9	6.9	10	14.65
W602530		2.00			0.34	7.03	14.3	380	1.34	1.33	2.20	0.39	46.6	8.2	10	15.95
W602531		4.87			0.43	7.22	10.9	520	1.46	1.47	2.22	0.18	49.1	7.3	12	14.10
W602532		4.69			0.26	7.45	4.9	710	1.32	1.22	2.05	0.17	48.3	6.8	10	10.95
W602533		5.87			0.21	7.47	3.9	2280	1.57	1.04	2.49	0.41	50.5	6.4	15	10.20
W602534		4.60			0.30	7.22	7.9	2290	1.52	1.06	2.55	0.33	47.1	6.1	12	11.15
W602535		0.26			38.5	5.67	2530	850	1.12	36.0	1.66	44.5	35.7	16.5	22	10.45
W602536		3.83			0.56	7.43	15.1	510	1.52	1.89	2.15	0.43	50.5	6.6	10	13.65
W602537		4.42			0.70	7.24	6.4	810	1.33	1.94	2.09	0.75	48.3	6.4	10	13.30
W602538		3.66			0.21	6.79	8.2	1970	1.41	0.75	2.82	0.26	40.4	6.3	10	20.0
W602539		2.85			0.31	7.20	6.6	540	1.52	0.97	2.34	0.41	47.6	6.3	11	16.50
W602540		5.34			0.50	7.45	21.6	530	1.55	1.82	1.79	0.62	48.3	7.9	11	19.20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254224

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602501		79.9	5.20	15.25	0.14	1.1	0.395	3.73	38.6	8.9	0.34	156	2.45	0.06	4.2	1.0
W602502		58.7	4.53	17.95	0.14	0.9	0.412	4.15	38.9	6.9	0.37	109	9.98	0.06	5.8	1.4
W602503		204	4.62	18.15	0.14	0.9	0.193	2.58	33.5	30.6	0.21	148	2.28	0.03	7.2	2.0
W602504		84.8	3.20	17.70	0.13	1.0	0.126	3.34	28.2	10.8	0.23	107	2.80	0.04	7.9	1.5
W602505		110.0	4.88	16.75	0.13	1.0	0.222	3.49	36.2	9.7	0.31	117	2.28	0.05	6.2	1.3
W602506		2.9	0.16	0.40	0.12	0.1	0.005	0.04	1.4	1.0	2.27	134	0.06	0.04	0.2	0.3
W602507		130.5	5.01	16.75	0.15	0.9	0.157	3.05	34.8	22.6	0.21	244	4.06	0.07	7.5	1.9
W602508		291	4.47	16.10	0.15	0.9	0.141	3.50	30.8	18.7	0.33	365	2.56	0.08	6.0	2.9
W602509		286	4.06	18.00	0.16	1.0	0.116	3.60	40.5	22.5	0.43	606	13.55	0.14	6.6	2.9
W602510		41.8	5.75	13.70	0.14	0.9	0.142	3.27	27.2	8.2	0.60	598	3.86	0.47	5.9	2.3
W602511		52.7	4.40	15.65	0.14	1.0	0.136	2.98	30.7	10.8	0.68	554	2.23	1.11	6.8	2.3
W602512		75.2	3.11	16.65	0.12	1.0	0.059	2.60	23.1	11.3	0.78	443	1.38	2.29	8.4	2.6
W602513		47.3	2.93	15.75	0.13	1.0	0.079	2.68	22.4	11.0	0.71	413	1.63	2.07	7.7	2.4
W602514		6220	5.83	12.05	0.11	1.4	0.452	1.15	9.8	12.0	1.12	1720	22.7	1.67	3.3	28.6
W602515		64.2	6.05	13.25	0.13	0.9	0.083	2.85	27.2	9.0	0.82	443	2.60	0.44	5.0	2.4
W602516		91.6	2.99	17.10	0.12	1.0	0.076	2.81	24.0	36.1	0.74	939	2.72	0.07	7.3	2.2
W602517		237	4.35	13.50	0.13	0.8	0.074	2.74	27.4	31.5	0.83	445	3.41	0.07	6.2	4.3
W602518		48.2	3.66	15.95	0.12	1.0	0.066	2.72	21.2	20.3	0.65	555	2.89	1.00	8.6	2.3
W602519		80.3	3.33	16.80	0.13	1.0	0.091	2.67	22.2	31.4	0.69	531	1.94	0.30	7.4	2.0
W602520		105.0	4.83	16.60	0.14	1.0	0.077	2.24	26.9	58.0	0.85	530	1.73	0.04	6.3	3.0
W602521		115.0	5.43	16.75	0.13	0.9	0.105	2.56	23.0	43.1	0.30	149	1.48	0.05	6.2	3.6
W602522		112.0	5.19	15.20	0.12	0.9	0.093	2.43	22.3	37.2	0.29	153	1.62	0.04	5.7	5.3
W602523		79.0	3.36	15.00	0.12	0.9	0.055	2.03	26.8	45.4	0.77	585	1.14	0.04	6.8	3.2
W602524		178.0	3.22	15.35	0.12	1.0	0.057	2.50	23.1	29.0	0.61	461	1.79	0.71	7.3	2.4
W602525		211	3.76	14.55	0.12	0.9	0.065	2.57	21.4	20.1	0.76	439	2.55	0.92	7.2	2.3
W602526		47.7	3.38	15.85	0.14	1.0	0.059	2.61	23.1	10.8	0.76	373	0.97	1.90	7.7	2.5
W602527		57.1	5.07	15.30	0.14	0.9	0.086	2.82	29.0	8.3	0.87	324	1.35	0.76	4.8	2.4
W602528		59.7	3.97	15.95	0.14	1.0	0.115	2.89	29.8	14.6	0.64	445	1.37	1.07	7.2	2.5
W602529		50.3	3.79	15.20	0.13	0.9	0.142	2.81	23.4	26.6	0.68	561	1.03	0.79	7.1	2.3
W602530		48.1	5.06	14.20	0.13	0.9	0.138	2.72	24.6	27.1	0.69	627	1.39	0.51	6.6	2.3
W602531		77.9	4.44	14.65	0.13	0.9	0.120	2.91	25.7	16.1	0.64	557	1.18	1.18	6.7	2.2
W602532		30.1	4.19	13.30	0.13	0.8	0.118	2.97	27.4	16.9	0.74	510	1.43	1.22	6.2	2.1
W602533		35.6	2.85	15.55	0.15	1.0	0.066	2.62	27.6	13.0	0.81	405	1.26	2.05	7.9	2.3
W602534		32.9	3.13	15.15	0.14	0.9	0.083	2.63	24.8	13.4	0.75	428	1.12	1.76	7.0	2.3
W602535		1180	8.97	13.30	0.13	0.7	1.545	2.59	18.0	14.9	0.67	2260	16.25	0.06	4.7	14.3
W602536		77.3	3.65	15.10	0.13	0.9	0.121	3.05	27.6	21.4	0.72	488	1.18	1.11	6.2	2.2
W602537		33.1	4.90	13.45	0.13	1.0	0.129	3.12	26.2	14.4	0.61	436	2.08	0.53	5.7	2.2
W602538		27.7	3.10	14.15	0.13	0.9	0.081	2.90	21.2	16.5	0.76	540	1.02	1.18	6.9	2.1
W602539		24.2	3.75	14.10	0.14	1.0	0.097	3.12	25.3	15.7	0.64	518	1.37	0.88	6.9	2.1
W602540		83.9	4.39	15.15	0.13	1.0	0.171	3.62	26.0	22.8	0.72	760	0.80	0.45	6.4	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254224

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602501		580	26.4	189.0	<0.002	1.27	6.85	11.5	2	6.3	110.0	0.35	0.24	15.00	0.156	2.53
W602502		420	32.7	218	<0.002	2.37	12.95	14.5	2	11.0	72.7	0.45	0.54	16.70	0.200	2.68
W602503		1020	29.6	128.0	<0.002	0.80	40.9	14.5	1	3.9	136.0	0.53	0.27	20.8	0.243	1.85
W602504		650	20.7	149.0	<0.002	0.79	17.15	13.8	1	2.9	89.9	0.63	<0.05	16.35	0.243	2.38
W602505		660	24.8	167.5	<0.002	1.54	11.40	13.2	2	9.8	139.0	0.52	0.48	18.75	0.209	2.43
W602506		80	0.7	1.4	<0.002	0.02	0.16	0.2	1	<0.2	82.2	<0.05	<0.05	0.17	0.005	0.03
W602507		770	16.8	141.0	<0.002	1.00	13.85	15.3	1	4.4	95.2	0.58	0.07	17.45	0.244	1.92
W602508		730	19.7	157.0	<0.002	2.12	18.25	13.1	2	5.8	82.0	0.49	0.16	15.15	0.205	2.22
W602509		670	24.2	152.0	0.002	1.83	28.2	12.6	1	5.7	79.1	0.51	0.45	15.60	0.219	1.95
W602510		570	18.1	138.0	<0.002	4.41	3.74	10.5	2	6.1	120.5	0.45	0.19	11.30	0.202	1.66
W602511		600	19.3	127.5	<0.002	2.31	1.70	11.5	2	4.5	220	0.53	0.12	12.25	0.221	1.52
W602512		610	31.4	86.8	<0.002	0.36	1.03	11.5	1	2.5	412	0.59	0.12	10.45	0.262	1.11
W602513		590	24.0	93.0	<0.002	0.31	1.47	10.9	<1	2.6	365	0.62	0.10	11.30	0.249	1.21
W602514		470	>10000	29.4	0.011	2.40	459	12.5	2	2.0	194.5	0.21	1.18	1.93	0.240	0.48
W602515		520	32.7	134.0	<0.002	5.03	11.75	10.4	3	4.3	104.5	0.40	0.20	11.50	0.173	1.63
W602516		610	26.4	100.5	<0.002	0.97	27.4	11.4	1	3.0	85.8	0.57	0.07	11.20	0.235	1.86
W602517		640	27.7	127.5	<0.002	2.88	19.70	10.4	2	3.8	70.8	0.50	0.12	13.05	0.192	1.55
W602518		600	31.9	96.4	<0.002	1.51	7.37	12.4	1	3.2	238	0.64	0.06	11.05	0.266	1.45
W602519		620	44.0	93.9	<0.002	1.27	7.01	11.4	1	3.4	166.5	0.59	0.14	10.75	0.242	1.64
W602520		570	46.7	111.0	<0.002	3.43	8.14	10.8	2	3.7	159.0	0.50	0.57	11.90	0.205	1.76
W602521		540	35.2	129.5	<0.002	5.02	9.99	11.1	2	5.8	113.5	0.48	0.28	10.95	0.197	1.71
W602522		520	32.8	116.5	<0.002	4.74	9.61	9.8	2	5.2	107.0	0.45	0.26	10.50	0.183	1.59
W602523		570	28.0	83.6	<0.002	1.69	7.96	10.1	1	3.0	263	0.51	0.18	12.00	0.217	1.47
W602524		590	26.1	88.1	<0.002	1.22	16.90	10.5	1	2.6	180.0	0.55	0.24	11.65	0.237	1.24
W602525		550	27.7	90.5	<0.002	1.92	8.32	10.2	1	3.4	207	0.54	0.12	9.39	0.222	1.23
W602526		590	28.6	96.0	<0.002	1.52	1.00	11.7	1	3.1	345	0.58	0.15	11.40	0.235	1.24
W602527		540	36.8	147.0	<0.002	4.83	3.20	10.0	2	4.9	117.5	0.35	0.55	11.85	0.166	1.76
W602528		610	20.6	126.0	<0.002	2.36	4.79	11.6	1	4.0	195.5	0.53	0.24	12.10	0.235	1.54
W602529		590	19.1	111.0	<0.002	1.63	6.45	10.7	1	3.6	187.5	0.51	0.12	10.25	0.228	1.63
W602530		580	18.8	114.5	<0.002	3.18	6.28	10.0	2	4.1	144.5	0.46	0.13	10.10	0.219	1.60
W602531		560	22.0	115.5	<0.002	2.56	1.47	10.0	2	4.1	229	0.48	0.20	10.70	0.219	1.49
W602532		570	17.3	116.0	<0.002	2.19	0.95	9.0	1	3.5	216	0.43	0.17	11.00	0.215	1.30
W602533		570	27.2	98.7	<0.002	0.51	0.98	10.1	1	2.2	510	0.61	0.37	12.95	0.238	1.20
W602534		540	29.5	94.3	<0.002	1.18	1.33	10.0	1	2.7	495	0.55	0.16	12.00	0.220	1.29
W602535		440	1645	144.5	0.002	7.83	104.0	8.0	1	10.7	62.9	0.36	0.73	8.46	0.160	2.04
W602536		550	29.7	135.5	<0.002	2.19	1.46	9.7	1	4.6	314	0.50	0.36	11.90	0.194	1.66
W602537		540	36.9	141.0	<0.002	4.22	0.98	9.6	2	5.7	105.0	0.44	0.28	12.30	0.186	1.69
W602538		540	21.5	100.0	<0.002	1.15	1.04	8.9	1	2.5	238	0.56	0.09	10.90	0.215	1.62
W602539		560	26.3	133.0	<0.002	2.23	1.06	9.7	1	3.8	251	0.54	0.13	12.15	0.215	1.74
W602540		580	25.6	151.0	<0.002	2.72	1.65	10.3	1	4.2	118.5	0.51	0.25	12.90	0.205	2.23

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254224

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602501		3.0	69	15.4	8.6	145	21.3	0.018
W602502		3.4	72	19.9	8.6	97	23.2	0.108
W602503		7.5	74	2.3	12.6	258	24.1	0.078
W602504		7.6	69	2.9	10.4	153	25.1	0.013
W602505		4.8	71	13.1	10.0	123	23.9	0.058
W602506		0.2	2	0.1	2.4	4	1.7	<0.005
W602507		10.1	74	7.1	12.0	243	24.3	0.011
W602508		9.3	72	10.9	14.9	211	24.4	0.028
W602509		4.3	75	3.4	18.8	210	28.5	0.126
W602510		3.9	67	15.6	14.7	73	24.8	0.021
W602511		4.0	68	9.4	15.1	92	25.1	0.013
W602512		2.8	72	1.7	15.8	72	25.3	0.013
W602513		2.8	69	1.5	14.7	72	25.3	0.064
W602514		1.3	81	0.6	14.5	5200	50.9	0.280
W602515		4.7	63	13.9	16.3	103	22.9	0.068
W602516		5.1	71	4.3	16.8	197	25.4	0.022
W602517		8.0	61	14.6	16.7	164	21.7	0.029
W602518		3.0	79	7.1	16.5	89	27.2	0.013
W602519		4.2	70	6.9	14.2	102	26.5	0.025
W602520		5.0	64	6.5	17.0	109	25.7	0.227
W602521		5.7	64	15.6	18.6	78	24.5	0.051
W602522		5.4	60	14.3	17.3	78	24.3	0.053
W602523		4.4	64	7.7	14.6	100	25.2	0.015
W602524		3.6	68	5.5	14.1	110	27.9	0.014
W602525		3.4	65	7.2	13.4	90	24.7	0.047
W602526		3.4	71	5.4	14.7	86	28.6	0.011
W602527		4.0	62	11.8	14.3	74	25.4	0.079
W602528		4.5	71	9.7	15.9	83	26.1	0.014
W602529		4.1	69	6.7	14.2	90	24.9	0.019
W602530		4.7	69	10.2	14.2	80	25.0	0.020
W602531		3.8	69	10.9	14.2	71	26.1	0.115
W602532		3.9	64	8.4	13.6	74	25.0	0.010
W602533		4.1	65	1.6	16.4	77	27.6	0.010
W602534		3.8	63	4.5	14.0	78	26.0	0.036
W602535		5.1	54	6.6	9.5	3360	24.0	1.655
W602536		4.4	63	9.8	14.6	84	26.2	0.139
W602537		3.6	64	16.2	14.3	94	26.1	0.045
W602538		4.3	62	5.1	12.5	82	26.2	0.020
W602539		3.8	63	9.8	14.6	80	28.6	0.019
W602540		5.0	64	8.3	13.8	94	28.2	0.091

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254224

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254228

Project: Klaza

P.O. No.: 19-101

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254228

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W602541		1.68			2.06	6.51	88.0	680	1.32	6.41	0.74	2.16	34.8	10.4	10	11.65
W602542		2.29			0.65	7.27	8.1	1640	1.62	2.37	2.47	0.25	46.9	5.6	12	12.95
W602543		4.74			0.80	7.15	7.2	900	1.42	3.28	1.87	0.47	45.7	7.0	12	14.85
W602544		5.66			0.39	7.48	5.3	2430	1.62	0.96	2.64	0.28	46.0	6.2	12	16.55
W602545		3.44			0.69	7.17	18.3	330	1.49	2.98	2.06	0.23	44.3	7.2	12	14.00
W602546		5.00			<0.01	0.14	18.4	30	0.08	0.05	32.8	<0.02	1.06	0.7	2	0.06
W602547		4.95			0.62	7.21	28.2	420	1.24	1.91	2.13	0.65	45.1	6.2	13	18.10
W602548		3.67			0.56	7.16	11.3	1200	1.49	1.67	2.34	0.78	37.7	6.8	10	18.50
W602549		5.23			0.47	7.35	5.8	480	1.38	1.39	2.03	0.98	44.2	7.3	11	18.25
W602550		4.91			0.29	6.94	6.7	1390	1.41	0.66	2.39	0.85	40.5	6.2	11	16.20
W602551		5.85			0.64	7.25	28.2	480	1.34	1.88	2.36	1.36	42.0	8.5	9	16.95
W602552		6.16			0.53	7.14	27.1	1330	1.59	1.34	2.41	0.49	41.4	6.1	10	18.60
W602553		2.97			2.19	7.01	94.8	320	1.39	6.98	1.72	0.42	42.3	7.2	9	14.70
W602554		6.27			0.41	7.55	39.9	450	1.58	3.27	1.85	0.29	48.1	6.2	10	13.75
W602555		4.13			0.74	7.29	31.3	3960	1.29	4.07	1.13	0.37	41.1	6.4	9	12.35
W602556		1.36			0.76	7.19	35.8	800	1.41	4.39	1.25	0.28	36.7	6.5	9	13.85
W602557		1.97			0.86	7.01	51.6	610	1.36	3.95	2.14	1.59	44.6	7.0	9	10.15
W602558		4.00			0.56	6.97	23.4	1000	1.19	2.34	1.68	0.54	39.4	5.5	10	14.75
W602559		5.66			0.39	7.19	14.3	2630	1.58	1.04	2.46	0.54	44.0	6.7	13	15.30
W602560		2.87			0.85	7.75	88.8	1160	1.33	1.12	1.24	8.10	51.5	8.9	9	17.40
W602561		2.62			3.04	6.98	556	220	1.14	5.72	0.91	1.35	38.7	8.6	9	7.51
W602562		<0.02			3.34	7.09	589	350	1.11	6.01	0.91	1.38	39.3	8.5	11	7.50
W602563		4.01			2.74	7.18	388	420	0.95	4.56	0.48	1.67	42.8	7.2	10	4.68
W602564		1.71			0.60	5.99	42.5	760	1.06	2.13	0.06	0.44	65.7	2.5	7	3.40
W602565		1.98			0.51	7.55	39.2	1050	1.57	1.58	1.95	0.93	51.0	8.7	10	19.30
W602566		5.01			0.25	7.66	5.8	2910	1.42	0.57	2.39	0.48	49.2	7.7	11	10.90
W602567		5.09			0.17	7.55	6.2	2210	1.40	0.53	2.37	0.34	47.9	8.3	11	11.15
W602568		3.94			0.20	7.56	6.1	2150	1.53	0.43	2.54	0.20	46.7	7.4	11	13.05
W602569		0.26	108	1.055	>100	5.87	239	650	0.67	4.97	1.53	26.5	19.80	12.3	68	0.98
W602570		3.28			0.44	7.68	10.8	480	1.45	1.03	2.15	0.69	49.4	6.9	12	13.90
W602571		3.19			0.41	7.56	10.9	380	1.48	1.43	1.85	0.67	51.3	7.0	9	13.35
W602572		4.37			0.55	7.46	11.0	970	1.22	1.67	1.72	0.25	47.9	9.9	11	15.25
W602573		5.08			0.35	7.51	6.0	410	1.40	1.02	1.77	0.27	36.5	9.0	8	14.00
W602574		3.71			0.79	6.96	7.6	2310	1.16	3.21	1.33	1.85	14.10	25.9	10	10.10
W602575		0.26			37.9	5.73	2540	290	1.12	34.1	1.64	45.3	32.2	16.6	23	10.15
W602576		4.75			0.80	7.12	8.7	170	1.17	1.92	0.76	0.71	16.00	13.9	8	6.63
W602577		5.08			0.50	7.22	10.9	440	1.31	1.42	1.45	0.86	40.2	24.5	9	12.65
W602578		3.86			0.65	7.31	48.0	1170	1.18	2.02	1.58	0.95	39.9	7.8	9	9.96
W602579		4.44			0.62	7.42	16.0	790	1.61	1.87	1.68	2.06	51.5	7.2	9	17.00
W602580		4.76			0.41	8.09	43.7	770	1.95	1.36	1.67	1.44	51.2	7.5	9	25.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254228

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602541		376	8.35	13.10	0.12	0.9	0.080	2.91	17.9	8.4	0.48	463	1.43	0.06	4.3	3.3
W602542		148.0	3.23	15.80	0.11	1.0	0.114	2.99	25.1	11.6	0.65	487	1.09	1.35	7.6	2.2
W602543		61.7	5.25	14.45	0.13	1.0	0.153	3.33	24.5	10.1	0.61	430	1.09	0.43	6.2	2.3
W602544		116.0	3.50	15.75	0.14	0.9	0.094	2.68	24.0	17.0	0.81	520	0.94	1.63	7.7	2.4
W602545		93.5	4.60	16.15	0.14	0.9	0.165	3.01	23.3	12.4	0.73	427	1.10	0.98	5.9	2.3
W602546		2.3	0.12	0.41	0.10	0.1	<0.005	0.04	1.2	0.9	1.96	113	<0.05	0.07	0.2	0.3
W602547		60.8	5.00	13.35	0.12	0.9	0.118	2.90	23.7	13.1	0.78	402	2.17	0.82	5.7	2.5
W602548		75.1	3.04	15.35	0.12	0.9	0.076	2.74	19.4	30.3	0.65	396	2.11	1.52	7.1	2.1
W602549		88.3	3.57	15.05	0.14	0.9	0.051	2.85	23.1	16.1	0.74	358	0.88	1.29	6.4	2.3
W602550		38.6	3.24	14.30	0.13	0.9	0.037	2.63	21.5	16.8	0.72	332	18.20	1.41	6.7	2.1
W602551		52.7	3.91	14.95	0.14	0.8	0.060	3.06	22.9	14.1	1.05	365	0.81	0.38	4.8	2.3
W602552		114.5	3.23	15.80	0.12	1.0	0.087	2.91	21.7	22.8	0.79	341	1.58	1.05	6.2	2.1
W602553		283	5.78	15.25	0.13	0.9	0.140	3.11	21.5	8.1	0.80	274	1.42	0.49	4.1	2.4
W602554		103.0	3.97	16.35	0.11	0.9	0.118	3.01	25.9	19.6	0.66	326	0.79	0.82	5.2	2.2
W602555		43.9	6.32	15.90	0.13	0.8	0.166	3.42	19.8	5.8	0.68	390	0.72	0.07	3.2	2.1
W602556		59.8	5.65	16.35	0.12	0.9	0.141	3.38	16.9	5.8	0.69	410	0.96	0.06	3.6	2.1
W602557		112.0	5.21	15.30	0.12	0.8	0.233	3.35	24.1	9.0	1.08	745	2.06	0.05	2.8	2.5
W602558		53.6	4.83	15.45	0.09	0.9	0.188	3.25	21.2	6.9	0.75	490	0.87	0.05	3.5	2.3
W602559		41.6	3.14	16.80	0.12	1.0	0.092	2.83	22.9	10.7	0.70	388	1.10	1.41	7.2	2.4
W602560		330	3.92	17.10	0.13	1.0	0.107	3.26	28.7	19.7	0.53	642	1.84	0.07	6.2	2.6
W602561		314	8.35	18.50	0.12	0.9	0.137	3.28	20.3	6.5	0.60	908	1.53	0.07	3.0	2.6
W602562		320	8.78	18.45	0.13	0.9	0.138	3.27	20.8	6.4	0.60	887	1.85	0.07	3.1	2.7
W602563		55.5	5.06	17.75	0.11	0.8	0.067	3.50	23.1	6.1	0.39	305	0.92	0.08	4.3	2.2
W602564		67.6	2.80	13.10	0.09	2.0	0.060	2.81	39.0	5.5	0.22	80	1.05	0.06	6.4	0.8
W602565		131.0	3.78	17.40	0.12	0.9	0.094	3.56	27.0	23.0	0.75	682	1.71	0.19	6.0	2.4
W602566		54.5	2.98	17.40	0.12	1.1	0.057	2.86	26.4	12.2	0.78	302	1.77	2.09	7.4	2.5
W602567		37.5	3.31	16.40	0.13	1.1	0.050	2.72	26.0	11.9	0.81	283	1.14	1.93	6.9	2.4
W602568		28.6	3.27	16.30	0.13	1.1	0.050	2.70	24.6	12.8	0.79	348	1.47	1.74	6.7	2.2
W602569		6730	6.13	12.90	0.08	1.8	0.465	1.19	9.3	12.6	1.16	1800	24.0	1.71	3.6	30.3
W602570		63.6	4.00	16.75	0.12	1.1	0.057	3.03	26.2	17.5	0.73	322	2.57	1.03	5.9	3.6
W602571		25.3	4.06	15.70	0.12	1.1	0.096	3.20	27.5	8.1	0.69	299	4.09	0.96	5.0	2.0
W602572		21.5	5.46	14.60	0.12	0.9	0.160	3.33	25.5	6.4	0.81	363	3.84	0.21	3.8	2.8
W602573		14.7	4.21	15.25	0.12	1.1	0.090	3.34	19.8	11.6	0.68	342	2.03	0.71	4.1	2.2
W602574		14.7	7.67	14.35	0.11	1.2	0.068	3.66	7.3	9.3	0.79	324	7.97	0.19	3.3	3.5
W602575		1185	9.18	14.25	0.09	0.9	1.570	2.60	16.6	14.7	0.66	2240	17.40	0.06	4.9	14.2
W602576		48.9	5.89	15.20	0.08	1.0	0.110	3.38	7.8	9.5	0.61	246	3.75	0.08	2.8	2.3
W602577		51.4	4.53	13.90	0.12	1.2	0.137	3.24	21.8	14.1	0.83	457	5.14	0.06	3.6	2.6
W602578		99.0	5.88	14.45	0.12	1.1	0.180	3.42	21.0	6.6	0.79	895	3.93	0.05	3.8	2.3
W602579		124.5	4.62	15.20	0.13	1.1	0.195	3.22	28.3	12.2	0.74	709	1.18	0.04	4.6	2.6
W602580		322	3.11	17.70	0.12	1.2	0.158	3.38	27.4	10.9	0.72	610	1.20	0.04	7.2	3.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254228

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602541		540	34.0	138.5	<0.002	8.76	2.20	8.0	5	10.3	27.0	0.34	2.03	9.45	0.139	1.73
W602542		570	24.4	117.0	<0.002	1.58	1.03	9.8	1	2.9	248	0.58	0.31	12.60	0.227	1.62
W602543		540	30.1	149.5	<0.002	4.67	0.98	9.3	3	5.7	96.2	0.54	0.39	11.50	0.188	1.84
W602544		610	26.6	99.7	<0.002	1.11	0.79	11.5	1	3.4	408	0.52	0.10	10.30	0.250	1.35
W602545		570	24.6	137.5	<0.002	3.28	0.93	10.5	1	7.3	217	0.42	0.34	10.95	0.199	1.67
W602546		80	0.6	1.2	<0.002	0.02	0.07	0.2	1	<0.2	77.5	<0.05	<0.05	0.11	0.006	<0.02
W602547		560	43.8	126.0	<0.002	4.28	1.05	9.4	2	5.0	269	0.44	0.23	10.95	0.193	1.43
W602548		580	43.9	95.2	<0.002	1.72	0.76	10.1	1	3.5	794	0.52	0.21	9.50	0.226	1.28
W602549		580	39.7	117.5	<0.002	2.56	0.77	10.0	1	4.9	291	0.48	0.33	11.05	0.207	1.38
W602550		550	44.5	99.6	<0.002	1.86	0.73	9.0	1	3.6	384	0.50	0.09	10.00	0.211	1.25
W602551		550	53.9	144.5	<0.002	3.34	1.32	9.5	1	4.9	129.0	0.36	0.26	10.85	0.169	1.78
W602552		570	28.9	114.5	<0.002	1.99	1.05	9.4	1	5.2	311	0.48	0.23	10.70	0.203	1.63
W602553		550	42.0	147.0	<0.002	5.50	1.01	11.0	2	6.7	174.0	0.32	0.42	10.75	0.146	1.83
W602554		570	16.4	140.5	<0.002	2.71	1.59	10.5	1	8.9	280	0.42	0.40	11.70	0.179	1.65
W602555		530	20.6	152.5	<0.002	6.34	5.57	8.9	1	9.4	107.0	0.25	0.79	9.63	0.126	1.91
W602556		550	19.1	153.5	<0.002	5.39	7.35	9.9	2	9.3	106.5	0.28	1.00	10.60	0.131	2.03
W602557		500	24.7	154.0	<0.002	4.68	9.81	8.4	1	13.6	42.7	0.23	0.29	10.75	0.111	2.08
W602558		490	23.8	142.0	<0.002	4.14	12.15	8.0	2	7.5	62.5	0.29	0.36	12.10	0.144	2.01
W602559		560	34.4	113.5	<0.002	1.13	3.00	10.5	1	3.6	358	0.54	0.09	11.70	0.231	1.70
W602560		580	201	158.5	<0.002	2.16	52.3	10.0	1	8.1	66.3	0.49	0.09	12.90	0.209	2.48
W602561		560	230	212	<0.002	8.83	9.40	10.8	3	12.6	26.8	0.22	0.32	10.70	0.117	2.07
W602562		580	233	216	<0.002	9.32	9.18	11.1	2	13.0	26.9	0.23	0.33	11.15	0.127	2.10
W602563		550	168.5	187.0	<0.002	5.53	8.16	10.1	1	13.8	13.1	0.30	0.29	11.05	0.160	1.70
W602564		70	35.3	141.5	<0.002	2.81	3.06	1.8	2	9.9	8.9	1.24	0.32	40.4	0.021	1.51
W602565		590	24.4	161.5	<0.002	2.47	4.16	10.2	1	3.8	93.3	0.38	0.23	12.95	0.201	2.74
W602566		590	25.4	107.5	<0.002	0.78	1.77	10.3	1	3.6	394	0.53	0.15	12.60	0.249	1.47
W602567		570	26.2	99.9	<0.002	1.34	0.75	9.8	1	3.7	767	0.53	0.17	14.15	0.236	1.35
W602568		600	24.1	99.2	<0.002	1.11	0.85	10.0	2	3.6	1170	0.52	0.06	12.80	0.232	1.43
W602569		490	>10000	29.9	0.012	2.47	478	12.3	2	2.1	204	0.23	1.22	2.02	0.265	0.50
W602570		590	35.7	126.5	<0.002	2.77	1.17	10.4	2	6.8	592	0.46	0.17	13.15	0.203	1.54
W602571		560	42.1	143.5	<0.002	3.46	0.83	10.0	3	6.9	1265	0.39	0.27	12.75	0.173	1.69
W602572		560	26.3	152.5	<0.002	5.04	1.08	9.7	3	7.2	143.5	0.30	0.17	12.65	0.141	1.92
W602573		540	27.1	138.0	<0.002	3.62	1.21	9.4	2	5.1	214	0.33	0.12	12.85	0.148	1.76
W602574		510	114.0	147.0	<0.002	8.18	1.99	8.9	4	6.1	90.9	0.27	0.79	11.25	0.118	1.86
W602575		460	1620	140.5	0.003	7.87	107.5	8.1	2	11.1	61.9	0.37	0.78	7.83	0.167	2.16
W602576		500	29.0	144.0	<0.002	6.18	2.09	9.3	3	8.9	41.6	0.24	0.41	10.45	0.113	1.61
W602577		520	37.2	149.5	<0.002	4.27	2.96	8.8	3	6.0	68.7	0.35	0.29	15.05	0.114	1.96
W602578		530	25.7	156.5	<0.002	5.73	3.52	9.2	3	8.4	50.5	0.31	0.41	12.20	0.135	2.20
W602579		560	33.3	162.0	<0.002	3.76	7.59	9.3	2	5.4	72.7	0.39	0.22	13.60	0.158	2.40
W602580		590	33.2	158.0	<0.002	1.83	23.0	10.3	1	5.2	58.0	0.68	0.20	14.65	0.210	2.71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254228

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602541		5.3	54	11.7	13.1	91	23.7	0.445
W602542		4.5	63	5.8	14.5	73	30.0	0.022
W602543		4.7	60	18.4	14.5	78	27.2	0.041
W602544		3.2	72	4.9	14.3	85	25.4	0.035
W602545		3.4	63	7.0	14.2	73	32.9	0.111
W602546		0.1	1	<0.1	2.1	3	1.8	<0.005
W602547		4.0	64	12.1	13.4	103	23.5	0.047
W602548		3.8	66	5.2	12.3	115	27.1	0.024
W602549		3.4	65	7.7	14.0	121	26.3	0.125
W602550		3.9	63	5.7	13.1	118	24.9	0.018
W602551		3.7	60	5.5	12.8	161	25.0	0.101
W602552		4.1	65	3.1	11.9	88	26.9	0.104
W602553		3.5	63	6.2	12.3	74	24.1	0.368
W602554		4.4	65	2.7	11.7	65	25.1	0.112
W602555		3.5	59	5.0	9.9	69	22.8	0.072
W602556		3.4	61	5.1	10.2	61	25.3	0.073
W602557		4.9	59	5.2	9.3	70	21.8	0.826
W602558		3.5	56	5.5	10.0	84	22.5	0.052
W602559		3.6	65	1.8	13.4	94	26.4	0.055
W602560		7.7	63	4.2	13.0	642	25.6	0.107
W602561		6.5	67	7.6	8.6	115	21.6	0.529
W602562		6.4	69	7.6	8.9	116	21.4	0.557
W602563		2.2	65	11.7	7.1	88	21.4	0.483
W602564		4.3	8	9.8	6.0	29	41.5	0.092
W602565		4.3	65	5.2	13.0	108	25.7	0.025
W602566		3.5	68	1.4	15.0	79	27.9	0.193
W602567		4.1	66	1.7	14.2	75	27.3	0.030
W602568		3.5	67	1.1	13.0	86	25.8	0.049
W602569		1.4	85	0.6	15.6	5390	59.7	0.256
W602570		4.2	67	5.9	14.6	86	29.2	0.069
W602571		4.4	64	8.9	13.4	76	27.2	0.039
W602572		4.3	61	11.3	13.4	54	23.4	0.027
W602573		4.6	57	8.0	11.4	57	27.4	0.013
W602574		3.7	56	11.6	7.1	179	26.1	0.024
W602575		5.1	56	7.1	9.0	3300	24.7	1.615
W602576		3.1	63	13.8	5.2	70	24.4	0.068
W602577		4.6	57	6.3	8.4	83	28.4	0.061
W602578		5.2	60	11.8	11.4	67	27.0	0.053
W602579		5.7	60	10.4	13.7	121	26.7	0.052
W602580		10.6	65	5.5	14.6	165	27.6	0.041

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254228

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19254230

Project: Klaza

P.O. No.: 19-104

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254230

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W602661		6.03			0.07	7.88	4.4	2190	1.48	0.25	2.87	0.20	53.4	7.8	13	6.68
W602662		6.08			0.08	7.86	4.8	2380	1.58	0.77	3.00	0.17	47.7	8.3	15	9.39
W602663		5.80			0.08	7.63	5.5	2530	1.57	0.41	3.11	0.20	44.5	8.9	18	9.57
W602664		5.35			0.18	7.72	7.9	2660	1.53	0.57	2.79	0.18	49.5	9.9	12	8.90
W602665		3.29			2.94	7.64	27.3	270	1.39	14.05	2.17	0.21	45.5	8.6	11	8.74
W602666		4.40			0.15	7.43	8.3	2500	1.38	0.91	2.63	0.33	43.8	8.1	13	9.30
W602667		<0.02			0.15	7.70	8.4	2590	1.48	0.91	2.73	0.40	47.8	8.0	12	9.31
W602668		4.01			0.14	7.56	8.6	2390	1.56	0.79	2.16	0.25	54.2	7.5	12	9.28
W602669		4.45			0.14	7.93	7.1	2270	1.50	0.54	2.68	0.22	51.4	8.4	12	10.95
W602670		4.39			0.31	7.63	18.4	2460	1.41	0.83	2.29	1.67	51.7	9.8	12	14.40
W602671		3.94			0.11	7.67	5.8	1610	1.57	0.43	2.50	0.37	49.9	7.7	11	21.0
W602672		5.36			0.26	7.68	7.8	1870	1.49	0.81	2.23	0.40	48.2	6.7	11	19.05
W602673		3.02			2.97	7.51	103.5	600	1.46	4.31	1.87	2.74	55.6	9.2	8	21.9
W602674		2.11			5.77	7.23	127.5	330	1.50	10.85	1.62	1.81	52.3	8.5	9	18.90
W602675		5.39			0.14	7.74	5.9	3120	1.65	0.55	2.62	0.45	49.2	7.0	13	13.60
W602676		4.99			0.36	7.51	21.7	2270	1.61	0.86	2.46	0.38	47.1	10.2	12	12.25
W602677		5.29			0.18	7.63	7.8	2250	1.69	0.52	2.46	0.24	48.0	7.5	15	12.05
W602678		5.76			0.20	7.53	7.9	2190	1.69	0.54	2.43	0.30	47.8	7.9	14	11.40
W602679		0.26	101	1.000	>100	5.47	251	610	0.72	5.34	1.44	24.0	18.95	11.8	63	0.86
W602680		5.29			0.20	7.41	8.6	2270	1.66	0.77	2.53	0.29	43.3	7.1	13	12.15
W602681		4.78			0.86	7.15	57.2	2930	1.79	1.18	2.81	1.34	43.4	9.6	12	21.5
W602682		2.12			22.3	6.31	1090	750	1.43	15.65	0.86	3.03	43.8	8.0	8	13.05
W602683		3.24			0.26	7.45	10.3	2940	1.60	0.52	2.39	0.41	46.6	7.8	10	19.80
W602684		4.79			0.47	7.27	28.2	1210	1.50	1.11	2.31	1.33	46.2	7.3	10	21.2
W602685		4.47			0.09	7.64	6.3	2290	1.61	0.54	2.32	0.19	46.3	7.6	10	16.20
W602686		5.07			0.01	0.12	<0.2	30	0.10	11.15	31.9	0.02	0.91	0.6	2	0.08
W602687		4.70			0.12	7.56	9.0	2270	1.52	0.58	2.65	0.25	46.5	7.5	11	16.25
W602688		4.96			0.16	7.53	10.2	2560	1.59	0.76	2.55	0.20	45.7	6.9	10	18.55
W602689		5.17			0.65	7.54	15.8	2130	1.48	1.30	2.61	0.31	49.9	8.7	12	15.40
W602690		4.72			0.20	7.70	5.2	2490	1.56	0.46	2.80	1.42	51.2	7.5	15	10.30
W602691		2.02			2.54	7.10	123.0	850	1.61	3.82	1.86	2.31	47.7	7.3	10	17.75
W602692		3.78			0.26	7.50	7.3	2760	1.59	1.13	2.27	0.26	99.0	6.9	14	12.10
W602693		4.90			0.34	7.22	16.1	3160	1.64	0.78	2.58	1.71	45.0	6.7	12	18.35
W602694		2.85			0.93	7.60	36.5	710	1.59	2.58	1.34	2.80	53.0	12.5	10	13.15
W602695		0.26			40.2	5.75	2620	1190	1.09	36.4	1.68	42.6	34.1	16.7	23	10.00
W602696		3.58			1.54	7.21	55.7	330	1.42	3.85	0.65	1.06	53.8	8.0	9	9.75
W602697		4.40			2.07	7.37	132.0	220	1.47	4.92	0.81	1.16	49.5	8.4	9	8.54
W602698		4.40			0.25	7.27	9.5	2170	1.64	0.90	2.50	0.38	45.2	8.2	10	15.85
W602699		5.30			0.23	7.26	11.9	2340	1.61	0.82	2.53	0.41	47.0	7.4	13	16.75
W602700		5.30			0.14	7.10	11.6	2770	1.59	0.61	2.76	0.34	41.3	7.6	13	20.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254230

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602661		10.2	3.24	16.85	0.12	1.2	0.048	2.51	27.4	9.2	0.93	519	1.09	2.40	8.6	2.8
W602662		29.7	3.43	17.80	0.13	1.2	0.059	2.44	23.8	10.8	0.92	519	0.87	2.36	8.8	3.1
W602663		20.0	3.31	18.10	0.13	1.1	0.050	2.47	22.0	10.6	0.89	521	1.77	2.32	8.8	3.1
W602664		61.6	3.28	17.25	0.13	1.2	0.069	2.65	26.0	9.6	0.97	530	1.71	2.31	8.5	3.0
W602665		217	5.85	17.95	0.12	1.2	0.115	2.88	22.7	9.5	0.87	533	1.89	1.36	7.9	3.0
W602666		37.7	3.45	17.15	0.12	1.3	0.084	2.52	22.6	11.3	1.02	483	2.57	2.15	8.5	3.0
W602667		39.7	3.57	17.50	0.15	1.3	0.081	2.55	24.2	11.6	1.05	499	2.18	2.23	8.5	2.9
W602668		38.3	3.03	17.90	0.15	1.6	0.066	2.70	29.4	11.3	0.92	410	2.02	2.35	8.6	2.9
W602669		23.4	3.27	18.10	0.14	1.6	0.051	2.61	26.4	12.2	0.94	477	2.40	2.34	8.9	3.0
W602670		35.4	3.15	16.55	0.14	1.6	0.072	2.70	28.4	10.2	0.83	364	1.44	1.90	8.0	2.7
W602671		39.1	3.07	17.30	0.14	1.9	0.058	2.61	25.8	12.0	0.72	412	1.80	2.00	9.1	2.9
W602672		32.3	3.02	16.80	0.14	1.6	0.074	2.66	25.0	10.8	0.74	349	2.80	1.82	8.4	2.7
W602673		189.0	5.25	17.25	0.12	1.5	0.209	3.19	30.6	13.0	0.77	1060	1.10	0.11	7.2	2.9
W602674		391	5.87	15.75	0.13	1.3	0.262	3.25	28.9	10.1	0.74	979	1.04	0.09	6.0	4.7
W602675		16.6	3.08	16.50	0.14	1.4	0.053	2.80	25.3	13.5	0.87	501	1.74	2.22	8.1	3.0
W602676		50.1	3.38	17.00	0.13	1.4	0.164	3.05	24.4	12.4	0.84	515	3.61	1.85	7.8	2.9
W602677		28.6	3.10	16.55	0.15	1.4	0.057	2.64	25.6	15.0	0.89	434	4.34	2.30	8.1	2.9
W602678		25.6	2.99	16.75	0.14	1.4	0.062	2.70	25.1	16.6	0.90	445	1.76	2.23	7.9	2.7
W602679		6260	5.72	11.95	0.10	1.4	0.444	1.12	9.0	13.2	1.12	1710	20.5	1.63	3.2	27.7
W602680		41.6	2.83	16.80	0.14	1.5	0.057	2.69	21.5	13.1	0.86	452	1.32	2.24	8.4	2.6
W602681		44.0	3.10	16.95	0.14	1.4	0.069	3.14	21.9	12.1	0.81	1170	1.10	1.18	8.0	3.3
W602682		2870	8.30	15.25	0.13	1.2	1.205	3.01	23.1	7.7	0.56	1270	2.05	0.04	5.5	2.6
W602683		25.2	3.07	16.90	0.14	1.6	0.052	2.85	24.0	25.6	0.62	467	1.08	0.93	8.4	2.6
W602684		26.4	3.18	15.65	0.14	1.4	0.042	2.20	24.3	43.2	0.78	884	1.15	0.12	7.4	2.3
W602685		19.4	3.11	17.10	0.13	1.5	0.046	2.60	24.0	22.4	0.73	380	11.95	1.44	8.2	2.7
W602686		2.3	0.09	0.40	0.10	0.1	<0.005	0.03	1.0	1.0	1.36	97	0.05	0.05	0.2	0.3
W602687		13.4	3.12	16.30	0.15	1.4	0.050	2.59	24.6	15.6	0.85	458	12.30	2.04	8.2	2.9
W602688		21.0	3.12	16.40	0.15	1.4	0.051	2.76	23.8	13.8	0.79	492	5.43	1.77	7.6	2.5
W602689		25.6	3.42	16.40	0.15	1.5	0.064	2.82	26.4	19.3	0.82	561	1.36	1.64	8.0	2.8
W602690		15.9	3.06	16.95	0.16	1.3	0.088	2.76	27.0	11.7	0.88	609	1.27	2.12	8.1	2.9
W602691		32.4	4.38	15.45	0.14	1.2	0.198	3.27	26.0	8.4	0.75	1540	1.03	0.18	6.5	2.8
W602692		16.4	3.02	15.90	0.17	1.5	0.067	2.75	55.6	11.1	0.75	430	2.05	1.99	7.7	2.7
W602693		29.4	3.01	16.45	0.14	1.3	0.064	2.93	22.1	10.8	0.72	706	3.75	1.51	7.9	2.5
W602694		29.2	4.48	17.25	0.14	1.3	0.218	3.71	28.2	10.7	0.62	930	2.43	0.12	5.4	2.6
W602695		1180	9.04	13.20	0.11	0.7	1.505	2.61	18.2	15.5	0.68	2270	15.95	0.06	4.4	13.8
W602696		23.2	4.74	16.40	0.13	1.3	0.197	3.23	29.5	24.6	0.56	885	1.36	0.05	5.0	2.6
W602697		42.5	5.19	17.40	0.12	1.2	0.237	3.34	26.5	25.9	0.58	502	4.47	0.05	4.8	2.6
W602698		23.6	3.32	16.20	0.14	1.4	0.096	2.82	23.5	12.6	0.77	481	1.57	1.71	7.7	2.6
W602699		17.7	3.05	15.85	0.14	1.3	0.066	2.66	24.3	11.9	0.78	412	0.98	1.95	7.6	2.7
W602700		21.3	2.97	16.00	0.14	1.3	0.047	2.65	20.7	14.3	0.70	473	1.15	1.57	7.8	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254230

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602661		680	18.2	93.2	<0.002	0.15	0.92	11.2	1	2.1	423	0.66	0.05	12.60	0.293	1.02
W602662		720	15.8	90.0	<0.002	0.23	1.32	12.0	1	2.3	423	0.61	0.34	11.05	0.310	1.09
W602663		700	15.8	83.7	0.002	0.34	1.35	11.4	1	2.3	426	0.59	0.15	10.00	0.299	1.05
W602664		700	18.4	86.6	<0.002	0.44	1.97	11.1	1	2.6	413	0.61	0.23	10.70	0.305	1.17
W602665		660	36.2	135.0	<0.002	3.81	2.30	12.0	2	6.6	235	0.56	1.92	11.10	0.270	1.57
W602666		680	18.1	93.1	<0.002	0.66	1.98	11.3	1	2.8	372	0.61	0.35	10.75	0.295	1.16
W602667		720	18.5	93.1	<0.002	0.71	2.07	11.6	1	2.7	387	0.61	0.35	11.30	0.298	1.15
W602668		630	21.3	110.0	<0.002	0.60	2.04	11.3	1	2.8	346	0.64	0.31	13.75	0.271	1.27
W602669		680	19.1	100.5	<0.002	0.56	3.78	12.1	1	2.7	348	0.65	0.17	12.85	0.299	1.20
W602670		640	70.0	123.0	<0.002	1.09	3.03	10.7	1	2.9	312	0.60	0.20	13.90	0.260	1.41
W602671		650	21.0	105.0	<0.002	0.58	2.95	11.5	1	2.6	313	0.75	0.07	13.50	0.279	1.29
W602672		630	23.5	111.5	0.003	1.14	3.15	11.0	2	3.4	267	0.66	0.20	12.85	0.261	1.53
W602673		580	106.0	182.0	<0.002	3.63	26.2	11.1	2	6.0	58.7	0.55	1.03	13.65	0.229	2.69
W602674		570	105.5	176.5	<0.002	4.56	43.0	10.3	1	6.9	45.0	0.49	1.61	12.05	0.201	2.40
W602675		680	29.0	105.0	<0.002	0.32	2.39	12.5	<1	2.3	374	0.62	0.16	11.80	0.282	1.29
W602676		650	32.5	126.0	<0.002	1.05	2.35	11.6	<1	3.3	300	0.59	0.21	11.20	0.260	1.71
W602677		660	20.2	104.5	0.004	0.67	1.73	11.8	1	2.6	333	0.62	0.16	12.30	0.267	1.28
W602678		650	23.1	101.0	<0.002	0.65	1.32	11.7	1	2.7	335	0.62	0.18	12.30	0.262	1.24
W602679		460	>10000	27.8	0.010	2.38	455	12.1	2	1.9	191.0	0.21	1.21	1.89	0.238	0.47
W602680		640	24.5	101.5	<0.002	0.44	2.02	11.5	1	2.4	343	0.65	0.33	11.20	0.265	1.36
W602681		620	177.5	125.0	<0.002	1.12	4.84	11.1	1	2.7	276	0.62	0.28	10.60	0.259	2.14
W602682		490	271	199.0	<0.002	7.99	142.0	8.7	1	10.5	24.3	0.44	1.12	10.35	0.175	2.39
W602683		640	59.7	102.0	<0.002	0.58	6.78	11.1	1	2.6	233	0.68	0.10	12.25	0.261	1.45
W602684		610	27.2	86.5	<0.002	1.41	15.05	9.9	1	2.8	117.5	0.59	0.16	11.85	0.242	1.39
W602685		660	18.3	99.1	0.004	0.79	5.05	11.9	1	2.7	244	0.62	0.10	11.90	0.269	1.22
W602686		70	1.3	0.9	<0.002	0.01	0.81	0.2	2	<0.2	77.7	<0.05	0.05	0.34	<0.005	<0.02
W602687		630	20.2	98.4	0.005	0.75	1.91	11.5	1	2.4	314	0.62	0.10	11.90	0.259	1.22
W602688		640	19.8	108.5	0.002	1.29	3.30	11.2	1	3.2	256	0.60	0.19	11.55	0.249	1.54
W602689		640	34.6	110.0	<0.002	1.28	2.41	11.2	1	2.7	349	0.64	0.13	12.65	0.253	1.37
W602690		650	24.2	101.5	<0.002	0.21	1.57	11.7	1	2.1	384	0.58	<0.05	12.20	0.270	1.23
W602691		570	125.0	183.0	<0.002	2.75	5.96	10.9	1	5.0	98.6	0.49	0.15	10.85	0.221	2.48
W602692		620	23.2	121.0	<0.002	1.05	2.91	10.5	1	2.3	386	0.65	0.26	13.15	0.252	1.57
W602693		640	42.4	115.0	<0.002	0.67	5.52	11.2	1	2.6	297	0.61	0.25	10.95	0.257	1.93
W602694		610	57.3	194.0	0.004	2.89	5.86	11.4	1	6.7	77.3	0.44	0.59	12.05	0.187	2.64
W602695		450	1670	141.0	0.002	7.98	103.0	7.6	2	9.9	61.3	0.34	0.82	8.12	0.159	1.96
W602696		580	66.6	190.5	<0.002	3.32	12.55	10.2	1	6.8	40.7	0.41	0.54	12.40	0.169	2.56
W602697		590	82.0	208	0.012	4.13	16.30	11.0	1	11.4	39.1	0.38	0.99	11.95	0.168	2.28
W602698		610	25.1	107.0	<0.002	0.67	3.23	11.1	1	3.1	286	0.59	0.16	11.10	0.250	1.51
W602699		630	25.9	108.5	<0.002	0.62	2.32	11.1	1	3.3	334	0.58	0.20	11.65	0.254	1.47
W602700		620	20.2	91.5	<0.002	0.54	3.64	11.0	1	3.1	309	0.61	0.19	10.75	0.258	1.34

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19254230

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602661		4.0	79	0.9	18.9	44	32.1	0.006
W602662		3.5	85	0.8	18.2	41	32.8	0.058
W602663		3.1	81	1.1	17.6	40	32.9	0.027
W602664		4.1	81	1.0	17.5	49	33.6	0.039
W602665		3.7	79	2.1	17.1	69	35.5	3.53
W602666		3.1	81	1.0	17.2	56	36.8	0.079
W602667		3.2	82	1.0	17.8	63	38.6	0.060
W602668		4.5	72	0.9	18.7	40	46.3	0.027
W602669		3.9	80	3.3	18.5	48	47.7	0.016
W602670		4.4	72	2.0	15.9	178	46.9	0.039
W602671		4.3	77	1.6	17.6	62	54.5	0.024
W602672		3.9	72	1.4	15.6	63	47.9	0.041
W602673		6.1	68	4.0	16.8	244	44.6	0.821
W602674		5.5	67	3.4	14.5	199	41.1	1.280
W602675		3.5	76	1.2	17.4	77	44.3	0.017
W602676		4.0	76	1.5	16.2	87	43.0	0.036
W602677		4.0	77	1.1	17.4	62	43.7	0.043
W602678		3.8	75	1.7	17.1	69	45.1	0.039
W602679		1.3	81	0.6	13.8	5210	49.6	0.289
W602680		4.4	74	1.2	16.4	68	44.1	0.030
W602681		4.1	73	2.4	15.1	149	45.3	0.329
W602682		3.9	58	5.8	11.3	273	36.9	1.940
W602683		4.2	73	2.2	16.3	67	47.2	0.013
W602684		4.0	68	3.3	14.1	146	42.9	0.039
W602685		3.6	75	2.1	15.7	46	45.2	0.023
W602686		0.3	1	<0.1	1.9	4	1.9	<0.005
W602687		4.2	73	1.3	15.1	49	43.2	0.019
W602688		4.6	70	1.1	14.8	46	42.7	0.036
W602689		4.3	73	1.4	16.2	66	44.3	0.022
W602690		3.8	75	0.6	18.1	137	44.6	0.008
W602691		4.8	69	3.9	12.8	254	38.5	0.196
W602692		5.2	75	1.2	16.6	65	44.8	0.124
W602693		4.3	75	1.4	15.3	191	40.7	0.024
W602694		4.7	72	4.1	13.8	493	40.1	0.056
W602695		5.1	56	6.3	9.0	3390	22.8	1.745
W602696		5.8	65	5.5	12.0	187	40.1	0.070
W602697		4.4	69	5.6	10.6	174	39.6	0.363
W602698		4.0	71	1.1	15.3	77	43.2	0.024
W602699		4.0	74	1.3	15.7	61	42.2	0.057
W602700		4.1	73	1.3	15.2	60	42.4	0.011

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19254230

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255737

Project: Klaza

P.O. No.: 19-122

This report is for 37 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255737

Sample Description	Method	WEI-21	As-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594401		2.79		1.34	7.74	19.2	2130	1.62	1.39	1.24	2.53	52.0	4.4	10	13.80	26.9
W594402		5.46		0.29	7.21	11.7	2240	1.69	0.34	2.88	0.86	39.9	5.6	14	6.58	14.1
W594403		4.66		0.66	7.21	15.9	2210	1.58	0.65	2.42	1.12	37.6	5.0	12	8.88	84.5
W594404		6.64		7.35	7.06	2750	1380	1.56	5.25	2.37	1.16	45.7	6.2	11	10.55	65.8
W594405		4.93		0.65	7.25	37.5	2370	1.73	1.08	2.32	0.85	43.5	6.3	11	9.60	36.7
W594406		5.12		0.02	0.14	0.8	30	0.09	0.03	31.9	<0.02	1.13	0.6	2	0.06	2.2
W594407		5.67		0.38	7.74	13.5	2160	1.48	1.94	2.13	0.18	50.6	5.8	10	13.75	33.1
W594408		2.25		0.11	7.58	20.7	2180	1.53	0.36	2.32	0.10	45.3	7.2	10	12.45	14.2
W594409		3.30		0.11	7.31	8.0	2340	1.58	0.25	2.76	0.14	42.1	6.6	13	7.53	6.4
W594410		4.89		0.36	7.68	13.2	2350	1.64	0.60	2.86	0.52	40.1	6.0	12	8.67	12.3
W594411		4.92		10.30	7.59	56.6	2590	1.60	18.30	2.68	0.65	42.1	5.5	12	10.45	118.5
W594412		<0.02		9.43	7.51	52.7	2610	1.62	8.43	2.71	0.69	42.6	5.4	11	10.75	111.0
W594413		4.91		0.59	7.81	22.7	2580	1.48	0.84	2.85	0.29	45.9	6.9	12	7.71	60.1
W594414		2.81	1.060	10.10	7.30	>10000	550	1.31	16.80	1.47	7.01	43.7	7.3	17	10.00	226
W594415		5.16		0.23	8.01	23.1	2540	1.64	0.29	2.95	0.24	48.9	8.1	12	8.25	14.6
W594416		4.59		0.14	7.45	14.8	2260	1.56	0.22	2.73	0.18	39.8	7.6	12	13.50	17.1
W594417		2.31		0.40	7.61	14.6	2280	1.44	0.30	2.87	0.61	42.4	7.0	12	11.85	16.4
W594418		2.82		0.64	7.52	15.6	2320	1.41	0.46	2.84	0.48	45.1	7.1	13	12.55	14.9
W594419		5.04		0.27	7.43	13.3	2200	1.43	0.47	2.68	0.28	43.7	9.8	12	9.01	10.2
W594420		2.58		0.81	7.01	41.8	1330	1.36	1.66	3.10	3.59	45.0	7.5	10	11.30	12.1
W594421		4.58		0.24	7.90	20.0	2360	1.58	2.16	3.05	0.23	43.9	6.6	13	15.00	22.4
W594422		4.54		0.14	7.51	9.8	2300	1.48	0.47	2.84	0.13	44.5	7.1	11	11.95	15.1
W594423		2.48		0.12	7.89	10.1	2300	1.52	0.29	2.50	0.17	43.0	9.9	11	13.90	7.8
W594424		4.98		0.29	7.39	20.0	2620	1.47	0.85	2.24	0.25	36.5	7.2	9	18.00	49.0
W594425		3.51		1.00	7.63	69.1	2300	1.32	1.42	1.91	1.78	42.5	7.5	10	15.25	82.3
W594426		3.43		0.44	7.18	17.9	1990	1.50	1.10	2.84	0.23	36.6	6.3	10	11.50	113.0
W594427		0.26		40.8	5.90	2660	480	1.07	35.4	1.69	46.1	35.5	16.5	23	10.55	1200
W594428		5.50		0.45	7.49	62.4	2390	1.45	1.18	2.48	1.89	43.5	6.8	14	13.45	55.8
W594429		5.13		0.25	7.26	13.4	2110	1.46	0.65	2.72	0.43	43.1	6.3	10	12.10	23.1
W594430		5.15		0.22	7.67	20.4	2500	1.64	0.72	2.71	0.24	43.7	6.8	11	12.80	38.2
W594431		2.22		0.19	7.76	11.2	2350	1.55	0.53	2.67	0.19	43.7	4.9	12	10.90	20.2
W594432		4.39		0.28	7.26	40.6	2670	1.40	1.11	2.33	0.29	38.3	5.8	10	15.20	48.3
W594433		5.14		0.26	8.13	29.1	2110	1.26	2.33	1.30	0.20	52.0	6.9	10	13.20	23.7
W594497		3.60		0.41	7.42	12.2	2320	1.58	0.53	2.46	0.78	45.4	5.7	11	8.32	29.3
W594498		4.54		0.94	7.14	33.9	2580	1.43	1.32	1.92	0.34	38.5	6.4	9	12.70	126.0
W594499		4.66		1.76	6.96	46.0	2520	1.53	3.17	1.95	0.40	39.8	6.6	9	15.40	78.6
W594500		0.26		40.8	5.76	2600	310	0.97	34.5	1.65	47.0	34.3	17.1	23	10.65	1190

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255737

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594401		2.53	16.20	0.13	1.0	0.159	2.72	26.3	19.6	0.47	567	1.43	1.74	8.8	2.5	690
W594402		2.87	16.55	0.13	1.0	0.072	2.64	19.6	9.5	0.79	690	0.87	2.43	8.5	2.5	630
W594403		2.91	15.95	0.13	1.1	0.133	2.62	18.6	12.4	0.77	652	0.80	2.04	8.1	2.3	600
W594404		3.72	16.05	0.14	1.0	0.174	2.85	23.3	11.2	0.64	786	1.97	1.34	7.6	2.4	580
W594405		3.11	16.25	0.15	1.2	0.098	2.71	21.9	13.1	0.82	682	1.13	2.17	8.6	2.6	630
W594406		0.11	0.46	0.10	0.1	<0.005	0.05	1.2	1.1	1.67	105	<0.05	0.07	0.3	0.4	80
W594407		2.62	16.70	0.20	1.2	0.146	2.60	25.1	16.6	0.55	577	1.14	1.67	8.4	2.3	770
W594408		2.82	16.40	0.20	1.2	0.063	2.67	23.3	11.1	0.59	554	1.50	1.57	9.4	2.4	630
W594409		3.11	16.35	0.14	1.2	0.056	2.66	21.0	8.7	0.85	665	1.25	2.37	8.9	2.8	630
W594410		3.02	16.15	0.13	1.3	0.082	2.69	19.9	9.9	0.78	696	1.23	2.64	8.7	3.4	670
W594411		3.02	15.95	0.12	1.3	0.170	2.79	22.2	11.7	0.67	677	1.70	1.94	8.1	3.2	600
W594412		2.96	16.30	0.13	1.2	0.177	2.76	22.5	12.0	0.67	688	1.57	1.98	8.1	2.9	620
W594413		3.17	16.35	0.12	1.1	0.110	2.62	24.2	9.0	0.87	729	5.59	2.29	8.1	2.7	680
W594414		6.35	15.45	0.10	0.9	0.284	3.27	23.4	13.5	0.69	1200	2.05	0.15	6.7	2.6	620
W594415		3.32	17.00	0.12	1.1	0.062	2.70	25.1	11.6	0.90	752	1.61	2.47	8.2	2.9	680
W594416		3.01	16.25	0.11	1.2	0.046	2.62	19.9	12.0	0.77	636	1.79	2.31	8.2	2.7	630
W594417		3.24	16.10	0.12	1.1	0.057	2.67	21.6	9.4	0.76	679	1.10	2.22	7.9	2.8	650
W594418		3.30	16.50	0.12	1.1	0.063	2.67	23.8	9.5	0.75	690	1.10	2.23	7.9	2.8	630
W594419		3.09	16.10	0.13	1.1	0.091	2.64	22.6	9.1	0.78	626	1.53	2.18	8.0	2.7	610
W594420		3.72	15.40	0.11	1.0	0.184	2.85	23.2	10.3	0.78	1000	1.25	1.38	7.4	2.9	590
W594421		3.10	17.10	0.12	1.2	0.172	2.69	21.4	9.9	0.75	771	7.78	2.76	8.4	3.5	860
W594422		2.98	16.25	0.11	1.3	0.069	2.70	22.4	9.1	0.78	691	1.01	2.42	8.2	2.7	620
W594423		2.99	16.15	0.13	1.2	0.057	2.81	22.2	10.9	0.60	639	1.84	2.15	8.1	2.7	640
W594424		2.70	16.20	0.13	1.2	0.106	2.65	18.4	19.6	0.57	635	1.23	0.92	8.0	2.7	630
W594425		3.43	15.95	0.12	1.2	0.136	3.13	22.8	17.7	0.69	1060	2.14	0.48	7.6	2.6	630
W594426		2.70	15.10	0.13	1.1	0.125	2.53	18.5	11.0	0.71	660	5.85	2.03	7.6	2.8	720
W594427		9.37	13.85	0.11	0.9	1.610	2.65	18.7	16.3	0.68	2280	17.85	0.06	4.8	14.7	460
W594428		3.31	16.60	0.11	1.2	0.164	2.95	21.8	16.5	0.77	915	1.58	1.18	7.9	2.7	630
W594429		2.80	16.25	0.13	1.1	0.137	2.66	22.0	17.0	0.77	833	2.17	1.76	7.9	2.6	620
W594430		3.16	16.50	0.13	1.1	0.187	2.69	22.7	11.2	0.77	870	2.03	2.29	8.4	2.7	660
W594431		3.05	16.15	0.13	1.2	0.127	2.65	23.2	11.3	0.79	744	0.95	2.24	8.1	3.0	660
W594432		2.83	16.55	0.11	1.2	0.178	2.63	19.4	28.7	0.59	786	1.42	0.21	8.1	2.2	620
W594433		2.85	17.20	0.11	1.2	0.137	2.96	27.3	23.9	0.49	729	0.93	0.22	8.5	2.1	640
W594497		2.91	16.70	0.13	1.3	0.088	2.65	23.6	10.0	0.73	621	1.46	2.29	8.4	2.5	610
W594498		3.16	15.95	0.12	1.4	0.218	2.63	19.4	20.4	0.67	660	4.19	1.36	8.2	3.0	580
W594499		3.35	16.05	0.11	1.2	0.319	2.36	21.0	20.9	0.67	706	2.06	1.21	7.2	3.3	540
W594500		9.20	14.20	0.11	0.9	1.680	2.60	18.1	16.6	0.66	2250	17.50	0.06	5.0	15.0	460

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255737

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594401		25.5	106.0	<0.002	0.18	8.69	11.1	<1	5.6	161.5	0.63	0.07	14.60	0.252	1.13	3.8
W594402		22.1	80.8	<0.002	0.13	2.10	11.3	1	2.6	400	0.65	<0.05	11.05	0.265	0.83	3.1
W594403		18.1	79.5	<0.002	0.26	2.81	10.2	<1	3.0	313	0.61	0.05	10.95	0.255	0.87	3.1
W594404		104.5	117.0	<0.002	1.65	17.95	10.3	1	2.9	237	0.65	0.22	12.15	0.240	1.39	3.6
W594405		28.0	94.9	<0.002	0.34	3.00	11.3	<1	2.1	338	0.65	0.10	11.40	0.259	1.03	3.4
W594406		0.6	1.3	<0.002	0.01	0.09	0.2	2	<0.2	78.7	<0.05	<0.05	0.14	0.006	0.02	0.2
W594407		18.7	97.5	<0.002	0.16	6.05	11.2	1	3.9	263	0.68	0.43	14.40	0.265	0.95	3.2
W594408		17.8	106.5	<0.002	0.14	4.22	11.3	1	2.6	266	0.73	0.05	12.90	0.269	1.04	4.1
W594409		17.9	91.3	<0.002	0.06	1.65	11.1	<1	1.5	407	0.71	0.06	10.35	0.272	0.95	4.1
W594410		26.1	83.2	<0.002	0.14	2.11	10.5	1	2.8	407	0.81	0.19	12.55	0.288	0.95	4.0
W594411		77.7	100.5	<0.002	0.59	6.76	10.1	1	2.8	346	0.68	4.73	12.10	0.268	1.27	3.9
W594412		48.8	98.9	<0.002	0.53	6.68	10.4	1	2.8	348	0.67	4.48	11.65	0.270	1.22	4.0
W594413		19.9	96.0	0.003	0.31	2.10	11.3	1	2.2	394	0.63	0.23	10.85	0.295	1.02	3.6
W594414		720	197.0	0.002	4.13	52.6	10.3	1	9.9	65.9	0.48	0.62	10.00	0.242	2.03	4.0
W594415		19.6	95.0	<0.002	0.06	1.74	11.3	1	1.5	436	0.66	0.05	13.25	0.295	0.97	3.5
W594416		19.1	84.9	<0.002	0.06	1.90	10.5	1	2.8	400	0.67	<0.05	11.65	0.281	0.94	3.4
W594417		87.5	98.0	<0.002	0.32	1.73	10.8	1	2.9	392	0.65	0.06	11.65	0.278	0.94	3.7
W594418		65.7	96.6	<0.002	0.44	1.81	11.0	1	2.7	395	0.63	0.08	12.10	0.278	0.99	3.8
W594419		32.5	97.2	<0.002	0.40	2.37	10.9	1	1.9	370	0.64	0.09	11.75	0.271	1.00	3.6
W594420		150.5	118.5	<0.002	1.83	4.02	10.2	2	2.6	239	0.60	0.36	12.15	0.255	1.64	4.0
W594421		21.8	82.2	0.008	0.52	3.46	11.0	1	3.8	417	0.71	1.09	13.05	0.289	0.96	3.7
W594422		17.8	85.0	<0.002	0.11	1.37	10.6	1	1.5	411	0.71	<0.05	12.05	0.277	0.88	3.4
W594423		19.8	94.7	<0.002	0.08	4.03	10.8	1	1.6	355	0.66	0.05	13.00	0.281	0.91	3.3
W594424		22.4	91.7	<0.002	0.46	11.90	10.3	1	3.4	201	0.65	0.21	11.40	0.273	1.19	4.0
W594425		175.5	135.5	<0.002	1.24	18.05	10.4	1	3.2	143.0	0.64	0.21	12.05	0.270	1.82	2.9
W594426		21.3	79.2	0.008	0.23	8.87	9.5	1	4.3	332	0.65	0.14	10.70	0.262	0.96	3.3
W594427		1670	147.0	0.003	8.03	107.0	8.3	2	10.7	64.3	0.40	0.74	9.08	0.174	2.18	5.2
W594428		57.8	101.0	<0.002	0.51	5.65	10.4	1	3.0	259	0.64	0.16	11.35	0.276	1.44	3.7
W594429		21.7	88.1	<0.002	0.17	5.38	10.2	<1	2.6	329	0.64	0.08	10.70	0.268	1.20	3.2
W594430		19.9	87.5	<0.002	0.37	4.81	10.9	1	2.1	378	0.70	0.10	13.00	0.293	1.08	3.8
W594431		19.4	84.8	<0.002	0.10	4.24	11.0	1	1.8	405	0.69	0.08	12.60	0.288	0.93	3.2
W594432		18.6	78.5	<0.002	0.35	15.15	10.0	1	3.9	118.0	0.67	0.39	11.65	0.274	1.19	3.2
W594433		20.5	113.5	<0.002	0.43	10.30	11.4	1	2.8	100.5	0.68	1.20	14.65	0.282	1.33	3.9
W594497		24.5	94.1	<0.002	0.18	3.02	10.9	1	3.4	386	0.68	0.05	12.90	0.262	0.98	4.3
W594498		27.8	94.6	<0.002	0.71	20.5	9.8	1	3.0	186.0	0.83	0.18	13.70	0.238	1.15	4.8
W594499		20.7	88.1	0.002	0.79	15.80	9.9	1	3.0	150.0	0.71	1.06	12.10	0.224	1.24	5.0
W594500		1615	146.5	0.002	7.86	109.0	8.5	2	11.0	63.8	0.41	0.75	8.31	0.170	2.16	5.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255737

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594401		71	2.8	15.6	361	30.1	0.731
W594402		75	0.9	16.9	146	31.8	0.012
W594403		71	1.3	15.0	180	30.2	0.011
W594404		66	2.1	15.2	169	28.6	0.942
W594405		71	1.1	16.6	150	33.9	0.010
W594406		1	<0.1	2.3	4	2.0	<0.005
W594407		72	3.1	17.1	57	33.8	0.021
W594408		71	2.2	17.5	61	35.8	0.007
W594409		74	1.0	17.3	52	33.2	0.005
W594410		77	1.1	17.2	80	32.6	0.009
W594411		72	1.3	15.6	90	33.2	0.102
W594412		72	1.4	15.7	92	33.7	0.092
W594413		77	1.7	16.9	63	30.5	0.011
W594414		68	3.9	11.5	654	26.2	1.100
W594415		78	0.9	18.1	62	28.5	0.008
W594416		75	1.7	16.0	51	29.1	0.006
W594417		75	0.8	16.5	99	28.1	0.006
W594418		75	0.9	17.1	82	28.8	0.007
W594419		73	1.0	16.0	61	29.7	0.007
W594420		72	1.4	14.6	349	27.1	0.011
W594421		80	1.5	17.3	57	30.5	0.009
W594422		75	0.6	17.1	42	32.0	0.006
W594423		76	1.1	15.7	46	31.8	0.006
W594424		73	1.8	15.1	51	30.0	0.011
W594425		73	2.4	14.2	187	29.8	0.023
W594426		71	0.8	14.7	56	29.0	0.038
W594427		57	7.1	9.3	3370	23.9	1.695
W594428		74	1.9	14.9	189	29.7	0.047
W594429		73	1.1	15.4	71	27.5	0.011
W594430		79	1.3	17.0	62	26.8	0.010
W594431		79	1.1	15.4	54	28.1	0.008
W594432		71	2.3	13.7	64	27.9	0.017
W594433		72	3.4	15.4	57	30.6	0.009
W594497		70	1.3	16.7	125	35.7	0.008
W594498		65	2.4	14.7	86	33.8	0.015
W594499		68	2.0	14.9	111	31.0	0.033
W594500		56	7.4	9.5	3300	25.1	1.700

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255737

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	As-OG62	Au-AA24	ME-MS61	ME-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255741

Project: Klaza

P.O. No.: 19-115

This report is for 39 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255741

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594451		7.55	0.26	6.42	36.0	1600	1.49	0.28	1.99	0.32	38.5	6.9	11	17.55	40.8	2.71
W594452		4.08	0.13	7.34	12.0	1270	1.25	0.45	1.57	0.11	42.8	7.5	14	12.80	41.9	2.89
W594514		4.85	0.48	6.41	65.7	2120	1.58	0.85	2.38	0.33	42.0	7.5	12	15.45	47.6	3.38
W594515		2.77	18.05	6.51	369	230	1.59	18.00	2.95	1.54	41.0	15.2	10	19.35	3270	6.56
W594516		10.99	0.49	6.49	32.9	2060	1.69	0.83	2.73	0.19	41.4	8.0	11	18.55	69.2	2.92
W594517		8.34	1.70	6.76	99.8	1950	1.67	0.64	2.43	2.60	42.6	10.2	11	16.45	52.1	2.99
W594518		3.34	6.76	5.76	202	440	1.33	1.08	2.67	7.29	40.8	8.8	9	14.40	138.0	3.77
W594519		<0.02	6.39	5.46	201	380	1.23	1.05	2.54	7.76	38.3	8.3	9	13.10	138.0	3.64
W594520		4.36	2.01	6.48	106.5	1030	1.91	0.50	2.26	3.32	39.1	7.5	11	17.90	32.2	3.55
W594521		2.71	36.8	4.66	1195	220	1.02	3.63	3.12	9.16	14.00	26.3	14	11.75	6330	5.16
W594522		9.04	4.51	6.88	278	2260	1.62	0.74	2.45	2.31	40.5	7.5	17	9.32	334	3.26
W594523		4.01	6.76	6.37	144.0	1490	1.57	0.89	2.66	3.12	39.2	11.2	11	14.75	202	3.33
W594524		3.42	0.91	5.85	84.2	1730	1.44	1.10	5.45	0.55	49.9	9.9	13	17.10	171.0	2.80
W594525		4.13	0.48	7.35	25.8	2320	1.55	0.50	2.71	0.16	37.8	7.2	13	12.60	52.6	3.22
W594526		0.26	39.5	5.53	2560	140	1.22	35.9	1.62	43.4	31.5	16.7	24	10.05	1185	8.99
W594527		2.30	2.99	7.43	165.0	920	1.80	1.30	2.08	6.75	51.7	8.8	12	19.20	75.6	4.04
W594528		3.43	0.51	6.89	47.2	2170	1.64	0.81	2.47	0.37	37.7	9.8	12	16.85	89.8	3.10
W594529		1.42	1.40	6.35	137.0	1030	1.67	1.35	3.35	0.38	45.9	9.7	9	21.9	80.0	3.30
W594530		9.55	0.10	6.55	12.9	2120	1.56	0.33	2.54	0.07	38.9	8.8	13	13.15	31.0	3.05
W594531		1.63	0.32	6.66	58.1	1500	1.85	0.49	2.26	0.11	47.6	9.6	10	20.0	36.6	3.48
W594532		4.42	0.12	6.76	15.7	2740	1.54	1.46	2.34	0.05	43.5	7.3	13	7.34	62.8	3.15
W594533		4.53	0.23	6.50	50.6	180	1.55	1.26	2.20	0.06	40.2	8.3	12	14.40	113.5	3.59
W594534		1.70	0.36	7.11	44.8	200	1.57	2.83	2.35	0.09	44.0	11.8	10	15.15	51.8	4.57
W594535		1.40	0.21	6.69	28.9	650	1.56	1.24	2.47	0.07	40.7	7.9	10	16.00	35.8	2.97
W594536		3.46	1.00	6.56	115.5	1200	1.68	1.54	3.28	0.15	43.7	9.6	11	18.50	210	2.88
W594537		8.21	0.11	7.00	23.4	1510	2.22	0.06	4.16	0.19	116.0	16.3	116	12.05	21.7	4.73
W594538		1.68	0.53	6.59	72.1	1680	1.69	0.80	2.69	0.10	39.0	10.5	13	20.3	70.7	2.78
W594539		2.87	2.60	6.49	131.0	890	1.70	2.26	2.27	4.08	42.1	8.4	9	17.20	142.0	3.51
W594540		4.55	0.52	6.50	39.5	2030	1.66	0.71	2.32	0.26	38.3	7.6	13	16.85	61.2	2.70
W594541		2.71	1.42	6.51	86.7	2060	1.48	4.02	2.57	0.30	34.6	6.7	14	15.05	114.0	3.06
W594542		4.22	0.03	0.16	0.3	30	0.09	0.02	32.4	<0.02	1.12	0.8	3	0.07	1.6	0.14
W594543		7.57	0.23	6.77	13.7	2500	1.49	0.64	2.40	0.17	40.1	7.3	12	9.43	71.1	2.88
W594544		2.52	0.30	6.87	37.5	1380	1.26	0.69	2.18	0.11	42.5	11.1	11	12.20	82.9	2.76
W594545		6.45	0.18	6.64	14.9	2650	1.46	0.46	2.42	0.10	38.2	7.7	15	12.10	53.4	3.09
W594546		2.98	0.34	5.88	18.8	1300	1.33	0.49	5.17	0.22	39.8	7.5	11	18.20	31.3	2.75
W594547		8.00	0.22	6.75	16.9	2000	1.66	0.38	2.49	0.17	39.9	8.0	13	12.75	42.8	2.94
W594548		2.37	0.45	6.39	39.9	2730	1.42	0.62	3.72	0.20	44.7	6.6	10	21.6	113.0	3.07
W594549		4.31	0.11	7.11	16.4	2190	1.48	0.61	2.47	0.11	49.1	7.7	12	11.55	50.9	3.29
W594550		0.26	40.3	5.83	2660	350	1.15	36.7	1.68	46.2	38.3	17.9	24	10.85	1235	9.32

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255741

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594451		16.60	0.11	1.0	0.055	2.44	19.7	26.5	0.67	421	0.94	0.07	8.1	2.5	560	16.5
W594452		17.50	0.10	1.1	0.073	2.10	21.4	34.9	0.54	390	0.94	0.07	9.1	2.5	660	11.5
W594514		16.00	0.15	0.9	0.087	2.71	21.4	19.7	0.75	619	1.67	0.76	7.4	2.7	600	26.0
W594515		16.35	0.09	0.8	0.666	2.96	23.9	13.1	0.90	1160	6.61	0.10	5.7	3.6	620	80.7
W594516		16.45	0.14	1.1	0.075	2.46	20.7	40.4	0.77	496	1.85	0.77	8.7	2.7	620	15.2
W594517		16.50	0.13	1.0	0.082	2.60	21.7	26.0	0.75	582	1.11	0.58	7.7	2.8	570	155.5
W594518		14.45	0.10	0.8	0.311	2.47	22.6	24.5	1.02	1960	6.46	0.05	6.3	2.4	460	297
W594519		13.10	0.09	0.7	0.302	2.33	20.9	22.4	0.97	1900	5.80	0.04	5.8	2.2	430	283
W594520		16.30	0.12	0.9	0.073	2.86	19.6	15.6	0.75	2410	1.31	0.26	8.1	2.7	560	241
W594521		10.40	0.07	0.7	0.967	2.03	9.0	19.6	1.22	732	11.30	0.04	4.3	5.9	330	205
W594522		16.70	0.13	1.0	0.129	2.78	21.0	18.8	0.75	358	0.52	1.78	8.1	3.0	590	555
W594523		16.40	0.12	1.0	0.097	2.76	20.0	23.5	0.91	390	0.52	0.45	7.4	2.6	530	1165
W594524		15.90	0.18	0.9	0.071	2.48	27.6	16.2	1.02	1240	0.67	0.47	7.4	2.4	590	60.9
W594525		16.75	0.15	0.9	0.071	2.87	18.9	19.2	0.75	472	2.30	1.85	8.2	2.6	650	20.7
W594526		14.40	0.08	0.9	1.515	2.53	16.0	16.3	0.64	2290	17.30	0.06	4.9	14.4	430	1625
W594527		17.25	0.09	0.9	0.068	3.34	27.7	8.7	0.88	1520	0.55	0.07	7.8	2.7	640	594
W594528		16.25	0.15	0.9	0.072	3.13	19.0	15.7	0.73	523	1.55	1.35	7.7	2.6	600	27.2
W594529		16.20	0.14	0.9	0.058	2.38	23.9	19.6	1.08	599	1.25	0.20	7.2	2.9	540	85.4
W594530		17.10	0.17	1.0	0.064	2.49	19.2	19.7	0.68	440	1.05	1.69	8.6	2.7	610	13.4
W594531		17.05	0.13	1.1	0.049	2.71	23.1	19.1	0.65	1380	4.63	1.04	8.9	3.2	770	14.7
W594532		17.30	0.18	1.0	0.058	2.56	22.2	14.9	0.77	248	0.65	2.02	7.7	3.1	610	12.6
W594533		16.55	0.14	1.0	0.038	2.68	18.7	22.1	0.82	213	0.44	0.74	5.6	3.2	610	11.3
W594534		17.70	0.13	0.9	0.053	3.12	21.8	24.3	0.95	193	1.74	0.49	5.0	3.2	600	18.7
W594535		17.00	0.12	0.9	0.045	3.02	20.6	24.4	0.94	202	1.78	0.54	4.9	2.7	580	12.9
W594536		16.40	0.11	0.9	0.047	2.45	22.9	21.0	0.87	343	1.56	0.18	6.6	7.6	570	17.0
W594537		19.65	0.20	6.2	0.060	2.17	57.2	22.9	2.00	888	2.03	1.42	27.8	39.4	2890	13.0
W594538		16.90	0.15	1.2	0.040	2.85	19.1	15.9	0.68	406	1.00	1.04	7.9	6.6	610	23.5
W594539		17.85	0.13	1.1	0.058	3.04	21.5	17.8	0.81	408	3.00	0.37	7.1	3.0	540	98.2
W594540		16.85	0.14	1.2	0.045	3.01	18.9	19.1	0.71	277	0.66	0.83	7.8	2.6	560	26.0
W594541		15.40	0.13	1.1	0.073	2.93	17.5	17.8	0.79	482	1.21	1.33	7.6	2.8	580	65.6
W594542		0.55	0.11	0.1	<0.005	0.04	1.2	1.1	1.79	127	0.07	0.08	0.5	0.5	60	<0.5
W594543		16.90	0.17	1.0	0.066	2.57	19.9	13.9	0.71	346	0.56	1.68	8.2	2.5	600	14.6
W594544		17.15	0.17	0.9	0.072	2.40	22.1	26.1	0.77	303	0.50	0.12	8.1	2.5	610	15.3
W594545		16.80	0.16	0.9	0.050	2.36	19.1	18.2	0.66	377	1.34	1.64	8.2	2.4	640	14.5
W594546		14.00	0.14	1.0	0.037	2.26	21.8	18.5	1.06	472	0.90	0.10	7.1	2.3	500	25.8
W594547		16.80	0.16	1.1	0.050	2.54	19.9	16.6	0.65	451	0.52	1.71	8.3	2.6	570	20.7
W594548		14.35	0.10	1.0	0.047	2.36	23.5	31.9	1.29	608	1.17	0.30	7.4	4.9	540	23.9
W594549		15.65	0.11	0.9	0.066	2.84	25.6	19.8	0.72	298	0.60	1.48	8.0	2.7	580	13.1
W594550		14.25	0.05	0.9	1.580	2.67	19.4	16.9	0.68	2360	17.85	0.06	5.0	15.4	460	1670

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255741

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594451		78.7	<0.002	0.60	13.00	10.1	1	2.5	98.8	0.65	0.07	12.70	0.239	1.66	3.7	67
W594452		71.9	<0.002	0.45	11.20	11.2	1	2.8	98.3	0.72	0.16	13.30	0.271	1.21	4.3	71
W594514		123.5	<0.002	1.23	5.31	10.5	1	2.9	246	0.59	0.42	11.25	0.235	1.82	3.3	67
W594515		211	<0.002	4.72	23.1	9.4	6	4.7	128.5	0.41	10.20	9.82	0.190	2.51	5.7	59
W594516		85.8	<0.002	0.42	11.30	10.6	1	2.2	248	0.73	0.35	11.20	0.258	1.52	6.0	72
W594517		114.0	<0.002	1.13	30.8	10.1	1	2.9	209	0.60	0.28	12.10	0.242	1.95	4.5	66
W594518		164.0	<0.002	2.63	50.2	8.7	1	4.2	153.0	0.49	0.23	10.95	0.190	2.39	4.1	57
W594519		148.0	<0.002	2.53	46.5	8.0	1	3.8	143.5	0.46	0.20	10.10	0.180	2.21	4.0	54
W594520		122.5	<0.002	1.63	8.89	9.9	1	2.9	141.0	0.69	0.18	12.65	0.233	2.84	5.2	64
W594521		125.5	<0.002	4.47	1020	5.8	5	7.0	65.2	0.37	2.30	8.64	0.130	1.75	15.2	40
W594522		106.5	<0.002	0.88	37.6	10.3	1	3.6	329	0.65	0.20	12.30	0.249	1.45	4.6	69
W594523		112.5	<0.002	1.52	71.0	9.9	1	4.1	143.0	0.58	0.34	11.45	0.224	1.78	4.6	64
W594524		99.8	<0.002	0.75	34.6	9.0	1	2.7	186.5	0.61	0.55	14.25	0.224	1.78	9.2	61
W594525		91.0	<0.002	0.37	3.02	10.3	1	2.4	364	0.63	0.17	11.25	0.279	1.41	4.0	76
W594526		138.5	0.003	7.75	105.0	8.2	2	10.4	60.9	0.40	0.71	8.76	0.166	2.16	5.3	55
W594527		174.0	<0.002	2.37	7.72	10.9	2	7.3	64.8	0.60	0.19	14.00	0.253	2.99	5.5	70
W594528		124.5	<0.002	0.95	4.36	10.3	1	2.7	281	0.61	0.31	10.95	0.250	2.18	4.0	71
W594529		103.0	<0.002	1.11	12.95	10.0	1	3.6	125.0	0.57	0.11	11.35	0.226	1.71	3.8	64
W594530		85.6	<0.002	0.30	3.45	11.5	1	2.2	330	0.64	0.09	10.95	0.268	1.31	3.5	75
W594531		125.0	<0.002	1.87	8.17	12.1	1	2.7	207	0.70	0.10	12.80	0.273	2.25	4.3	77
W594532		97.6	<0.002	1.02	1.28	11.0	2	2.6	413	0.58	0.78	11.55	0.245	1.39	4.0	71
W594533		101.5	<0.002	2.81	4.46	11.1	3	3.2	449	0.43	0.38	11.00	0.193	1.69	4.3	72
W594534		123.5	<0.002	3.99	4.40	11.1	2	3.9	124.5	0.40	1.24	11.45	0.185	1.88	5.0	78
W594535		111.5	<0.002	2.07	3.58	10.0	1	2.5	139.0	0.39	0.46	10.55	0.177	2.04	4.9	66
W594536		94.6	<0.002	0.92	17.80	9.9	1	3.1	160.0	0.52	0.27	12.60	0.214	1.88	11.8	69
W594537		64.0	<0.002	0.05	2.08	13.3	1	2.4	545	1.25	<0.05	6.93	0.747	0.61	3.2	105
W594538		112.5	<0.002	1.18	2.72	9.8	1	2.6	271	0.66	0.29	11.95	0.235	2.05	4.8	66
W594539		143.5	<0.002	2.55	5.93	9.8	1	9.9	148.0	0.62	0.46	12.85	0.209	2.15	4.9	62
W594540		124.5	<0.002	1.31	4.47	10.4	1	3.1	234	0.67	0.20	13.10	0.228	2.12	4.7	66
W594541		120.0	<0.002	1.34	6.50	9.5	1	2.7	301	0.68	2.26	11.00	0.232	1.71	4.9	65
W594542		1.3	<0.002	<0.01	0.05	0.2	2	<0.2	78.6	0.09	<0.05	0.23	0.005	0.02	0.2	1
W594543		95.9	<0.002	0.77	3.22	10.2	1	2.4	347	0.67	0.23	12.70	0.249	1.39	3.9	69
W594544		88.4	<0.002	0.98	11.35	10.0	1	2.8	105.5	0.64	0.32	12.40	0.251	1.44	3.8	70
W594545		84.8	<0.002	0.79	4.70	10.5	1	2.4	349	0.64	0.15	11.00	0.259	1.25	3.4	73
W594546		85.5	<0.002	0.78	11.20	8.6	1	2.1	154.5	0.68	0.24	11.50	0.208	1.47	4.3	58
W594547		92.3	<0.002	0.41	3.61	10.2	1	2.1	321	0.69	0.13	13.00	0.250	1.24	3.8	69
W594548		86.7	<0.002	0.59	14.95	9.7	1	2.3	144.5	0.64	0.23	12.50	0.229	1.60	3.6	63
W594549		105.0	<0.002	0.69	3.23	10.4	1	3.0	314	0.62	0.25	13.80	0.250	1.46	3.3	67
W594550		156.5	0.003	8.00	107.5	9.0	2	10.9	66.9	0.40	0.78	10.15	0.167	2.29	5.7	56

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255741

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594451		1.9	12.5	46	25.6	0.036
W594452		10.2	14.1	34	27.0	0.028
W594514		2.1	12.7	64	23.9	0.126
W594515		3.7	13.4	141	19.4	3.72
W594516		1.5	14.5	47	25.4	0.061
W594517		1.9	12.7	166	23.6	0.110
W594518		6.4	11.2	566	19.5	0.182
W594519		5.7	10.4	637	17.7	0.183
W594520		4.7	13.1	370	24.1	0.039
W594521		2.6	9.6	725	17.1	1.070
W594522		1.5	14.3	106	24.2	0.302
W594523		2.0	13.3	164	24.2	0.307
W594524		2.4	19.6	63	23.4	0.129
W594525		0.6	13.9	39	22.8	0.020
W594526		7.2	8.8	3280	24.6	1.790
W594527		5.7	12.0	705	23.9	0.185
W594528		2.7	12.6	72	22.6	0.039
W594529		1.7	15.2	52	21.9	0.821
W594530		1.1	15.0	32	25.0	0.074
W594531		2.6	14.2	30	26.9	0.028
W594532		1.0	13.5	24	24.8	0.124
W594533		3.5	10.2	22	24.6	0.057
W594534		3.2	9.1	26	23.8	0.199
W594535		2.1	8.7	24	23.8	0.089
W594536		1.7	12.1	52	23.9	0.074
W594537		1.0	24.0	111	275	<0.005
W594538		1.2	11.6	35	32.8	0.044
W594539		4.9	11.5	284	26.6	1.195
W594540		1.2	12.1	39	29.8	0.040
W594541		1.0	12.0	41	28.2	0.181
W594542		<0.1	2.4	3	2.1	0.007
W594543		0.7	13.4	30	25.6	0.047
W594544		2.8	13.5	32	22.4	0.066
W594545		1.1	13.4	33	23.8	0.083
W594546		1.1	14.9	42	23.4	0.033
W594547		0.7	14.6	41	27.0	0.033
W594548		1.6	14.7	46	24.4	0.072
W594549		1.0	14.6	31	22.8	0.049
W594550		7.2	10.4	3420	24.6	1.725

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255741

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255744

Project: Klaza

P.O. No.: 19-118

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255744

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595821		5.23	1.24	7.57	26.8	2740	1.47	2.38	1.74	0.36	43.1	11.9	11	14.25	151.5	3.41
W595822		4.87	0.86	7.90	43.1	3290	1.30	4.13	1.46	0.24	49.3	12.9	11	20.4	137.0	2.89
W595823		6.61	0.89	7.37	33.4	2750	1.31	1.47	2.17	0.19	41.3	6.9	10	15.75	147.5	3.49
W595824		2.13	2.99	7.23	212	380	1.47	4.43	1.81	14.40	47.1	28.9	10	14.60	66.1	5.99
W595825		4.88	0.26	7.94	10.7	2340	1.63	0.31	2.54	0.24	44.4	8.3	13	14.45	34.6	3.14
W595826		5.92	0.56	8.44	24.4	3190	1.35	0.60	1.71	0.18	48.9	9.2	10	19.55	79.1	3.51
W595827		3.30	0.71	7.23	28.7	3890	1.27	0.80	2.38	0.20	45.4	13.5	10	18.50	92.2	3.39
W595828		2.91	0.76	6.82	27.9	4080	1.07	0.92	2.42	0.24	43.2	13.7	9	15.65	103.0	3.35
W595829		6.06	1.26	6.75	29.8	3020	1.34	0.85	1.93	1.12	43.9	11.5	10	11.75	89.1	2.75
W595830		5.79	0.53	6.44	20.2	3030	1.38	0.72	2.25	2.36	47.5	6.3	10	15.05	39.0	2.84
W595831		4.63	0.30	5.50	12.7	3180	1.37	0.48	2.31	0.16	58.8	4.1	10	17.20	27.9	2.21
W595832		5.10	0.46	7.94	18.0	2990	1.59	0.55	1.17	0.23	45.3	6.6	11	19.25	70.2	2.94
W595833		4.89	0.40	7.41	18.0	4160	1.37	0.75	2.12	0.35	43.5	5.4	10	14.75	59.0	2.98
W595834		4.95	0.30	7.01	30.0	2600	1.50	1.32	2.24	0.25	31.1	4.8	11	18.15	81.1	2.84
W595835		5.10	0.01	0.10	0.4	30	0.07	0.02	32.2	<0.02	1.02	0.8	2	0.08	1.7	0.13
W595836		3.63	0.59	7.27	46.8	1050	1.69	1.90	2.01	0.24	39.3	6.3	10	14.85	112.0	3.08
W595837		1.98	2.33	5.45	105.0	560	1.34	4.13	5.76	2.37	32.4	7.7	7	10.30	20.8	5.95
W595838		3.14	4.92	6.04	121.5	230	1.34	9.15	2.81	5.45	33.2	7.8	9	11.75	62.6	5.60
W595839		3.75	0.59	6.70	38.7	1240	1.69	1.32	2.86	0.59	44.0	5.4	11	17.45	5.4	3.36
W595840		6.23	0.10	6.74	19.0	2030	1.44	0.97	3.14	0.12	43.0	6.4	10	13.75	17.0	2.93
W595841		<0.02	0.10	6.70	20.2	2400	1.50	0.95	3.17	0.11	44.3	6.7	11	14.10	18.4	2.93
W595842		5.09	0.08	6.67	13.3	3050	1.53	0.60	3.43	0.13	34.7	5.0	11	12.65	2.8	2.83
W595843		5.57	0.14	6.88	16.5	2280	1.61	0.81	2.89	0.10	42.8	8.1	14	8.92	15.3	2.91
W595844		3.63	0.18	6.78	13.4	2080	1.46	0.79	2.86	0.12	31.8	6.3	12	11.15	27.6	2.88
W595845		5.34	1.38	6.96	55.2	2140	1.48	1.93	2.77	1.80	38.4	6.1	12	9.27	120.0	3.08
W595846		5.20	0.64	6.90	28.5	1900	1.51	1.85	2.70	0.28	40.0	7.2	12	11.00	8.0	3.18
W595847		0.26	38.6	5.50	2570	270	1.17	36.4	1.61	43.0	31.4	15.7	22	9.05	1160	8.85
W595848		4.90	0.30	7.46	16.9	2270	1.49	1.00	1.81	0.15	45.9	6.3	11	10.15	63.1	2.91
W595849		4.73	0.50	7.06	17.8	2290	1.44	1.54	2.29	0.18	40.8	6.3	11	10.35	51.6	2.65
W595850		5.19	0.11	7.34	8.2	2210	1.57	0.26	2.71	0.14	38.5	5.6	13	7.03	12.2	2.93
W595851		5.66	0.14	7.30	11.2	2710	1.59	0.43	2.66	0.18	42.5	6.0	13	7.23	19.7	3.00
W595852		6.68	0.10	7.46	9.4	2500	1.84	0.31	2.83	0.13	43.2	7.9	12	7.79	21.0	3.00
W595853		6.39	0.13	7.48	12.4	2430	1.62	0.37	2.85	0.14	42.7	8.1	13	9.70	21.3	2.99
W595854		0.26	39.9	5.84	2660	1020	1.23	37.8	1.69	44.3	34.6	16.0	24	9.47	1220	9.24
W595855		5.53	0.23	6.92	13.2	2040	1.73	0.87	2.54	0.20	39.8	6.2	10	8.61	36.7	2.84
W595856		3.16	4.65	6.68	237	510	1.50	8.87	3.21	1.80	41.7	9.5	8	14.65	341	5.51
W595857		3.96	0.25	7.21	28.0	1870	1.57	0.75	2.75	0.18	39.6	5.5	12	11.55	90.4	2.84
W595858		5.53	0.19	6.88	15.8	2440	1.40	0.95	2.15	0.27	41.6	5.7	11	13.90	34.0	2.36
W595859		4.50	0.23	7.34	16.5	2630	1.49	1.30	1.80	0.30	46.5	6.5	10	13.45	19.6	2.73
W595860		5.10	0.18	7.32	15.0	2570	1.63	0.72	2.10	0.22	43.2	4.4	11	15.05	26.1	2.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595821		16.30	0.12	1.2	0.132	3.02	22.5	41.5	0.76	618	2.97	1.62	7.6	2.8	630	48.9
W595822		17.40	0.14	1.2	0.149	2.96	24.7	27.5	0.60	579	14.55	1.87	8.8	3.1	650	25.9
W595823		16.35	0.13	1.1	0.221	3.37	21.3	15.6	0.87	1000	3.03	1.33	7.5	3.0	620	16.8
W595824		15.85	0.13	1.1	0.742	3.25	24.8	11.0	0.64	836	5.24	0.25	7.6	4.7	600	259
W595825		16.90	0.12	1.2	0.073	2.78	22.7	11.7	0.74	595	6.97	2.14	8.6	2.8	680	22.7
W595826		17.45	0.13	1.2	0.099	3.31	25.4	31.9	0.64	618	2.33	1.45	8.8	3.0	700	22.5
W595827		16.15	0.13	1.3	0.082	3.34	23.9	20.6	0.84	713	2.16	1.15	7.9	3.2	610	18.9
W595828		15.40	0.12	1.1	0.091	3.20	22.6	21.0	0.85	684	1.45	0.99	7.3	3.0	580	17.9
W595829		13.85	0.08	1.4	0.089	2.87	22.4	23.8	0.71	615	1.45	1.62	7.3	2.8	550	23.6
W595830		14.10	0.08	1.2	0.158	3.13	24.8	32.2	0.68	683	0.95	0.61	6.8	2.1	550	132.0
W595831		12.00	0.08	0.9	0.152	2.55	34.0	27.7	0.64	587	1.85	0.05	5.2	2.1	410	13.2
W595832		15.65	0.09	1.0	0.185	3.46	24.8	146.0	0.71	537	2.82	1.03	8.1	3.1	720	15.9
W595833		14.80	0.07	0.9	0.192	3.55	22.0	33.9	0.85	668	2.64	1.39	8.0	2.9	700	25.9
W595834		14.25	0.06	0.9	0.298	2.95	15.3	17.3	0.60	666	2.29	1.08	7.3	2.4	640	19.0
W595835		0.24	<0.05	<0.1	0.005	0.03	1.1	1.5	1.91	112	<0.05	0.04	0.2	0.2	70	<0.5
W595836		15.80	0.08	1.0	0.331	2.84	19.9	26.4	0.80	800	3.27	0.04	6.9	2.7	620	20.4
W595837		11.30	0.07	0.6	0.293	2.67	17.8	6.8	2.27	3370	1.60	0.03	4.7	3.0	440	121.0
W595838		11.75	0.08	0.7	0.341	2.90	17.1	10.5	1.30	1860	2.90	0.03	5.0	2.8	500	192.0
W595839		13.50	0.09	0.9	0.296	2.96	21.7	12.0	0.71	944	2.46	0.62	7.0	2.3	630	28.8
W595840		14.80	0.08	0.8	0.325	2.66	21.7	9.4	0.69	623	2.18	1.79	6.6	2.8	600	8.1
W595841		14.85	0.08	0.9	0.342	2.66	22.2	9.8	0.69	623	2.16	1.79	6.8	2.9	610	8.2
W595842		13.65	0.08	0.9	0.391	2.87	17.5	21.1	0.72	739	1.23	1.29	6.5	1.8	600	8.6
W595843		13.75	0.08	1.0	0.196	2.61	22.1	12.0	0.73	686	1.91	1.65	6.7	2.5	560	10.1
W595844		14.15	0.08	0.9	0.078	2.62	15.7	18.5	0.71	513	2.35	1.75	7.0	2.6	620	14.7
W595845		15.20	0.10	0.8	0.291	2.92	19.3	12.4	0.82	657	2.44	1.58	7.2	2.9	650	123.5
W595846		14.95	0.08	0.8	0.206	2.72	20.0	9.7	0.84	676	2.06	1.54	7.1	3.0	640	62.0
W595847		12.30	0.08	0.8	1.455	2.55	15.9	15.6	0.65	2220	15.25	0.06	4.2	14.6	430	1610
W595848		15.10	0.07	0.9	0.127	2.71	24.1	21.9	0.89	522	4.44	1.89	7.8	3.1	640	19.0
W595849		15.10	0.07	0.9	0.124	2.37	19.9	17.1	0.84	572	4.41	2.34	7.4	3.0	600	18.1
W595850		14.05	0.07	0.9	0.056	2.66	19.6	13.4	0.79	517	4.04	2.27	7.2	2.7	630	15.0
W595851		15.10	0.08	1.1	0.070	2.75	21.5	14.1	0.88	556	2.61	2.40	7.7	2.6	650	17.6
W595852		15.20	0.07	1.2	0.048	2.72	21.7	12.1	0.84	552	18.60	2.37	7.8	2.8	640	14.8
W595853		15.90	0.09	1.2	0.075	2.76	21.3	10.8	0.82	583	2.57	2.36	8.1	2.7	640	16.4
W595854		12.60	0.10	0.8	1.470	2.66	18.4	16.2	0.69	2330	15.20	0.06	4.3	14.9	450	1705
W595855		15.00	0.08	1.2	0.097	2.72	20.2	12.7	0.76	512	1.81	2.05	7.9	2.5	590	18.5
W595856		13.90	0.09	1.1	0.574	2.95	22.1	7.9	1.19	1260	0.92	0.08	6.2	2.6	550	120.5
W595857		14.95	0.06	1.2	0.225	2.77	20.0	10.4	0.84	618	1.39	1.99	7.2	2.4	610	19.2
W595858		14.45	0.07	1.0	0.262	2.73	20.9	11.2	0.74	456	2.89	1.93	7.2	2.4	590	18.5
W595859		14.65	0.08	1.1	0.135	2.66	24.3	16.1	0.71	458	5.52	2.02	7.2	3.0	600	20.4
W595860		14.95	0.07	1.3	0.113	2.86	22.2	14.4	0.71	485	5.12	1.94	7.8	2.4	600	19.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595821		114.5	<0.002	0.61	12.45	10.4	1	3.6	257	0.58	0.97	12.25	0.267	1.55	4.1	72
W595822		117.5	0.003	0.55	14.00	11.4	1	3.7	167.5	0.70	2.31	12.85	0.285	1.83	5.8	70
W595823		150.0	0.002	0.37	14.35	10.2	1	4.3	136.5	0.58	0.48	11.20	0.260	2.32	4.1	72
W595824		192.5	0.002	4.77	13.05	10.8	2	11.3	74.9	0.68	1.01	11.00	0.251	1.97	7.1	72
W595825		98.0	0.002	0.09	4.02	11.3	1	4.3	356	0.72	0.06	11.90	0.301	1.15	3.9	78
W595826		120.5	<0.002	0.31	18.10	11.8	1	3.5	177.0	0.69	0.16	14.30	0.308	1.46	4.7	82
W595827		112.5	<0.002	0.61	14.65	10.5	1	3.6	176.0	0.63	0.33	11.60	0.273	1.71	4.3	75
W595828		110.0	0.002	0.63	13.40	10.1	1	3.9	174.0	0.56	0.38	11.15	0.247	1.66	3.8	71
W595829		108.0	<0.002	0.67	10.80	9.3	1	2.6	157.0	0.64	0.44	11.10	0.217	1.50	4.2	62
W595830		127.0	<0.002	0.68	6.64	9.3	1	2.7	126.5	0.57	0.14	9.62	0.216	2.00	3.6	63
W595831		134.0	<0.002	0.20	5.60	7.7	1	1.9	103.0	0.39	0.09	9.51	0.170	1.86	3.7	51
W595832		151.5	<0.002	0.12	14.55	11.7	1	2.7	143.0	0.55	0.05	11.35	0.294	1.97	3.6	79
W595833		125.0	<0.002	0.26	6.95	11.2	1	2.8	197.0	0.56	0.18	9.60	0.292	1.91	3.2	81
W595834		127.5	<0.002	0.53	14.65	10.5	1	2.4	145.5	0.54	0.24	9.46	0.262	2.03	3.1	77
W595835		0.8	<0.002	<0.01	0.08	0.2	3	<0.2	76.1	<0.05	<0.05	0.10	0.005	0.02	0.1	2
W595836		152.0	<0.002	0.99	20.6	10.5	1	2.6	75.3	0.57	0.55	11.00	0.238	2.52	3.9	74
W595837		173.5	0.002	2.85	8.43	7.6	1	3.8	79.1	0.34	0.43	8.13	0.171	2.44	9.0	52
W595838		171.5	0.002	3.43	17.65	8.4	1	4.5	56.4	0.38	0.39	8.01	0.185	2.52	4.7	58
W595839		153.5	<0.002	1.26	6.05	10.9	1	3.0	142.0	0.52	0.48	11.00	0.241	2.59	4.0	71
W595840		101.5	0.002	1.02	3.91	10.2	1	2.4	218	0.49	0.36	9.35	0.232	1.75	3.1	74
W595841		101.5	<0.002	1.04	4.07	10.4	1	2.5	220	0.51	0.36	9.59	0.235	1.76	3.3	74
W595842		108.5	<0.002	0.78	3.58	9.3	1	2.4	199.5	0.51	0.18	9.85	0.219	1.91	3.6	67
W595843		117.0	<0.002	1.12	3.11	9.4	1	2.3	252	0.55	0.21	11.20	0.219	1.61	4.3	64
W595844		80.0	<0.002	0.39	3.26	9.9	1	1.9	318	0.50	0.24	7.90	0.261	1.09	2.6	74
W595845		127.0	<0.002	0.95	6.88	10.7	1	2.5	263	0.50	0.41	8.56	0.259	1.69	2.9	75
W595846		136.5	<0.002	1.43	4.92	10.7	1	2.7	199.0	0.50	0.71	9.13	0.250	1.95	2.7	75
W595847		134.5	0.002	7.72	98.0	7.7	2	9.4	60.1	0.35	0.66	7.57	0.153	2.00	4.8	55
W595848		102.0	0.002	0.23	5.68	10.8	1	2.3	226	0.56	0.12	10.80	0.269	1.15	3.0	75
W595849		79.5	0.003	0.21	4.69	10.4	1	2.6	269	0.54	0.20	9.57	0.259	1.05	3.4	71
W595850		80.3	<0.002	0.07	1.94	9.8	1	1.8	397	0.52	<0.05	9.83	0.267	0.86	2.9	74
W595851		90.2	<0.002	0.27	1.85	10.4	1	2.0	448	0.59	0.08	10.15	0.267	1.08	3.1	74
W595852		93.4	<0.002	0.20	1.27	10.7	1	2.0	413	0.60	0.05	11.30	0.269	0.97	3.5	74
W595853		92.4	<0.002	0.14	1.78	10.6	1	1.9	414	0.65	0.05	10.65	0.266	1.10	3.6	74
W595854		144.0	0.002	8.08	99.9	7.9	2	9.7	62.6	0.33	0.74	8.35	0.163	2.04	5.0	56
W595855		91.1	<0.002	0.13	2.52	9.9	1	1.9	348	0.64	0.05	10.45	0.250	1.11	3.4	68
W595856		154.0	<0.002	4.39	23.5	9.2	1	5.2	74.8	0.47	0.43	10.10	0.210	2.10	4.5	61
W595857		105.0	<0.002	0.37	3.13	9.9	1	2.5	277	0.55	0.11	10.50	0.252	1.46	3.8	71
W595858		97.5	0.003	0.47	3.04	9.3	1	2.9	272	0.54	0.28	10.45	0.246	1.39	3.1	69
W595859		105.0	0.006	0.86	4.39	9.5	1	3.4	281	0.55	0.41	12.00	0.244	1.26	3.2	71
W595860		109.0	0.009	0.49	3.51	10.3	1	2.7	305	0.61	0.15	11.60	0.257	1.36	3.8	72

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255744

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595821		3.0	14.4	76	31.2	0.043
W595822		2.7	16.2	58	33.0	0.068
W595823		2.2	14.4	74	29.8	0.026
W595824		3.4	13.7	1240	27.7	0.498
W595825		3.6	16.6	58	33.2	0.012
W595826		4.5	17.7	58	32.3	0.015
W595827		2.9	17.5	69	34.1	0.015
W595828		2.6	15.1	67	30.7	0.014
W595829		1.8	14.7	101	36.7	0.062
W595830		1.9	14.7	151	33.2	0.017
W595831		1.6	14.1	56	31.2	0.009
W595832		7.8	13.1	94	27.5	0.010
W595833		3.6	14.8	90	23.1	0.015
W595834		1.7	13.8	74	22.4	0.017
W595835		<0.1	2.1	4	1.5	<0.005
W595836		1.9	13.9	93	24.7	0.033
W595837		3.0	8.5	270	15.6	0.122
W595838		3.4	7.3	528	16.8	0.134
W595839		2.1	13.7	97	22.0	0.027
W595840		1.2	14.7	44	22.5	0.016
W595841		1.3	15.3	45	22.9	0.013
W595842		1.4	14.4	40	25.4	0.007
W595843		1.6	13.9	35	25.4	0.021
W595844		1.4	13.9	38	23.5	0.006
W595845		1.6	14.5	185	22.1	0.024
W595846		2.0	14.6	60	22.1	0.022
W595847		6.2	8.2	3270	20.6	1.685
W595848		2.0	14.1	46	23.6	0.007
W595849		1.8	14.9	46	23.6	0.010
W595850		1.2	14.1	40	25.9	<0.005
W595851		1.3	16.6	41	29.6	<0.005
W595852		1.7	17.0	42	32.5	<0.005
W595853		1.4	16.5	43	35.1	<0.005
W595854		6.2	8.7	3430	21.6	1.755
W595855		1.5	15.6	48	34.0	0.006
W595856		1.8	13.1	173	29.9	0.201
W595857		1.1	13.7	60	33.7	0.016
W595858		1.3	13.5	51	29.9	0.009
W595859		8.1	14.2	55	30.6	0.008
W595860		6.6	14.2	56	34.5	0.008

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255744

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255747

Project: Klaza

P.O. No.: 19-117

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255747

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595801		3.99	0.62	7.63	39.0	2710	1.64	1.45	1.38	2.35	49.7	7.7	26	11.75	90.4	3.57
W595802		5.19	0.38	7.71	29.6	2160	1.50	2.03	1.56	0.52	45.7	6.0	18	9.76	75.4	3.67
W595803		3.77	2.56	7.88	114.0	1170	1.80	5.57	0.85	8.37	52.3	7.8	14	16.75	181.5	5.09
W595804		5.47	0.45	7.29	43.4	2320	1.67	1.56	1.90	3.89	56.1	4.2	15	12.30	87.2	3.50
W595805		5.60	0.61	7.85	38.6	2850	1.40	2.67	1.60	1.57	46.8	5.5	12	11.60	95.9	3.50
W595806		0.26	41.5	5.83	2690	270	1.18	37.8	1.71	48.4	37.5	18.6	24	11.10	1225	9.45
W595807		4.94	0.75	8.06	55.7	3750	1.48	2.02	1.07	2.24	56.5	6.6	12	14.75	83.0	3.77
W595808		5.36	1.44	7.35	96.7	740	1.59	5.94	1.17	5.21	58.7	15.6	14	15.90	67.5	5.07
W595809		3.03	0.80	7.52	33.6	2490	1.79	2.06	2.05	10.35	46.3	8.8	14	15.35	30.8	3.83
W595810		4.91	0.19	7.41	19.9	2270	1.80	0.24	2.70	0.69	46.5	8.5	18	13.30	25.3	3.18
W595811		4.80	0.16	7.89	7.6	2370	1.82	0.18	2.69	0.66	48.2	8.6	19	10.15	15.2	3.32
W595812		3.29	0.24	7.28	29.8	2050	1.79	0.26	2.50	0.38	44.0	8.1	16	15.25	15.4	3.00
W595813		4.86	0.12	7.41	8.5	2340	1.71	0.19	2.85	0.22	43.5	7.3	22	9.33	9.8	3.18
W595814		<0.02	0.11	7.39	7.9	2320	1.76	0.20	2.80	0.23	46.9	7.3	16	9.78	10.0	3.15
W595815		4.49	0.25	7.12	17.0	2310	1.79	0.47	2.82	0.30	44.3	7.4	18	12.65	27.8	3.18
W595816		5.93	0.16	7.35	10.4	2310	1.76	0.35	2.44	0.30	47.6	6.4	18	12.20	14.9	3.11
W595817		4.83	0.27	7.53	15.4	2200	1.72	0.53	2.27	0.24	44.3	7.1	13	14.80	36.7	3.27
W595818		4.28	0.28	7.53	16.7	2030	1.59	0.77	1.63	0.40	43.3	4.5	13	13.85	23.7	3.12
W595819		5.12	0.46	7.80	18.5	2490	1.55	1.43	1.47	0.40	43.4	4.6	12	14.50	54.3	3.15
W595820		5.93	1.27	7.91	30.6	3770	1.70	2.77	1.39	0.75	57.3	12.4	13	17.75	295	3.52
W602981		5.63	0.15	7.64	10.6	2150	1.89	0.69	2.63	1.03	44.4	8.9	11	11.80	21.5	3.17
W602982		5.69	0.25	7.65	13.3	1980	1.76	0.99	2.36	0.60	47.1	9.2	11	11.50	53.4	2.96
W602983		5.49	0.32	7.84	15.9	2230	1.85	0.69	2.61	0.36	45.7	7.6	14	12.80	50.9	3.09
W602984		4.91	0.29	7.12	17.4	2310	1.58	1.22	2.45	0.53	52.0	11.4	11	11.65	18.7	2.99
W602985		3.25	5.15	8.37	115.0	2640	1.81	3.03	0.17	1.88	64.2	15.4	11	12.85	98.2	3.34
W602986		4.26	1.96	8.16	91.0	2440	1.70	4.32	0.27	0.35	48.6	4.5	11	11.90	107.0	3.45
W602987		5.00	0.51	8.11	52.2	3000	1.81	1.66	0.47	2.51	56.3	12.9	11	11.35	105.0	3.53
W602988		0.26	32.0	7.00	148.0	140	0.59	12.80	6.25	35.5	28.4	99.6	128	1.74	7180	10.05
W602989		5.83	0.48	7.80	94.5	3720	1.51	1.52	1.65	4.06	50.1	12.2	11	12.80	93.9	3.95
W602990		6.18	0.89	7.60	138.0	710	1.35	2.96	1.60	6.65	45.6	13.4	11	10.95	279	4.18
W602991		6.72	3.24	7.77	271	550	1.66	3.89	1.46	36.0	56.7	17.1	10	15.15	380	5.52
W602992		3.85	5.16	7.11	207	200	1.52	5.32	0.54	39.7	46.2	19.5	9	10.80	49.8	8.16
W602993		1.52	3.45	7.47	576	210	1.24	3.90	0.03	2.62	56.6	10.4	11	12.00	93.9	6.16
W602994		5.39	0.05	0.16	1.6	30	0.08	0.03	31.4	0.09	1.09	1.0	2	0.06	5.2	0.11
W602995		4.79	2.58	7.14	236	560	1.89	1.97	0.95	21.4	55.2	13.6	10	15.85	225	4.70
W602996		4.48	1.54	6.65	125.5	2320	1.57	2.55	2.41	13.45	40.0	9.6	11	13.75	252	4.06
W602997		4.33	0.75	6.64	120.0	1110	1.31	1.62	1.61	9.30	51.8	17.4	10	8.47	72.6	4.29
W602998		4.81	0.65	7.23	81.9	2320	1.55	1.28	1.65	2.64	53.6	7.9	11	8.18	86.1	3.45
W602999		1.56	2.13	7.25	142.5	870	1.57	3.89	1.44	5.25	56.3	20.8	9	9.41	173.0	5.07
W603000		1.42	3.92	7.43	169.5	330	1.65	5.43	1.69	5.44	52.0	16.4	10	10.40	314	5.84

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255747

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595801		17.30	0.10	1.3	0.162	3.15	26.9	17.6	0.78	735	4.10	1.80	8.9	4.0	610	28.0
W595802		16.50	0.11	1.2	0.189	3.20	23.4	19.3	0.83	518	2.19	1.21	8.4	4.8	630	20.1
W595803		17.95	0.10	1.2	0.438	3.64	27.9	15.0	0.56	1100	2.93	0.14	8.3	3.3	640	73.6
W595804		15.40	0.11	1.2	0.236	3.39	29.5	11.0	0.67	1200	2.50	1.05	7.5	2.6	610	16.2
W595805		16.05	0.10	1.1	0.226	2.98	24.3	18.0	0.78	799	3.62	1.63	8.3	3.0	670	24.4
W595806		14.90	0.06	0.9	1.680	2.66	19.1	17.8	0.68	2380	19.75	0.06	5.2	15.9	480	1725
W595807		17.20	0.15	1.2	0.202	3.19	29.8	21.5	0.60	972	5.08	1.26	8.9	3.3	680	30.3
W595808		16.00	0.10	0.9	0.530	3.58	30.7	14.4	0.65	1280	2.79	0.07	6.9	4.9	610	37.0
W595809		17.25	0.13	1.2	0.150	3.24	23.1	9.9	0.73	1350	6.41	1.45	8.5	3.3	630	23.5
W595810		17.70	0.16	1.3	0.063	2.89	23.2	8.1	0.74	789	2.83	2.36	9.1	3.4	640	23.3
W595811		17.05	0.15	1.4	0.057	2.91	23.7	11.0	0.85	736	3.03	2.53	9.2	3.4	650	21.2
W595812		17.00	0.16	1.4	0.055	2.75	22.1	13.4	0.75	686	2.93	1.89	8.9	3.2	630	24.0
W595813		16.60	0.14	1.2	0.056	2.84	21.5	9.8	0.77	729	2.73	2.56	8.5	3.3	650	20.4
W595814		17.10	0.15	1.2	0.061	2.82	23.7	9.8	0.76	722	3.45	2.57	8.6	3.3	650	21.2
W595815		17.00	0.16	1.2	0.069	2.84	22.1	9.9	0.73	769	1.73	2.30	8.7	3.3	620	24.4
W595816		16.75	0.15	1.2	0.069	3.00	24.2	14.2	0.74	665	2.29	2.26	8.5	3.2	630	21.1
W595817		17.25	0.15	1.2	0.093	2.98	22.2	31.1	0.78	654	1.98	1.82	8.8	2.9	690	21.0
W595818		16.65	0.14	1.1	0.131	2.65	21.8	29.0	0.84	621	8.85	1.76	8.4	2.7	670	23.1
W595819		16.90	0.14	1.1	0.097	2.90	22.0	29.8	0.98	648	5.83	2.14	8.3	3.0	670	31.6
W595820		18.00	0.17	1.2	0.263	2.78	31.5	29.1	0.85	684	9.24	1.98	8.5	3.9	660	70.8
W602981		17.25	0.15	1.1	0.090	2.61	22.4	17.4	0.88	485	1.91	2.25	9.1	2.9	690	32.6
W602982		16.95	0.15	1.0	0.120	2.57	25.7	20.6	1.04	507	10.90	2.14	9.1	3.0	670	37.8
W602983		17.90	0.17	1.1	0.107	2.57	23.9	28.8	1.02	540	3.47	2.30	9.6	3.2	720	28.0
W602984		16.05	0.15	1.3	0.065	2.77	27.0	17.5	0.78	426	1.86	2.01	8.4	3.0	570	29.7
W602985		18.70	0.16	1.4	0.335	3.88	35.3	17.9	0.22	969	6.85	0.44	8.1	6.0	550	54.9
W602986		17.20	0.13	1.3	0.288	3.91	26.4	11.6	0.30	183	2.61	0.65	7.3	1.8	550	30.7
W602987		17.05	0.15	1.5	0.211	2.98	30.3	15.3	0.41	703	2.06	1.68	8.2	3.5	620	19.9
W602988		12.05	0.13	0.8	2.60	1.03	15.8	9.0	2.25	956	58.3	0.87	3.1	402	720	9170
W602989		15.65	0.11	1.2	0.217	3.09	25.6	9.9	0.51	956	2.18	2.34	6.4	3.6	650	29.4
W602990		14.75	0.15	1.0	0.322	2.97	23.4	8.7	0.50	952	2.71	2.09	6.2	4.2	610	17.9
W602991		15.30	0.11	0.9	0.553	3.50	30.4	11.4	0.76	2190	2.27	0.07	6.2	3.0	630	436
W602992		15.10	0.09	0.9	0.857	3.34	23.8	8.3	0.65	2470	2.37	0.04	5.9	3.1	530	224
W602993		17.00	0.09	1.1	0.759	3.55	29.4	9.0	0.31	116	3.56	0.03	7.3	3.1	270	233
W602994		0.48	<0.05	<0.1	0.005	0.03	1.1	1.2	1.83	107	0.62	0.08	0.2	3.3	60	3.8
W602995		13.60	0.09	0.9	0.827	3.58	28.8	8.3	0.56	1250	3.89	0.19	5.7	2.9	600	451
W602996		14.65	0.07	0.9	0.290	3.11	19.4	14.8	0.83	1750	5.02	0.59	5.9	3.0	590	120.0
W602997		12.85	0.10	0.9	0.190	3.06	27.5	11.5	0.74	1460	5.34	1.32	5.3	3.4	530	22.6
W602998		15.20	0.08	1.2	0.130	3.12	27.7	18.9	0.76	842	2.45	1.44	6.1	3.4	590	25.3
W602999		15.95	0.12	1.0	0.583	3.94	29.5	17.0	0.76	1140	3.66	0.24	5.7	3.5	430	75.5
W603000		15.90	0.10	1.0	0.530	4.10	25.7	18.1	0.83	1300	5.61	0.30	5.7	4.1	440	119.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255747

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595801		139.5	0.002	0.48	6.76	12.7	1	2.9	255	0.71	0.27	15.10	0.265	1.63	3.9	74
W595802		138.5	<0.002	0.48	4.75	11.3	1	2.6	170.0	0.66	0.05	13.70	0.270	1.95	2.8	74
W595803		216	<0.002	1.64	19.70	12.8	1	8.9	69.3	0.69	0.55	16.40	0.269	2.76	5.1	79
W595804		179.5	0.002	0.73	10.20	11.1	1	4.5	136.5	0.63	0.13	14.10	0.228	2.37	3.8	69
W595805		125.5	0.002	0.59	8.17	11.8	1	3.7	156.5	0.66	0.26	14.85	0.268	1.72	5.5	76
W595806		158.0	0.002	8.13	111.5	9.4	2	11.5	67.6	0.43	0.78	10.25	0.168	2.39	6.0	58
W595807		140.5	0.004	0.42	16.10	13.1	1	3.5	186.0	0.68	0.11	15.40	0.280	1.96	10.2	79
W595808		212	<0.002	2.33	9.72	11.8	1	5.9	90.0	0.51	2.04	11.85	0.223	2.70	4.2	76
W595809		152.5	0.003	0.40	7.22	12.2	1	3.0	285	0.64	0.38	14.80	0.263	1.89	4.2	73
W595810		110.5	0.002	0.07	2.29	12.1	1	2.3	412	0.71	<0.05	13.35	0.271	1.35	3.8	73
W595811		112.5	<0.002	0.03	1.67	12.2	1	2.1	437	0.75	<0.05	14.45	0.282	1.16	3.5	76
W595812		105.5	<0.002	0.09	3.91	12.0	1	2.8	307	0.70	<0.05	12.65	0.274	1.26	4.5	74
W595813		98.0	<0.002	0.04	1.84	11.6	1	2.5	440	0.63	<0.05	12.30	0.278	0.99	3.0	76
W595814		100.5	<0.002	0.04	1.89	11.8	1	2.5	440	0.65	<0.05	13.25	0.274	1.05	3.1	75
W595815		103.5	<0.002	0.16	2.74	12.0	1	2.8	400	0.68	0.06	12.55	0.269	1.26	3.4	74
W595816		109.5	<0.002	0.07	2.70	11.2	1	2.6	382	0.66	0.06	13.40	0.266	1.22	3.7	72
W595817		109.5	<0.002	0.13	7.39	11.9	1	3.1	284	0.62	0.10	10.65	0.294	1.29	3.7	78
W595818		120.0	0.004	0.09	5.11	11.8	1	3.2	194.0	0.57	0.13	11.75	0.279	1.58	4.0	75
W595819		116.5	0.002	0.14	5.04	12.4	1	3.2	310	0.56	0.33	11.60	0.282	1.61	4.1	77
W595820		136.0	0.003	0.64	16.65	12.6	1	3.3	199.0	0.65	1.00	14.05	0.274	1.80	7.6	79
W602981		108.0	0.002	0.55	3.07	12.5	1	3.0	360	0.67	0.24	11.95	0.297	1.28	3.7	80
W602982		118.5	0.004	0.66	2.43	12.2	1	3.9	322	0.65	0.36	11.75	0.288	1.44	3.7	71
W602983		112.0	<0.002	0.45	2.14	13.5	1	4.5	359	0.66	0.21	11.80	0.307	1.39	3.8	77
W602984		116.0	0.003	1.00	1.93	10.9	1	3.0	262	0.71	0.59	16.10	0.239	1.36	4.6	64
W602985		210	<0.002	0.21	12.05	12.5	1	5.5	79.0	0.64	0.34	15.80	0.242	2.74	3.6	73
W602986		204	<0.002	0.46	8.26	10.8	1	6.8	79.2	0.61	0.53	13.50	0.224	2.54	2.6	69
W602987		129.5	<0.002	0.43	6.60	12.7	1	2.9	136.5	0.71	0.17	16.75	0.237	1.60	4.4	71
W602988		26.0	0.019	6.68	33.9	13.4	15	7.2	162.0	0.23	0.59	3.29	0.217	2.40	6.7	416
W602989		124.0	0.002	0.94	6.98	11.9	1	2.9	184.5	0.52	0.30	14.05	0.205	1.77	4.5	73
W602990		124.0	<0.002	1.84	12.10	11.0	1	3.3	159.5	0.48	1.07	11.15	0.204	1.71	2.8	68
W602991		220	<0.002	3.01	34.0	11.0	2	4.6	45.8	0.47	1.33	14.05	0.204	3.26	3.7	66
W602992		214	0.002	4.12	6.89	11.0	2	5.9	19.1	0.41	2.54	11.25	0.188	3.09	3.3	68
W602993		287	<0.002	5.67	16.40	12.4	1	10.9	107.5	0.61	0.57	13.35	0.233	3.29	3.5	72
W602994		1.1	<0.002	<0.01	0.45	0.2	2	<0.2	77.1	<0.05	<0.05	0.11	0.005	0.02	0.1	1
W602995		227	0.002	2.26	16.55	10.3	1	4.0	60.6	0.47	0.73	11.75	0.199	2.98	4.5	68
W602996		125.5	0.002	1.22	42.1	9.6	1	2.6	132.5	0.50	0.62	10.35	0.192	2.22	3.1	66
W602997		130.5	0.002	1.35	4.20	8.7	1	2.4	159.0	0.45	0.52	11.85	0.186	1.79	2.8	62
W602998		125.5	<0.002	0.79	8.11	9.7	1	2.5	170.5	0.52	0.33	15.80	0.193	1.83	3.4	68
W602999		199.5	0.002	2.62	44.2	10.4	1	5.0	97.1	0.46	1.10	11.15	0.181	2.67	3.2	65
W603000		187.0	0.003	3.13	73.0	10.6	1	4.6	99.1	0.45	1.35	11.00	0.189	2.65	3.6	67

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255747

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595801		2.4	17.2	258	35.1	0.042
W595802		1.8	14.6	129	33.5	0.021
W595803		4.1	13.2	737	33.4	0.101
W595804		2.1	13.7	289	33.5	0.033
W595805		3.0	15.7	246	32.2	0.025
W595806		7.5	10.2	3460	25.9	1.675
W595807		2.9	18.4	327	35.1	0.022
W595808		2.9	15.7	368	28.1	0.129
W595809		2.4	18.4	723	34.4	0.020
W595810		2.8	18.1	145	39.1	<0.005
W595811		1.5	19.3	127	39.8	<0.005
W595812		3.3	16.6	77	39.6	0.005
W595813		1.6	16.8	54	33.4	<0.005
W595814		1.7	17.2	53	35.2	<0.005
W595815		2.2	17.1	66	36.8	0.005
W595816		1.7	16.1	64	37.9	<0.005
W595817		2.7	14.5	74	38.3	0.007
W595818		3.1	14.8	111	33.0	0.008
W595819		1.8	15.6	73	33.9	0.008
W595820		2.9	18.6	129	32.9	0.037
W602981		1.5	16.8	69	33.7	0.009
W602982		1.4	15.4	89	28.6	0.021
W602983		1.3	16.9	65	32.7	0.014
W602984		1.0	17.4	56	37.9	0.017
W602985		41.3	15.0	134	38.9	0.059
W602986		13.9	9.5	131	37.5	0.049
W602987		2.7	20.5	336	40.0	0.017
W602988		6.0	13.4	8650	28.0	1.525
W602989		1.6	15.5	501	34.0	0.023
W602990		2.1	14.0	607	29.7	0.063
W602991		3.2	11.4	1580	27.5	0.173
W602992		3.7	6.9	1230	25.4	0.132
W602993		6.4	9.0	204	29.0	0.155
W602994		<0.1	1.9	10	1.4	<0.005
W602995		3.1	10.7	900	26.8	0.107
W602996		2.4	13.6	789	26.9	0.037
W602997		1.6	13.5	859	25.8	0.039
W602998		1.5	13.0	236	36.6	0.028
W602999		3.4	12.0	349	27.9	0.592
W603000		3.6	13.4	384	29.0	1.130

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255747

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255749

Project: Klaza

P.O. No.: 19-116

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255749

Sample Description	Method	WEI-21	Au-GRA22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W602941		1.16	19.05	4.81	6.39	153.0	320	1.27	38.9	1.48	0.55	42.4	9.2	10	9.28	1630
W602942		4.66		0.24	7.01	8.8	2100	1.77	1.71	2.36	0.55	45.1	7.4	11	12.55	23.3
W602943		1.66		0.39	6.91	15.4	1790	1.61	1.36	1.90	0.57	50.6	16.8	10	14.75	31.0
W602944		2.04		1.11	6.82	136.0	540	1.40	4.07	1.46	0.96	62.7	148.5	10	9.39	119.5
W602945		3.52		0.50	7.10	44.0	2020	1.68	1.85	2.44	0.33	44.3	9.8	11	14.15	80.0
W602946		4.64		0.14	7.33	10.2	2300	1.53	1.18	2.41	0.55	45.4	8.1	10	13.50	28.3
W602947		0.26		29.9	6.48	132.0	130	0.53	9.81	5.69	33.1	25.5	90.9	117	1.46	6660
W602948		4.57		0.76	7.37	42.8	770	1.58	4.08	1.65	0.78	21.5	7.7	9	14.95	23.4
W602949		5.79		0.63	6.95	11.7	3840	1.54	1.49	2.38	0.55	14.65	1.9	9	9.39	12.8
W602950		5.61		0.55	6.98	17.8	1670	1.64	1.50	2.81	0.47	13.55	6.4	10	9.41	18.7
W602951		4.93		1.16	6.92	39.3	1590	1.76	2.22	2.78	0.99	33.9	12.7	10	10.95	69.2
W602952		2.63		0.51	6.96	36.6	1550	1.75	1.52	2.70	0.94	35.1	15.6	9	16.05	87.4
W602953		2.77		0.51	7.09	40.5	1500	1.83	1.44	2.63	1.02	35.2	15.0	9	16.85	97.8
W602954		5.25		0.45	7.31	43.6	1260	1.85	1.04	2.38	0.67	49.7	6.4	9	20.0	107.5
W602955		5.14		0.25	6.76	14.2	680	1.60	0.87	2.73	0.47	42.2	6.4	10	17.40	25.4
W602956		5.69		0.17	6.90	9.4	2860	1.64	0.71	2.64	0.15	40.6	6.5	11	14.90	25.9
W602957		3.72		0.33	7.07	47.4	800	1.68	1.98	2.48	0.35	44.4	6.5	10	11.60	53.2
W602958		2.86		0.32	7.17	24.6	1730	1.82	0.76	2.35	0.65	43.2	7.8	10	22.4	24.5
W602959		3.05		0.73	7.10	30.2	1740	1.78	1.21	1.84	1.21	49.5	7.2	9	19.70	28.1
W602960		3.73		0.85	7.46	29.7	1110	1.74	1.16	1.44	1.77	51.5	7.0	9	19.45	43.9
W602961		<0.02		0.84	7.56	30.1	1110	1.97	1.23	1.34	1.78	55.1	7.2	9	20.3	49.7
W602962		2.72		1.28	6.80	41.5	770	1.60	1.99	1.64	1.10	43.5	8.3	9	14.95	67.6
W602963		4.92		0.16	7.09	8.6	2220	1.62	0.62	2.35	0.17	39.7	6.6	10	15.30	22.0
W602964		2.16		1.70	7.18	184.0	380	1.76	1.87	1.48	1.97	46.7	7.2	9	16.05	53.3
W602965		6.89		4.14	6.97	25.0	1980	1.60	4.90	2.07	1.69	44.5	6.8	11	15.05	170.0
W602966		6.62		1.48	7.03	30.5	1630	1.68	1.95	1.79	1.97	50.4	7.5	10	16.65	33.0
W602967		5.05		0.02	0.17	0.6	20	0.13	0.03	31.2	0.02	1.08	0.9	2	0.08	3.0
W602968		2.60		2.98	6.46	224	130	1.23	6.54	0.36	0.48	32.8	10.2	9	5.61	30.3
W602969		2.99		17.00	6.63	800	250	1.38	28.5	0.30	1.50	39.8	6.9	9	10.05	1170
W602970		6.59		0.40	7.49	31.9	2510	1.71	1.19	2.23	0.29	45.5	8.4	10	16.95	29.4
W602971		8.16		0.39	7.07	14.9	1700	1.63	1.56	2.50	0.67	43.5	7.4	11	14.45	55.3
W602972		4.09		0.43	7.35	18.4	2020	1.60	2.69	2.42	0.65	43.6	6.7	10	16.35	81.4
W602973		4.83		1.11	7.20	34.6	160	1.50	7.75	1.98	0.46	42.6	8.4	10	13.40	74.9
W602974		5.40		0.32	7.60	12.9	2070	1.62	1.89	2.23	0.84	47.1	7.4	10	17.75	39.8
W602975		0.26		39.0	5.68	2540	340	1.15	36.9	1.66	46.0	35.3	17.9	23	10.30	1185
W602976		4.81		0.22	7.50	18.8	1190	1.44	1.12	2.02	0.44	45.4	7.8	10	16.70	59.7
W602977		3.43		0.15	7.68	20.6	1670	1.50	1.25	2.15	0.24	46.7	7.7	10	22.9	32.2
W602978		4.67		0.07	7.78	5.2	2350	1.39	0.34	2.69	0.16	41.5	7.0	11	12.90	11.7
W602979		5.37		0.08	7.62	6.0	2160	1.58	0.34	2.55	0.17	49.4	6.5	11	11.05	13.4
W602980		7.41		0.13	7.34	8.5	2120	1.57	0.66	2.50	0.20	44.1	6.4	11	10.95	28.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255749

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W602941		8.81	15.65	0.10	1.2	0.216	2.64	20.9	6.4	0.54	273	0.80	0.71	5.1	3.1	540
W602942		2.80	15.00	0.07	1.2	0.094	2.55	23.7	12.6	0.82	454	0.66	2.12	7.3	2.7	610
W602943		2.62	15.25	0.08	1.2	0.157	2.88	27.8	24.8	0.71	440	0.54	1.56	6.7	2.8	580
W602944		7.21	15.85	0.11	1.2	0.229	3.02	35.8	12.5	0.63	289	2.81	0.40	5.5	6.2	520
W602945		3.55	15.65	0.08	1.2	0.132	2.86	22.8	14.8	0.80	463	1.12	1.27	7.2	3.1	650
W602946		2.81	15.70	0.09	1.3	0.135	2.78	23.3	21.5	0.65	463	1.07	1.52	7.6	2.7	640
W602947		9.31	10.85	0.10	0.7	2.42	0.96	13.5	8.7	2.06	872	56.3	0.81	2.7	374	670
W602948		2.11	15.60	0.06	1.2	0.126	3.54	9.9	10.3	0.67	668	1.27	0.06	5.4	2.3	640
W602949		1.09	12.30	0.05	1.2	0.111	3.63	6.2	7.3	0.29	453	1.26	0.05	6.4	1.0	660
W602950		1.93	14.95	0.08	1.2	0.132	3.26	5.6	11.9	0.45	464	1.51	0.40	6.2	1.8	720
W602951		2.45	16.80	0.09	1.2	0.142	2.96	16.1	11.6	0.66	541	6.12	1.00	6.2	2.9	660
W602952		2.54	15.80	0.07	1.3	0.074	2.76	17.7	18.8	0.71	444	8.04	0.43	6.5	2.5	650
W602953		2.46	16.40	0.09	1.3	0.089	2.82	17.7	20.1	0.70	424	5.83	0.50	7.0	2.4	660
W602954		2.75	15.95	0.10	1.4	0.108	2.89	26.4	13.3	0.76	484	4.46	0.40	6.7	2.5	640
W602955		2.95	14.60	0.08	1.3	0.054	2.44	21.6	16.8	0.76	426	3.42	1.21	6.8	2.7	600
W602956		3.15	14.80	0.10	1.4	0.049	2.61	21.0	12.0	0.74	451	1.32	1.55	7.1	2.8	610
W602957		3.59	15.45	0.09	1.4	0.104	2.86	23.3	10.8	0.74	424	1.38	1.10	6.8	2.7	580
W602958		3.14	15.50	0.08	1.4	0.072	2.98	21.9	18.0	0.77	910	0.83	0.38	7.6	2.8	620
W602959		4.04	15.35	0.08	1.6	0.109	2.90	26.0	17.2	0.76	997	1.39	0.47	7.5	2.7	580
W602960		5.36	14.90	0.07	1.3	0.218	3.20	28.2	18.5	0.78	2030	1.68	0.10	6.7	2.5	610
W602961		5.50	15.70	0.10	1.5	0.237	3.19	30.2	20.6	0.79	2050	1.70	0.09	6.8	2.6	600
W602962		4.41	14.85	0.10	1.2	0.139	3.15	23.2	20.8	0.72	999	1.91	0.13	6.2	2.9	550
W602963		3.07	15.20	0.08	1.3	0.053	2.80	20.3	17.2	0.71	504	1.12	1.28	7.5	2.6	610
W602964		4.54	15.25	0.10	1.2	0.133	3.06	25.2	14.4	0.57	1140	1.85	0.47	7.2	3.0	570
W602965		3.54	15.65	0.10	1.4	0.202	3.04	23.2	13.6	0.73	808	1.08	1.06	7.2	2.6	580
W602966		4.08	14.90	0.11	1.4	0.275	3.22	27.0	15.2	0.79	973	0.87	0.28	6.6	2.6	550
W602967		0.15	0.45	<0.05	0.1	0.005	0.02	1.2	1.3	1.95	131	<0.05	0.08	0.2	0.5	80
W602968		7.11	15.25	0.08	1.2	0.179	3.06	16.4	7.6	0.34	230	12.05	0.06	3.7	2.8	480
W602969		6.07	13.75	0.11	1.1	0.469	3.07	21.4	12.7	0.41	749	4.36	0.04	5.6	3.1	490
W602970		3.24	16.40	0.13	1.4	0.078	2.70	23.5	19.1	0.71	593	5.55	1.28	8.6	5.3	660
W602971		3.36	16.00	0.13	1.1	0.062	2.61	21.9	12.2	0.76	470	8.01	1.70	8.2	3.0	630
W602972		3.23	15.90	0.13	1.2	0.052	2.64	22.6	18.8	0.82	476	1.75	1.99	8.3	2.7	640
W602973		5.25	16.30	0.10	1.0	0.120	2.76	21.6	16.7	0.72	475	6.03	1.16	7.5	3.0	640
W602974		3.55	17.10	0.13	1.1	0.082	2.60	23.6	24.4	0.78	391	3.23	1.26	8.7	3.0	720
W602975		9.07	13.50	0.08	0.8	1.575	2.59	18.3	15.5	0.67	2310	16.95	0.06	4.6	14.4	460
W602976		3.66	16.15	0.10	1.0	0.085	2.71	22.5	34.6	0.72	429	1.74	1.17	8.0	3.0	680
W602977		3.58	16.75	0.12	1.1	0.104	2.59	24.3	40.8	0.67	505	1.46	0.75	8.3	3.2	680
W602978		3.36	15.15	0.11	1.0	0.046	2.58	21.6	15.2	0.95	502	0.94	2.27	7.4	2.7	700
W602979		3.08	16.65	0.14	1.3	0.052	2.49	25.4	16.3	0.90	480	2.25	2.27	8.6	2.8	680
W602980		3.11	15.95	0.13	1.1	0.069	2.64	22.4	16.0	0.89	473	3.65	2.20	8.2	2.6	660

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255749

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W602941		76.2	149.0	<0.002	8.85	2.60	10.4	2	9.2	99.4	0.41	3.36	10.50	0.176	1.77	4.2
W602942		62.8	86.4	<0.002	0.53	2.16	9.7	1	2.9	337	0.54	0.22	10.60	0.260	1.16	3.2
W602943		86.4	113.0	<0.002	0.78	3.52	9.6	1	3.6	254	0.53	0.29	11.35	0.236	1.71	3.8
W602944		118.0	180.0	<0.002	6.58	3.19	9.1	3	11.4	94.6	0.45	1.15	12.30	0.184	1.98	4.7
W602945		22.8	106.5	<0.002	1.21	3.43	10.3	1	5.3	241	0.53	0.32	9.46	0.268	1.53	3.1
W602946		23.5	92.4	<0.002	0.38	4.16	10.1	1	2.6	298	0.59	0.28	10.40	0.275	1.35	4.3
W602947		8450	21.2	0.017	6.13	29.7	11.2	13	6.2	150.5	0.19	0.65	2.85	0.201	2.18	5.0
W602948		62.8	174.0	<0.002	1.34	7.22	9.7	1	5.9	90.5	0.44	0.33	11.50	0.194	2.99	3.4
W602949		35.6	148.0	<0.002	0.63	11.90	7.9	1	5.8	98.8	0.50	0.20	9.77	0.220	2.75	2.7
W602950		43.9	121.5	<0.002	1.39	6.53	9.9	1	6.2	134.0	0.47	0.43	9.71	0.220	2.49	4.2
W602951		67.4	111.5	<0.002	1.78	5.72	10.8	2	4.5	147.0	0.48	0.66	9.16	0.228	2.28	4.1
W602952		60.8	96.6	0.002	1.61	8.72	10.0	1	4.5	102.0	0.52	0.29	9.94	0.246	1.87	4.3
W602953		54.6	103.0	0.003	1.51	8.47	10.4	2	5.2	104.0	0.52	0.28	10.45	0.252	2.04	4.8
W602954		37.6	128.0	<0.002	1.60	10.15	10.4	1	3.9	94.8	0.52	0.24	11.65	0.234	2.16	4.6
W602955		35.3	90.1	<0.002	1.43	3.07	9.5	1	2.6	261	0.54	0.19	9.44	0.232	1.43	5.9
W602956		18.7	96.5	<0.002	1.07	1.76	9.6	1	2.6	350	0.56	0.14	10.65	0.251	1.34	3.3
W602957		30.8	133.5	<0.002	1.91	3.67	10.1	2	6.0	234	0.54	0.47	11.10	0.236	1.61	3.8
W602958		22.5	115.0	<0.002	0.95	7.77	10.0	1	2.5	138.5	0.59	0.19	10.40	0.261	2.21	5.2
W602959		84.3	132.5	<0.002	1.05	13.00	10.4	1	2.8	132.5	0.59	0.15	11.95	0.241	1.93	4.5
W602960		92.1	159.0	0.002	1.27	8.77	9.5	1	3.9	62.0	0.54	0.11	11.90	0.240	2.60	4.6
W602961		92.4	166.0	0.003	1.27	9.41	10.0	1	4.2	62.9	0.54	0.12	12.85	0.235	2.75	5.0
W602962		69.3	150.0	0.002	2.21	21.1	9.5	1	3.8	86.3	0.48	0.58	10.10	0.214	2.35	5.8
W602963		15.2	102.0	0.002	0.42	4.52	9.6	1	2.1	264	0.60	0.13	10.25	0.257	1.50	3.3
W602964		103.0	160.5	0.002	2.96	7.68	10.2	1	4.5	114.0	0.55	0.11	11.85	0.243	2.25	4.6
W602965		137.0	121.5	<0.002	0.84	3.62	9.8	1	2.9	232	0.55	0.17	10.65	0.242	1.89	3.3
W602966		116.5	164.5	<0.002	1.41	6.02	9.8	1	3.6	118.0	0.54	0.67	11.65	0.219	2.37	4.9
W602967		1.0	0.8	<0.002	<0.01	0.06	0.3	2	<0.2	76.7	<0.05	<0.05	0.12	0.009	<0.02	0.2
W602968		63.6	168.0	0.002	7.34	8.94	8.8	2	12.7	22.1	0.30	0.69	8.82	0.135	2.02	2.5
W602969		155.5	183.0	0.002	5.24	348	9.5	1	8.4	13.5	0.40	0.20	10.35	0.208	2.48	6.1
W602970		23.1	113.0	0.002	0.68	8.11	11.8	1	3.1	225	0.67	0.28	13.10	0.278	1.67	4.3
W602971		39.5	103.5	<0.002	1.39	3.61	10.8	1	5.0	280	0.64	0.58	12.50	0.260	1.45	4.0
W602972		36.2	98.2	<0.002	1.28	4.98	11.1	1	2.7	281	0.68	1.46	12.10	0.268	1.38	4.8
W602973		34.8	125.5	0.002	3.59	9.57	11.7	2	6.3	197.5	0.59	1.70	11.70	0.252	1.55	4.6
W602974		41.8	99.7	0.002	1.27	10.10	12.5	1	3.6	225	0.64	0.53	12.00	0.293	1.36	4.1
W602975		1635	150.0	0.002	7.74	102.5	8.4	2	10.2	61.8	0.38	0.71	9.47	0.163	2.09	5.4
W602976		25.5	101.0	<0.002	1.51	13.00	12.0	1	3.2	241	0.58	0.27	11.05	0.293	1.39	3.1
W602977		15.4	100.0	<0.002	1.30	16.10	12.0	1	2.8	202	0.60	0.46	12.20	0.284	1.33	4.1
W602978		13.8	90.6	<0.002	0.31	1.75	11.2	1	1.8	411	0.55	0.06	11.00	0.299	1.01	3.3
W602979		16.1	101.0	<0.002	0.19	2.26	11.8	1	2.3	395	0.66	0.08	12.90	0.288	1.10	4.6
W602980		16.9	102.0	0.003	0.66	2.30	11.6	1	2.7	335	0.62	0.14	12.30	0.276	1.23	3.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255749

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W602941		66	3.5	11.9	59	35.5	>10.0
W602942		72	0.8	14.9	78	40.0	0.036
W602943		69	1.1	13.9	106	35.0	0.112
W602944		64	2.3	14.1	109	37.5	0.994
W602945		79	1.2	15.2	73	37.6	0.169
W602946		76	1.0	15.4	83	41.0	0.118
W602947		385	5.1	11.8	7930	24.9	1.375
W602948		70	3.6	13.0	91	38.4	0.156
W602949		60	5.1	9.4	53	37.8	0.077
W602950		75	2.7	11.6	59	39.1	0.168
W602951		87	1.6	13.0	113	36.4	0.124
W602952		76	1.9	12.6	105	38.3	0.141
W602953		78	2.0	12.2	109	40.0	0.092
W602954		73	1.5	14.5	90	40.5	0.064
W602955		68	1.0	13.6	60	40.2	0.026
W602956		71	1.1	13.6	40	42.7	0.031
W602957		70	2.0	13.7	51	42.7	0.054
W602958		73	2.4	14.2	100	43.0	0.025
W602959		70	3.1	14.3	166	44.8	0.033
W602960		70	5.1	14.5	309	39.0	0.130
W602961		70	5.4	15.0	311	41.3	0.099
W602962		66	2.4	13.0	164	35.3	0.065
W602963		72	0.9	14.4	44	39.9	0.007
W602964		68	4.0	12.4	181	39.4	0.099
W602965		67	2.4	14.7	171	43.0	0.939
W602966		65	2.2	14.2	211	41.9	0.094
W602967		2	<0.1	2.4	4	1.9	<0.005
W602968		59	7.1	7.7	26	33.4	0.282
W602969		68	6.8	8.6	206	34.8	1.105
W602970		76	3.3	15.3	64	42.1	0.031
W602971		71	1.9	14.1	80	29.7	0.028
W602972		73	1.3	14.4	76	32.9	0.025
W602973		72	2.1	14.2	67	28.3	0.263
W602974		81	2.7	15.6	93	31.5	0.032
W602975		55	7.0	9.7	3350	24.4	1.670
W602976		81	1.9	15.1	55	27.5	0.022
W602977		78	2.0	15.8	45	29.6	0.014
W602978		82	1.2	14.7	43	28.2	0.006
W602979		77	2.0	15.9	41	37.0	<0.005
W602980		76	0.8	15.9	45	33.1	0.014

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255749

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
	Au-AA24	Au-GRA22	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255752

Project: Klaza

P.O. No.: 19-121

This report is for 7 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255752

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595901		4.22	0.11	7.37	27.3	830	1.55	2.15	2.52	0.13	44.6	25.8	13	13.35	10.1	3.54
W595902		5.41	0.14	7.11	32.1	2710	1.58	0.97	3.55	0.55	45.1	8.4	12	13.40	10.9	3.30
W595903		5.03	0.11	7.26	16.0	2530	1.64	0.78	2.65	0.16	46.2	11.9	14	14.25	21.3	3.20
W595904		4.97	0.14	7.50	10.4	2550	1.61	0.51	2.70	0.23	48.3	6.7	14	13.10	24.9	3.11
W595905		3.38	0.27	7.45	10.6	2820	1.47	0.80	2.87	0.21	42.9	7.2	13	15.20	49.0	3.07
W595906		3.81	0.38	7.75	21.4	2910	1.58	2.00	2.49	0.24	43.6	6.5	16	14.45	166.5	3.10
W591701		5.01	0.01	0.20	<0.2	40	0.12	0.14	34.5	0.02	1.25	0.6	2	0.08	2.6	0.12

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255752

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595901		15.85	0.14	0.9	0.131	2.84	23.3	11.8	0.66	471	7.79	1.38	8.1	3.1	660	12.9
W595902		16.45	0.14	0.8	0.185	2.72	23.6	14.7	0.94	630	23.1	1.60	8.4	2.6	660	21.9
W595903		17.65	0.17	0.9	0.073	2.60	24.2	12.0	0.88	526	3.72	2.35	8.8	3.1	660	16.1
W595904		17.00	0.15	0.9	0.076	2.72	24.9	10.4	0.85	542	4.30	2.41	8.7	2.8	650	20.6
W595905		16.00	0.15	0.9	0.071	2.76	22.1	9.3	0.81	536	3.91	2.12	7.8	2.7	630	18.6
W595906		17.50	0.14	0.8	0.181	2.85	23.0	11.9	0.81	525	5.82	2.06	8.4	2.8	650	19.5
W591701		0.72	0.14	0.1	0.005	0.06	1.3	1.1	1.84	116	0.08	0.11	0.4	0.5	60	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255752

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595901		125.0	0.002	1.63	3.27	11.5	1	3.2	259	0.61	0.88	11.55	0.274	1.66	4.1	73
W595902		101.5	0.006	0.80	2.97	11.0	1	3.2	342	0.61	0.36	11.20	0.272	1.40	3.9	74
W595903		100.5	<0.002	0.44	1.76	12.2	1	2.7	427	0.62	0.31	11.65	0.280	1.21	3.5	75
W595904		111.5	<0.002	0.21	1.72	11.7	1	2.7	423	0.66	0.11	13.25	0.272	1.31	3.9	74
W595905		106.5	<0.002	0.36	2.10	11.1	1	2.5	413	0.56	0.23	11.10	0.271	1.28	3.6	73
W595906		111.0	<0.002	0.59	4.04	11.5	1	3.3	379	0.63	0.61	12.20	0.279	1.47	3.6	75
W591701		1.9	<0.002	<0.01	0.08	0.2	1	<0.2	82.1	<0.05	<0.05	0.26	0.005	0.03	0.2	1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255752

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595901		1.6	14.1	40	21.7	0.013
W595902		1.4	17.7	62	21.6	0.009
W595903		1.1	17.3	44	24.5	0.006
W595904		1.3	17.7	50	23.9	0.006
W595905		1.8	15.6	48	22.3	0.006
W595906		4.3	15.7	53	22.1	0.034
W591701		<0.1	2.5	4	3.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255752

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255758

Project: Klaza

P.O. No.: 19-114

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255758

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W602901		5.49	0.16	7.54	9.4	2020	1.66	0.84	2.41	0.14	40.8	6.4	13	7.89	34.4	2.54
W602902		6.39	0.14	7.25	10.4	2250	1.48	1.34	2.23	0.10	42.7	6.5	11	8.65	15.6	2.69
W602903		5.96	0.28	7.21	18.0	1900	1.57	1.72	2.46	0.17	44.1	6.2	11	8.72	53.9	2.82
W602904		4.62	0.15	7.22	8.6	2200	1.63	1.20	2.55	0.13	42.1	6.2	10	9.23	20.1	2.70
W602905		4.51	0.57	7.33	46.4	2010	1.51	3.54	2.31	0.16	49.4	7.0	10	10.05	75.2	3.40
W602906		4.69	5.02	7.29	97.0	750	1.34	50.3	1.51	1.06	46.9	11.1	10	12.50	133.5	4.21
W602907		7.77	0.41	7.11	53.9	2100	1.55	3.97	2.17	0.36	50.8	8.6	10	13.20	81.6	2.88
W602908		<0.02	0.40	7.39	44.3	2290	1.65	5.02	2.24	0.30	50.3	9.4	11	13.45	48.0	2.97
W602909		4.29	0.56	7.69	50.2	2090	1.62	0.98	2.11	3.62	55.1	8.9	10	14.75	23.4	3.29
W602910		2.69	0.77	7.61	64.7	1940	1.67	1.43	2.07	4.65	52.2	12.8	9	15.65	25.4	3.53
W602911		1.91	7.44	6.77	141.0	150	1.16	9.93	0.18	0.74	70.5	52.4	8	4.57	52.8	5.78
W602912		3.44	1.51	7.53	100.5	1230	1.57	2.52	1.24	1.58	59.2	26.7	11	14.20	120.5	4.30
W602913		5.09	0.03	0.08	<0.2	20	0.06	0.06	32.8	0.03	1.12	0.7	1	0.05	2.6	0.15
W602914		2.35	4.04	7.81	204	1030	1.61	4.23	0.97	10.90	64.1	18.7	8	19.55	304	3.82
W602915		3.49	6.28	7.13	231	210	1.29	9.29	0.54	3.28	79.1	73.2	10	5.17	244	5.34
W602916		3.08	2.18	7.24	154.0	390	1.30	5.06	0.04	0.85	53.7	18.0	9	4.55	147.0	3.78
W602917		4.75	3.78	7.13	226	140	1.28	7.37	0.30	1.05	69.0	21.5	10	6.08	102.0	5.27
W602918		3.06	0.90	7.51	71.6	1430	1.64	1.91	1.91	2.19	70.8	12.8	9	13.80	142.5	3.36
W602919		3.73	1.07	7.19	85.2	920	1.61	2.70	2.28	0.79	59.0	20.0	9	12.50	103.5	3.79
W602920		4.73	0.30	7.01	21.8	2130	1.48	1.22	2.42	1.63	48.0	8.5	12	10.30	17.3	2.66
W602921		2.15	0.14	6.93	30.4	2290	1.58	1.45	2.51	0.16	50.0	19.4	10	14.00	19.4	2.75
W602922		2.77	0.12	6.99	31.5	2350	1.55	1.80	2.53	0.17	50.2	20.3	9	14.25	12.0	2.78
W602923		2.54	4.57	6.59	101.5	180	1.28	7.47	2.23	0.40	53.2	118.0	9	10.40	7.4	5.71
W602924		2.72	1.37	6.34	172.0	130	1.24	41.4	1.49	0.37	59.0	201	9	9.85	125.0	9.03
W602925		3.10	0.42	6.99	34.8	2020	1.51	1.09	2.56	1.03	47.7	14.4	10	12.05	19.0	2.95
W602926		3.25	0.27	6.81	21.6	1920	1.50	0.59	3.01	0.50	40.3	6.6	10	19.80	10.1	2.92
W602927		4.48	0.71	7.33	171.5	2510	1.54	0.53	2.65	3.63	45.9	8.9	12	10.80	7.4	3.04
W602928		5.02	1.88	7.38	301	2440	1.50	0.81	2.67	31.2	45.0	7.9	12	10.65	16.3	2.94
W602929		4.71	0.65	7.12	40.0	2040	1.56	1.55	2.48	0.31	45.2	7.0	10	12.05	45.6	3.18
W602930		0.26	40.9	5.79	2610	500	1.19	37.6	1.66	47.5	36.6	17.8	23	10.60	1210	9.19
W602931		5.05	0.18	6.87	21.5	1900	1.28	0.79	2.10	0.23	46.0	23.3	9	11.60	8.4	2.91
W602932		5.86	0.16	6.93	13.2	2320	1.49	0.61	2.49	0.43	48.3	9.7	11	13.80	10.5	2.74
W602933		6.49	0.91	7.18	57.8	1720	1.64	2.47	2.00	2.77	31.4	5.8	9	16.60	39.9	2.72
W602934		6.11	0.17	7.26	24.5	2060	1.40	1.38	1.79	0.37	41.0	6.2	9	16.70	31.5	2.25
W602935		0.26	40.0	5.53	2500	240	1.14	35.5	1.61	45.1	34.1	16.7	23	10.10	1165	8.86
W602936		5.75	0.67	7.21	38.0	1710	1.34	1.83	2.17	0.31	11.05	2.4	9	11.80	47.4	1.74
W602937		2.49	0.36	7.97	34.0	1150	1.49	1.68	1.43	0.44	42.2	8.1	10	19.20	49.9	2.39
W602938		3.29	0.39	6.97	104.5	1410	1.35	0.87	2.12	0.48	61.6	24.5	8	26.9	22.2	3.42
W602939		5.15	0.25	7.00	54.2	1500	1.55	2.30	2.23	0.61	50.1	10.6	8	25.7	87.1	3.26
W602940		5.11	0.16	7.06	10.1	2250	1.51	1.43	2.48	0.22	44.6	6.6	10	12.40	34.7	2.78

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255758

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W602901		15.35	0.07	1.3	0.063	2.35	21.0	16.4	0.88	522	1.10	2.48	7.9	3.0	640	12.9
W602902		14.50	0.07	1.3	0.064	2.62	22.0	14.1	0.82	478	1.38	1.82	7.5	2.7	620	13.0
W602903		14.70	0.09	1.3	0.096	2.45	23.0	11.5	0.79	527	1.97	2.13	7.3	2.5	620	14.3
W602904		14.80	0.07	1.4	0.066	2.58	21.7	11.2	0.77	508	2.52	2.17	7.9	2.6	620	13.8
W602905		14.85	0.08	1.3	0.197	2.91	25.7	8.7	0.62	454	3.03	1.52	7.0	3.7	570	19.1
W602906		14.65	0.07	1.3	0.172	2.96	25.2	13.4	0.55	514	3.99	0.34	6.6	3.8	600	91.7
W602907		15.20	0.09	1.5	0.093	2.93	27.1	12.4	0.72	572	4.95	1.27	7.6	2.7	600	20.0
W602908		15.35	0.10	1.5	0.082	3.07	26.3	12.5	0.76	581	4.70	1.44	8.1	2.7	610	19.2
W602909		15.70	0.08	1.5	0.117	3.08	30.3	19.0	0.79	653	4.05	0.93	7.7	2.8	650	135.5
W602910		15.60	0.09	1.4	0.233	3.10	27.4	20.9	0.76	1280	9.22	0.11	7.3	2.6	660	95.5
W602911		13.55	0.09	1.3	0.183	3.31	41.0	4.5	0.32	403	14.50	0.05	4.8	2.3	610	74.8
W602912		14.60	0.08	1.4	0.132	2.84	34.0	42.0	0.62	1260	4.03	0.05	6.8	2.8	630	57.7
W602913		0.24	<0.05	0.1	<0.005	0.02	1.2	0.9	2.01	131	0.14	0.03	0.1	0.8	80	0.6
W602914		16.00	0.07	1.6	0.516	2.87	36.5	35.8	0.50	1140	3.41	0.04	7.5	2.8	580	306
W602915		16.40	0.10	1.3	0.251	3.49	48.0	4.6	0.45	735	15.40	0.05	4.4	3.1	610	101.0
W602916		19.35	0.09	1.4	0.257	3.64	30.5	4.8	0.31	70	2.13	0.06	4.7	2.0	300	62.3
W602917		17.30	0.10	1.4	0.228	3.39	37.2	5.7	0.35	182	17.00	0.19	4.9	2.5	480	111.5
W602918		15.50	0.10	1.4	0.203	3.64	39.1	7.4	0.84	1160	1.67	0.25	5.9	2.7	670	42.6
W602919		16.25	0.09	1.4	0.189	3.21	32.6	28.3	0.83	796	1.76	0.30	7.2	2.8	620	67.5
W602920		15.05	0.08	1.3	0.140	2.74	25.3	9.1	0.76	519	1.31	1.87	7.1	2.7	610	84.1
W602921		15.85	0.08	1.4	0.082	2.67	26.4	13.5	0.73	505	0.97	1.68	8.0	2.8	620	17.8
W602922		15.35	0.08	1.4	0.079	2.70	27.1	13.1	0.73	472	1.01	1.63	7.3	2.6	600	19.2
W602923		12.95	0.07	1.2	0.112	2.36	30.3	10.2	0.76	760	4.42	1.53	6.1	4.1	540	40.2
W602924		13.40	0.11	1.2	0.235	3.00	33.9	18.9	0.61	828	10.65	0.11	5.4	5.5	550	20.0
W602925		15.80	0.07	1.6	0.080	2.51	25.0	10.9	0.73	630	1.60	1.69	7.7	2.8	600	132.0
W602926		14.35	0.06	1.5	0.057	2.59	20.3	18.6	0.85	813	1.26	1.34	7.5	2.4	610	26.8
W602927		15.95	0.08	1.5	0.066	2.67	23.7	10.3	0.79	553	1.01	2.08	8.1	2.7	620	83.7
W602928		15.70	0.06	1.5	0.179	2.74	23.9	8.0	0.76	556	1.24	2.00	7.6	2.7	600	628
W602929		15.25	0.08	1.4	0.079	2.72	23.4	9.0	0.72	610	0.94	1.68	7.3	2.5	600	27.5
W602930		13.60	0.08	0.8	1.635	2.64	19.3	14.7	0.67	2330	17.25	0.06	4.5	14.8	450	1655
W602931		14.85	0.08	1.4	0.071	2.40	24.5	18.2	0.68	533	1.44	1.10	7.6	2.6	580	19.5
W602932		15.45	0.08	1.3	0.075	2.56	25.4	7.9	0.72	470	1.14	2.01	7.7	2.5	600	27.3
W602933		14.90	0.06	1.4	0.156	2.95	16.3	15.6	0.60	430	0.77	0.48	6.4	2.0	590	149.5
W602934		17.00	0.07	1.4	0.098	2.67	20.3	22.6	0.44	420	0.69	0.50	8.7	2.2	640	29.5
W602935		12.80	0.09	0.8	1.530	2.54	17.8	14.0	0.64	2230	16.30	0.06	4.3	13.6	430	1610
W602936		15.10	<0.05	1.4	0.098	3.62	4.5	8.9	0.51	397	0.79	0.51	6.9	1.1	670	32.9
W602937		17.60	0.07	1.3	0.100	2.83	23.8	32.7	0.56	548	0.89	0.06	7.2	2.1	690	23.8
W602938		14.95	0.09	1.3	0.100	2.64	34.6	13.3	0.71	822	1.24	0.05	6.6	3.3	560	50.0
W602939		14.75	0.06	1.4	0.108	2.79	26.2	15.8	0.61	580	0.92	0.27	7.0	2.5	570	38.8
W602940		14.95	0.07	1.4	0.065	2.65	23.0	10.4	0.71	432	0.45	2.03	7.4	2.3	590	19.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255758

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W602901		75.3	<0.002	0.08	3.49	10.2	1	3.3	343	0.59	0.34	10.75	0.265	0.99	3.2	74
W602902		86.5	<0.002	0.17	3.90	10.0	1	2.3	294	0.59	0.65	10.35	0.259	1.03	2.1	72
W602903		84.5	<0.002	0.33	2.21	9.8	1	3.6	320	0.56	0.31	11.05	0.241	1.03	2.2	70
W602904		80.6	0.002	0.13	1.99	10.0	1	2.6	346	0.66	0.18	10.60	0.262	1.01	2.4	72
W602905		111.5	<0.002	1.16	2.94	9.3	1	3.8	275	0.66	0.46	14.75	0.241	1.15	3.2	66
W602906		131.0	<0.002	2.11	12.50	9.4	1	7.0	85.2	0.59	5.55	13.05	0.240	1.50	2.9	66
W602907		118.5	<0.002	0.51	4.52	10.1	1	3.8	236	0.71	1.79	14.45	0.251	1.46	4.2	70
W602908		116.5	<0.002	0.46	4.28	10.2	1	3.4	261	0.74	2.40	14.00	0.271	1.47	3.8	74
W602909		125.0	<0.002	0.49	4.81	10.7	1	3.6	214	0.64	0.35	14.75	0.275	1.61	2.7	75
W602910		137.0	0.004	0.75	5.52	10.5	1	5.4	114.0	0.60	0.31	13.80	0.264	2.04	3.7	74
W602911		192.0	<0.002	4.92	3.63	8.3	1	15.8	18.0	0.40	4.75	12.25	0.169	1.94	3.2	55
W602912		156.0	<0.002	1.31	12.20	9.7	1	4.7	83.4	0.57	0.33	14.25	0.240	2.04	3.8	66
W602913		0.8	<0.002	0.01	0.07	0.2	1	<0.2	77.0	<0.05	<0.05	0.10	0.005	0.02	0.1	1
W602914		159.0	<0.002	1.37	70.6	10.0	1	5.9	73.4	0.67	0.51	16.00	0.247	2.08	4.6	72
W602915		197.0	<0.002	4.79	35.8	10.0	1	16.8	16.7	0.37	0.76	12.00	0.176	2.20	3.1	74
W602916		211	<0.002	3.54	9.78	10.0	1	22.7	24.5	0.39	0.62	12.20	0.179	2.27	2.5	71
W602917		187.5	0.002	5.17	10.35	9.8	1	12.9	42.2	0.43	1.17	13.50	0.178	2.30	3.7	68
W602918		210	<0.002	1.30	11.05	10.2	<1	5.6	93.8	0.49	0.45	13.55	0.225	2.83	3.3	74
W602919		170.5	<0.002	2.08	18.35	11.0	1	7.4	131.5	0.57	0.57	13.20	0.240	2.26	4.1	71
W602920		117.0	<0.002	0.32	2.84	9.8	1	3.7	305	0.56	0.22	11.55	0.251	1.56	3.4	70
W602921		100.0	<0.002	0.44	3.48	10.3	1	3.9	290	0.60	0.73	11.95	0.261	1.37	3.0	72
W602922		102.5	<0.002	0.48	2.83	10.2	1	3.1	295	0.56	0.96	11.90	0.254	1.35	3.1	72
W602923		109.0	<0.002	4.16	2.35	8.5	2	3.7	224	0.49	4.43	12.20	0.208	1.30	3.5	63
W602924		179.5	<0.002	8.24	5.49	8.3	3	8.8	78.4	0.44	24.0	11.50	0.184	2.14	3.1	57
W602925		91.6	<0.002	0.62	3.59	10.1	1	3.3	299	0.63	0.60	12.55	0.254	1.16	2.8	71
W602926		85.1	<0.002	0.26	4.95	9.4	1	1.9	259	0.60	0.29	11.30	0.251	1.17	3.6	70
W602927		94.6	<0.002	0.62	8.53	10.4	<1	2.5	375	0.63	0.13	12.55	0.274	1.00	3.0	74
W602928		106.5	<0.002	0.71	223	10.2	1	5.6	364	0.63	0.26	12.85	0.262	1.13	3.2	72
W602929		107.5	<0.002	0.65	3.52	10.1	1	3.6	315	0.56	0.20	12.35	0.254	1.19	3.4	70
W602930		152.5	<0.002	7.89	106.0	8.0	2	11.2	63.6	0.36	0.73	9.73	0.167	2.09	5.2	56
W602931		89.9	<0.002	0.81	7.37	9.6	1	2.9	216	0.60	0.27	12.40	0.241	1.12	3.5	66
W602932		97.5	<0.002	0.45	2.65	10.0	<1	3.1	353	0.60	0.16	12.15	0.252	1.13	3.7	70
W602933		138.0	<0.002	1.47	11.40	9.4	1	5.8	145.0	0.54	0.78	13.15	0.223	1.78	4.6	61
W602934		99.6	<0.002	0.51	8.77	10.7	1	3.6	131.5	0.64	0.50	12.85	0.266	1.51	3.0	72
W602935		140.5	0.002	7.64	100.5	7.6	1	10.5	60.7	0.35	0.71	9.16	0.162	2.01	5.0	54
W602936		151.5	<0.002	0.73	6.62	8.5	1	8.3	120.5	0.57	0.51	10.70	0.240	2.51	3.8	58
W602937		130.5	<0.002	0.48	16.15	11.4	1	4.3	75.7	0.54	0.34	12.75	0.274	1.91	7.3	78
W602938		126.0	<0.002	1.22	9.60	10.0	1	3.3	76.8	0.54	0.43	13.95	0.224	1.98	5.4	65
W602939		118.5	<0.002	0.96	8.55	9.2	1	4.6	104.0	0.66	0.22	13.30	0.238	1.93	5.6	66
W602940		93.5	<0.002	0.44	2.24	9.6	<1	2.6	336	0.63	0.15	12.95	0.248	0.99	3.8	67

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255758

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W602901		1.3	15.0	43	37.5	0.009
W602902		2.0	14.3	39	34.1	0.009
W602903		1.0	15.3	44	35.7	0.014
W602904		0.8	15.2	43	39.1	0.014
W602905		1.0	15.0	55	37.2	0.198
W602906		2.9	14.8	142	37.4	3.38
W602907		1.5	16.8	68	43.3	0.025
W602908		1.4	17.0	65	43.0	0.027
W602909		2.4	16.4	343	43.8	0.080
W602910		3.4	15.9	434	41.3	0.034
W602911		6.1	10.7	73	35.9	0.176
W602912		5.4	14.6	227	42.3	0.036
W602913		<0.1	2.1	10	1.9	<0.005
W602914		6.0	15.1	998	46.3	0.156
W602915		7.3	9.3	305	37.2	0.160
W602916		10.0	6.1	36	41.5	0.138
W602917		7.3	9.9	74	41.1	0.275
W602918		2.3	13.6	165	41.9	0.059
W602919		2.0	15.3	107	41.1	0.099
W602920		1.2	14.7	175	40.4	0.047
W602921		1.0	15.4	48	42.8	0.014
W602922		1.0	15.2	48	41.3	0.014
W602923		1.1	13.3	67	35.3	0.235
W602924		2.3	13.4	74	35.5	0.313
W602925		0.9	15.7	151	42.8	0.023
W602926		1.3	14.9	75	43.7	0.010
W602927		1.1	17.5	194	46.0	0.009
W602928		1.1	16.6	1180	43.8	0.025
W602929		1.2	14.9	60	42.4	0.055
W602930		7.1	10.0	3380	24.8	1.755
W602931		2.2	15.3	55	42.5	0.035
W602932		1.0	15.3	66	41.0	0.010
W602933		2.9	14.2	241	41.3	0.092
W602934		3.3	15.6	67	42.9	0.019
W602935		7.0	9.2	3260	22.9	1.625
W602936		3.9	11.0	49	43.0	0.035
W602937		1.9	13.7	86	40.9	0.058
W602938		1.9	14.4	92	37.9	0.086
W602939		1.9	15.0	103	41.0	0.033
W602940		0.7	15.1	48	43.1	0.098

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255758

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255759

Project: Klaza

P.O. No.: 19-123

This report is for 30 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255759

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
W594434		4.60	1.32	7.77	262	1490	1.58	1.93	2.14	1.54	60.8	8.9	11	18.50	37.9	4.23
W594435		4.69	0.56	8.13	43.7	1640	1.87	1.40	2.06	1.99	55.9	7.4	12	16.15	25.2	5.35
W594436		3.34	7.72	6.17	717	260	1.36	12.30	3.29	37.0	46.0	23.4	10	14.30	197.0	6.29
W594437		2.79	1.11	7.36	21.2	1780	1.87	1.74	2.59	1.18	46.3	6.6	11	15.35	71.2	3.14
W594438		4.71	0.23	7.63	10.2	2390	2.03	1.12	2.41	0.20	44.2	6.6	14	10.10	19.0	2.91
W594439		2.42	0.13	7.40	8.9	2450	1.48	0.48	2.42	0.17	53.5	6.9	13	14.65	19.8	2.82
W594440		2.10	0.14	7.21	10.0	2480	1.64	0.47	2.33	0.14	51.6	7.0	12	16.05	22.8	2.83
W594441		4.75	0.23	7.33	15.9	2570	1.58	0.77	2.70	0.18	43.4	6.4	17	11.90	34.4	2.94
W594442		4.58	0.12	7.45	7.8	2370	1.73	0.61	2.73	0.13	46.1	7.2	14	9.16	20.2	2.84
W594443		2.89	2.14	7.41	105.5	300	1.54	4.35	1.58	1.85	48.4	29.0	11	11.15	158.0	5.17
W594444		4.82	1.72	7.59	1500	940	1.37	3.74	1.54	1.94	50.9	8.4	10	14.05	76.3	4.26
W594445		3.65	0.39	7.14	20.3	1790	1.31	11.30	2.07	0.10	34.6	5.1	11	10.50	41.9	2.63
W594446		1.20	0.36	7.26	25.6	2250	1.59	1.22	2.33	0.16	39.3	7.1	13	8.20	166.5	2.92
W594447		5.03	0.32	7.64	12.8	2410	1.63	0.87	2.60	0.13	44.0	7.1	16	7.46	84.0	3.04
W594448		<0.02	0.32	7.54	13.0	2400	1.79	0.87	2.60	0.16	39.9	7.5	12	7.63	88.1	3.04
W594449		4.48	0.17	7.67	9.4	2400	1.57	0.48	2.84	0.12	43.3	8.5	15	7.40	28.8	3.14
W594450		6.44	0.20	7.20	14.9	2270	1.74	0.67	2.71	0.20	40.4	8.8	15	8.08	31.1	2.95
W595907		4.95	0.09	7.56	6.3	2350	1.57	0.16	2.73	0.11	45.9	8.1	14	5.95	10.1	3.02
W595908		5.15	0.09	7.55	8.5	2330	1.67	0.15	2.61	0.12	48.8	8.1	15	6.00	12.1	2.97
W595909		4.64	0.14	7.40	8.1	2420	1.69	0.26	2.75	0.10	41.0	7.8	15	6.53	21.6	3.06
W595910		5.57	0.22	7.57	9.7	2440	1.57	0.65	2.81	0.14	45.2	7.7	16	7.14	37.6	3.17
W595911		3.96	0.40	7.59	17.1	2230	1.58	1.13	2.56	0.13	46.4	8.9	13	7.81	71.5	3.04
W595912		0.26	39.3	5.71	2560	130	1.19	35.9	1.68	46.0	36.9	17.5	24	9.78	1145	9.10
W595913		3.85	9.00	6.74	36.6	2060	1.75	1.72	2.73	0.17	42.9	25.3	11	13.05	45.9	3.18
W595914		1.68	1.79	5.38	588	420	1.24	3.37	6.18	5.68	45.3	8.0	7	14.80	69.2	3.81
W595915		2.63	0.52	7.41	45.2	1710	1.70	2.28	2.04	0.23	39.4	14.0	11	7.71	106.5	3.24
W594453		4.47	1.77	7.72	128.5	2520	1.58	1.11	1.57	8.10	50.8	9.7	14	16.90	74.3	3.16
W594454		3.00	1.27	6.25	75.0	2640	1.65	0.53	2.77	9.81	26.4	8.6	9	17.05	24.2	2.87
W594455		1.08	0.79	6.23	71.0	1830	1.33	0.71	2.98	12.30	24.9	6.3	8	15.90	29.6	3.13
W594456		2.15	1.42	7.45	136.5	1430	1.54	0.78	2.33	2.47	47.4	5.5	9	19.85	50.7	3.33

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594434		16.60	0.11	1.2	0.255	3.18	33.9	20.5	0.91	1520	1.03	0.33	7.8	2.7	580	81.4
W594435		17.80	0.12	1.2	0.208	3.11	30.0	12.0	0.96	2010	1.44	1.00	8.6	2.6	630	63.2
W594436		14.35	0.10	1.0	0.580	2.77	25.2	11.7	0.67	1760	5.75	0.08	6.9	2.5	490	221
W594437		17.20	0.11	1.2	0.337	3.02	22.7	13.6	0.79	1320	4.01	1.10	9.2	2.5	650	37.8
W594438		17.50	0.15	1.1	0.096	2.80	22.1	15.4	0.83	586	3.85	2.24	9.0	2.9	640	19.6
W594439		15.80	0.15	0.9	0.072	2.73	29.8	13.3	0.81	565	1.72	2.19	7.6	4.4	600	20.0
W594440		15.95	0.14	0.9	0.067	2.74	27.3	14.5	0.80	563	1.39	2.21	7.6	3.0	610	18.8
W594441		16.00	0.14	0.9	0.177	2.71	21.8	14.1	0.80	701	2.98	2.27	7.6	2.7	640	18.4
W594442		16.35	0.18	0.9	0.077	2.56	23.8	9.8	0.80	610	4.32	2.35	7.7	2.8	630	18.9
W594443		15.70	0.13	0.8	0.185	3.12	26.4	18.9	0.58	978	1.61	0.13	7.0	3.1	630	85.1
W594444		16.00	0.12	0.9	0.239	2.68	27.3	19.9	0.72	1080	1.60	0.33	7.6	2.7	650	66.8
W594445		15.60	0.11	1.2	0.119	2.68	16.0	27.0	0.61	620	3.61	0.59	8.1	1.9	610	17.6
W594446		16.30	0.13	0.8	0.158	2.60	19.3	20.1	0.69	592	1.51	1.57	7.9	2.6	640	20.2
W594447		15.90	0.17	0.8	0.091	2.52	22.7	11.7	0.85	732	1.64	1.95	7.6	2.7	660	21.5
W594448		16.85	0.13	0.8	0.086	2.52	20.0	11.9	0.85	745	1.35	1.94	7.9	2.9	650	21.9
W594449		16.60	0.19	0.9	0.062	2.55	21.9	10.6	0.92	707	8.89	2.35	8.0	2.9	670	18.5
W594450		16.15	0.16	1.1	0.069	2.52	19.6	13.0	0.88	644	9.12	2.21	8.6	2.8	620	21.7
W595907		16.20	0.16	1.0	0.040	2.65	22.9	11.4	0.94	664	5.68	2.41	8.2	2.7	640	18.0
W595908		16.20	0.16	1.0	0.039	2.71	25.5	11.2	0.92	632	3.56	2.39	8.3	2.8	610	17.4
W595909		15.50	0.16	0.8	0.053	2.63	20.3	10.6	0.90	634	8.50	2.38	7.7	2.7	650	15.8
W595910		16.05	0.17	0.8	0.073	2.65	23.1	9.0	0.91	729	5.81	2.24	7.7	2.9	660	17.0
W595911		16.05	0.19	0.9	0.164	2.48	23.9	15.5	0.80	785	7.94	1.86	7.6	3.0	630	18.7
W595912		13.60	0.13	0.8	1.545	2.58	17.5	16.0	0.67	2300	16.10	0.06	4.7	14.5	450	1630
W595913		15.30	0.12	0.7	0.574	2.12	21.9	16.9	0.88	963	2.33	0.87	6.4	3.9	600	13.6
W595914		12.15	0.13	0.8	0.179	2.27	25.0	18.2	1.39	1700	0.87	0.09	5.4	2.2	420	302
W595915		15.70	0.15	0.8	0.359	1.99	19.5	12.9	0.68	929	1.75	1.91	6.9	3.2	630	22.0
W594453		16.75	0.16	1.1	0.179	3.23	26.6	17.7	0.42	1280	7.48	0.71	8.4	4.3	620	132.0
W594454		15.95	0.13	1.1	0.130	3.39	11.9	17.8	0.26	2120	5.57	0.55	7.9	2.9	580	176.0
W594455		16.90	0.10	1.1	0.197	2.83	10.2	22.8	0.39	2200	2.70	0.09	8.9	2.5	680	46.0
W594456		16.25	0.14	1.2	0.201	3.35	24.1	12.2	0.70	1780	3.08	0.04	7.8	2.6	610	27.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594434		149.0	<0.002	1.06	8.37	10.4	1	3.9	93.6	0.63	0.61	16.70	0.241	2.07	5.2	67
W594435		147.5	<0.002	0.62	6.48	11.9	1	4.3	185.5	0.63	0.09	14.35	0.265	1.99	5.6	75
W594436		159.0	0.008	4.15	13.10	9.0	2	6.4	103.0	0.60	1.62	10.85	0.201	2.03	6.5	56
W594437		135.0	0.007	0.33	7.59	10.4	1	4.7	208	0.88	0.25	12.75	0.256	1.83	5.3	70
W594438		102.0	0.004	0.17	3.64	11.3	<1	3.5	411	0.74	0.06	11.95	0.269	1.12	3.4	74
W594439		100.5	0.002	0.21	2.85	10.3	<1	2.6	410	0.57	0.13	12.90	0.251	1.01	3.6	70
W594440		94.8	0.002	0.20	2.86	10.6	<1	3.2	400	0.60	0.08	13.20	0.256	1.06	3.5	71
W594441		85.1	0.003	0.30	3.44	10.6	<1	3.1	368	0.56	0.11	10.15	0.273	1.09	3.3	76
W594442		82.2	0.006	0.21	2.21	11.1	<1	3.4	400	0.56	0.13	10.65	0.269	0.95	3.5	74
W594443		158.5	<0.002	3.30	14.90	11.1	1	8.4	71.2	0.51	1.23	11.35	0.250	1.91	3.7	74
W594444		119.0	0.002	1.91	18.75	11.6	<1	3.7	99.1	0.56	0.81	13.05	0.266	1.46	4.3	74
W594445		83.8	0.007	0.31	9.91	10.0	<1	3.1	132.0	0.81	6.62	11.95	0.256	1.08	3.8	73
W594446		89.4	<0.002	0.58	10.85	10.9	<1	2.3	265	0.58	0.21	9.74	0.272	1.24	3.6	75
W594447		89.9	<0.002	0.44	4.48	11.5	<1	1.7	350	0.54	0.13	10.40	0.273	1.01	3.2	78
W594448		86.4	<0.002	0.43	4.54	11.8	1	1.8	349	0.56	0.16	9.67	0.274	1.00	3.2	77
W594449		98.9	0.003	0.22	1.43	12.2	<1	1.6	430	0.57	0.07	10.80	0.278	1.08	3.5	78
W594450		93.1	0.003	0.23	2.57	10.9	1	1.8	395	0.82	0.19	11.55	0.262	1.08	4.6	73
W595907		98.5	<0.002	0.02	0.69	11.2	<1	1.5	449	0.65	<0.05	10.90	0.273	1.01	4.2	76
W595908		101.5	0.002	0.06	0.79	11.0	1	1.4	431	0.71	<0.05	12.75	0.267	0.98	5.1	72
W595909		88.3	0.002	0.10	0.89	10.5	<1	1.5	437	0.56	0.06	9.79	0.275	0.95	3.3	76
W595910		96.1	<0.002	0.26	1.51	11.6	1	1.6	415	0.57	0.09	10.65	0.276	1.10	3.5	78
W595911		95.7	0.004	0.48	5.76	11.2	<1	1.9	325	0.56	0.30	11.60	0.268	1.13	3.7	74
W595912		146.0	0.002	7.84	101.0	8.6	1	10.3	64.6	0.38	0.74	9.01	0.166	2.18	5.5	56
W595913		90.4	0.002	1.27	11.35	10.3	1	2.7	105.5	0.46	0.43	9.12	0.221	1.65	3.5	71
W595914		124.5	<0.002	1.95	26.1	8.1	<1	4.2	154.5	0.46	0.27	9.46	0.179	1.47	13.7	53
W595915		93.5	<0.002	1.21	10.90	11.1	<1	2.5	202	0.49	0.70	9.72	0.240	1.26	3.8	73
W594453		144.5	0.002	0.25	10.20	11.4	<1	6.1	164.5	0.65	0.24	13.45	0.275	2.25	2.7	75
W594454		112.0	<0.002	0.29	7.56	9.0	1	3.2	121.5	0.62	0.08	8.35	0.252	2.38	2.7	72
W594455		90.2	0.002	0.63	9.60	10.5	<1	5.0	93.7	0.67	0.16	8.76	0.286	2.03	2.5	82
W594456		158.5	0.002	1.26	10.90	11.0	<1	2.8	87.2	0.69	0.10	14.05	0.249	3.22	4.2	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594434		3.4	13.1	183	29.1	0.026
W594435		4.1	15.6	236	29.1	0.019
W594436		2.7	12.3	2620	23.8	0.111
W594437		1.9	15.7	140	28.4	0.327
W594438		1.4	16.1	48	26.9	0.007
W594439		5.6	16.3	46	21.6	0.112
W594440		9.3	15.7	46	23.2	0.005
W594441		1.3	15.2	51	21.0	0.010
W594442		1.1	15.9	45	22.9	0.005
W594443		2.7	14.1	163	20.9	0.144
W594444		2.7	14.5	197	23.1	0.203
W594445		5.1	14.0	42	25.9	0.037
W594446		1.7	13.0	56	20.6	0.018
W594447		1.3	15.3	53	19.5	0.009
W594448		1.3	15.4	54	21.1	0.008
W594449		1.1	17.3	50	23.0	0.005
W594450		1.1	16.5	53	25.1	0.006
W595907		1.0	17.0	50	23.5	<0.005
W595908		0.8	17.6	46	24.5	<0.005
W595909		0.7	15.6	45	21.4	<0.005
W595910		1.0	16.7	52	21.3	<0.005
W595911		1.3	15.3	56	21.9	0.013
W595912		7.0	9.5	3370	22.6	1.805
W595913		18.2	13.6	54	19.4	0.014
W595914		2.9	19.8	503	21.5	0.092
W595915		1.6	12.2	75	19.6	0.017
W594453		6.4	16.6	664	32.7	0.447
W594454		3.9	13.4	1740	30.3	0.212
W594455		5.0	12.7	1500	30.6	0.029
W594456		3.3	12.9	539	32.6	0.082

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255759

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255763

Project: Klaza

P.O. No.: 19-113

This report is for 22 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 19-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255763

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
W599268		3.56					2.99	5.08	419	160	1.35	1.15	4.91	26.7	38.1	5.4
W599269		2.64					10.55	5.67	1750	100	1.11	6.24	3.18	27.3	38.1	9.5
W599270		2.33			2.15	1.390	38.5	5.54	480	230	1.28	2.12	1.62	144.0	44.0	5.8
W599271		1.51					17.85	5.54	4490	720	1.41	14.15	1.49	99.6	35.8	7.8
W599272		1.89					51.0	5.13	264	100	0.85	57.7	0.05	0.35	13.20	199.5
W599273		1.03	13.30				57.6	3.80	4180	30	0.96	57.6	1.18	11.85	21.0	58.1
W599274		1.69					9.88	6.27	468	120	0.99	14.25	0.05	1.50	30.4	16.2
W599275		1.06					6.55	6.56	154.5	190	1.20	10.05	1.09	0.94	46.0	164.0
W599276		1.51					3.85	2.55	417	330	0.56	72.9	1.70	1.88	18.10	1070
W599277		1.58					16.75	4.44	1115	90	1.15	16.15	1.11	9.17	36.9	8.6
W599278		2.64					20.2	5.76	792	40	1.23	13.10	1.23	25.6	33.1	9.4
W599279		1.35		225			>100	2.15	889	30	0.56	30.3	1.50	43.2	10.15	42.5
W599280		1.31					35.1	2.16	658	20	0.67	31.8	3.65	45.6	5.60	34.3
W599281		2.93					0.88	7.65	53.2	190	1.31	3.71	1.40	0.29	33.5	9.1
W599282		2.18					0.97	7.07	55.4	250	1.42	1.66	2.07	0.29	46.8	9.2
W599283		2.36				1.510	17.25	6.97	2720	330	1.45	0.92	2.42	229	48.9	12.5
W599284		1.81					26.8	3.48	552	50	0.90	34.9	3.75	8.80	21.4	7.9
W599285		1.40					10.45	3.68	2090	40	0.74	10.20	2.24	7.29	15.00	3.5
W599286		2.96		691	1.470	2.36	>100	2.50	1720	30	0.59	1235	7.04	261	19.25	8.3
W599287		3.58					5.79	7.14	5480	60	1.20	8.43	0.92	3.10	29.9	8.9
W599288		2.59				1.550	14.05	5.89	3320	210	1.23	24.2	1.38	209	46.9	10.3
W599289		5.06					0.14	0.15	5.5	30	0.07	0.18	34.6	0.26	1.17	0.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255763

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W599268		8	10.80	41.7	5.68	11.20	0.09	0.6	0.855	2.23	21.2	14.3	1.51	8460	15.35	0.03
W599269		10	8.51	247	10.30	15.75	0.11	0.7	0.555	2.69	20.3	8.5	1.19	1940	20.2	0.03
W599270		12	14.60	367	5.67	12.60	0.11	0.7	0.339	2.47	24.1	19.6	0.61	2960	9.02	0.03
W599271		12	7.25	244	7.72	15.20	0.08	0.6	0.472	2.61	17.8	8.2	0.71	1220	1.27	0.04
W599272		11	3.25	27.1	14.45	9.39	0.13	1.0	0.124	2.53	5.9	4.6	0.17	100	37.2	0.04
W599273		8	6.70	2710	15.95	10.30	0.11	0.7	2.05	1.81	10.4	12.4	0.51	2060	12.20	0.03
W599274		12	4.22	201	9.70	16.50	0.12	1.2	0.349	3.05	15.4	9.3	0.24	95	9.83	0.06
W599275		11	8.66	65.0	9.35	13.35	0.13	1.1	0.262	3.02	26.9	28.3	0.65	1020	6.05	0.21
W599276		9	4.46	87.0	29.6	5.98	0.19	0.4	0.109	1.22	10.2	2.4	0.25	861	13.50	0.02
W599277		13	6.75	312	10.75	11.60	0.10	0.8	0.323	2.12	20.0	9.6	0.51	616	1.85	0.03
W599278		12	9.82	885	9.38	13.60	0.10	1.0	0.505	2.85	15.6	6.1	0.63	2120	1.85	0.03
W599279		9	3.10	9190	23.2	5.39	0.17	0.3	1.995	1.00	4.8	5.7	0.65	1640	6.83	0.02
W599280		9	3.01	1675	17.10	5.26	0.13	0.3	0.936	0.97	1.4	6.7	1.50	3180	6.33	0.04
W599281		13	13.45	58.7	7.33	17.10	0.14	0.9	0.068	3.58	16.5	8.3	0.79	152	3.23	0.08
W599282		11	15.40	47.0	4.33	16.25	0.14	0.9	0.068	3.06	25.8	11.4	0.94	328	1.08	0.28
W599283		11	18.35	243	4.83	17.30	0.16	1.0	1.415	3.02	26.7	9.7	0.97	2830	1.91	0.03
W599284		11	5.21	663	7.54	8.87	0.12	0.4	0.384	1.69	11.4	11.5	1.38	3790	1.66	0.02
W599285		12	6.63	252	18.65	8.46	0.14	0.6	1.210	1.67	7.6	7.5	0.87	1470	3.98	0.02
W599286		6	3.78	7980	11.90	6.98	0.12	0.3	6.27	1.20	9.5	10.5	2.68	11250	6.82	0.02
W599287		13	8.03	100.5	9.52	18.70	0.12	1.0	0.258	3.41	13.6	7.6	0.54	918	13.90	0.05
W599288		10	7.95	201	7.11	14.60	0.13	0.9	2.30	2.79	25.3	8.0	0.68	3100	1.71	0.04
W599289		2	0.05	4.3	0.11	0.44	0.06	0.1	0.007	0.04	1.2	1.0	1.53	116	0.06	0.07

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 19-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255763

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W599268		4.7	2.0	410	430	124.5	<0.002	4.23	15.35	7.1	<1	4.1	146.0	0.36	0.22	7.98
W599269		5.1	3.1	530	983	200	<0.002	9.89	19.15	7.9	1	16.6	95.6	0.38	0.71	9.48
W599270		5.4	2.3	440	>10000	145.5	<0.002	6.22	41.5	8.0	1	9.9	106.5	0.45	0.22	10.30
W599271		4.1	1.9	450	2530	173.0	<0.002	7.88	31.9	7.2	3	29.0	31.9	0.34	0.69	8.31
W599272		2.9	4.9	240	197.0	146.0	0.002	>10.0	3.97	5.9	7	13.4	15.3	0.25	34.7	6.64
W599273		2.9	3.3	350	659	92.9	<0.002	>10.0	666	5.7	1	9.9	32.0	0.24	0.99	6.00
W599274		3.8	2.3	270	244	180.0	<0.002	9.98	38.6	8.9	1	20.3	21.5	0.30	1.70	9.90
W599275		5.7	5.3	590	60.7	179.0	<0.002	7.83	5.07	8.8	2	7.6	65.5	0.42	6.02	9.00
W599276		2.1	26.5	220	34.9	78.1	<0.002	>10.0	5.68	3.6	14	5.8	29.3	0.15	40.9	3.33
W599277		3.7	2.7	320	496	142.0	<0.002	>10.0	82.0	6.5	1	6.0	17.0	0.30	0.50	7.71
W599278		5.1	2.7	460	853	165.0	<0.002	9.15	46.6	8.7	2	7.0	30.6	0.38	0.82	8.42
W599279		1.5	7.6	130	3630	51.8	<0.002	>10.0	246	3.4	7	7.8	31.0	0.11	5.72	2.52
W599280		1.6	4.8	120	350	55.5	<0.002	>10.0	134.5	3.3	3	7.2	68.2	0.11	5.16	2.29
W599281		4.3	3.4	610	28.3	149.0	<0.002	7.48	5.19	10.6	3	8.6	42.7	0.33	0.74	12.90
W599282		4.3	3.5	560	53.6	160.5	<0.002	3.67	6.11	9.6	2	4.9	79.6	0.36	0.40	12.85
W599283		7.5	3.4	590	4840	159.0	<0.002	3.39	24.4	10.9	3	9.6	76.6	0.57	0.19	11.80
W599284		3.2	2.9	290	576	105.5	<0.002	6.42	165.5	5.2	2	5.3	41.9	0.25	0.74	6.85
W599285		3.5	2.6	210	422	109.5	<0.002	>10.0	40.5	4.2	2	8.7	31.9	0.26	0.53	5.41
W599286		2.4	2.1	200	>10000	76.9	0.004	>10.0	901	3.9	2	16.1	86.5	0.18	3.05	3.77
W599287		6.0	2.9	510	120.5	162.5	<0.002	9.12	45.9	9.8	2	13.0	17.8	0.48	1.20	11.75
W599288		5.4	2.6	470	647	156.5	<0.002	6.54	64.5	8.3	2	14.6	36.4	0.43	0.77	10.15
W599289		0.2	0.6	80	3.7	1.4	<0.002	0.02	0.38	0.2	2	<0.2	80.8	<0.05	<0.05	0.11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255763

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W599268		0.165	2.13	2.9	49	3.8	9.4	2030	15.6	0.707
W599269		0.176	2.26	10.0	55	7.1	8.8	2360	16.3	2.95
W599270		0.178	2.78	3.3	54	7.6	9.6	>10000	16.6	1.240
W599271		0.153	1.59	2.9	49	6.7	7.5	6130	15.4	6.49
W599272		0.093	1.56	2.3	27	5.4	8.1	43	27.5	0.548
W599273		0.097	1.27	4.0	38	4.7	8.5	1020	20.6	>10.0
W599274		0.132	1.83	3.4	55	9.5	7.2	100	34.5	1.925
W599275		0.204	2.16	2.6	61	3.0	10.2	122	31.3	0.188
W599276		0.072	0.90	2.2	24	1.6	8.9	150	12.3	1.020
W599277		0.120	1.89	7.2	40	4.7	9.5	713	24.7	2.05
W599278		0.175	2.53	3.8	56	5.7	9.1	2100	28.8	1.910
W599279		0.053	0.75	2.5	25	2.8	4.2	1540	7.2	3.89
W599280		0.051	0.71	2.6	24	2.8	5.3	3240	8.1	2.13
W599281		0.162	2.09	4.5	73	7.3	7.7	30	21.5	0.094
W599282		0.156	2.03	4.5	63	2.9	8.7	36	21.1	0.069
W599283		0.242	2.61	3.7	68	5.8	14.1	>10000	26.1	1.105
W599284		0.106	1.54	9.1	33	3.8	6.8	717	11.4	1.190
W599285		0.105	1.47	6.4	28	6.5	8.1	567	15.6	3.65
W599286		0.081	1.14	2.9	28	2.8	8.5	>10000	7.1	3.64
W599287		0.201	2.48	3.9	67	10.4	7.8	286	25.3	0.976
W599288		0.178	2.25	4.4	53	4.7	9.3	>10000	23.3	0.592
W599289		0.005	0.03	0.2	1	<0.1	2.3	29	2.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 19-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255763

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-01	BAG-06	CRU-32	CRU-QC
LOG-21	PUL-35a	PUL-QC	SPL-21
WEI-21			

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	Au-GRA22	ME-MS61
ME-OG62	Pb-OG62	Zn-OG62	

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255767

Project: Klaza

P.O. No.: 19-085

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255767

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Cu-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Cu	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
	Units	kg	ppm	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
W599227		1.66						11.85	4.60	332	20	0.87	27.5	0.96	28.1	9.66
W599228		2.13						16.10	3.93	412	40	0.83	19.20	1.71	44.0	6.75
W599229		1.80		306			1.285	>100	3.53	1190	60	0.81	536	2.15	178.5	26.3
W599230		2.53						11.05	6.66	468	400	1.68	3.22	2.28	28.0	48.6
W599231		1.43					2.80	69.3	5.54	405	160	1.16	104.5	2.60	407	37.9
W599232		1.35						9.47	4.26	481	610	0.77	14.40	0.37	9.81	31.3
W599233		2.18						1.75	5.31	2040	530	1.24	0.31	5.80	9.77	35.6
W599234		1.41						0.89	5.95	448	870	1.44	0.50	3.39	4.56	40.7
W599235		5.01						0.02	0.07	0.7	20	0.08	0.03	33.5	0.04	1.01
W599236		1.47						23.4	3.65	336	780	1.09	0.37	4.15	3.88	26.1
W599237		1.31	13.15	471				>100	4.74	>10000	430	1.02	0.20	3.64	53.0	32.4
W599238		4.63						8.51	5.44	766	770	1.14	0.29	3.37	2.46	38.5
W599240		1.71						1.24	6.73	48.0	150	1.32	2.75	1.97	1.38	38.5
W599241		1.42						0.78	7.55	31.8	470	1.45	1.75	1.26	20.3	42.6
W599242		1.39						1.47	6.94	179.0	140	1.17	6.06	1.75	1.03	45.4
W599243		4.31						3.73	6.89	724	40	1.07	7.81	1.64	0.94	18.45
W599244		3.76						8.08	5.36	610	100	0.97	15.90	2.60	7.14	21.1
W599245		0.12	13.30	131	2.81	2.48	15.45	>100	4.66	167.5	290	0.58	2.07	2.19	867	17.80
W599246		3.15						5.07	6.75	246	80	1.31	9.91	0.46	1.92	38.6
W599247		3.01					1.375	21.9	3.42	787	60	0.95	26.6	6.08	181.0	24.5
W599248		0.64						13.75	7.10	850	140	1.41	15.25	0.15	4.12	48.5
W599249		2.36						0.53	5.34	258	200	1.33	0.23	7.78	0.68	35.9
W599250		2.31						5.04	2.72	982	50	0.65	8.18	2.74	3.20	11.60
W599251		1.79						8.97	4.69	581	130	1.27	3.71	2.70	66.2	30.2
W599252		1.47						39.8	3.67	1910	110	0.82	91.3	2.03	15.50	27.7
W599253		0.64						27.0	3.96	2220	30	0.88	51.9	1.74	11.35	33.3
W599254		2.83						10.05	7.30	6130	380	1.77	0.52	2.98	103.5	59.3
W599255		1.50	10.75				1.480	51.8	2.57	1220	50	0.44	90.0	7.06	149.5	60.8
W599256		0.95	11.40				3.32	48.2	4.77	>10000	60	1.08	6.56	0.56	430	28.4
W599257		<0.02						3.75	6.76	729	40	0.97	7.65	1.62	1.16	18.10
W599258		1.77	9.84					56.4	6.13	3980	110	1.40	110.0	2.61	9.26	40.3
W599259		1.35						6.20	3.57	260	110	0.53	19.85	1.42	3.56	8.39
W599260		1.33				1.340	1.275	81.8	4.69	505	180	1.21	117.0	4.75	155.5	37.6
W599261		1.59						5.05	5.05	376	100	1.01	8.61	2.33	13.85	34.6
W599262		1.21						12.95	4.36	1040	60	0.75	19.95	1.37	17.30	26.2
W599263		1.67						13.00	2.84	868	40	0.58	11.70	9.67	34.2	16.25
W599264		0.13						29.4	7.05	143.5	160	0.61	9.52	5.83	34.3	30.0
W599265		1.64						8.92	5.40	509	370	1.17	7.36	2.81	12.65	35.4
W599266		6.29						22.8	5.39	463	1260	1.16	5.86	1.45	83.1	35.3
W599267		1.37		257			1.170	>100	4.28	1320	90	0.98	131.5	1.87	162.5	33.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255767

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05
W599227		18.8	10	3.32	143.0	19.30	12.70	0.08	0.7	0.327	2.46	4.2	4.7	0.49	344	5.16
W599228		12.6	10	3.93	203	11.55	10.45	0.05	0.4	0.773	1.82	3.3	15.8	0.78	1700	5.21
W599229		38.7	9	4.73	1800	13.40	8.99	0.06	0.5	1.990	1.63	13.3	9.8	0.88	1620	12.60
W599230		16.3	10	15.85	384	4.72	14.85	0.11	1.1	0.689	3.10	27.5	10.4	0.98	1660	4.31
W599231		9.5	10	12.20	1080	6.65	14.70	0.08	0.8	5.95	2.57	20.8	12.3	1.02	1840	0.95
W599232		25.2	12	3.93	105.5	15.15	11.00	0.08	0.5	0.217	2.06	13.1	13.5	0.29	258	13.85
W599233		8.2	6	11.80	4.0	4.22	9.66	0.08	0.9	0.029	2.73	18.7	41.5	2.00	7690	0.87
W599234		7.4	7	15.10	6.4	3.27	12.55	0.09	1.1	0.033	3.02	22.2	44.1	1.10	6140	3.12
W599235		0.4	2	0.05	1.4	0.11	0.25	0.08	<0.1	<0.005	0.02	1.1	0.9	1.69	121	0.08
W599236		5.2	8	12.50	22.5	2.71	8.10	0.05	0.6	0.021	1.63	13.6	55.5	1.38	5100	2.22
W599237		4.2	8	10.25	122.0	4.03	10.40	0.07	0.7	0.058	2.17	16.9	30.9	1.14	20200	3.84
W599238		6.0	7	13.55	31.5	3.21	11.65	0.08	1.0	0.055	2.38	21.0	52.7	0.97	10300	1.43
W599240		12.5	10	16.90	110.0	8.96	18.45	0.10	1.1	0.125	3.23	20.1	10.1	0.68	550	3.39
W599241		35.7	9	12.25	231	4.12	15.55	0.09	1.1	0.097	3.46	23.0	14.1	0.64	610	13.50
W599242		9.0	11	12.50	47.8	7.74	15.55	0.11	0.8	0.112	3.86	22.6	4.8	0.72	223	1.05
W599243		9.6	9	4.92	27.5	13.35	14.75	0.07	1.0	0.085	3.35	8.4	4.1	0.89	1620	2.44
W599244		6.8	10	6.63	108.5	12.15	12.40	0.07	1.0	0.421	2.51	10.6	6.9	1.10	2670	3.88
W599245		60.2	50	1.41	>10000	9.91	17.15	0.08	0.5	3.13	0.86	8.5	7.5	0.84	1720	160.0
W599246		16.2	11	8.06	170.5	7.43	17.80	0.07	0.9	0.257	3.28	18.9	10.7	0.45	349	1.22
W599247		3.8	5	9.25	599	9.91	10.55	0.07	0.5	2.55	1.55	13.3	9.4	2.63	6140	5.59
W599248		3.9	12	6.02	129.0	7.85	24.1	0.08	0.9	0.151	3.42	25.1	5.4	0.29	171	0.82
W599249		6.0	7	14.10	10.7	3.62	12.10	0.07	1.0	0.022	2.10	17.9	31.5	2.22	6930	2.00
W599250		14.7	10	2.18	329	16.65	7.81	0.07	0.3	0.133	1.28	5.9	10.2	1.18	2310	5.92
W599251		6.1	11	10.00	746	6.63	11.50	0.08	0.7	0.382	2.16	15.9	32.2	1.14	2820	3.97
W599252		6.1	7	2.94	865	26.4	10.75	0.08	0.7	0.828	1.52	14.0	7.1	0.75	3180	1.23
W599253		5.8	8	4.10	579	25.5	12.30	0.10	0.8	0.689	1.64	16.4	8.0	0.61	2530	1.93
W599254		6.8	11	19.30	84.7	4.79	16.65	0.10	1.0	0.436	3.23	33.2	20.1	0.99	1260	1.47
W599255		7.1	5	2.88	1475	16.30	9.26	0.10	0.5	0.799	1.21	34.9	8.6	2.73	11500	2.37
W599256		3.1	12	8.05	482	9.52	13.85	0.09	0.8	9.61	2.22	14.0	13.7	0.33	1260	0.63
W599257		9.4	8	4.97	29.1	12.80	15.10	0.08	1.0	0.102	3.32	8.1	4.2	0.87	1560	1.73
W599258		6.9	14	8.39	4600	8.68	22.4	0.09	0.8	0.487	2.94	20.4	8.0	0.95	923	0.85
W599259		35.2	9	3.91	43.5	23.1	9.74	0.11	0.5	0.133	1.70	3.9	6.5	0.59	1720	2.58
W599260		5.5	8	11.20	548	6.29	10.50	0.08	0.6	2.41	1.96	19.8	15.7	1.47	11500	2.39
W599261		6.3	9	10.05	128.5	12.30	12.15	0.09	0.8	0.285	2.34	17.1	8.0	0.92	4510	0.93
W599262		4.1	10	8.11	271	18.15	10.05	0.09	1.0	0.481	2.13	13.2	6.1	0.55	2110	4.04
W599263		2.0	5	4.58	512	8.86	8.06	0.05	0.4	0.323	1.34	7.8	5.8	3.30	25700	1.83
W599264		92.5	117	1.72	6620	9.28	11.45	0.11	0.8	2.51	0.98	16.9	7.7	2.13	870	56.5
W599265		4.2	8	12.20	549	5.10	12.80	0.10	0.9	0.513	2.47	20.5	10.8	1.18	6160	1.52
W599266		15.7	9	11.45	443	7.63	12.25	0.09	0.7	1.125	2.48	18.1	12.5	0.63	2280	3.41
W599267		30.3	9	7.30	3360	8.77	10.25	0.09	0.5	6.56	1.93	18.9	21.7	0.71	2150	4.94

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255767

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
W599227		0.05	2.9	3.2	360	616	105.5	0.003	>10.0	12.10	6.2	6	12.1	19.6	0.25	6.84
W599228		0.03	2.2	2.1	250	971	101.0	0.002	>10.0	34.5	5.3	3	8.9	38.5	0.18	2.35
W599229		0.03	3.2	4.6	290	8150	108.0	0.003	>10.0	146.0	4.6	2	8.2	38.6	0.25	3.25
W599230		0.04	6.3	2.9	520	626	205	<0.002	4.02	53.9	8.4	1	5.7	55.1	0.52	0.43
W599231		0.03	5.7	2.9	440	2360	183.5	<0.002	6.69	33.3	7.3	1	15.2	47.7	0.47	0.32
W599232		0.04	2.2	2.7	330	418	125.5	0.006	>10.0	18.90	6.6	4	7.7	22.9	0.19	6.17
W599233		0.03	5.3	2.0	390	157.5	161.5	0.002	2.73	48.8	6.7	1	1.7	153.0	0.43	0.05
W599234		0.03	6.1	2.1	410	96.2	168.5	0.002	1.55	26.6	7.5	1	1.7	102.5	0.49	<0.05
W599235		0.04	0.1	0.4	50	0.9	0.6	<0.002	0.01	0.14	0.2	1	<0.2	76.3	<0.05	<0.05
W599236		0.02	3.5	1.6	220	381	88.0	<0.002	0.83	75.5	4.3	1	1.7	117.0	0.30	<0.05
W599237		0.02	4.6	1.3	330	2560	116.5	<0.002	2.43	650	6.5	1	8.8	100.5	0.38	<0.05
W599238		0.14	5.3	2.1	390	133.5	135.0	<0.002	1.71	58.1	6.8	1	2.3	164.0	0.47	<0.05
W599240		0.10	5.3	2.5	510	47.0	164.0	0.002	5.02	6.25	8.6	2	9.4	93.8	0.42	0.42
W599241		0.74	7.0	2.3	560	49.2	134.5	0.003	2.10	5.52	8.8	1	4.8	145.5	0.60	0.29
W599242		1.20	3.8	1.0	510	65.4	162.5	0.002	7.61	2.30	8.8	2	5.2	179.0	0.33	1.41
W599243		0.07	3.0	2.4	510	139.5	138.0	0.002	>10.0	5.10	8.8	3	12.0	29.0	0.27	0.64
W599244		0.05	3.3	2.1	480	281	123.0	0.002	>10.0	15.10	6.2	4	10.2	91.5	0.28	0.69
W599245		1.15	2.2	20.1	580	>10000	27.7	0.069	>10.0	190.0	10.9	5	19.9	221	0.15	0.57
W599246		0.05	3.5	2.6	470	98.5	207	<0.002	7.44	28.5	8.8	2	11.7	31.1	0.32	0.35
W599247		0.03	2.7	1.1	230	2660	94.6	<0.002	>10.0	66.6	4.6	1	16.3	213	0.22	0.41
W599248		0.05	5.0	2.9	530	329	192.5	<0.002	7.73	20.4	8.9	1	28.8	8.2	0.40	0.65
W599249		0.02	5.4	1.7	400	28.1	107.0	<0.002	1.67	19.50	7.2	<1	1.6	260	0.44	<0.05
W599250		0.03	1.4	2.4	220	197.0	74.4	0.002	>10.0	36.8	3.7	3	9.7	33.9	0.13	0.79
W599251		0.03	3.4	2.3	330	936	128.5	0.002	6.33	176.5	6.3	1	8.4	41.6	0.38	0.24
W599252		0.04	1.2	2.9	150	3440	75.4	<0.002	>10.0	57.8	3.2	4	10.6	44.8	0.24	1.39
W599253		0.04	1.6	1.8	220	2550	81.9	<0.002	>10.0	52.6	3.8	3	11.8	47.3	0.24	0.91
W599254		0.09	7.2	3.1	550	5390	215	0.002	3.13	71.7	9.9	1	9.5	133.0	0.58	0.08
W599255		0.02	1.5	1.3	230	2050	70.6	<0.002	>10.0	347	3.6	2	12.9	63.5	0.12	6.56
W599256		0.02	4.7	2.5	650	3560	149.5	<0.002	9.30	151.0	6.3	1	26.6	22.3	0.41	0.59
W599257		0.07	2.9	2.2	490	135.5	133.0	0.003	>10.0	5.30	9.0	3	12.2	28.5	0.26	0.58
W599258		0.02	6.3	2.3	480	639	225	<0.002	8.18	48.0	8.4	2	42.8	73.8	0.50	0.31
W599259		0.03	2.9	3.4	250	143.0	75.9	<0.002	>10.0	5.12	4.8	6	8.0	23.7	0.21	2.19
W599260		0.02	4.6	2.2	510	>10000	104.5	0.002	5.96	36.1	6.7	1	7.6	112.5	0.36	0.22
W599261		0.03	4.4	2.4	410	309	133.5	0.003	>10.0	19.20	6.6	2	8.5	39.1	0.37	0.60
W599262		0.02	4.0	1.4	270	1705	141.0	<0.002	>10.0	16.55	4.4	1	8.9	29.0	0.47	1.77
W599263		0.02	2.6	1.1	260	1195	104.0	<0.002	7.10	72.4	3.6	1	6.8	135.5	0.21	0.52
W599264		0.80	2.7	374	660	8290	44.2	0.017	6.16	31.7	12.8	14	6.8	148.5	0.23	0.66
W599265		0.03	4.8	2.4	340	474	156.0	<0.002	3.40	136.0	6.7	1	8.3	59.5	0.42	0.21
W599266		0.04	3.5	3.0	430	2330	161.0	<0.002	5.54	74.4	7.6	2	6.7	77.0	0.29	0.79
W599267		0.02	3.8	3.2	280	2920	119.0	<0.002	9.15	675	5.9	5	21.3	43.0	0.31	43.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255767

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
W599227		6.01	0.100	1.45	2.4	47	4.0	4.4	1320	15.2	1.835	
W599228		6.32	0.070	1.44	2.7	36	4.3	4.3	2760	11.4	1.130	
W599229		5.49	0.098	1.51	2.1	40	4.7	7.3	>10000	11.6	4.33	
W599230		12.45	0.210	3.28	3.4	64	5.7	9.9	1780	26.2	1.035	
W599231		10.90	0.175	2.86	2.2	51	7.2	9.6	>10000	21.1	0.433	
W599232		6.20	0.091	1.71	4.1	49	6.2	7.0	604	12.2	0.915	
W599233		10.15	0.168	1.99	6.4	39	4.8	12.8	527	26.1	0.705	
W599234		10.50	0.192	2.18	6.4	51	2.5	12.6	295	28.5	0.118	
W599235		0.08	0.005	0.02	0.1	1	<0.1	2.2	5	1.6	<0.005	
W599236		6.75	0.110	1.49	13.6	36	1.6	9.7	254	17.4	0.587	
W599237		7.59	0.153	1.97	4.6	42	2.1	11.2	3960	17.8	>10.0	1.095
W599238		10.35	0.169	1.85	3.8	49	7.0	10.1	245	26.6	0.827	
W599240		13.20	0.172	2.58	4.1	58	6.0	13.0	161	26.5	1.290	
W599241		13.50	0.222	2.09	4.9	62	2.0	14.4	1100	27.9	0.147	
W599242		11.05	0.140	2.71	5.7	59	3.0	13.5	86	19.8	0.330	
W599243		10.40	0.113	1.89	2.2	63	13.6	5.6	67	24.7	0.602	
W599244		8.34	0.115	1.79	2.1	43	8.4	7.7	539	31.3	0.742	
W599245		1.65	0.181	7.92	2.3	127	8.5	12.3	>10000	10.8	>10.0	
W599246		11.85	0.132	2.69	2.6	60	5.3	6.7	217	20.9	0.201	
W599247		6.49	0.088	1.77	4.2	32	7.4	7.1	>10000	12.1	1.315	
W599248		11.70	0.173	2.43	1.8	63	9.7	9.0	281	20.8	1.170	
W599249		8.87	0.173	1.90	6.8	51	4.3	16.4	82	26.2	0.142	
W599250		4.32	0.047	0.81	2.7	26	6.7	5.8	254	8.0	1.870	
W599251		7.85	0.100	1.97	10.2	41	5.5	9.2	5810	14.3	1.000	
W599252		14.25	0.029	0.94	5.5	32	7.9	7.8	1040	15.7	5.41	
W599253		14.45	0.042	1.07	6.2	36	8.7	8.6	737	17.9	4.77	
W599254		12.65	0.234	2.89	4.4	65	5.3	14.8	6260	22.6	2.67	
W599255		4.13	0.051	0.96	2.0	26	4.5	14.2	>10000	13.5	>10.0	
W599256		8.45	0.156	1.91	2.5	45	4.8	7.6	>10000	17.6	>10.0	3.78
W599257		9.48	0.108	1.93	2.0	62	12.9	5.7	91	24.0	0.601	
W599258		11.85	0.198	2.01	3.5	57	13.0	11.7	423	21.0	>10.0	
W599259		5.06	0.096	1.11	1.6	36	7.5	3.4	275	11.0	0.555	
W599260		8.57	0.161	2.41	3.5	47	6.8	10.8	>10000	15.6	0.996	
W599261		8.97	0.139	2.25	5.0	43	4.8	9.3	1130	21.4	0.823	
W599262		11.80	0.102	2.05	4.2	31	5.5	6.6	1540	22.0	1.215	
W599263		5.23	0.086	1.57	3.2	28	4.9	9.5	2960	10.0	2.19	
W599264		3.40	0.195	2.41	5.7	379	5.9	13.9	7730	25.7	1.375	
W599265		11.95	0.148	2.29	5.6	43	5.2	8.6	1060	25.6	1.205	
W599266		8.87	0.125	2.37	3.4	49	5.1	9.4	4780	16.8	0.793	
W599267		7.55	0.124	2.12	6.5	38	7.7	7.9	>10000	12.6	2.47	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255767

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	BAG-06	CRU-32	CRU-QC
	LOG-21	LOG-21d	LOG-23	PUL-35a
	PUL-35ad	PUL-QC	SPL-21	SPL-21d
	WEI-21			

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	Cu-OG62	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255769

Project: Klaza

P.O. No.: 19-120

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255769

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595861		3.60	0.67	7.31	98.4	1440	1.52	1.49	2.00	0.89	38.5	4.7	11	14.20	36.4	3.80
W595862		2.13	0.91	7.51	91.6	740	1.39	1.53	2.76	9.41	44.5	6.1	10	20.7	16.1	3.21
W595863		3.84	1.28	7.56	80.2	770	1.58	2.12	1.64	2.25	53.8	6.0	11	20.9	17.5	4.46
W595864		1.15	9.77	5.55	390	250	1.27	12.10	3.04	25.5	45.7	5.2	7	10.70	181.0	6.76
W595865		3.29	0.82	6.91	60.5	1130	1.40	1.51	2.63	1.92	42.5	5.2	10	20.9	97.6	3.41
W595866		4.74	0.36	7.25	20.4	2780	1.37	1.45	2.20	0.41	33.1	8.7	10	11.40	37.6	2.55
W595867		5.12	1.03	7.36	31.9	2240	1.69	1.60	2.70	1.39	42.3	7.8	11	15.30	48.6	3.16
W595868		<0.02	0.83	7.13	34.1	2170	1.59	1.45	2.61	1.32	42.9	7.6	10	14.90	45.1	3.03
W595869		4.47	0.45	7.11	30.1	1730	1.64	0.54	2.55	1.49	40.8	5.9	10	16.25	51.0	2.70
W595870		5.11	0.45	7.78	13.9	2570	1.67	0.79	2.95	2.18	47.5	7.2	15	12.90	39.7	3.12
W595871		2.31	0.19	7.71	9.2	2030	1.60	0.33	2.78	0.18	44.7	6.1	11	13.35	11.4	2.99
W595872		2.56	10.30	6.96	462	200	1.49	16.20	1.21	11.40	44.7	6.7	9	13.75	98.5	6.22
W595873		2.19	0.77	6.49	26.5	1660	1.48	1.16	2.10	1.99	53.5	17.3	9	14.60	190.5	2.97
W595874		1.74	0.60	6.99	19.7	2040	1.72	0.79	2.32	4.47	36.9	8.3	9	15.50	96.1	2.82
W595875		2.33	3.42	6.94	39.4	1520	1.60	4.38	2.11	1.23	43.5	7.8	10	20.5	219	4.46
W595876		4.64	0.43	7.25	23.7	2030	1.61	1.28	2.42	0.29	37.4	12.9	10	14.05	111.5	3.25
W595877		2.86	42.8	6.21	287	300	1.30	77.3	1.25	5.25	47.4	16.2	8	10.05	921	6.89
W595878		4.62	0.38	7.49	24.8	2420	1.45	1.00	1.73	0.27	43.9	10.0	11	13.50	53.9	2.96
W595879		5.91	0.21	6.90	10.4	2330	1.31	0.60	2.48	0.10	50.4	5.6	10	13.30	73.8	2.90
W595880		0.26	37.1	5.55	2500	70	1.07	33.5	1.66	42.6	33.1	16.4	23	10.05	1165	9.02
W595881		5.09	0.16	7.55	7.1	2420	1.57	0.28	2.67	0.16	45.2	7.2	13	8.99	37.3	3.19
W595882		5.46	0.49	7.56	11.1	2140	1.46	0.69	2.50	0.39	39.7	6.0	13	12.05	59.8	3.82
W595883		6.83	0.36	6.80	29.0	1850	1.54	0.86	2.75	0.45	43.6	9.1	11	19.90	49.8	3.44
W595884		4.89	0.28	6.74	20.2	1550	1.59	1.03	2.65	0.25	43.2	9.0	9	26.3	40.2	3.31
W595885		6.76	0.21	7.57	16.1	1900	1.65	0.66	2.27	0.18	42.5	7.6	12	16.30	50.2	2.93
W595886		0.26	38.4	5.54	2610	70	1.22	36.0	1.68	44.0	30.4	16.8	23	9.82	1150	8.99
W595887		3.29	0.24	7.54	13.8	2360	1.74	0.74	2.31	0.15	34.5	6.1	10	12.05	52.3	3.09
W595888		5.60	0.59	6.85	39.6	3730	1.57	1.24	4.60	0.30	56.9	14.5	9	20.7	128.0	3.63
W595889		5.76	0.48	7.37	34.6	2320	1.61	0.50	2.40	0.58	36.7	6.5	10	15.85	23.9	3.02
W595890		6.02	0.37	7.15	21.0	2190	1.65	0.94	2.66	0.26	39.1	7.0	10	12.00	36.0	2.87
W595891		4.18	0.21	8.10	16.0	2520	1.72	0.44	2.90	2.31	41.6	6.5	12	14.85	30.1	3.32
W595892		3.19	0.31	7.59	45.0	2420	1.78	0.60	3.41	0.17	42.7	6.9	10	23.0	29.5	3.38
W595893		3.59	1.49	7.68	155.5	1660	1.80	2.15	2.35	1.82	46.4	15.1	11	14.40	41.2	4.63
W595894		5.09	0.01	0.10	<0.2	30	0.06	0.02	35.4	0.02	1.03	0.7	1	0.10	1.5	0.12
W595895		2.60	0.82	7.46	95.9	1590	1.51	1.00	2.23	2.68	39.5	7.8	11	16.95	17.8	3.70
W595896		2.37	3.31	7.22	509	200	1.49	4.43	1.17	8.40	40.5	9.3	9	10.45	32.2	6.02
W595897		2.53	1.82	8.05	186.0	1050	2.06	2.82	2.20	1.61	56.9	8.1	11	22.5	18.1	4.18
W595898		3.88	0.53	8.63	22.1	2520	1.56	1.59	1.26	0.12	50.0	8.5	10	13.65	91.0	2.89
W595899		3.48	0.58	8.64	35.8	1850	1.66	2.48	1.15	1.03	46.6	9.9	10	16.30	59.6	3.09
W595900		4.87	1.88	7.49	281	850	1.41	1.01	2.18	10.45	37.7	7.0	9	13.25	54.1	3.56

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255769

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595861		15.95	0.12	1.1	0.242	3.30	20.0	11.6	0.70	1060	5.38	0.86	7.6	2.5	600	51.2
W595862		15.50	0.14	1.1	0.730	3.35	24.7	9.3	1.06	1860	2.47	0.04	7.8	2.3	620	86.2
W595863		16.35	0.16	1.0	0.342	3.45	30.0	9.9	0.89	1910	2.29	0.04	7.8	2.6	620	124.0
W595864		14.55	0.14	0.8	0.384	2.68	26.0	8.6	1.24	8660	2.89	0.02	5.8	2.7	450	940
W595865		14.80	0.13	0.9	0.382	2.75	22.0	19.0	0.97	1220	4.58	0.05	7.3	2.6	590	62.5
W595866		16.15	0.17	1.2	0.236	3.07	16.8	31.4	0.70	451	2.68	0.95	8.2	2.5	620	29.2
W595867		16.70	0.19	1.1	0.218	3.31	21.8	14.7	0.79	755	2.62	1.44	8.4	2.9	640	162.5
W595868		16.50	0.20	1.1	0.217	3.21	22.3	14.1	0.77	730	2.58	1.39	8.1	2.9	620	145.0
W595869		16.05	0.18	1.1	0.152	2.93	20.3	11.7	0.75	1660	4.70	1.51	8.1	2.7	610	64.4
W595870		17.15	0.20	1.1	0.260	2.99	24.3	9.0	1.04	746	2.80	2.45	8.9	3.6	780	83.7
W595871		15.65	0.21	1.1	0.066	2.99	23.4	10.2	0.84	835	1.75	1.84	7.9	2.4	630	21.1
W595872		16.00	0.18	1.0	0.382	3.32	24.6	5.8	0.62	7590	11.70	0.04	6.9	2.5	540	817
W595873		14.35	0.20	1.0	0.214	2.59	29.5	15.0	0.63	519	11.55	1.00	7.5	3.5	530	92.3
W595874		15.95	0.20	1.1	0.188	3.10	18.9	15.4	0.60	531	7.96	1.30	8.6	2.7	610	136.5
W595875		16.45	0.21	1.0	0.267	3.19	22.3	11.9	0.78	1240	3.71	0.68	7.6	2.4	570	123.0
W595876		16.65	0.22	1.0	0.177	3.05	18.9	10.0	0.77	805	4.47	1.50	7.7	3.1	640	23.6
W595877		16.40	0.18	0.7	0.584	3.03	26.0	7.9	0.75	2850	2.27	0.04	5.6	2.8	500	395
W595878		16.70	0.21	1.0	0.188	2.93	23.4	12.9	0.61	594	4.33	1.43	8.0	2.7	610	18.8
W595879		14.75	0.23	0.9	0.249	2.75	27.1	10.2	0.68	998	10.60	1.65	6.9	2.0	570	12.1
W595880		13.75	0.16	0.8	1.500	2.60	16.0	15.0	0.65	2290	17.15	0.06	4.9	13.9	440	1620
W595881		16.70	0.20	1.1	0.066	2.81	23.8	9.8	0.85	586	1.09	2.27	8.6	2.7	630	21.6
W595882		15.20	0.19	1.0	0.082	2.90	20.0	11.7	0.84	731	1.18	1.92	7.6	2.4	640	23.6
W595883		16.30	0.22	1.0	0.199	2.50	22.9	15.1	0.86	732	1.41	1.57	7.9	2.5	560	35.0
W595884		15.55	0.20	1.0	0.165	2.26	23.2	12.5	0.90	863	2.02	1.29	7.9	2.1	560	15.6
W595885		16.15	0.25	1.0	0.123	2.44	23.2	15.6	0.75	605	2.24	2.08	8.2	2.2	610	20.0
W595886		13.90	0.08	0.8	1.515	2.62	15.3	16.8	0.66	2290	16.00	0.06	4.6	14.6	450	1600
W595887		16.30	0.08	1.0	0.109	2.91	16.9	15.2	0.68	559	1.11	2.19	7.6	2.4	620	18.1
W595888		15.55	0.11	1.0	0.250	2.13	32.2	20.6	1.13	953	2.45	0.15	6.5	3.2	540	18.8
W595889		15.75	0.11	1.2	0.081	2.79	17.9	14.1	0.58	574	1.59	1.40	7.8	2.3	630	26.5
W595890		14.85	0.11	0.9	0.172	2.34	21.2	11.3	0.66	607	3.82	1.98	6.8	2.2	540	21.8
W595891		17.15	0.10	0.9	0.081	2.57	20.8	14.9	0.87	586	5.43	2.01	8.0	3.1	730	31.5
W595892		17.25	0.13	0.9	0.092	2.83	21.9	11.0	1.01	961	1.11	1.33	8.1	2.8	710	15.8
W595893		17.15	0.13	0.8	0.197	3.08	24.4	11.4	0.90	704	1.92	1.19	7.4	3.5	670	79.8
W595894		0.31	0.18	<0.1	0.007	0.03	1.2	1.2	2.11	117	0.05	0.04	0.1	0.6	90	0.7
W595895		15.85	0.11	0.8	0.133	3.12	20.9	18.4	0.89	1220	3.24	0.09	7.0	2.4	640	80.2
W595896		16.80	0.10	0.7	0.511	3.50	21.8	8.5	0.67	1170	36.9	0.04	6.7	3.0	590	106.5
W595897		18.20	0.12	0.9	0.307	3.50	30.7	17.2	0.90	1720	6.67	0.06	8.1	2.9	670	84.4
W595898		18.60	0.13	0.9	0.304	3.47	25.9	31.0	0.78	619	109.5	0.08	8.5	3.0	750	18.8
W595899		17.90	0.11	0.9	0.311	3.29	23.7	34.9	0.64	916	12.40	0.07	8.4	3.4	730	43.8
W595900		16.55	0.12	1.0	0.158	3.18	18.3	23.4	0.58	566	4.78	0.12	7.9	2.5	650	406

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255769

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595861		159.5	0.003	1.56	10.65	9.9	1	4.6	186.0	0.59	0.21	12.90	0.257	2.26	4.3	72
W595862		201	0.004	1.62	8.14	10.1	2	3.9	55.0	0.57	0.31	13.80	0.264	3.12	4.7	71
W595863		198.0	0.002	1.56	10.40	10.5	1	6.5	43.4	0.60	0.31	14.15	0.253	3.27	5.3	71
W595864		160.0	0.002	4.62	18.65	7.6	1	12.1	51.3	0.46	0.17	10.40	0.180	2.66	2.9	52
W595865		104.5	0.002	0.88	17.40	9.2	1	3.7	89.8	0.56	0.18	11.10	0.250	2.09	5.3	70
W595866		100.5	0.002	0.61	8.19	9.8	1	2.8	217	0.67	0.45	11.70	0.260	1.56	2.9	72
W595867		118.0	0.002	0.89	6.95	10.5	1	3.3	258	0.65	0.38	11.95	0.270	1.82	4.2	74
W595868		119.0	0.002	0.88	6.67	10.4	2	3.2	247	0.61	0.41	11.65	0.257	1.75	4.3	71
W595869		106.5	<0.002	0.33	7.98	10.0	1	2.5	266	0.62	0.14	11.10	0.260	1.74	4.0	72
W595870		120.0	0.002	0.34	2.94	12.0	1	3.5	365	0.64	0.17	12.00	0.299	1.61	3.4	86
W595871		104.5	<0.002	0.13	2.01	10.1	1	2.0	336	0.61	0.10	12.50	0.268	1.33	4.0	73
W595872		225	0.002	5.09	12.00	9.4	1	9.1	27.2	0.54	0.17	13.10	0.216	3.09	4.4	60
W595873		127.5	0.004	0.74	9.51	9.6	1	7.1	189.0	0.58	0.26	13.25	0.238	1.73	4.5	67
W595874		121.5	0.003	0.48	8.31	9.9	1	5.8	234	0.65	0.17	11.70	0.252	1.80	4.5	67
W595875		136.5	0.002	0.75	18.45	9.8	1	6.7	157.5	0.61	0.18	12.30	0.231	2.16	3.9	67
W595876		139.0	0.004	0.57	11.25	10.7	1	4.4	250	0.58	0.25	11.35	0.259	2.09	4.0	74
W595877		206	0.002	5.26	210	8.5	1	14.9	27.1	0.41	0.46	10.20	0.187	2.52	3.0	58
W595878		153.0	0.004	0.80	11.00	10.6	1	6.0	174.5	0.61	0.23	13.05	0.254	2.12	4.1	71
W595879		143.0	0.026	0.27	4.69	9.7	1	4.8	165.0	0.53	0.15	12.30	0.220	2.18	4.1	65
W595880		137.0	0.003	7.73	101.5	8.1	2	10.2	61.1	0.37	0.77	8.37	0.167	2.15	5.2	55
W595881		107.0	<0.002	0.09	2.07	11.9	1	2.9	395	0.67	0.05	13.45	0.274	1.18	3.6	76
W595882		92.5	<0.002	0.13	3.95	9.9	1	3.4	341	0.60	<0.05	11.60	0.271	1.21	3.7	74
W595883		97.3	<0.002	0.63	6.57	9.7	1	7.9	243	0.59	0.12	11.25	0.238	1.42	5.2	77
W595884		102.5	0.003	0.44	8.39	9.4	1	6.8	161.5	0.62	0.12	11.35	0.241	1.67	3.3	67
W595885		110.5	0.002	0.35	7.26	10.7	2	4.4	265	0.64	0.12	13.45	0.257	1.45	4.3	68
W595886		138.0	0.002	7.72	104.0	8.1	1	10.3	62.6	0.40	0.66	8.24	0.165	2.16	5.5	56
W595887		103.5	<0.002	0.34	5.28	9.8	<1	3.6	331	0.62	0.12	11.60	0.259	1.47	4.5	71
W595888		99.8	0.005	0.73	38.9	9.5	1	5.4	183.0	0.54	0.28	12.70	0.219	1.52	6.2	68
W595889		96.3	0.003	0.29	10.70	10.0	<1	2.9	259	0.68	0.08	11.30	0.268	1.38	3.5	73
W595890		91.7	0.006	0.53	7.19	9.0	1	4.3	287	0.58	0.16	12.05	0.230	1.35	5.5	65
W595891		88.4	0.013	0.24	4.46	12.0	1	3.2	377	0.60	0.12	9.73	0.307	1.23	3.4	85
W595892		109.0	<0.002	0.69	6.31	11.9	1	3.0	310	0.58	0.16	8.99	0.294	1.86	3.5	81
W595893		143.5	0.002	1.84	12.65	11.8	1	7.6	249	0.57	0.28	10.85	0.271	2.03	4.4	82
W595894		0.9	<0.002	<0.01	0.10	0.2	1	<0.2	85.4	<0.05	<0.05	0.12	0.006	0.02	0.2	2
W595895		155.0	0.008	1.35	14.15	10.5	<1	6.9	78.6	0.52	0.20	10.65	0.267	2.49	4.4	76
W595896		205	0.003	5.42	14.50	10.3	1	13.9	24.6	0.48	0.79	10.65	0.246	2.67	5.1	68
W595897		207	0.004	1.68	12.15	12.9	1	4.9	77.8	0.62	0.80	14.05	0.286	3.13	6.2	80
W595898		153.0	0.055	0.72	11.30	12.6	1	4.4	81.3	0.65	0.41	12.20	0.298	2.27	3.7	82
W595899		174.0	0.010	1.10	16.80	12.5	1	5.1	71.0	0.67	0.84	13.55	0.293	2.33	3.6	80
W595900		136.0	0.002	1.92	13.35	10.9	1	6.1	101.5	0.62	0.16	10.70	0.269	2.03	3.1	75

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255769

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595861		3.7	11.9	122	30.8	0.039
W595862		3.7	13.7	841	31.6	0.098
W595863		4.8	11.8	281	27.6	0.082
W595864		6.9	9.3	2330	20.8	7.33
W595865		2.9	12.1	224	27.2	0.034
W595866		4.9	10.9	66	32.3	0.198
W595867		2.4	14.7	145	29.6	0.027
W595868		2.1	14.6	136	30.6	0.020
W595869		2.8	14.3	165	30.5	0.024
W595870		2.0	17.9	174	29.6	0.010
W595871		1.5	15.8	52	30.6	0.005
W595872		7.7	9.4	1050	27.8	0.835
W595873		2.6	13.4	205	29.5	0.032
W595874		2.2	13.3	351	33.0	0.027
W595875		5.7	13.2	224	30.0	0.035
W595876		2.4	14.7	81	27.6	0.013
W595877		6.6	8.7	575	18.9	0.488
W595878		2.2	14.1	91	25.3	0.013
W595879		1.7	15.5	72	24.6	0.007
W595880		7.2	8.9	3330	23.3	1.765
W595881		1.2	17.8	51	28.3	0.006
W595882		2.8	14.6	86	27.4	0.007
W595883		1.7	15.2	73	27.0	0.013
W595884		2.4	15.6	74	28.1	0.008
W595885		1.8	15.7	62	28.5	0.006
W595886		7.0	8.6	3340	24.6	1.750
W595887		1.4	13.4	52	28.9	0.008
W595888		1.8	19.0	123	27.9	0.015
W595889		2.5	13.9	80	31.1	0.014
W595890		1.8	13.9	66	23.5	0.014
W595891		2.2	15.3	143	23.5	0.008
W595892		4.3	16.0	55	26.0	0.041
W595893		3.0	14.5	176	19.9	0.109
W595894		<0.1	2.1	4	1.6	<0.005
W595895		3.5	12.7	194	17.8	0.080
W595896		5.3	7.9	704	19.1	0.616
W595897		3.6	15.9	193	21.5	0.087
W595898		3.2	15.3	75	21.4	0.269
W595899		3.7	12.8	109	22.7	0.030
W595900		6.6	12.6	792	23.2	0.069

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255769

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255775

Project: Klaza

P.O. No.: 19-119

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255775

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594457		3.17		10.65	6.87	454	400	1.57	3.43	1.16	99.6	45.6	7.8	8	15.35	97.1
W594458		2.94		0.42	7.55	58.8	1610	1.27	0.46	3.34	0.81	42.9	7.6	8	20.8	38.5
W594459		2.69		3.42	7.27	140.5	1910	1.68	0.71	3.22	27.1	53.5	6.0	7	26.3	52.3
W594460		1.06		3.63	7.17	178.0	1890	1.74	0.57	3.01	25.9	50.4	7.2	7	29.4	60.2
W594461		4.34		1.51	7.27	128.5	2650	1.65	1.13	3.10	1.36	51.9	11.0	8	27.2	70.1
W594462		4.99		1.01	7.44	163.0	1260	1.86	0.40	3.08	1.53	44.3	6.4	8	23.1	25.6
W594463		1.99		1.42	7.55	128.0	1590	1.66	0.82	3.02	5.54	50.8	5.9	8	24.6	41.6
W594464		3.69		0.81	7.85	110.5	1460	1.75	0.77	2.58	2.22	46.5	3.5	9	19.90	21.3
W594465		2.98		0.47	7.74	35.7	1590	1.70	0.32	2.36	2.15	52.5	6.3	9	25.4	14.3
W594466		4.92		0.01	0.35	1.8	30	0.23	0.02	34.3	0.02	1.37	0.7	2	0.13	3.9
W594467		2.48		0.95	7.53	361	1350	1.55	0.44	2.85	1.67	43.4	8.1	9	22.8	30.5
W594468		1.90		5.15	6.23	505	700	1.35	2.68	2.29	67.1	40.0	11.1	7	13.80	73.2
W594469		2.05		0.57	7.01	158.5	2010	1.54	0.33	2.58	0.45	39.4	6.3	8	21.4	18.7
W594470		3.22		1.14	7.35	316	2460	1.61	0.91	3.13	17.95	55.1	7.6	8	20.4	41.9
W594471		3.86		0.19	8.73	121.5	2530	1.49	0.43	1.06	2.25	53.4	9.0	9	17.25	9.9
W594472		0.26		38.2	5.85	2600	540	1.23	36.2	1.73	46.2	36.2	17.6	23	10.15	1180
W594473		3.89		0.80	8.18	136.5	2640	1.95	1.49	1.95	6.24	52.1	7.9	9	18.55	92.7
W594474		5.29		1.04	7.16	175.5	2640	1.61	1.73	1.66	26.3	50.1	8.0	8	15.85	206
W594475		4.28		1.55	7.83	215	1190	1.70	1.50	1.67	45.3	51.8	9.9	8	16.60	132.5
W594476		1.87	2.47	50.5	5.19	4400	80	1.36	39.1	1.50	579	31.6	11.6	8	6.05	310
W594477		4.85		1.74	7.92	194.0	1060	1.75	2.16	1.51	24.4	53.6	6.3	9	17.70	73.0
W594478		4.93		2.06	7.01	617	1890	1.40	0.83	1.90	15.20	35.9	6.8	9	13.05	42.6
W594479		2.04		8.05	7.35	740	110	1.46	3.37	0.72	26.5	39.3	6.8	8	12.45	65.7
W594480		0.26		37.2	5.59	2510	120	1.17	34.9	1.66	42.1	33.7	18.6	21	9.94	1140
W594481		3.13		0.89	7.61	197.0	2180	1.58	2.85	2.12	6.67	51.3	8.4	11	13.65	43.0
W594482		4.02		0.53	8.06	29.9	2570	1.67	1.62	2.64	0.41	47.4	6.2	11	11.85	46.5
W594483		4.37		0.35	7.94	15.7	2830	1.46	0.85	2.75	0.37	39.3	6.4	12	8.65	18.2
W594484		3.31		0.52	7.68	31.0	2980	1.51	1.21	2.56	0.53	42.0	4.5	11	9.16	49.4
W594485		2.68		0.53	7.88	24.5	2850	1.43	1.38	2.56	0.83	50.1	5.8	10	7.51	38.1
W594486		<0.02		0.57	7.81	25.8	2840	1.60	1.33	2.56	0.97	49.8	5.9	11	7.83	38.7
W594487		2.97		0.77	7.83	54.3	930	1.33	2.05	2.53	0.39	49.4	10.2	11	10.25	61.1
W594488		2.82		9.63	7.44	149.0	410	1.48	32.6	2.03	0.87	49.5	13.9	9	12.95	185.0
W594489		3.59		0.84	7.80	40.3	2050	1.37	5.68	2.58	0.28	42.7	12.6	11	8.22	80.9
W594490		4.93		0.36	7.64	26.8	2330	1.49	1.54	2.62	1.47	48.5	11.5	12	8.44	16.3
W594491		4.75		0.26	7.57	21.7	2280	1.40	0.62	3.05	0.16	41.4	7.7	11	12.50	32.1
W594492		5.03		0.22	7.42	12.5	2200	1.62	0.40	2.47	0.25	50.8	7.7	11	10.25	15.9
W594493		3.00		0.47	7.70	16.5	2430	1.57	0.62	2.54	0.58	48.2	7.3	11	6.51	31.1
W594494		3.18		1.75	6.59	51.4	1560	1.38	1.45	1.92	11.10	49.3	8.1	10	9.26	130.0
W594495		4.79		0.33	7.03	8.0	2210	1.52	0.25	2.53	0.62	46.0	6.0	10	6.62	19.7
W594496		5.43		0.54	7.46	14.6	2440	1.69	0.49	2.69	0.85	48.6	11.2	13	8.40	31.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255775

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594457		4.19	16.30	0.12	1.0	0.828	3.18	25.0	11.2	0.38	1340	6.87	0.03	6.7	2.0	520
W594458		3.15	16.50	0.12	1.4	0.078	3.10	23.0	12.9	1.03	1470	4.36	0.05	8.0	2.3	640
W594459		3.89	15.60	0.13	1.2	0.458	2.83	30.4	20.6	1.10	2300	4.26	0.03	7.4	2.2	580
W594460		4.21	16.40	0.13	1.2	0.374	2.80	28.6	22.1	1.06	2860	3.98	0.03	7.8	2.4	570
W594461		3.19	17.75	0.17	1.2	0.096	3.09	27.3	17.5	1.04	1330	1.95	0.03	8.6	2.6	630
W594462		3.07	16.00	0.13	1.2	0.066	3.32	23.3	13.7	0.98	1840	1.62	0.04	7.7	2.3	610
W594463		3.30	16.20	0.15	1.0	0.150	3.20	28.7	12.8	1.09	1500	1.61	0.05	7.2	2.5	620
W594464		3.18	16.75	0.15	1.2	0.168	3.59	23.4	10.2	0.96	2010	1.45	0.05	7.8	2.3	670
W594465		3.03	17.40	0.13	1.2	0.075	3.24	28.2	16.6	0.93	1090	5.00	0.05	8.8	2.3	630
W594466		0.11	1.23	0.15	0.2	<0.005	0.11	1.3	1.2	1.79	118	0.05	0.17	1.3	0.5	60
W594467		3.10	16.55	0.15	1.1	0.081	3.54	22.3	15.6	1.01	1940	4.01	0.05	8.0	2.4	640
W594468		5.93	14.00	0.10	0.8	1.390	2.84	20.2	12.4	0.90	3360	1.63	0.03	6.0	2.5	510
W594469		2.67	16.55	0.15	1.0	0.086	2.98	20.2	11.0	0.86	1020	1.39	0.05	7.7	2.1	620
W594470		4.13	16.05	0.11	1.0	0.295	3.16	30.8	14.8	1.16	2110	1.13	0.04	7.3	2.8	600
W594471		3.39	17.85	0.16	1.3	0.075	3.38	29.0	31.2	0.59	825	1.70	0.09	8.8	3.2	740
W594472		9.23	14.30	0.12	0.9	1.540	2.70	19.5	16.6	0.69	2350	17.25	0.06	5.0	14.8	450
W594473		4.09	18.55	0.13	1.2	0.244	3.61	26.5	21.0	0.75	1380	1.79	0.07	8.7	2.5	680
W594474		4.18	15.10	0.12	1.2	0.414	3.34	29.2	11.0	0.86	1690	1.56	0.04	6.5	2.7	540
W594475		4.29	16.55	0.15	1.1	0.301	3.15	29.9	18.4	0.72	2810	1.37	0.04	8.2	3.1	670
W594476		11.50	13.15	0.11	0.7	10.00	2.52	18.6	6.5	0.72	1210	1.47	0.03	4.9	1.9	300
W594477		3.91	16.85	0.13	1.1	0.269	3.17	30.3	17.3	0.66	1460	1.23	0.04	7.7	2.6	640
W594478		3.45	16.15	0.13	1.0	0.169	3.49	17.4	19.0	0.63	6240	1.64	0.08	7.4	2.7	640
W594479		6.59	15.95	0.12	0.9	0.762	3.54	19.9	8.2	0.39	1240	1.77	0.04	6.6	2.3	550
W594480		9.05	13.45	0.12	0.8	1.625	2.63	17.9	16.5	0.66	2260	16.35	0.06	4.6	15.2	450
W594481		3.76	16.35	0.14	1.0	0.369	3.34	30.1	11.9	0.59	1320	1.54	0.93	7.3	2.6	650
W594482		3.56	16.95	0.16	1.0	0.195	2.76	26.0	12.5	0.82	928	1.01	2.16	7.7	2.4	660
W594483		3.45	16.15	0.12	1.0	0.140	2.83	21.7	10.7	0.81	689	2.45	2.16	7.6	2.6	700
W594484		3.76	16.15	0.15	1.0	0.190	3.05	21.5	14.1	0.81	927	1.11	1.75	7.7	2.1	680
W594485		3.46	16.35	0.16	1.0	0.156	2.84	28.2	10.6	0.86	855	1.68	2.30	7.9	2.1	660
W594486		3.46	16.95	0.15	0.9	0.160	2.85	27.2	11.1	0.86	865	1.83	2.28	8.2	2.3	660
W594487		4.14	15.90	0.15	1.0	0.211	3.39	27.7	12.2	0.78	888	1.84	0.90	7.5	2.6	670
W594488		4.30	16.40	0.13	1.0	0.411	3.71	27.8	8.0	0.66	1260	1.84	0.31	7.0	2.5	630
W594489		3.70	16.10	0.15	0.9	0.147	3.07	23.7	8.7	0.80	785	1.06	1.76	7.4	2.6	620
W594490		3.30	15.85	0.16	1.0	0.095	2.74	27.4	8.9	0.86	733	1.88	2.27	7.5	2.8	630
W594491		3.20	15.90	0.12	1.1	0.053	2.70	20.9	12.8	0.85	770	1.32	1.70	7.8	2.8	640
W594492		2.80	15.95	0.13	1.5	0.060	2.96	27.3	9.3	0.67	569	1.71	2.09	8.3	2.6	560
W594493		2.96	15.90	0.15	1.3	0.079	2.94	27.9	10.0	0.83	662	1.90	2.20	7.9	2.6	610
W594494		3.48	14.70	0.11	1.2	0.304	2.59	26.1	13.4	0.76	827	3.28	0.84	6.4	2.7	500
W594495		2.81	16.60	0.12	1.2	0.062	2.59	23.0	10.8	0.84	637	2.16	2.21	8.1	2.6	590
W594496		3.02	17.30	0.11	1.2	0.073	2.85	24.7	11.9	0.88	705	3.14	2.31	8.2	3.2	620

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255775

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594457		3700	217	0.004	3.48	12.50	10.0	1	7.7	66.5	0.54	1.12	11.30	0.222	3.26	3.3
W594458		38.6	96.0	0.002	0.43	4.68	11.2	<1	3.1	173.0	0.66	<0.05	11.70	0.267	1.97	4.4
W594459		948	138.5	0.004	1.09	9.39	10.7	<1	4.3	228	0.62	0.11	14.85	0.229	2.23	5.3
W594460		1270	129.0	0.002	1.28	10.15	10.9	<1	7.0	230	0.62	0.05	13.95	0.232	2.35	5.6
W594461		60.4	124.5	<0.002	0.93	9.68	12.0	1	2.3	230	0.62	0.16	12.80	0.257	2.42	5.0
W594462		155.0	118.0	0.002	0.61	7.35	9.8	<1	2.0	143.5	0.65	<0.05	12.95	0.245	2.65	5.2
W594463		435	155.0	0.002	0.89	11.70	11.2	<1	3.1	208	0.54	0.10	13.20	0.244	2.22	4.1
W594464		141.0	159.0	<0.002	0.65	7.02	11.5	<1	2.0	109.0	0.62	0.09	12.20	0.265	2.97	3.7
W594465		125.5	133.5	0.005	0.26	5.32	11.7	<1	1.9	139.0	0.77	<0.05	13.90	0.264	2.17	5.2
W594466		1.2	3.4	<0.002	0.01	0.14	0.3	1	0.2	84.0	0.14	<0.05	0.29	0.006	0.03	0.5
W594467		48.7	130.0	<0.002	0.81	10.95	10.5	1	2.2	127.0	0.63	0.06	12.25	0.269	2.90	3.6
W594468		1140	160.5	<0.002	4.85	15.95	9.2	2	3.5	51.9	0.45	0.45	9.29	0.205	2.58	5.3
W594469		20.7	92.1	<0.002	0.52	8.82	11.0	1	2.2	79.4	0.57	<0.05	9.61	0.268	2.37	5.2
W594470		206	152.0	<0.002	0.99	13.65	11.4	1	3.2	103.0	0.55	0.09	12.95	0.242	2.32	3.7
W594471		21.9	140.5	<0.002	0.16	7.75	12.6	<1	1.9	98.8	0.66	0.05	16.05	0.298	1.64	3.0
W594472		1610	157.0	0.004	7.92	104.5	8.6	1	10.5	65.0	0.41	0.71	9.05	0.169	2.20	5.4
W594473		30.7	139.0	<0.002	0.60	12.30	12.4	1	2.4	115.5	0.67	0.13	12.75	0.287	2.31	3.4
W594474		47.6	183.0	<0.002	0.84	14.85	10.7	1	3.0	78.0	0.60	0.14	14.75	0.211	2.55	3.8
W594475		311	179.0	<0.002	1.37	22.5	13.1	1	3.4	71.7	0.59	0.13	13.25	0.281	2.53	5.0
W594476		9990	143.5	<0.002	>10.0	63.0	8.6	1	15.8	29.6	0.34	0.81	6.31	0.179	2.08	4.0
W594477		98.5	184.5	<0.002	1.47	17.05	12.2	1	5.4	61.5	0.58	<0.05	13.25	0.262	2.57	5.4
W594478		130.5	123.5	<0.002	1.01	12.00	11.2	<1	2.5	104.5	0.54	0.08	9.81	0.259	2.28	2.7
W594479		3480	192.0	0.002	4.94	12.60	11.2	2	7.5	39.6	0.50	0.52	11.30	0.245	2.77	6.1
W594480		1590	141.5	<0.002	7.70	104.0	8.7	2	10.7	64.3	0.37	0.63	8.90	0.160	2.23	5.3
W594481		97.5	171.0	<0.002	0.69	7.39	12.2	1	2.4	201	0.53	0.17	12.75	0.259	2.19	3.4
W594482		32.0	103.0	<0.002	0.24	5.55	12.9	1	2.1	360	0.52	0.06	11.30	0.279	1.27	2.7
W594483		24.9	90.7	<0.002	0.20	2.62	12.1	1	1.8	424	0.52	<0.05	11.20	0.289	1.20	2.6
W594484		28.7	95.4	<0.002	0.45	3.93	12.0	1	2.4	342	0.56	0.06	9.89	0.287	1.41	2.8
W594485		34.8	109.5	0.002	0.35	3.32	12.5	1	2.2	380	0.61	0.12	10.75	0.276	1.25	3.5
W594486		36.7	107.5	<0.002	0.34	3.41	13.0	1	2.3	379	0.62	0.11	10.45	0.279	1.32	3.4
W594487		39.5	152.5	<0.002	1.51	4.68	12.3	1	2.9	196.0	0.57	0.18	11.15	0.264	1.87	4.4
W594488		195.5	198.0	<0.002	2.41	11.50	12.2	1	4.9	107.5	0.49	0.83	11.70	0.252	2.62	4.5
W594489		22.6	125.0	<0.002	1.15	4.01	11.8	1	2.4	326	0.54	2.29	12.05	0.258	1.40	3.6
W594490		19.5	99.6	<0.002	0.43	2.15	12.1	1	2.1	373	0.59	0.26	11.75	0.259	1.05	3.6
W594491		20.7	89.9	<0.002	0.26	3.69	11.7	1	1.6	327	0.59	<0.05	11.80	0.275	1.10	3.9
W594492		22.6	103.5	0.002	0.23	2.19	10.5	<1	1.7	341	0.76	<0.05	16.50	0.232	1.06	5.9
W594493		33.6	110.0	<0.002	0.24	3.35	11.6	1	1.7	375	0.63	<0.05	13.80	0.257	1.15	4.8
W594494		60.8	112.0	0.003	1.36	6.00	8.7	1	3.3	115.0	0.62	0.13	17.00	0.185	1.43	5.1
W594495		36.4	92.7	<0.002	0.12	2.06	10.7	1	1.7	395	0.68	0.05	12.45	0.253	1.04	3.9
W594496		43.4	97.9	<0.002	0.17	2.57	11.0	1	1.9	427	0.68	0.07	12.20	0.268	1.16	4.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255775

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594457		64	6.0	7.8	5800	28.8	8.50
W594458		74	6.2	16.3	422	39.0	0.029
W594459		64	4.4	15.1	1780	37.6	0.071
W594460		64	5.3	14.4	1680	38.9	0.080
W594461		71	5.3	16.9	137	39.5	0.048
W594462		70	3.6	15.2	166	30.7	0.033
W594463		67	2.2	15.1	409	27.7	0.126
W594464		76	3.3	14.8	249	28.3	0.025
W594465		71	3.2	17.3	273	32.0	0.017
W594466		1	0.1	3.8	7	3.9	<0.005
W594467		72	4.5	14.8	272	30.7	0.058
W594468		58	4.4	9.3	4450	22.6	0.244
W594469		71	1.8	13.6	198	27.8	0.011
W594470		70	2.8	18.6	1160	29.5	0.048
W594471		80	4.2	17.2	418	36.5	<0.005
W594472		56	7.4	10.2	3430	25.6	1.790
W594473		83	2.3	15.6	777	34.1	0.016
W594474		65	2.3	12.5	1340	29.9	0.139
W594475		76	3.6	16.7	3600	29.9	0.031
W594476		52	3.4	7.4	>10000	17.1	1.100
W594477		73	3.1	13.0	1650	29.7	0.050
W594478		74	2.6	13.4	1200	26.9	0.499
W594479		72	5.3	10.5	1600	23.7	1.065
W594480		54	7.1	8.9	3280	24.0	1.755
W594481		73	2.6	16.1	784	26.5	0.035
W594482		80	1.8	16.0	111	28.6	0.012
W594483		82	1.4	14.7	89	27.0	0.006
W594484		81	1.9	14.4	122	24.8	0.017
W594485		76	1.5	17.3	143	25.5	0.018
W594486		78	1.5	17.0	148	23.8	0.016
W594487		76	3.0	15.8	105	26.7	0.141
W594488		73	3.4	14.0	143	25.4	0.903
W594489		73	5.5	15.0	87	25.6	0.240
W594490		73	25.0	16.3	244	26.6	0.046
W594491		77	1.3	16.0	70	28.4	0.010
W594492		64	1.5	16.4	74	40.4	0.006
W594493		71	1.3	16.8	111	34.8	0.008
W594494		57	2.1	13.1	1380	33.9	0.032
W594495		71	1.1	17.6	112	32.3	0.010
W594496		74	1.3	19.0	128	33.8	0.011

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255775

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255788

Project: Klaza

P.O. No.: 19-100

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255788

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594254		5.29	0.08	7.16	5.2	2380	1.75	0.33	2.54	0.10	45.6	8.0	12	14.80	12.9	2.77
W594255		7.90	0.08	8.45	8.5	2350	1.21	0.54	1.37	0.09	53.1	9.8	9	11.45	9.8	3.04
W594256		2.75	0.10	8.09	9.3	2090	1.40	0.65	1.32	0.11	52.6	13.5	10	12.40	4.2	2.91
W594257		1.55	0.19	5.70	17.7	1360	1.53	0.49	0.65	0.10	39.6	6.5	10	24.8	15.8	2.07
W594258		3.10	0.10	7.36	15.1	1750	1.46	0.46	1.78	0.15	48.6	9.6	8	23.8	19.8	2.97
W594259		<0.02	0.10	7.32	13.5	1740	1.43	0.47	1.75	0.15	48.4	9.9	8	24.8	21.2	2.94
W594260		4.47	0.16	7.45	13.9	2210	1.50	1.28	2.37	0.09	41.3	12.2	11	9.00	9.7	2.88
W594261		5.24	0.09	7.69	5.3	2310	1.70	0.28	2.81	0.10	45.9	8.2	14	15.20	11.4	2.93
W594262		5.44	0.11	7.49	6.0	2330	1.46	0.18	2.14	0.16	42.0	7.9	11	10.55	31.5	3.12
W594263		3.76	0.08	7.34	3.5	2240	1.66	0.13	2.59	0.09	41.6	7.2	12	14.25	13.9	2.84
W594264		3.00	0.07	7.54	6.9	2250	1.27	0.16	2.52	0.09	40.8	6.9	10	18.20	12.0	2.91
W594265		2.00	0.49	5.80	97.8	1030	1.24	0.16	4.74	0.21	40.4	6.5	7	15.85	6.6	2.55
W594266		0.61	0.36	5.48	62.3	990	1.23	0.14	4.34	0.26	36.1	5.9	6	13.05	7.7	2.39
W594267		4.51	0.11	7.24	10.9	1970	1.56	0.16	2.21	0.15	42.8	6.2	10	22.2	19.8	2.66
W594268		2.08	0.11	6.87	31.6	2530	1.48	0.21	3.93	0.11	42.5	6.5	9	17.35	9.3	2.89
W594269		4.77	0.08	7.11	8.3	2410	1.66	0.19	2.79	0.09	40.6	6.6	13	18.80	14.4	2.72
W594270		2.38	0.20	6.69	54.0	2240	1.47	0.53	4.03	0.18	42.2	9.9	10	15.65	4.1	2.80
W594271		0.26	40.7	5.82	2630	1010	1.22	37.3	1.75	43.8	38.8	17.1	23	9.99	1180	9.18
W594272		3.01	0.20	6.74	16.4	3250	1.59	1.09	2.88	0.11	40.2	12.5	12	10.35	5.1	2.82
W594273		3.83	0.26	6.98	28.6	2840	1.70	0.83	3.36	0.13	44.2	16.7	9	12.40	7.1	2.59
W594274		2.64	0.10	7.58	9.3	5240	1.64	0.82	2.15	0.16	46.1	7.5	10	8.78	7.7	3.15
W594275		8.51	0.13	7.70	10.5	2760	1.44	0.95	1.79	0.07	41.6	7.8	11	10.35	14.3	2.66
W594276		2.84	0.42	7.77	19.5	2310	1.51	1.50	1.51	0.10	52.4	7.6	11	12.25	11.3	3.05
W594277		4.26	0.16	7.30	16.8	2540	1.54	0.92	1.97	0.09	44.2	7.7	11	11.75	5.9	2.73
W594278		5.55	1.26	6.89	104.0	1660	1.54	2.58	3.19	1.44	44.6	9.7	9	11.55	32.3	2.84
W594279		2.71	14.45	6.35	167.0	260	1.26	12.80	1.55	2.10	25.6	32.5	28	3.73	247	5.36
W594280		4.89	0.02	0.13	0.7	30	0.08	0.11	34.0	0.02	1.02	0.7	2	0.05	3.8	0.14
W594281		4.84	0.14	7.14	14.0	2380	1.45	0.36	2.81	0.14	40.9	7.6	11	17.70	13.3	2.89
W594282		4.92	0.11	7.87	7.1	2740	1.49	0.22	2.59	0.17	51.0	8.1	15	12.30	15.5	3.02
W594283		2.55	0.11	8.14	7.9	2890	1.27	0.20	1.95	0.17	42.0	8.0	11	11.60	39.5	3.16
W594284		3.22	0.08	7.26	4.6	2390	1.63	0.18	3.08	0.11	39.2	7.8	12	19.90	19.2	3.07
W594285		5.50	0.09	7.81	8.0	2130	1.30	0.21	2.31	0.16	44.6	8.2	11	12.45	25.8	3.18
W594286		4.01	0.08	8.17	4.9	2480	1.72	0.59	3.12	0.11	46.4	8.0	14	11.90	11.6	3.26
W594287		3.83	0.07	7.78	4.8	2470	1.68	0.17	2.93	0.11	46.9	7.4	14	15.50	10.0	3.07
W594288		4.04	0.08	7.52	6.9	2110	1.55	0.14	2.65	0.11	43.8	7.1	11	15.85	10.7	2.89
W594289		0.26	33.7	7.51	150.0	120	0.64	10.35	6.31	34.3	29.6	96.2	115	1.77	6770	9.99
W594290		3.60	0.11	6.87	8.9	1880	1.56	0.18	4.00	0.17	42.0	7.9	9	13.20	17.2	3.13
W594291		3.53	0.07	8.13	4.5	2560	1.78	0.12	2.43	0.09	51.1	7.3	12	19.35	9.4	3.01
W594292		5.28	0.06	7.47	5.1	2380	1.65	0.11	2.65	0.09	43.7	7.2	14	15.00	8.1	2.91
W594293		5.61	0.08	6.78	13.8	1810	1.34	0.13	2.92	0.12	37.4	6.6	10	14.40	7.0	2.73

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255788

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594254		17.05	0.09	1.3	0.047	2.96	22.8	14.1	0.69	586	1.79	2.23	8.1	2.3	590	18.8
W594255		17.50	0.14	1.5	0.043	3.16	29.7	27.6	0.46	687	2.84	0.63	8.7	2.3	690	17.4
W594256		16.90	0.14	1.3	0.049	2.98	29.5	61.7	0.63	940	1.94	0.07	8.1	2.6	700	13.0
W594257		11.65	0.09	1.0	0.031	1.93	23.5	258	0.33	858	4.10	0.05	5.6	1.9	420	12.9
W594258		15.40	0.12	1.4	0.047	2.80	26.8	257	0.65	1080	1.70	0.07	7.5	2.5	580	15.0
W594259		15.45	0.12	1.5	0.050	2.77	26.9	257	0.64	1050	1.88	0.07	7.4	2.4	590	15.3
W594260		16.45	0.15	1.5	0.048	3.24	22.2	22.7	0.60	891	2.29	1.25	8.0	2.4	620	14.0
W594261		16.80	0.16	1.6	0.044	3.01	24.5	15.0	0.75	648	2.72	2.27	8.3	2.3	590	16.7
W594262		15.75	0.15	1.6	0.045	3.08	21.4	25.4	0.48	707	2.14	0.83	8.3	2.3	630	20.5
W594263		15.05	0.12	1.6	0.036	2.80	22.0	16.6	0.59	634	1.50	2.02	7.8	2.1	590	19.0
W594264		15.40	0.15	1.5	0.040	3.16	20.1	28.1	0.65	761	1.54	1.33	8.0	2.0	640	16.0
W594265		12.00	0.16	1.1	0.028	2.13	23.1	61.8	1.43	2420	1.25	0.03	5.6	2.1	410	22.9
W594266		10.65	0.14	1.0	0.028	1.72	21.0	74.5	1.35	2300	1.07	0.02	5.4	1.9	420	20.2
W594267		15.60	0.11	1.3	0.042	3.05	20.7	58.6	0.55	707	1.95	1.06	8.1	4.2	580	17.7
W594268		14.60	0.11	1.2	0.036	3.42	21.0	31.8	1.07	878	2.28	0.40	7.3	2.8	560	16.6
W594269		15.15	0.12	1.3	0.038	3.10	19.7	15.8	0.60	629	1.84	1.88	7.6	2.3	570	16.6
W594270		14.40	0.11	1.2	0.038	3.67	21.0	27.1	1.13	1230	2.75	0.22	7.5	2.4	560	21.8
W594271		13.25	0.11	0.8	1.490	2.72	20.5	16.6	0.70	2350	15.85	0.06	4.6	14.2	460	1620
W594272		15.15	0.12	1.4	0.064	3.74	18.6	20.5	0.54	619	2.85	1.18	8.7	2.1	640	12.3
W594273		15.70	0.12	1.2	0.070	4.11	21.3	26.2	0.80	1560	2.30	0.37	7.6	1.9	580	10.1
W594274		16.15	0.11	1.1	0.061	3.80	22.8	27.8	0.80	868	5.57	0.12	8.3	2.5	680	8.1
W594275		16.85	0.11	1.1	0.047	3.16	20.3	35.6	0.47	578	1.86	0.65	8.5	2.1	640	13.9
W594276		16.50	0.11	1.1	0.119	3.70	26.7	44.2	0.62	1200	2.36	0.15	7.7	2.3	620	17.8
W594277		15.80	0.12	1.2	0.049	3.75	21.2	26.1	0.59	705	1.93	0.68	8.2	2.2	590	12.2
W594278		14.85	0.12	1.1	0.097	3.51	22.6	29.5	0.92	3390	1.64	0.04	7.8	2.4	590	51.8
W594279		16.90	0.08	1.0	0.368	1.98	13.0	11.8	0.93	5240	2.70	0.23	7.1	3.1	700	88.4
W594280		0.38	0.05	0.1	<0.005	0.04	1.2	1.1	1.99	132	0.05	0.06	0.2	0.5	70	0.7
W594281		16.10	0.11	1.0	0.063	3.11	19.0	19.1	0.65	1250	1.43	1.79	8.1	2.1	590	17.6
W594282		15.95	0.13	0.9	0.041	3.16	26.6	17.5	0.85	568	1.17	2.38	7.9	2.3	620	20.6
W594283		17.50	0.11	1.1	0.044	3.49	19.9	34.7	0.46	600	1.24	0.83	9.0	2.2	680	18.5
W594284		16.55	0.11	1.1	0.038	2.65	18.4	19.0	0.78	625	0.73	2.37	8.5	2.5	630	16.1
W594285		17.05	0.11	1.0	0.043	2.59	21.3	36.8	0.62	807	0.73	0.43	8.1	2.5	670	16.6
W594286		17.15	0.12	1.1	0.049	2.76	22.6	15.8	0.88	749	0.99	2.54	9.4	2.6	740	16.8
W594287		16.45	0.12	1.0	0.045	2.78	23.4	17.8	0.81	655	0.84	2.53	8.3	2.5	650	16.8
W594288		16.70	0.12	1.0	0.043	2.77	21.4	34.3	0.63	603	0.71	0.89	8.6	2.3	650	16.9
W594289		11.90	0.12	0.7	2.59	1.09	16.6	9.0	2.34	924	59.7	0.88	2.9	383	730	8710
W594290		15.60	0.11	0.9	0.041	2.51	20.6	37.4	0.96	753	0.64	0.77	7.6	2.6	610	25.4
W594291		16.75	0.12	1.0	0.039	2.89	26.2	20.4	0.66	565	0.69	2.38	8.1	2.5	660	17.2
W594292		15.90	0.11	1.0	0.038	2.75	21.7	21.3	0.70	596	0.55	2.31	8.2	2.3	600	16.1
W594293		15.10	0.12	0.9	0.038	2.59	18.0	34.7	0.70	774	0.42	0.59	7.7	2.2	580	16.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255788

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594254		111.0	<0.002	0.03	2.53	10.1	<1	1.6	359	0.64	<0.05	12.35	0.253	1.24	3.8	68
W594255		142.0	<0.002	0.07	16.70	13.1	1	2.1	128.0	0.70	<0.05	14.25	0.296	1.44	3.2	78
W594256		135.0	<0.002	0.14	22.3	13.0	<1	1.9	95.4	0.62	<0.05	13.05	0.286	1.55	2.0	79
W594257		91.2	<0.002	0.17	79.6	8.2	<1	2.2	156.0	0.45	<0.05	10.10	0.195	1.15	4.0	49
W594258		113.0	<0.002	0.22	28.8	11.2	1	2.8	177.0	0.64	<0.05	13.95	0.247	1.45	3.8	69
W594259		112.5	<0.002	0.22	27.8	11.1	<1	2.7	175.5	0.64	<0.05	13.55	0.242	1.41	3.8	69
W594260		125.5	<0.002	0.27	6.81	10.7	1	2.7	170.0	0.66	0.05	12.30	0.263	1.62	3.4	70
W594261		116.5	<0.002	0.05	2.63	11.7	1	2.1	363	0.70	<0.05	13.65	0.265	1.26	3.8	71
W594262		105.5	<0.002	0.02	14.65	10.3	<1	2.4	171.0	0.75	<0.05	12.75	0.269	1.26	3.1	71
W594263		98.2	<0.002	0.01	4.15	10.2	1	1.7	369	0.72	<0.05	12.70	0.248	1.04	3.8	67
W594264		109.5	<0.002	0.05	8.33	10.8	1	1.9	281	0.67	<0.05	12.05	0.281	1.48	3.6	75
W594265		101.5	<0.002	1.00	26.5	7.9	1	1.3	201	0.51	<0.05	10.90	0.187	1.66	6.0	52
W594266		85.2	<0.002	0.81	27.8	7.8	1	1.3	169.0	0.46	<0.05	10.15	0.187	1.41	7.9	51
W594267		118.5	<0.002	0.09	11.70	9.9	1	1.5	271	0.69	<0.05	11.50	0.255	1.61	3.3	70
W594268		125.5	<0.002	0.19	9.18	8.9	<1	1.4	211	0.60	<0.05	10.95	0.237	1.99	4.7	63
W594269		115.0	<0.002	0.04	3.78	9.3	1	1.4	345	0.62	<0.05	11.00	0.247	1.46	3.5	67
W594270		133.0	<0.002	0.44	10.60	8.9	<1	1.5	177.0	0.62	0.07	10.65	0.238	2.38	5.3	62
W594271		149.0	0.002	7.93	104.0	8.0	2	9.8	63.3	0.37	0.72	9.36	0.169	2.08	5.5	56
W594272		130.0	<0.002	0.32	5.39	10.7	1	1.9	200	0.70	0.10	9.51	0.262	1.89	4.3	72
W594273		168.0	<0.002	0.38	9.22	9.6	1	2.4	147.5	0.63	0.07	9.65	0.236	2.30	6.1	68
W594274		140.5	<0.002	0.17	15.10	12.2	1	2.4	122.0	0.61	<0.05	11.40	0.287	1.97	2.8	83
W594275		125.5	<0.002	0.16	11.25	11.4	1	2.3	144.5	0.65	<0.05	10.55	0.276	1.58	2.3	72
W594276		165.5	<0.002	0.33	13.60	10.9	1	1.8	106.0	0.64	0.05	12.10	0.265	2.21	4.0	75
W594277		147.5	<0.002	0.28	8.44	10.1	1	1.6	142.0	0.67	<0.05	11.55	0.258	2.02	3.5	69
W594278		172.5	<0.002	0.86	17.90	10.1	1	2.1	101.5	0.65	0.09	11.45	0.248	2.93	4.6	67
W594279		119.0	0.004	2.18	69.4	11.2	<1	2.7	105.0	0.58	0.49	10.40	0.256	1.75	3.3	88
W594280		1.0	<0.002	0.01	0.18	0.5	2	<0.2	80.2	<0.05	<0.05	0.12	0.008	0.02	0.2	3
W594281		118.0	<0.002	0.08	4.81	9.6	1	1.8	362	0.61	<0.05	9.79	0.255	1.46	3.8	69
W594282		129.0	<0.002	0.04	2.55	10.4	1	1.7	445	0.61	<0.05	13.10	0.264	1.22	4.3	72
W594283		125.0	<0.002	0.04	10.90	11.4	<1	1.9	186.0	0.67	<0.05	11.10	0.295	1.38	3.0	79
W594284		86.2	<0.002	0.01	1.83	10.2	<1	1.7	483	0.62	<0.05	8.87	0.275	1.04	3.2	74
W594285		88.0	<0.002	0.05	20.8	10.9	1	2.0	167.0	0.61	<0.05	9.78	0.279	1.14	2.5	77
W594286		106.0	<0.002	0.01	1.84	12.5	1	2.1	460	0.66	<0.05	11.10	0.303	1.14	3.9	83
W594287		99.3	<0.002	0.01	1.57	11.1	1	1.7	446	0.62	<0.05	11.25	0.274	1.11	3.6	75
W594288		96.6	<0.002	0.06	12.50	10.7	1	1.9	229	0.64	<0.05	10.70	0.278	1.26	2.8	75
W594289		38.3	0.016	6.57	34.0	13.1	14	6.9	160.5	0.21	0.61	3.42	0.206	2.41	5.3	406
W594290		79.8	<0.002	0.04	13.30	9.9	1	1.7	248	0.56	<0.05	9.50	0.259	1.12	2.6	75
W594291		115.0	<0.002	0.01	4.80	11.4	1	1.6	467	0.61	<0.05	13.00	0.277	1.07	3.5	75
W594292		95.9	<0.002	0.01	3.33	10.2	1	1.7	412	0.63	<0.05	10.75	0.266	1.05	3.3	71
W594293		84.0	<0.002	0.09	11.55	9.5	1	1.6	189.5	0.59	<0.05	9.40	0.254	1.31	3.3	68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255788

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594254		1.4	16.9	49	40.1	<0.005
W594255		3.7	18.3	55	40.2	<0.005
W594256		4.7	17.2	64	36.0	0.029
W594257		4.1	11.7	44	27.6	0.010
W594258		6.3	16.6	63	38.8	0.005
W594259		6.0	16.6	63	40.9	0.031
W594260		2.9	15.0	56	40.1	0.012
W594261		2.0	17.3	53	43.7	<0.005
W594262		4.7	14.7	60	41.1	<0.005
W594263		2.9	15.7	54	39.9	<0.005
W594264		2.9	14.6	53	36.9	<0.005
W594265		3.0	13.3	44	29.3	0.024
W594266		2.9	12.4	49	25.6	0.019
W594267		2.4	14.6	57	38.5	<0.005
W594268		3.0	14.5	51	35.7	<0.005
W594269		1.5	14.6	50	39.1	<0.005
W594270		2.6	12.7	62	37.4	0.009
W594271		6.4	9.3	3450	24.1	1.725
W594272		2.3	14.8	49	40.5	0.010
W594273		2.8	17.1	46	37.5	0.010
W594274		2.8	15.9	60	31.9	<0.005
W594275		3.1	15.2	48	33.3	0.008
W594276		5.1	15.8	60	30.3	0.012
W594277		2.9	14.4	52	33.3	0.007
W594278		4.4	15.4	232	31.9	0.030
W594279		27.5	8.4	196	28.2	1.490
W594280		0.1	2.2	5	2.0	<0.005
W594281		3.9	14.6	55	28.7	<0.005
W594282		2.3	17.5	52	27.6	<0.005
W594283		4.2	15.6	59	31.5	<0.005
W594284		1.0	15.5	58	30.4	<0.005
W594285		2.3	16.6	64	29.1	<0.005
W594286		1.3	19.2	62	30.3	<0.005
W594287		1.3	17.2	57	29.0	<0.005
W594288		2.3	15.2	54	30.1	<0.005
W594289		5.5	14.2	8310	27.9	1.450
W594290		2.4	16.0	73	26.9	<0.005
W594291		1.4	17.6	62	29.9	<0.005
W594292		1.5	16.1	57	28.5	<0.005
W594293		1.6	14.8	48	28.2	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255788

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255791

Project: Klaza

P.O. No.: 19-097

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255791

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593114		4.52	0.06	6.64	19.6	1960	1.95	0.18	3.12	0.12	48.6	8.1	20	19.30	9.6	2.71
W593115		2.65	0.26	6.54	36.8	2780	1.55	0.22	3.20	0.36	41.5	8.4	7	19.05	20.5	2.69
W593116		4.84	0.14	6.84	15.8	2290	1.66	0.58	2.84	0.07	37.0	24.6	9	15.90	6.8	3.09
W593117		0.26	35.4	7.30	150.5	140	0.63	11.35	6.21	34.1	31.3	98.3	118	1.74	6880	9.83
W593118		6.21	0.12	8.24	9.3	2530	1.79	0.99	2.20	0.10	46.3	7.4	9	16.90	7.1	3.11
W593119		6.82	0.09	7.81	9.1	2330	1.68	0.51	2.04	0.12	44.6	12.7	9	14.00	5.2	3.28
W593120		5.94	0.08	8.38	8.3	4210	1.44	0.38	1.71	0.13	50.6	9.9	9	13.25	6.1	3.42
W593121		6.63	0.08	7.47	9.7	2240	1.75	0.38	2.35	0.11	38.3	5.8	9	18.95	5.0	2.69
W593122		2.71	0.08	8.01	9.0	2420	1.67	0.36	1.57	0.10	51.5	7.8	9	22.3	3.9	3.04
W593123		4.52	0.30	7.42	60.4	1820	1.36	0.42	1.94	0.18	43.1	19.4	8	15.55	11.8	3.16
W593124		4.75	0.11	7.48	11.8	1780	1.49	0.16	2.01	0.10	35.4	6.7	9	19.40	12.9	2.83
W593125		5.00	0.01	0.13	<0.2	30	0.05	0.06	32.4	0.02	1.23	0.6	2	0.10	1.0	0.13
W593126		4.34	0.10	7.49	7.3	2150	1.43	0.18	2.66	0.11	42.6	6.7	11	28.1	23.5	3.05
W593127		7.53	0.07	7.52	8.4	2370	1.33	0.22	2.71	0.10	40.2	8.2	11	24.7	3.6	2.94
W593128		3.31	0.11	7.40	17.3	2080	1.61	0.26	2.24	0.09	43.6	10.0	9	20.7	3.8	3.00
W593129		6.27	0.06	7.38	10.1	1560	1.53	0.25	1.83	0.11	40.8	7.5	9	31.4	9.5	2.83
W593130		6.90	0.06	7.41	7.1	2100	1.48	0.12	2.57	0.11	40.5	7.0	10	27.3	9.2	2.78
W593131		1.34	0.40	3.36	17.9	790	0.86	0.18	1.49	0.39	22.0	3.7	15	12.35	19.1	1.78
W593132		7.02	0.16	7.51	13.4	2040	1.52	0.08	2.25	0.38	40.2	7.5	10	27.3	18.2	2.91
W593133		<0.02	0.14	7.78	11.8	2110	1.55	0.09	2.23	0.36	40.3	7.6	12	28.6	18.7	2.99
W593134		4.65	0.06	7.60	7.6	2260	1.62	0.13	2.82	0.11	40.5	7.2	12	11.65	5.4	2.87
W593135		4.77	0.06	7.40	7.2	2190	1.46	0.17	2.82	0.09	43.1	5.5	10	13.65	6.4	2.61
W593136		3.92	0.06	7.52	8.8	2260	1.60	0.12	2.61	0.10	37.7	6.6	12	11.50	6.0	2.88
W593137		3.04	0.10	7.22	11.7	2130	1.40	0.14	3.26	0.10	43.5	6.3	9	18.35	3.5	2.81
W593138		0.25	41.7	6.03	2710	50	1.20	36.5	1.73	46.5	34.2	17.7	22	10.80	1230	9.43
W593139		3.82	0.10	7.40	14.1	2510	1.50	0.23	3.17	0.13	39.2	7.6	11	16.20	4.1	2.93
W593140		4.07	0.09	7.79	9.7	2450	1.38	0.22	2.45	0.13	46.0	7.8	16	8.53	5.1	2.96
W593141		5.73	0.10	7.67	7.0	2460	1.52	0.14	2.65	0.12	37.7	7.6	12	9.23	18.6	3.02
W593142		3.61	0.19	7.73	7.6	2350	1.62	0.19	2.44	0.15	43.6	8.8	11	10.55	62.5	2.89
W593143		4.88	0.10	7.34	5.3	2300	1.55	0.15	2.51	0.12	36.6	6.5	15	10.70	27.8	2.90
W593144		4.17	0.11	7.73	4.9	2380	1.56	0.21	2.57	0.13	40.0	7.0	14	14.15	21.1	3.00
W593145		1.24	0.09	7.45	5.3	2450	1.65	0.18	3.24	0.11	44.7	9.5	10	9.42	14.7	3.08
W593146		1.07	0.09	7.67	7.2	2590	1.50	0.26	2.64	0.08	42.4	11.8	10	9.69	16.5	3.01
W593147		5.88	0.11	7.24	5.1	2290	1.50	0.23	2.55	0.12	39.7	6.3	12	11.55	24.7	2.78
W593148		1.80	0.15	7.24	8.5	2280	1.55	0.73	3.00	0.08	39.9	13.4	10	7.43	19.3	2.79
W593149		6.56	0.16	7.67	7.1	2880	1.42	0.27	2.41	0.12	42.3	7.2	11	10.70	38.6	3.01
W593150		2.49	0.08	7.54	5.0	2170	1.79	0.27	2.45	0.13	46.2	6.7	12	14.95	17.3	2.85
W594251		1.44	0.08	6.59	6.0	1850	1.41	0.23	2.63	0.10	39.9	6.3	11	9.87	5.8	2.46
W594252		3.51	0.08	7.56	3.8	2370	1.69	0.25	2.69	0.11	42.3	7.3	12	12.80	12.4	2.95
W594253		1.78	0.10	7.33	6.3	2310	1.43	0.30	3.02	0.11	37.1	7.0	9	10.80	18.8	3.10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255791

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593114		17.25	0.11	3.7	0.039	1.56	23.3	183.0	0.86	639	1.66	0.06	10.8	5.9	1230	16.3
W593115		14.85	0.11	1.3	0.042	2.91	20.2	47.8	0.86	1360	2.80	0.60	7.2	2.8	580	23.2
W593116		15.15	0.11	1.2	0.055	2.79	17.6	17.9	0.62	639	0.39	2.10	7.7	2.2	590	15.8
W593117		11.85	0.11	0.7	2.59	1.07	17.5	9.4	2.29	909	56.8	0.86	2.9	370	710	8600
W593118		17.85	0.11	1.4	0.110	2.47	22.7	28.0	0.73	711	0.35	2.08	8.4	2.1	650	17.4
W593119		17.05	0.12	1.3	0.076	2.54	21.9	28.6	0.70	791	0.50	1.65	8.9	2.2	630	14.4
W593120		17.45	0.11	1.5	0.058	2.94	25.6	37.3	0.54	810	1.18	0.10	8.7	2.3	670	17.2
W593121		16.25	0.11	1.6	0.047	2.72	18.8	49.0	0.57	577	0.51	1.49	8.9	2.1	600	18.2
W593122		16.65	0.12	1.6	0.051	3.12	26.6	26.5	0.55	524	0.54	1.25	8.5	2.1	620	17.5
W593123		16.15	0.14	1.4	0.057	2.97	22.2	59.1	0.73	1100	0.56	0.23	8.0	2.4	580	20.2
W593124		16.25	0.13	1.5	0.039	3.17	17.4	154.5	0.66	714	0.85	0.72	7.8	2.2	630	16.8
W593125		0.36	0.16	<0.1	0.005	0.03	1.3	1.3	2.10	134	0.05	0.05	0.1	0.4	80	0.5
W593126		15.55	0.17	1.4	0.043	2.88	21.5	15.0	0.86	616	2.14	2.35	7.5	2.4	600	16.4
W593127		15.40	0.19	1.4	0.045	3.09	21.3	19.8	0.77	559	1.32	2.13	7.3	2.1	570	17.7
W593128		16.40	0.20	1.6	0.046	3.05	22.5	171.5	0.72	645	0.94	0.98	7.8	2.2	600	14.4
W593129		16.25	0.19	1.6	0.038	3.11	20.9	205	0.61	615	0.81	0.40	7.8	2.2	580	16.1
W593130		15.90	0.19	1.7	0.041	3.03	21.0	69.2	0.74	729	1.04	1.34	7.8	2.0	560	18.2
W593131		7.06	0.13	0.6	0.020	1.11	12.7	132.5	0.49	1400	1.17	0.03	3.0	1.4	190	76.8
W593132		16.10	0.19	1.6	0.041	3.09	21.4	85.3	0.67	1080	1.15	1.07	8.0	2.3	580	27.1
W593133		16.80	0.18	1.6	0.039	3.19	21.8	83.5	0.67	1050	1.19	1.14	8.2	2.4	580	23.5
W593134		16.35	0.19	1.5	0.036	2.90	20.3	17.8	0.75	636	1.03	2.29	7.7	2.3	590	17.5
W593135		15.25	0.18	1.5	0.052	2.58	23.7	21.9	0.79	591	0.53	2.06	7.6	2.1	560	17.6
W593136		16.50	0.20	1.5	0.044	2.91	19.2	15.9	0.77	628	0.80	2.31	7.9	2.3	570	20.6
W593137		15.40	0.20	1.5	0.040	3.07	23.6	68.8	1.01	866	0.63	0.40	7.5	2.2	550	17.9
W593138		14.80	0.16	0.9	1.670	2.71	18.2	17.0	0.74	2350	19.15	0.06	4.8	15.3	470	1690
W593139		18.65	0.17	1.4	0.077	3.16	20.9	19.3	0.69	594	0.49	1.58	7.1	2.1	530	15.5
W593140		15.60	0.20	1.6	0.042	3.10	24.5	15.4	0.81	503	0.96	2.33	7.4	2.2	590	20.5
W593141		16.00	0.18	1.3	0.041	2.96	19.1	12.9	0.84	690	1.53	2.56	7.6	2.2	600	18.0
W593142		16.30	0.21	1.4	0.042	3.01	22.8	13.1	0.68	647	1.57	2.38	7.6	2.2	590	18.6
W593143		16.25	0.17	1.3	0.045	2.85	18.8	14.4	0.77	678	1.34	2.46	7.6	2.3	570	17.6
W593144		17.25	0.19	1.4	0.047	2.91	20.7	14.4	0.76	654	1.47	2.52	7.9	2.4	580	19.5
W593145		16.15	0.19	1.3	0.037	2.96	24.0	13.0	0.83	759	1.24	2.14	7.4	2.2	560	17.1
W593146		17.45	0.21	1.4	0.048	3.18	22.7	13.3	0.77	698	1.50	2.26	8.0	2.3	600	16.8
W593147		16.05	0.19	1.3	0.047	2.77	20.3	13.0	0.75	605	1.43	2.32	7.3	2.2	540	17.6
W593148		15.65	0.21	1.3	0.074	3.13	20.7	13.7	0.72	789	1.54	1.65	7.1	2.1	540	14.0
W593149		16.80	0.21	1.4	0.045	3.06	21.7	18.1	0.56	704	1.63	1.57	7.8	2.1	580	21.6
W593150		16.70	0.19	1.6	0.043	2.93	23.7	14.6	0.77	593	2.29	2.44	8.5	2.1	570	20.7
W594251		14.65	0.21	1.5	0.052	3.07	20.7	13.5	0.42	647	4.21	1.40	7.2	1.9	430	14.7
W594252		17.15	0.20	1.4	0.039	2.81	21.1	16.1	0.67	673	1.25	2.17	8.1	2.3	570	18.9
W594253		16.00	0.19	1.4	0.034	2.79	18.7	18.8	0.52	786	1.81	1.36	7.6	2.2	580	20.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255791

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593114		38.3	<0.002	0.07	15.50	7.8	1	1.3	357	0.70	<0.05	7.64	0.342	1.22	5.0	74
W593115		102.5	0.002	0.25	12.75	9.2	1	2.0	268	0.58	<0.05	10.55	0.238	1.69	3.4	65
W593116		100.5	<0.002	0.43	5.00	9.1	<1	2.2	278	0.61	<0.05	9.73	0.248	1.42	2.7	66
W593117		35.5	0.015	6.47	33.4	13.5	14	6.9	158.0	0.21	0.74	3.77	0.208	2.42	6.2	404
W593118		105.5	<0.002	0.11	12.65	11.8	1	3.9	205	0.71	<0.05	12.85	0.274	1.32	3.3	77
W593119		101.5	<0.002	0.14	12.50	11.3	<1	1.9	152.5	0.68	<0.05	12.55	0.271	1.26	2.7	76
W593120		111.5	<0.002	0.11	21.5	11.6	1	2.2	118.5	0.71	<0.05	14.15	0.296	1.29	2.3	83
W593121		94.5	<0.002	0.05	12.80	10.1	<1	1.8	177.5	0.77	<0.05	11.05	0.267	1.26	3.6	70
W593122		130.5	<0.002	0.04	10.65	10.8	1	1.6	171.5	0.73	<0.05	14.80	0.261	1.36	3.0	68
W593123		112.0	<0.002	0.62	18.80	10.2	<1	2.4	150.0	0.65	0.06	12.95	0.258	1.81	4.4	71
W593124		103.5	<0.002	0.13	17.05	9.6	<1	1.8	187.0	0.65	<0.05	11.05	0.267	1.66	3.4	73
W593125		1.0	<0.002	<0.01	0.18	0.2	<1	<0.2	68.1	<0.05	<0.05	0.12	0.005	0.02	0.1	1
W593126		102.5	0.002	0.01	3.33	10.1	<1	1.8	388	0.61	<0.05	11.45	0.272	1.22	2.9	75
W593127		117.0	<0.002	0.05	5.36	9.2	<1	1.5	337	0.61	<0.05	11.90	0.250	1.42	3.5	69
W593128		128.5	0.002	0.13	19.70	10.6	<1	1.8	206	0.64	<0.05	12.85	0.265	1.67	3.1	70
W593129		118.0	0.002	0.03	29.2	10.0	<1	1.7	189.5	0.67	<0.05	12.10	0.250	1.59	3.2	69
W593130		113.0	<0.002	0.03	11.80	9.6	<1	2.3	265	0.72	<0.05	12.25	0.247	1.46	4.3	68
W593131		49.4	<0.002	0.10	134.5	4.6	<1	2.6	104.0	0.25	<0.05	6.31	0.107	0.82	7.3	45
W593132		117.0	<0.002	0.09	20.1	9.6	<1	1.8	228	0.74	<0.05	11.80	0.254	1.54	4.2	70
W593133		121.5	<0.002	0.08	20.2	10.0	<1	1.9	237	0.73	<0.05	12.50	0.261	1.56	4.3	72
W593134		93.6	<0.002	0.05	3.51	9.8	<1	1.7	370	0.65	<0.05	11.60	0.264	1.09	3.6	72
W593135		96.2	<0.002	0.02	7.19	9.5	<1	1.8	325	0.61	<0.05	12.45	0.254	1.13	3.6	67
W593136		93.7	<0.002	0.02	4.04	9.9	<1	1.7	363	0.68	<0.05	10.60	0.265	1.16	4.5	72
W593137		110.5	<0.002	0.24	12.25	9.7	<1	1.6	168.5	0.67	<0.05	12.55	0.244	1.92	5.6	65
W593138		150.5	0.003	8.29	112.0	8.8	<1	11.8	63.8	0.37	0.69	9.15	0.171	2.30	5.8	61
W593139		128.5	<0.002	0.14	7.49	9.3	<1	2.2	242	0.61	<0.05	11.05	0.239	1.66	5.1	78
W593140		116.5	<0.002	0.05	3.96	10.1	<1	2.1	350	0.61	<0.05	12.90	0.256	1.21	4.2	69
W593141		97.2	<0.002	0.01	2.17	9.9	<1	2.3	426	0.63	<0.05	11.45	0.269	1.14	4.0	74
W593142		117.0	<0.002	0.02	4.13	10.6	<1	2.5	359	0.62	<0.05	12.45	0.258	1.18	3.9	72
W593143		96.5	0.002	0.01	1.41	9.8	<1	2.4	383	0.61	<0.05	10.50	0.260	1.09	4.1	72
W593144		101.0	<0.002	0.01	1.77	10.1	<1	2.1	423	0.65	<0.05	11.00	0.266	1.12	4.0	73
W593145		112.0	<0.002	0.02	2.77	10.1	<1	1.9	365	0.59	<0.05	12.25	0.255	1.19	4.5	70
W593146		123.5	<0.002	0.04	3.55	10.9	<1	2.0	341	0.65	<0.05	12.40	0.265	1.37	4.2	73
W593147		102.5	<0.002	0.01	1.56	9.8	<1	1.8	375	0.60	<0.05	11.10	0.250	1.07	3.2	67
W593148		126.5	<0.002	0.04	2.41	9.8	<1	1.7	222	0.60	<0.05	12.35	0.247	1.43	6.0	68
W593149		115.0	<0.002	0.03	9.76	10.3	<1	1.9	264	0.65	<0.05	12.70	0.259	1.29	3.9	71
W593150		116.5	<0.002	0.01	2.02	10.2	<1	1.8	380	0.76	<0.05	14.50	0.252	1.17	4.5	69
W594251		114.5	<0.002	0.04	6.10	7.8	<1	1.6	213	0.70	<0.05	15.00	0.201	1.46	5.1	57
W594252		98.2	<0.002	0.01	6.29	10.4	<1	1.8	364	0.65	<0.05	12.05	0.261	1.06	3.9	72
W594253		99.4	<0.002	0.02	12.15	9.7	<1	1.7	255	0.66	<0.05	11.50	0.266	1.24	3.5	74

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255791

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593114		2.2	12.6	69	156.5	<0.005
W593115		1.5	14.5	71	42.6	0.040
W593116		2.7	14.3	47	37.3	<0.005
W593117		5.4	14.0	8120	27.8	1.615
W593118		3.0	15.3	53	44.0	<0.005
W593119		4.4	16.1	51	44.6	0.029
W593120		5.2	18.2	59	45.5	<0.005
W593121		2.5	15.1	46	48.1	<0.005
W593122		2.9	17.1	47	49.6	<0.005
W593123		4.7	14.7	53	44.8	0.019
W593124		2.7	12.5	50	40.9	<0.005
W593125		0.1	2.0	4	1.3	<0.005
W593126		2.0	16.1	49	40.5	<0.005
W593127		2.1	15.1	44	40.7	<0.005
W593128		3.9	15.0	47	42.9	<0.005
W593129		6.1	14.5	49	45.1	<0.005
W593130		2.8	15.9	53	45.6	<0.005
W593131		2.3	12.9	46	21.6	0.012
W593132		3.7	15.7	77	42.4	<0.005
W593133		2.8	15.0	77	44.3	<0.005
W593134		1.5	14.8	52	41.4	<0.005
W593135		2.3	15.1	47	42.7	<0.005
W593136		1.8	15.1	51	43.1	<0.005
W593137		2.5	16.2	43	42.4	<0.005
W593138		8.0	9.9	3500	24.4	1.685
W593139		2.3	15.5	38	40.9	<0.005
W593140		1.9	15.7	42	47.3	<0.005
W593141		1.8	15.0	54	34.0	<0.005
W593142		1.8	15.9	51	38.1	0.006
W593143		1.6	14.7	53	35.8	<0.005
W593144		1.8	15.3	54	37.2	<0.005
W593145		2.2	17.9	50	36.4	0.010
W593146		2.4	15.3	49	40.0	<0.005
W593147		1.9	14.5	47	36.6	<0.005
W593148		3.9	15.1	43	34.2	<0.005
W593149		3.7	16.9	49	37.2	<0.005
W593150		2.4	17.7	49	42.9	<0.005
W594251		1.9	13.1	40	38.6	<0.005
W594252		1.3	15.9	55	38.7	<0.005
W594253		3.3	15.4	54	38.0	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255791

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255793

Project: Klaza

P.O. No.: 19-092

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255793

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593024		2.90	2.07	7.21	22.2	2050	1.61	0.47	3.31	0.27	44.4	6.2	9	15.80	112.5	3.12
W593025		6.40	0.74	7.55	27.9	1160	1.59	3.30	2.61	0.18	48.4	10.9	10	17.40	14.9	3.08
W593026		0.13	32.4	7.53	144.5	110	0.58	10.10	6.23	33.7	27.9	93.8	125	1.78	6950	9.84
W593027		3.27	3.23	5.83	52.0	1250	1.18	5.33	1.77	0.40	32.6	10.6	9	16.90	556	2.73
W593028		3.32	0.60	7.64	20.9	1260	1.46	1.64	2.42	0.09	54.3	7.9	10	17.10	9.4	2.66
W593029		2.63	0.13	7.10	23.5	2700	1.40	0.12	2.39	0.15	49.0	7.8	10	15.65	9.2	2.92
W593030		2.72	0.10	7.49	8.9	2090	1.55	0.16	2.56	0.08	47.1	7.3	12	11.25	8.4	3.20
W593031		3.43	0.31	7.22	8.9	3920	1.55	0.45	2.72	0.11	47.3	6.7	15	12.35	50.1	3.00
W593032		<0.02	0.23	6.62	5.4	3720	1.49	0.41	2.54	0.09	41.8	6.2	11	11.45	40.5	2.80
W593033		6.18	0.29	6.66	6.9	2470	1.35	0.88	2.59	0.06	43.2	5.9	12	12.25	27.8	2.61
W593034		5.00	0.17	7.04	11.7	2470	1.52	0.24	2.56	0.09	44.4	7.6	11	14.30	37.3	3.34
W593035		3.21	0.07	6.28	3.6	2670	1.99	0.26	2.14	0.08	42.6	2.0	6	18.15	4.1	1.35
W593036		2.37	0.17	6.89	6.5	3230	1.87	1.22	1.76	0.14	33.6	5.1	6	27.9	19.8	1.95
W593037		4.32	0.17	7.43	6.4	1700	1.56	0.86	2.99	0.14	41.0	7.7	12	15.30	18.4	3.02
W593038		7.76	0.12	7.56	6.5	2340	1.62	0.48	2.77	0.11	42.7	8.6	11	27.4	12.0	3.16
W593039		6.18	0.10	7.58	5.4	2390	1.56	0.76	2.80	0.12	44.0	8.2	11	27.9	14.8	3.10
W593040		1.94	0.09	7.61	7.2	2030	1.69	0.25	2.22	0.12	41.1	6.6	8	23.8	25.4	2.96
W593041		2.96	0.11	6.99	10.4	1240	1.21	0.28	4.23	0.12	48.5	8.6	7	12.50	20.8	2.84
W593042		5.13	<0.01	0.08	<0.2	30	0.05	0.01	35.9	0.02	1.08	0.4	3	0.10	1.4	0.13
W593043		2.96	0.09	7.21	8.8	940	1.37	0.24	4.03	0.11	48.1	8.5	10	12.95	12.7	2.94
W593044		2.63	0.17	7.36	10.1	2200	1.36	0.29	2.08	0.12	39.2	6.9	9	23.6	15.3	2.92
W593045		8.61	0.12	7.67	6.5	2220	1.50	0.31	2.46	0.10	45.6	7.1	10	18.30	14.0	2.95
W593046		3.99	0.12	7.33	8.9	2380	1.57	1.10	3.17	0.10	37.8	7.5	10	11.75	7.5	3.06
W593047		5.17	0.13	7.45	10.1	2240	1.56	0.42	2.49	0.13	40.9	11.4	12	10.75	9.4	3.17
W593048		0.26	43.0	5.96	2860	40	1.22	38.5	1.80	48.6	31.7	16.6	23	9.73	1260	9.70
W593049		1.32	0.23	7.78	16.7	2150	1.76	1.82	3.19	0.17	42.4	11.2	12	18.25	4.6	3.47
W593050		4.18	0.10	7.51	8.6	2110	1.55	0.37	2.81	0.14	42.5	7.4	11	8.85	9.3	2.96
W593101		2.41	0.15	8.19	12.8	2090	1.72	1.71	3.76	0.16	48.0	8.9	9	9.65	9.3	4.03
W593102		6.06	0.15	8.20	7.4	2430	1.69	0.16	2.61	0.16	53.3	7.2	14	7.37	21.8	3.06
W593103		3.35	0.12	7.89	8.1	2200	1.47	0.20	2.04	0.11	44.8	6.6	11	11.40	21.4	2.96
W593104		1.65	0.18	7.84	9.5	2100	1.30	0.15	2.11	0.13	46.1	6.6	11	11.35	22.2	2.99
W593105		3.43	0.21	7.20	8.3	2030	1.61	0.31	2.67	0.12	42.3	8.4	12	11.55	8.8	3.03
W593106		1.43	0.07	8.20	11.5	1710	1.88	0.11	5.44	0.13	68.2	9.8	47	82.6	21.6	3.82
W593107		4.01	0.10	7.53	5.2	2260	1.55	0.14	2.84	0.11	44.9	7.3	13	12.45	15.6	2.86
W593108		6.09	0.08	7.29	6.8	2050	1.17	0.13	1.86	0.14	36.5	6.7	10	18.35	5.5	2.86
W593109		1.77	2.13	6.76	290	740	1.28	0.28	3.90	0.42	48.8	6.1	12	16.65	29.6	3.60
W593110		3.62	0.37	7.08	37.7	4250	1.62	0.18	3.35	0.50	48.2	7.0	9	14.95	11.1	3.35
W593111		4.11	0.13	7.84	8.4	2350	1.43	0.14	2.54	0.12	42.5	6.9	11	14.05	7.7	3.08
W593112		4.15	0.12	7.64	7.6	2510	1.65	0.21	2.99	0.10	44.3	6.9	11	14.10	15.0	3.10
W593113		2.75	0.31	6.94	27.0	2420	1.49	0.80	3.36	0.12	40.8	21.4	8	13.20	4.3	3.34

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255793

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593024		14.65	0.17	1.3	0.047	3.23	23.9	38.9	1.07	1580	0.43	0.29	6.8	2.2	550	8.2
W593025		15.70	0.20	1.4	0.090	3.62	27.4	28.2	1.00	1480	1.05	0.04	7.4	2.4	570	15.2
W593026		12.05	0.15	0.9	2.56	1.09	16.5	8.5	2.36	921	63.5	0.86	2.7	383	700	8770
W593027		13.05	0.14	1.0	0.117	2.74	18.0	27.8	0.74	1300	2.34	0.03	4.9	2.0	390	39.6
W593028		14.55	0.21	1.6	0.085	3.81	31.7	15.3	0.89	1720	1.25	0.04	7.1	2.0	580	16.2
W593029		14.35	0.13	1.3	0.040	3.82	26.6	42.0	0.82	1570	0.85	0.19	7.2	3.3	550	10.9
W593030		16.35	0.14	1.4	0.047	3.28	23.5	9.8	0.78	945	0.59	2.03	8.4	2.6	600	16.1
W593031		15.60	0.12	1.4	0.042	3.13	24.4	10.1	0.74	1040	0.44	1.79	7.7	2.4	530	23.9
W593032		14.45	0.13	1.3	0.043	2.93	21.4	9.4	0.69	964	0.42	1.69	7.2	2.3	520	13.4
W593033		14.35	0.13	1.1	0.030	2.90	23.2	14.7	0.73	837	1.66	1.02	6.8	2.2	540	10.6
W593034		16.25	0.13	1.3	0.093	3.45	21.2	33.0	0.71	1280	0.85	0.75	8.2	2.4	630	12.5
W593035		14.60	0.09	2.0	0.013	2.13	21.2	102.0	0.68	526	1.93	0.02	9.9	1.0	220	23.0
W593036		16.15	0.11	2.1	0.055	2.29	15.0	82.3	0.43	583	3.01	0.06	10.0	1.5	380	18.1
W593037		16.95	0.12	1.4	0.051	2.84	20.0	68.1	0.94	848	1.26	0.09	8.0	2.4	620	18.9
W593038		17.20	0.14	1.5	0.052	2.86	20.9	29.7	0.71	776	1.50	2.00	8.3	2.7	640	19.0
W593039		17.40	0.12	1.5	0.045	3.05	22.4	34.9	0.69	721	1.16	1.74	8.3	2.5	600	18.0
W593040		17.45	0.15	1.5	0.050	3.22	19.2	187.0	0.67	713	2.14	0.12	8.6	2.3	640	17.0
W593041		14.80	0.14	1.3	0.052	1.70	25.1	141.5	1.00	1200	0.88	0.03	7.3	2.1	600	17.4
W593042		0.31	0.19	<0.1	<0.005	0.02	1.2	1.7	2.27	142	0.05	0.03	0.2	0.4	80	0.5
W593043		15.00	0.19	1.3	0.047	2.46	25.5	112.0	1.34	1040	0.70	0.05	7.2	2.8	560	17.7
W593044		16.90	0.18	1.4	0.049	2.85	18.8	86.8	0.63	873	1.20	0.11	8.3	2.2	620	16.8
W593045		17.10	0.13	1.5	0.047	2.92	22.7	20.4	0.67	703	1.05	1.83	8.3	2.4	600	17.9
W593046		15.80	0.12	1.4	0.093	2.78	18.5	14.7	0.61	776	0.96	2.00	7.8	2.2	620	18.3
W593047		16.80	0.13	1.4	0.076	3.08	19.6	12.3	0.74	763	1.01	2.03	8.0	2.6	610	19.6
W593048		14.75	0.10	0.8	1.635	2.77	15.6	15.9	0.72	2460	18.90	0.07	4.8	15.2	480	1740
W593049		18.40	0.12	1.3	0.144	2.47	21.2	22.8	0.69	730	0.62	2.13	8.2	2.2	610	21.4
W593050		16.65	0.14	1.5	0.072	2.55	20.7	16.7	0.80	811	0.77	2.49	8.1	2.5	600	18.7
W593101		20.4	0.13	1.6	0.159	2.29	22.9	14.2	1.02	1210	0.67	2.64	8.7	2.6	720	22.4
W593102		17.25	0.14	1.5	0.053	3.02	27.9	12.1	0.87	702	0.90	2.60	8.3	2.4	610	22.2
W593103		16.55	0.15	1.3	0.048	3.03	22.2	22.9	0.61	912	0.88	1.41	8.2	2.3	620	18.7
W593104		16.10	0.11	1.3	0.037	2.98	23.1	23.0	0.66	946	0.81	1.42	8.0	2.3	600	29.5
W593105		15.85	0.13	1.5	0.060	2.76	20.2	16.9	0.83	760	0.73	2.19	8.2	2.8	630	18.7
W593106		20.2	0.18	4.6	0.046	2.15	32.0	17.4	0.79	746	1.90	2.01	11.5	15.7	1920	16.5
W593107		16.25	0.12	1.4	0.039	2.94	22.3	16.5	0.71	727	1.02	2.16	8.0	2.7	610	19.0
W593108		16.60	0.11	1.3	0.043	2.77	17.6	37.0	0.56	847	0.63	0.31	7.9	2.3	600	16.2
W593109		14.75	0.13	1.2	0.097	3.19	27.1	41.8	1.16	6040	0.90	0.05	6.5	2.2	510	66.3
W593110		15.70	0.15	1.3	0.066	4.07	25.7	22.8	1.09	2910	0.57	0.08	6.9	2.6	550	25.5
W593111		16.30	0.13	1.5	0.047	3.09	20.6	19.5	0.68	1020	0.73	1.98	8.3	2.4	630	17.1
W593112		16.90	0.15	1.2	0.059	2.85	21.3	14.3	0.79	648	0.55	2.43	7.9	2.4	640	16.7
W593113		15.45	0.12	1.2	0.089	2.67	20.5	15.0	0.64	963	1.32	1.65	7.6	2.3	550	20.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255793

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593024		148.0	<0.002	0.29	68.8	9.9	<1	2.2	140.0	0.56	<0.05	11.95	0.236	2.02	3.7	67
W593025		189.0	<0.002	0.46	35.6	10.6	<1	1.8	103.0	0.62	<0.05	14.00	0.247	2.59	5.2	67
W593026		40.8	0.015	6.67	34.1	13.3	12	7.3	150.5	0.21	0.67	3.32	0.211	2.45	5.4	415
W593027		157.5	<0.002	0.71	77.5	7.5	<1	1.6	113.0	0.42	0.12	10.10	0.169	2.08	2.9	59
W593028		219	<0.002	0.57	12.15	10.0	<1	1.8	73.8	0.63	<0.05	16.15	0.235	2.79	3.4	65
W593029		184.5	<0.002	0.61	11.95	9.1	<1	1.9	165.0	0.60	<0.05	12.25	0.234	2.51	3.6	63
W593030		128.0	<0.002	0.11	4.18	10.5	<1	1.7	279	0.70	<0.05	11.55	0.264	1.70	4.1	72
W593031		141.0	<0.002	0.15	7.37	9.1	<1	1.5	287	0.63	<0.05	12.05	0.234	1.81	5.0	63
W593032		122.0	<0.002	0.14	6.20	8.5	<1	1.4	273	0.58	<0.05	10.30	0.225	1.71	4.5	59
W593033		140.5	<0.002	0.12	6.72	8.8	<1	1.5	203	0.52	<0.05	11.30	0.221	1.88	3.1	62
W593034		146.0	<0.002	0.22	7.40	10.1	<1	1.7	241	0.59	<0.05	10.35	0.269	2.20	3.6	74
W593035		70.7	<0.002	0.07	3.82	2.7	<1	1.4	338	0.92	<0.05	10.30	0.102	1.13	3.9	16
W593036		80.8	<0.002	0.06	14.40	6.0	<1	3.2	267	0.95	<0.05	10.10	0.176	1.26	6.3	43
W593037		82.7	<0.002	0.02	13.20	10.0	<1	2.0	242	0.63	<0.05	10.15	0.266	1.51	3.3	71
W593038		105.5	<0.002	0.01	4.37	10.3	<1	2.2	390	0.61	<0.05	9.98	0.281	1.42	2.9	79
W593039		115.5	<0.002	0.02	7.15	10.2	<1	2.1	342	0.64	<0.05	10.70	0.265	1.56	2.8	71
W593040		110.0	<0.002	0.02	19.25	10.1	<1	2.1	200	0.67	<0.05	10.65	0.274	1.75	2.2	72
W593041		61.4	<0.002	0.05	27.9	9.7	<1	2.0	319	0.55	<0.05	10.95	0.250	1.06	5.7	62
W593042		0.6	<0.002	<0.01	0.13	0.2	<1	<0.2	80.5	<0.05	<0.05	0.10	0.006	0.02	0.1	1
W593043		88.6	<0.002	0.10	14.75	8.9	<1	1.9	256	0.59	<0.05	11.25	0.240	1.51	3.7	62
W593044		100.0	<0.002	0.12	21.1	10.0	<1	2.0	159.5	0.66	<0.05	11.05	0.264	1.72	3.4	70
W593045		108.5	<0.002	0.01	4.85	10.2	<1	1.9	313	0.65	<0.05	11.95	0.264	1.39	3.3	69
W593046		95.7	<0.002	0.05	5.14	10.0	<1	3.2	324	0.62	<0.05	10.95	0.273	1.42	4.1	72
W593047		113.0	<0.002	0.09	3.14	9.7	<1	2.1	318	0.62	<0.05	10.05	0.265	1.43	3.0	72
W593048		142.5	0.003	8.30	111.5	8.1	1	11.8	62.7	0.38	0.86	7.56	0.174	2.35	5.1	60
W593049		93.4	<0.002	0.38	7.91	9.8	<1	3.6	251	0.63	0.07	11.15	0.267	1.19	3.1	72
W593050		83.7	<0.002	0.04	3.83	9.8	<1	2.6	339	0.65	<0.05	10.60	0.262	1.14	3.1	68
W593101		88.9	<0.002	0.05	8.80	12.0	<1	3.0	385	0.70	<0.05	11.65	0.312	1.22	4.2	93
W593102		116.5	<0.002	0.02	1.78	10.1	<1	1.9	429	0.67	<0.05	13.35	0.264	1.25	4.2	70
W593103		110.5	<0.002	0.04	11.65	10.3	<1	2.0	209	0.64	<0.05	11.30	0.273	1.35	3.6	72
W593104		109.0	<0.002	0.03	11.15	9.7	<1	2.5	214	0.63	<0.05	11.90	0.262	1.36	3.9	70
W593105		99.1	<0.002	0.10	3.10	10.0	<1	2.0	313	0.66	0.11	10.40	0.266	1.22	3.8	72
W593106		59.5	<0.002	0.02	4.14	9.1	<1	1.7	1070	0.67	<0.05	7.27	0.502	0.88	5.9	100
W593107		110.5	<0.002	0.02	1.82	9.6	<1	1.9	364	0.64	<0.05	11.15	0.254	1.28	3.1	68
W593108		94.9	<0.002	0.02	26.5	9.7	<1	1.8	123.5	0.60	<0.05	10.05	0.256	1.35	3.2	69
W593109		167.5	<0.002	1.30	26.2	9.0	<1	1.9	129.5	0.50	<0.05	11.60	0.221	2.38	6.0	59
W593110		181.0	<0.002	0.67	15.80	9.6	<1	1.8	146.5	0.53	<0.05	10.95	0.230	2.84	4.4	68
W593111		106.5	<0.002	0.08	5.31	9.9	<1	1.7	333	0.69	<0.05	10.70	0.276	1.41	3.0	72
W593112		112.0	<0.002	0.04	2.86	10.4	<1	1.8	381	0.60	<0.05	10.75	0.270	1.36	4.9	74
W593113		112.5	<0.002	0.42	5.51	9.2	<1	2.0	274	0.62	0.05	11.50	0.244	1.57	4.9	65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255793

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593024		2.0	12.7	65	34.2	<0.005
W593025		4.5	14.1	62	38.3	0.013
W593026		6.8	13.6	8170	28.9	1.575
W593027		8.5	7.7	65	27.4	0.030
W593028		5.6	14.3	32	37.8	0.007
W593029		3.0	11.9	49	39.2	<0.005
W593030		3.2	14.7	56	41.9	<0.005
W593031		5.0	12.6	60	42.8	<0.005
W593032		4.2	11.1	53	38.0	<0.005
W593033		1.0	11.1	46	32.0	<0.005
W593034		5.0	12.0	56	36.9	<0.005
W593035		1.5	10.9	44	60.2	<0.005
W593036		2.6	11.8	51	59.2	<0.005
W593037		2.2	16.0	64	43.3	<0.005
W593038		2.8	14.8	65	46.3	<0.005
W593039		1.6	15.1	64	44.8	<0.005
W593040		1.9	14.4	61	45.8	<0.005
W593041		3.2	17.6	50	41.6	<0.005
W593042		<0.1	2.1	4	1.4	<0.005
W593043		2.4	16.4	64	40.8	<0.005
W593044		3.4	13.6	60	46.1	<0.005
W593045		1.8	16.0	60	45.7	<0.005
W593046		1.9	15.5	56	44.7	<0.005
W593047		3.6	14.2	56	44.0	<0.005
W593048		7.8	8.8	3590	22.8	1.700
W593049		4.9	14.4	57	43.9	0.005
W593050		1.2	16.0	64	45.9	<0.005
W593101		3.0	18.3	70	47.0	<0.005
W593102		2.0	17.1	59	46.7	<0.005
W593103		1.9	15.7	59	39.2	<0.005
W593104		1.9	16.2	61	41.0	<0.005
W593105		2.3	15.9	59	46.1	<0.005
W593106		0.9	15.4	122	201	<0.005
W593107		2.5	14.8	58	44.8	<0.005
W593108		4.5	13.4	61	42.7	<0.005
W593109		5.6	17.1	83	39.6	0.152
W593110		5.2	19.6	96	40.1	0.013
W593111		1.4	15.4	61	43.5	<0.005
W593112		1.5	17.2	55	34.2	<0.005
W593113		2.1	14.8	48	35.2	0.009

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255793

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255794

Project: Klaza

P.O. No.: 19-089

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255794

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W593984		1.48	0.12	7.74	7.1	3110	1.82	0.25	2.69	0.26	42.4	8.9	11	14.50	8.9	3.12
W593985		1.06	0.57	7.31	91.3	1890	1.47	0.20	3.07	1.15	44.8	6.2	9	18.50	9.7	3.38
W593986		7.72	0.08	7.74	7.3	2410	1.62	0.22	2.54	0.14	45.4	8.7	12	18.40	13.6	3.11
W593987		1.58	0.08	7.38	8.3	2770	1.60	0.26	2.04	0.11	37.4	9.1	9	16.60	6.4	3.00
W593988		1.84	0.14	7.43	18.9	2100	1.72	0.32	1.94	0.18	41.0	10.3	11	20.9	12.3	2.97
W593989		2.28	0.32	6.97	49.1	1900	1.30	0.20	3.55	0.41	40.3	8.8	10	13.75	13.3	2.99
W593990		3.35	0.06	7.54	5.7	2320	1.75	0.11	2.94	0.13	40.3	8.0	12	19.85	13.0	3.13
W593991		3.97	0.07	7.53	10.9	1870	1.87	0.12	2.32	0.18	40.7	7.3	10	28.8	11.0	3.02
W593992		3.97	0.08	7.78	9.2	2400	1.87	0.20	2.52	0.15	45.9	7.3	10	34.4	12.3	3.03
W593993		2.95	0.06	7.66	4.8	2330	1.87	0.11	2.78	0.09	44.0	9.4	12	17.35	19.0	2.88
W593994		0.26	32.5	6.82	149.0	160	0.61	10.15	6.24	33.9	25.1	97.8	117	1.56	6840	9.92
W593995		1.04	0.09	6.97	9.9	2210	1.70	0.24	2.97	0.14	37.5	6.9	9	13.70	13.3	2.72
W593996		1.23	0.89	6.26	123.5	1250	1.70	0.24	2.97	0.16	45.3	10.2	8	18.00	18.0	2.96
W593997		1.89	0.29	7.36	21.1	1440	1.72	0.11	2.29	0.37	37.6	9.0	8	24.7	14.6	2.44
W593998		4.52	0.08	8.27	6.4	2390	1.78	0.24	1.96	0.12	48.8	9.4	10	25.8	13.7	3.27
W593999		2.47	0.52	6.96	27.0	1600	1.52	0.17	1.88	0.23	42.3	6.5	9	18.15	9.3	2.31
W594000		1.30	1.62	7.20	124.5	1960	1.61	0.25	2.85	2.07	38.3	7.3	8	16.00	35.4	3.05
W593001		<0.02	1.70	6.99	127.0	1980	1.70	0.21	2.87	2.13	35.4	6.6	9	15.55	34.8	3.07
W593002		6.05	0.12	7.52	4.8	2410	1.69	0.15	2.89	0.10	39.2	8.0	16	12.75	36.7	3.06
W593003		4.94	0.52	7.30	53.8	1090	1.62	1.10	2.90	0.19	39.5	10.1	12	12.45	30.0	4.14
W593004		5.18	0.19	7.70	21.3	2500	1.51	0.18	2.34	0.11	36.5	7.4	10	18.50	16.7	2.98
W593005		2.29	0.61	5.72	91.5	1520	1.45	0.19	7.32	0.27	46.1	7.8	6	11.70	11.3	3.59
W593006		6.96	0.14	7.54	10.7	2060	1.78	0.16	2.57	0.11	43.7	7.6	13	15.15	16.5	2.87
W593007		5.07	0.11	6.83	5.2	2050	1.74	0.22	3.30	0.07	40.3	7.9	10	15.25	20.0	2.73
W593008		3.99	0.27	7.31	31.2	2620	1.63	0.54	3.33	0.10	43.7	10.0	9	12.75	29.6	3.07
W593009		8.58	0.09	7.41	9.3	2580	1.62	0.28	2.45	0.09	43.8	7.7	12	10.25	17.3	2.91
W593010		2.29	0.47	8.62	124.0	1530	2.11	1.08	4.56	0.10	40.4	13.4	8	20.8	8.0	4.44
W593011		5.05	0.01	0.12	<0.2	20	0.07	0.02	34.7	0.02	1.20	0.7	2	0.08	1.9	0.13
W593012		3.64	0.08	7.21	3.3	2250	1.69	0.32	3.36	0.15	38.2	6.5	10	12.90	13.3	2.98
W593013		2.53	0.20	6.72	7.6	2330	1.58	0.74	2.91	0.14	36.6	8.4	11	8.37	27.4	3.00
W593014		2.09	0.33	6.77	11.6	3790	1.55	1.42	3.17	0.23	41.9	8.0	9	11.55	22.6	3.25
W593015		4.94	0.19	7.30	7.5	1600	1.76	0.52	2.82	0.07	45.8	8.0	11	14.40	7.8	3.44
W593016		5.39	0.18	8.16	4.5	2460	1.76	0.16	2.67	0.15	48.9	7.9	16	8.87	91.4	3.21
W593017		6.26	0.09	7.18	6.8	2260	1.94	0.17	2.96	0.08	39.9	7.0	20	10.75	20.5	2.77
W593018		3.69	0.14	7.07	3.6	2150	1.79	0.68	2.51	0.05	39.4	4.8	11	9.96	20.3	3.11
W593019		0.26	38.8	5.79	2580	740	1.32	37.6	1.71	45.9	36.9	17.6	21	10.25	1170	9.14
W593020		4.28	0.24	6.99	10.7	2290	1.64	0.94	3.20	0.08	40.5	8.1	10	17.75	27.8	2.86
W593021		5.96	0.06	6.77	4.5	1990	1.63	0.11	2.88	0.05	35.4	6.0	10	12.00	9.5	2.67
W593022		3.25	0.70	7.03	54.4	1590	1.59	1.41	3.29	0.65	42.6	12.2	8	16.25	28.2	3.51
W593023		3.93	0.07	7.29	7.0	2320	1.66	0.19	2.80	0.04	42.9	7.8	11	11.70	8.2	3.02

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255794

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W593984		17.05	0.12	1.5	0.048	3.22	20.8	14.0	0.71	972	0.61	2.36	8.9	2.5	620	19.6
W593985		14.10	0.12	1.2	0.041	4.11	23.9	52.2	0.96	5210	0.47	0.33	6.7	2.1	570	52.2
W593986		16.30	0.15	1.3	0.044	3.16	24.5	21.2	0.79	742	0.63	2.25	7.9	2.3	620	20.7
W593987		14.70	0.11	1.1	0.058	3.27	19.4	54.0	0.59	1060	0.23	1.91	7.0	1.9	590	10.5
W593988		16.30	0.12	1.2	0.051	3.56	21.0	57.7	0.57	1180	0.27	1.67	7.7	2.1	570	12.9
W593989		15.30	0.12	1.3	0.044	3.42	20.0	69.5	1.02	2830	0.51	0.37	7.4	2.4	580	20.8
W593990		16.50	0.13	1.4	0.038	3.07	20.0	15.4	0.78	819	0.74	2.36	8.2	2.4	650	19.5
W593991		16.80	0.11	1.3	0.040	3.18	20.0	207	0.65	1100	0.64	1.23	8.2	2.3	620	18.4
W593992		16.80	0.13	1.5	0.041	3.24	23.3	201	0.75	893	0.52	1.13	8.3	2.3	640	18.4
W593993		17.35	0.12	1.5	0.033	3.16	22.5	22.7	0.70	723	0.69	2.33	8.2	2.4	590	20.7
W593994		12.10	0.11	0.8	2.52	1.05	13.4	9.4	2.23	917	56.4	0.87	2.9	380	710	8650
W593995		15.40	0.10	1.3	0.043	3.38	19.2	70.8	0.92	1110	0.32	0.88	7.8	2.1	580	17.4
W593996		13.55	0.14	1.1	0.036	2.90	25.4	79.5	0.92	3020	0.61	0.04	6.4	2.5	450	21.5
W593997		15.90	0.11	1.4	0.037	3.23	18.4	209	0.68	1700	0.93	0.22	7.5	2.5	600	26.1
W593998		17.35	0.14	1.3	0.049	3.52	24.9	43.5	0.73	890	0.56	1.42	8.5	2.3	670	19.8
W593999		15.40	0.12	1.2	0.037	3.10	22.1	161.0	0.63	1440	0.53	0.30	7.4	2.1	540	18.2
W594000		15.75	0.12	1.1	0.055	3.66	19.0	21.8	0.82	3350	1.85	0.80	7.4	2.2	570	60.1
W593001		15.95	0.12	1.0	0.050	3.51	17.5	22.1	0.80	3230	1.38	0.87	7.5	2.3	560	57.3
W593002		16.85	0.14	1.2	0.050	3.03	19.5	11.4	0.78	734	1.19	2.37	8.3	2.6	630	17.9
W593003		16.45	0.14	1.2	0.054	2.91	20.0	16.8	0.92	1170	1.36	1.77	7.5	2.8	640	42.3
W593004		17.75	0.13	1.3	0.045	3.26	17.5	34.6	0.69	888	1.08	0.80	8.6	2.3	660	19.4
W593005		12.15	0.11	1.1	0.040	2.24	25.4	35.2	2.70	3380	2.36	0.04	6.5	5.3	410	25.8
W593006		17.40	0.12	1.5	0.037	3.12	22.4	19.9	0.69	745	2.16	1.86	8.9	3.2	590	20.3
W593007		15.75	0.15	1.3	0.038	2.77	20.4	15.4	0.61	802	2.19	1.64	8.1	2.3	580	13.6
W593008		16.15	0.11	1.3	0.052	3.37	21.8	23.9	0.99	1420	1.91	0.13	8.0	2.5	560	9.2
W593009		17.05	0.13	1.4	0.046	3.15	22.3	19.1	0.62	802	0.88	1.76	8.7	2.3	610	11.2
W593010		28.2	0.15	1.3	0.075	4.05	19.3	12.6	1.27	1560	2.48	1.71	9.6	3.3	690	15.5
W593011		0.39	0.14	0.1	<0.005	0.04	1.4	1.1	1.85	134	0.05	0.05	0.2	0.6	80	0.6
W593012		20.0	0.16	1.3	0.053	3.18	17.7	9.7	0.61	935	0.78	2.10	8.6	2.3	590	10.2
W593013		16.85	0.13	1.1	0.052	2.87	18.2	12.2	0.66	897	0.69	2.14	7.9	2.3	560	11.7
W593014		16.05	0.12	1.2	0.066	3.02	21.6	16.0	0.95	2450	19.05	0.63	7.5	2.1	500	10.5
W593015		15.40	0.12	1.2	0.086	3.71	24.2	20.5	0.93	1380	0.62	0.11	8.2	2.4	620	7.7
W593016		17.35	0.14	1.2	0.047	3.16	25.7	15.1	0.85	898	1.09	2.40	8.5	2.5	620	20.6
W593017		15.95	0.14	1.7	0.042	3.01	19.2	16.3	0.73	865	1.11	2.08	8.4	5.1	720	14.4
W593018		16.40	0.13	1.3	0.089	3.32	19.4	16.1	0.55	919	0.98	1.53	8.0	2.6	570	13.7
W593019		14.30	0.10	0.9	1.540	2.68	19.4	17.5	0.68	2310	17.25	0.06	5.0	14.8	450	1610
W593020		15.85	0.11	1.4	0.031	3.37	20.0	33.2	0.68	1110	0.71	0.65	7.8	2.3	570	9.6
W593021		14.80	0.13	1.3	0.029	2.99	16.7	24.5	0.56	946	0.64	1.68	7.5	2.1	550	12.8
W593022		16.40	0.14	1.5	0.053	3.90	20.7	17.1	0.70	3390	1.23	0.04	8.5	3.0	590	43.7
W593023		16.35	0.14	1.4	0.040	3.36	21.6	17.1	0.65	1100	1.96	1.52	8.4	2.3	600	10.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255794

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W593984		116.0	<0.002	0.05	3.61	11.7	<1	1.9	365	0.70	<0.05	11.70	0.278	1.52	4.5	75
W593985		166.5	<0.002	0.82	16.55	9.6	1	1.7	167.5	0.54	<0.05	11.75	0.237	2.54	5.3	65
W593986		122.5	<0.002	0.05	4.33	11.0	1	2.1	349	0.63	<0.05	12.70	0.264	1.44	3.7	71
W593987		119.5	<0.002	0.17	7.51	9.6	<1	1.8	230	0.56	<0.05	11.65	0.249	1.64	3.4	68
W593988		149.0	<0.002	0.38	9.42	10.2	<1	2.3	207	0.61	<0.05	12.70	0.248	2.08	3.6	66
W593989		99.9	<0.002	0.61	16.20	9.5	<1	1.9	189.0	0.62	<0.05	12.00	0.248	2.19	4.5	66
W593990		100.0	<0.002	0.02	2.73	10.4	<1	2.1	402	0.65	<0.05	13.10	0.274	1.27	3.7	74
W593991		113.0	<0.002	0.07	20.3	10.4	<1	2.0	295	0.66	<0.05	12.15	0.269	1.65	3.8	72
W593992		126.0	<0.002	0.06	18.55	11.0	1	2.2	285	0.67	<0.05	13.60	0.269	1.72	3.7	73
W593993		114.5	<0.002	0.01	3.52	10.3	<1	2.6	379	0.69	<0.05	12.15	0.255	1.41	3.4	69
W593994		20.9	0.020	6.56	33.0	12.2	14	6.8	160.0	0.22	0.59	3.08	0.209	2.43	5.3	409
W593995		109.0	<0.002	0.12	12.30	9.5	1	1.8	216	0.64	<0.05	11.20	0.250	1.98	4.7	66
W593996		136.5	<0.002	1.33	28.4	8.9	1	2.8	149.5	0.54	<0.05	12.90	0.205	2.21	9.1	55
W593997		113.5	<0.002	0.26	25.9	9.7	<1	2.3	198.0	0.67	<0.05	11.05	0.263	2.01	6.2	70
W593998		146.5	<0.002	0.15	7.65	11.2	1	2.3	224	0.69	<0.05	14.25	0.278	1.78	2.9	74
W593999		122.0	<0.002	0.28	33.8	9.4	<1	1.8	186.5	0.64	<0.05	12.70	0.236	1.97	5.3	62
W594000		145.5	<0.002	0.95	28.7	10.2	1	2.0	182.5	0.55	<0.05	9.23	0.245	2.42	5.6	65
W593001		135.5	<0.002	0.87	27.9	9.8	<1	2.0	193.5	0.54	<0.05	8.11	0.242	2.32	5.3	64
W593002		107.5	<0.002	0.02	2.70	10.2	<1	2.0	379	0.67	<0.05	10.40	0.269	1.41	3.4	73
W593003		122.5	<0.002	1.79	6.07	10.9	1	3.7	311	0.60	0.14	11.40	0.252	1.43	4.2	74
W593004		109.0	<0.002	0.13	15.00	10.9	1	1.9	209	0.71	<0.05	11.10	0.278	1.66	3.5	75
W593005		131.0	<0.002	0.80	23.0	9.3	1	1.8	232	0.52	<0.05	10.45	0.189	1.66	8.5	50
W593006		116.0	<0.002	0.06	6.86	10.6	<1	1.8	322	0.75	<0.05	11.95	0.258	1.44	4.3	69
W593007		102.5	<0.002	0.09	7.70	9.8	1	2.0	217	0.66	<0.05	10.70	0.248	1.42	3.3	65
W593008		138.0	<0.002	0.42	13.70	10.0	<1	1.7	137.5	0.70	<0.05	12.05	0.229	2.59	4.9	64
W593009		123.0	<0.002	0.09	6.69	10.8	<1	2.0	218	0.71	<0.05	11.85	0.258	1.64	2.8	70
W593010		134.0	<0.002	0.46	8.63	10.8	<1	1.9	197.5	0.76	0.05	9.74	0.302	2.59	6.8	111
W593011		1.2	<0.002	<0.01	0.11	0.2	1	<0.2	86.6	<0.05	<0.05	0.13	0.005	<0.02	0.2	1
W593012		112.5	<0.002	0.03	4.84	9.8	<1	1.8	244	0.67	<0.05	9.76	0.260	1.70	2.2	76
W593013		105.5	<0.002	0.07	4.31	9.3	<1	1.6	235	0.63	<0.05	9.84	0.238	1.58	3.3	67
W593014		153.5	0.004	0.34	7.14	9.4	<1	1.7	191.0	0.64	0.06	12.20	0.211	2.18	5.0	61
W593015		156.0	<0.002	0.11	15.50	10.2	1	1.6	118.5	0.65	<0.05	11.90	0.258	2.36	3.7	69
W593016		121.0	<0.002	0.03	2.44	11.4	<1	1.5	371	0.68	<0.05	14.15	0.266	1.27	4.1	73
W593017		102.0	<0.002	0.04	4.73	9.4	<1	1.6	316	0.65	<0.05	11.05	0.242	1.40	3.5	66
W593018		143.5	<0.002	0.03	6.88	10.0	<1	1.5	200	0.65	<0.05	11.05	0.244	1.86	3.1	67
W593019		156.5	0.003	7.83	105.5	8.7	1	10.8	65.2	0.40	0.72	9.52	0.167	2.21	5.7	56
W593020		130.5	<0.002	0.13	28.9	9.4	<1	1.4	168.5	0.63	<0.05	11.30	0.239	2.04	4.6	65
W593021		97.2	<0.002	0.03	6.10	8.6	<1	1.4	294	0.61	<0.05	10.05	0.239	1.37	2.4	63
W593022		164.0	<0.002	0.80	41.1	10.8	1	1.9	110.0	0.70	<0.05	11.35	0.249	3.06	4.0	67
W593023		137.5	<0.002	0.10	6.60	11.0	<1	1.7	230	0.70	<0.05	12.10	0.259	1.86	3.3	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 17-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255794

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W593984		1.5	16.7	80	41.9	<0.005
W593985		2.6	15.1	162	31.9	0.012
W593986		1.7	16.2	63	38.4	<0.005
W593987		2.4	13.0	63	32.0	<0.005
W593988		2.2	13.1	60	34.4	0.005
W593989		2.3	14.7	72	35.8	0.033
W593990		1.5	15.7	67	41.7	<0.005
W593991		2.7	15.1	71	38.3	<0.005
W593992		2.7	16.1	67	41.8	<0.005
W593993		1.4	16.4	58	41.7	<0.005
W593994		6.1	12.3	8300	27.6	1.470
W593995		1.9	13.6	66	35.7	<0.005
W593996		2.0	15.9	44	31.1	0.112
W593997		3.1	13.3	108	39.3	0.005
W593998		2.1	16.9	65	36.6	<0.005
W593999		2.4	13.7	46	33.5	0.018
W594000		2.3	14.9	194	29.6	0.114
W593001		2.1	14.0	199	29.4	0.127
W593002		1.9	15.3	62	33.9	<0.005
W593003		2.2	16.7	59	32.3	0.041
W593004		2.4	14.3	64	37.4	0.005
W593005		2.2	18.5	75	29.2	0.029
W593006		2.1	16.1	62	43.7	<0.005
W593007		2.2	13.5	51	36.2	<0.005
W593008		2.0	15.5	53	37.2	<0.005
W593009		2.1	14.2	58	40.4	<0.005
W593010		2.6	16.2	100	39.5	0.005
W593011		<0.1	2.5	4	1.7	<0.005
W593012		1.9	13.9	57	40.5	<0.005
W593013		1.8	12.9	67	33.8	<0.005
W593014		2.1	15.5	59	35.4	<0.005
W593015		2.9	15.0	77	36.6	<0.005
W593016		2.5	17.6	68	36.4	<0.005
W593017		3.3	15.2	55	59.1	<0.005
W593018		4.6	14.4	50	38.9	<0.005
W593019		7.4	9.9	3380	26.0	1.685
W593020		2.2	12.7	60	38.9	<0.005
W593021		2.0	11.7	52	38.2	<0.005
W593022		3.3	16.3	123	44.6	0.007
W593023		1.6	13.7	50	41.8	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 17-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255794

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255796

Project: Klaza

P.O. No.: 19-049

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255796

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Cu-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Cu	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
	Units	kg	ppm	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
W599187		2.92		1020		17.20	1.960	>100	4.58	>10000	190	0.96	14.85	1.91	222	30.7
W599188		3.90						11.45	6.51	869	240	1.52	0.87	3.00	14.60	48.7
W599189		1.84					1.075	11.00	5.02	9930	250	1.23	0.17	6.35	181.0	36.3
W599190		1.22						8.48	3.96	8850	50	0.97	3.05	1.99	37.1	21.5
W599191		2.54		271		3.32		>100	5.88	8880	420	1.49	0.12	3.31	88.1	42.5
W599192		2.76						16.30	4.91	1390	340	1.27	1.82	5.45	17.20	37.6
W599193		1.67					1.870	18.20	4.54	3630	60	1.01	9.41	3.48	230	35.1
W599194		1.93		103				100.0	3.10	>10000	140	1.07	0.11	6.86	117.0	23.2
W599195		1.14					4.63	63.7	4.76	1410	320	1.06	1.36	2.15	476	40.0
W599196		2.23		377		6.36	4.60	>100	4.09	5770	320	0.98	16.15	2.23	491	30.3
W599197		2.39						4.96	6.60	457	210	1.79	0.65	2.31	21.0	49.9
W599198		0.63						83.7	4.87	1050	140	0.88	25.1	0.43	38.2	7.86
W599199		0.80						66.4	5.77	749	320	1.13	50.6	0.21	4.38	15.85
W599200		1.86						35.6	1.37	1055	40	0.37	48.4	0.64	81.0	4.78
W599201		2.41		325		3.41	6.29	>100	1.73	3040	110	0.38	13.60	1.50	952	7.81
W599202		1.00						32.5	3.08	670	70	1.05	147.0	1.13	9.95	22.7
W599203		1.98		235	1.445			>100	0.10	3000	30	0.06	754	1.25	18.05	1.51
W599204		2.04		113				>100	0.22	1680	50	0.09	223	1.20	10.00	1.51
W599205		0.11	NSS	134	2.90	2.51	15.90	>100	4.51	165.5	460	0.49	3.00	2.21	856	18.90
W599206		1.99		399		1.335	0.995	>100	2.40	>10000	370	0.44	35.5	2.68	139.5	24.7
W599207		1.51						9.83	5.35	438	160	1.22	20.1	2.16	55.9	42.3
W599208		2.83						8.15	3.87	331	90	0.82	17.05	0.93	11.50	14.55
W599209		1.68		134		1.440	7.60	>100	3.96	>10000	390	0.92	29.0	1.74	>1000	27.1
W599210		1.26				1.615		60.2	5.13	>10000	120	1.00	5.93	0.90	139.0	3.91
W599211		3.42					1.510	51.1	1.76	>10000	40	0.71	9.54	5.39	231	19.35
W599212		<0.02					1.505	50.9	1.80	>10000	30	0.70	9.39	5.23	228	18.40
W599213		3.98						16.40	7.65	596	200	1.54	8.65	1.53	10.05	48.8
W599214		0.65						27.1	7.04	788	100	1.53	59.5	0.49	15.70	28.1
W599215		2.06						27.7	6.32	1370	400	1.49	0.43	2.69	26.1	45.3
W599216		4.70						17.35	6.34	764	380	1.44	3.14	1.50	110.0	51.5
W599217		2.87	9.60				12.05	36.3	3.86	>10000	70	0.76	5.69	2.19	>1000	18.65
W599218		3.18						10.70	6.64	6970	440	1.34	4.90	1.14	121.0	39.3
W599219		3.30						23.6	6.14	571	520	1.03	17.35	0.85	27.5	23.5
W599220		4.96						0.12	0.10	9.5	30	0.08	0.23	34.1	0.40	1.05
W599221		3.47					2.21	27.0	4.17	782	670	0.61	15.35	3.86	281	16.65
W599222		5.65						1.94	7.66	217	80	1.21	3.29	0.55	8.47	19.10
W599223		2.24				1.990	7.35	97.1	4.11	1305	460	0.69	56.7	3.40	>1000	10.10
W599224		0.13						30.9	7.23	144.5	120	0.60	10.20	6.24	34.1	29.2
W599225		2.51						26.4	5.03	409	60	1.29	21.1	2.35	83.7	37.1
W599226		1.13						2.41	6.65	144.0	520	1.23	6.92	1.47	7.23	44.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05
W599187		3.9	8	8.28	1285	6.16	11.15	0.09	0.7	2.20	2.06	16.0	9.3	0.37	3270	13.00
W599188		5.1	7	15.90	23.2	4.43	14.30	0.12	1.0	0.222	2.97	27.9	29.7	0.87	4860	3.22
W599189		4.5	7	11.25	28.7	4.57	11.00	0.10	0.8	0.085	2.44	21.0	22.8	1.01	7540	1.83
W599190		21.3	9	5.21	57.8	11.30	9.45	0.10	0.6	0.333	1.98	10.3	21.1	0.60	3330	2.41
W599191		7.3	8	21.7	366	4.59	13.25	0.10	1.0	0.074	2.87	25.2	27.8	0.87	2520	1.22
W599192		7.4	6	11.65	159.0	3.76	11.10	0.09	0.9	0.211	2.34	22.6	29.2	0.95	6990	4.37
W599193		5.6	8	11.05	254	9.43	10.05	0.10	0.6	2.83	2.08	19.8	12.4	1.11	3840	3.24
W599194		7.2	4	10.00	193.0	5.71	7.42	0.08	0.5	0.144	1.38	13.2	36.3	1.64	10650	1.60
W599195		3.3	7	6.51	508	4.67	13.05	0.10	0.9	16.45	2.33	23.5	15.1	0.52	6170	3.32
W599196		7.0	8	10.25	1755	5.29	9.42	0.08	0.6	10.80	1.92	17.3	28.6	0.51	1980	35.6
W599197		106.5	7	19.60	37.9	4.99	15.15	0.11	1.1	0.205	2.94	28.1	16.0	0.61	7270	1.46
W599198		71.6	28	2.58	3160	14.85	11.85	0.10	1.2	2.40	2.45	3.8	5.3	0.28	482	1.73
W599199		35.8	25	3.41	2210	11.25	13.55	0.09	1.3	2.07	2.87	7.9	5.3	0.26	575	2.00
W599200		73.3	19	1.54	464	18.75	4.08	0.09	0.3	3.22	0.61	2.5	17.6	0.22	576	2.97
W599201		11.2	11	4.37	1870	20.4	8.46	0.11	0.3	10.50	0.67	4.0	16.0	0.38	1170	4.96
W599202		39.0	14	18.20	409	18.40	7.38	0.11	1.2	1.400	1.00	12.5	49.7	0.43	544	3.12
W599203		38.8	8	0.19	>10000	40.0	0.97	0.16	<0.1	5.24	0.03	0.8	4.3	0.37	556	0.96
W599204		51.0	8	0.56	2100	36.7	1.19	0.13	<0.1	4.10	0.09	0.9	6.7	0.14	346	1.71
W599205		57.0	46	1.29	>10000	9.85	15.55	0.09	0.5	3.26	0.86	9.4	6.4	0.84	1680	155.0
W599206		33.7	10	4.37	916	28.4	6.41	0.15	0.4	1.610	1.06	13.3	5.5	1.02	1720	5.97
W599207		17.2	9	11.00	93.9	9.89	13.30	0.11	0.7	0.310	2.41	22.9	14.9	0.90	813	4.89
W599208		12.7	15	4.52	86.3	9.20	9.75	0.07	0.6	0.192	1.89	8.3	25.3	0.47	703	4.24
W599209		4.8	9	12.40	3260	12.05	10.05	0.08	1.0	19.00	1.87	15.4	7.8	0.58	1400	2.47
W599210		6.1	10	5.04	493	11.60	10.75	0.07	0.9	2.73	2.56	1.8	6.1	0.39	508	3.56
W599211		4.7	7	4.17	743	11.00	3.58	0.08	0.4	2.95	0.73	10.6	27.3	2.15	3730	12.35
W599212		4.7	7	4.26	791	10.90	3.65	0.08	0.4	2.89	0.74	10.4	25.6	2.08	3550	12.25
W599213		5.7	11	10.70	522	6.13	16.15	0.11	1.4	0.588	3.73	27.2	12.9	0.64	1370	1.23
W599214		36.9	11	6.70	1625	11.30	16.40	0.12	1.3	0.664	3.54	11.7	5.0	0.46	877	2.61
W599215		7.8	8	13.70	88.4	3.77	14.30	0.10	1.1	0.035	2.83	26.6	41.0	0.83	10350	3.94
W599216		7.9	11	11.50	167.5	6.17	15.80	0.11	1.4	2.49	3.02	27.8	13.6	0.70	884	1.73
W599217		4.9	7	6.54	580	13.95	13.45	0.10	0.7	76.0	1.86	9.8	6.2	0.87	1820	1.51
W599218		6.2	9	15.05	185.0	7.04	17.00	0.10	1.1	3.74	3.08	21.6	11.5	0.59	591	2.28
W599219		14.6	10	8.52	144.0	9.76	14.60	0.09	0.7	0.660	2.81	12.2	11.6	0.49	693	5.42
W599220		0.5	2	0.06	3.8	0.17	0.32	0.06	<0.1	0.014	0.03	1.3	1.0	2.01	135	0.08
W599221		40.3	9	5.24	197.5	23.4	9.57	0.14	0.5	5.71	1.96	8.7	3.5	1.54	2820	10.65
W599222		19.9	13	5.51	14.1	6.80	15.95	0.09	0.8	0.233	3.87	8.6	4.9	0.46	362	4.59
W599223		7.8	9	5.41	905	18.65	11.20	0.12	0.5	12.50	2.00	5.4	4.1	1.41	2520	4.38
W599224		97.6	110	1.70	6920	9.90	12.25	0.08	0.8	2.60	1.07	16.2	8.7	2.28	898	57.9
W599225		10.0	9	13.85	622	6.57	13.15	0.06	1.1	2.32	2.24	20.0	18.2	1.05	1530	3.18
W599226		8.5	11	9.08	61.6	6.31	17.05	0.06	0.9	0.191	3.38	23.9	9.4	0.74	443	23.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
W599187		0.02	4.1	1.9	330	>10000	114.5	0.003	7.99	1430	5.2	<1	8.2	70.2	0.36	<0.05
W599188		0.03	6.5	2.8	470	1650	183.0	<0.002	3.58	31.1	8.9	<1	2.2	130.0	0.52	0.06
W599189		0.02	5.0	1.8	370	2070	116.0	<0.002	3.13	71.6	7.2	<1	4.1	221	0.38	<0.05
W599190		0.03	3.8	3.5	270	1620	107.5	0.002	>10.0	56.1	5.6	<1	3.2	67.3	0.30	1.58
W599191		0.07	5.8	2.4	430	>10000	141.0	<0.002	2.68	390	8.1	<1	4.7	103.5	0.47	<0.05
W599192		0.06	5.1	2.5	350	1835	132.5	<0.002	2.22	84.4	6.6	<1	2.6	148.0	0.45	0.06
W599193		0.19	4.4	1.7	330	3760	105.0	<0.002	8.96	27.3	6.6	1	5.7	82.8	0.31	0.75
W599194		0.02	3.2	2.0	210	1170	71.6	<0.002	3.57	266	4.5	<1	8.3	145.0	0.25	<0.05
W599195		0.02	5.4	2.5	380	6670	133.0	0.002	5.62	286	7.8	<1	9.1	51.1	0.41	<0.05
W599196		0.02	3.7	2.6	300	>10000	103.0	0.015	7.27	1215	5.2	<1	5.0	80.0	0.27	0.07
W599197		0.07	6.9	5.3	490	1025	143.5	<0.002	3.74	22.1	8.6	<1	5.4	123.0	0.57	0.47
W599198		0.03	4.2	7.0	590	354	105.5	<0.002	>10.0	234	7.7	2	20.2	12.4	0.30	3.05
W599199		0.04	5.2	4.8	610	227	134.5	<0.002	>10.0	180.5	8.6	1	16.8	9.4	0.38	2.01
W599200		0.01	1.2	4.2	90	2630	30.8	0.002	>10.0	64.2	2.1	3	20.1	15.0	0.08	2.17
W599201		0.01	1.5	3.0	110	>10000	32.8	<0.002	>10.0	236	1.6	3	91.1	47.2	0.12	2.13
W599202		0.03	3.8	6.2	370	497	54.2	<0.002	>10.0	54.6	3.2	4	11.9	56.7	0.26	5.86
W599203		<0.01	0.1	0.9	<10	1190	1.4	<0.002	>10.0	542	0.2	11	43.6	22.4	<0.05	37.9
W599204		<0.01	0.1	1.9	10	784	3.9	<0.002	>10.0	190.0	0.3	6	29.3	18.7	<0.05	18.35
W599205		1.15	2.0	18.2	570	>10000	25.6	0.078	>10.0	189.5	10.7	5	18.4	226	0.14	0.56
W599206		0.02	2.2	3.2	110	>10000	53.0	0.002	>10.0	592	3.0	9	19.1	34.9	0.17	9.86
W599207		0.03	4.9	3.4	410	1670	106.5	<0.002	9.82	28.3	7.6	9	7.4	47.3	0.40	1.69
W599208		0.03	3.1	2.3	320	763	98.5	0.002	9.26	21.0	5.8	1	8.6	32.7	0.23	1.35
W599209		0.03	3.4	1.9	360	>10000	84.5	<0.002	>10.0	188.0	4.9	2	15.6	40.5	0.27	0.95
W599210		0.04	3.4	1.6	460	>10000	120.5	<0.002	>10.0	95.1	6.7	2	9.7	24.0	0.29	1.08
W599211		0.02	1.5	2.9	90	6160	35.1	<0.002	>10.0	154.0	2.2	5	10.1	96.2	0.17	1.17
W599212		0.02	1.6	2.7	80	6100	35.9	<0.002	>10.0	154.0	2.3	5	10.1	92.3	0.18	1.19
W599213		0.06	7.2	2.7	620	714	183.5	<0.002	4.41	31.7	11.0	<1	7.0	60.5	0.52	0.38
W599214		0.04	6.9	3.5	580	988	202	<0.002	>10.0	27.4	15.0	4	12.3	27.5	0.51	2.32
W599215		0.03	6.4	2.9	440	1375	127.0	<0.002	2.81	221	8.4	<1	20.1	151.0	0.53	<0.05
W599216		0.03	6.9	3.3	630	3550	185.5	<0.002	6.20	24.8	9.1	<1	10.7	101.0	0.54	0.54
W599217		0.02	3.7	1.6	240	1650	101.5	<0.002	>10.0	41.9	5.1	4	19.3	62.1	0.34	0.59
W599218		0.02	6.0	2.7	530	1450	197.0	<0.002	7.15	31.2	8.6	<1	20.2	73.5	0.52	0.37
W599219		0.05	4.4	2.7	410	1410	149.5	0.007	>10.0	29.6	7.9	1	13.8	65.6	0.33	1.48
W599220		0.04	0.2	0.4	70	9.2	1.0	<0.002	0.02	0.28	0.2	1	<0.2	82.3	<0.05	<0.05
W599221		0.03	2.9	2.9	340	7450	86.4	0.010	>10.0	14.85	5.1	5	13.1	79.2	0.20	3.43
W599222		0.06	4.9	5.7	550	146.0	194.0	0.004	6.98	3.67	10.5	<1	8.5	20.1	0.37	0.74
W599223		0.03	3.1	1.4	200	>10000	102.5	0.002	>10.0	22.5	5.7	4	21.1	108.5	0.24	2.25
W599224		0.87	3.4	375	690	8860	34.4	0.018	6.44	32.6	12.6	16	7.2	157.0	0.28	0.71
W599225		0.04	4.2	4.3	580	4850	121.5	<0.002	6.40	99.8	6.3	1	12.1	374	0.32	0.80
W599226		0.05	5.6	3.2	530	246	198.0	0.003	5.42	8.26	9.5	2	13.6	43.2	0.46	0.68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255796

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
W599187		7.28	0.134	2.01	2.9	38	2.2	8.1	>10000	20.5	3.72	2.91
W599188		11.65	0.200	3.01	4.1	52	5.2	13.3	1410	28.7	1.565	
W599189		8.04	0.163	2.30	6.0	42	2.6	15.2	>10000	23.5	5.28	
W599190		5.66	0.119	1.56	19.2	38	3.5	9.4	3390	16.6	3.48	
W599191		11.95	0.182	2.48	7.8	50	3.3	11.4	5000	30.8	0.940	
W599192		8.49	0.146	1.98	7.0	42	2.4	14.8	1440	28.1	0.523	
W599193		8.19	0.148	1.51	2.7	40	2.4	8.9	>10000	16.1	3.44	
W599194		5.37	0.098	1.44	6.2	29	2.1	10.1	6920	15.0	3.03	1.625
W599195		7.85	0.152	2.05	4.5	52	5.0	9.8	>10000	23.9	0.724	
W599196		7.02	0.128	2.04	40.9	37	2.2	7.5	>10000	16.5	2.33	
W599197		11.50	0.205	2.58	7.9	56	6.4	13.4	2100	30.4	0.505	
W599198		4.18	0.127	1.83	2.8	58	4.6	4.7	2740	39.9	0.454	
W599199		6.22	0.162	2.19	2.5	60	5.1	5.8	328	40.6	0.277	
W599200		1.63	0.035	0.55	0.9	15	2.5	2.0	5290	8.6	1.670	
W599201		2.10	0.049	0.69	1.2	14	3.2	2.8	>10000	10.6	7.18	
W599202		4.09	0.114	1.15	3.2	28	3.6	5.3	773	48.7	0.847	
W599203		0.59	<0.005	0.09	0.7	3	0.1	0.9	1100	0.9	1.855	
W599204		0.45	<0.005	0.12	2.4	3	0.4	1.8	678	0.8	1.905	
W599205		1.96	0.179	7.71	2.3	124	7.9	11.7	>10000	11.1	>10.0	
W599206		3.64	0.071	0.95	1.3	24	6.3	3.9	>10000	9.9	8.37	3.64
W599207		9.29	0.171	1.73	10.4	55	4.1	8.5	3910	17.9	0.236	
W599208		4.60	0.116	1.32	2.3	43	5.0	4.4	836	14.9	0.331	
W599209		7.14	0.123	1.47	3.8	34	4.9	14.0	>10000	30.7	8.65	1.815
W599210		6.22	0.129	1.74	3.2	50	6.3	4.0	8700	28.3	5.19	1.030
W599211		4.46	0.038	0.67	6.5	16	1.2	5.6	>10000	9.6	4.60	1.640
W599212		4.42	0.038	0.70	6.4	16	1.2	5.5	>10000	10.0	5.04	1.570
W599213		12.40	0.258	2.46	4.1	75	4.2	12.0	835	43.2	0.346	
W599214		7.81	0.251	2.56	2.8	98	5.9	10.7	1110	34.4	0.997	
W599215		11.70	0.192	2.48	8.1	52	3.2	13.7	3510	32.1	1.770	
W599216		10.50	0.218	2.58	2.9	60	6.9	7.6	7000	43.0	0.814	
W599217		6.88	0.117	1.55	1.9	33	6.7	6.1	>10000	21.0	>10.0	1.065
W599218		11.10	0.205	2.69	4.2	58	8.2	8.0	7310	34.3	1.775	
W599219		8.46	0.152	2.02	1.6	54	9.4	6.4	1870	16.2	1.475	
W599220		0.09	0.005	<0.02	0.1	1	0.1	2.1	37	1.3	<0.005	
W599221		4.05	0.101	1.49	1.3	39	11.6	4.8	>10000	12.1	1.515	
W599222		7.99	0.185	2.79	1.6	71	7.6	5.9	553	20.1	0.138	
W599223		5.42	0.110	1.55	1.2	38	11.5	4.0	>10000	11.3	2.02	
W599224		3.24	0.206	2.52	5.6	400	6.6	13.6	8200	28.4	1.405	
W599225		8.12	0.142	1.56	4.4	49	4.9	6.3	5560	38.3	1.635	
W599226		12.20	0.184	2.40	4.3	63	5.5	11.9	285	21.9	0.206	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255796

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

NSS is non-sufficient sample.
Applies to Method: ALL METHODS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	BAG-06	CRU-32	CRU-QC
	LOG-21	LOG-21d	LOG-23	PUL-35a
	PUL-35ad	PUL-QC	SPL-21	SPL-21d
	WEI-21			

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	Cu-OG62	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255798

Project: Klaza

P.O. No.: 19-112

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255798

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W602861		4.84	0.50	7.39	11.4	3020	1.88	1.89	2.25	0.38	55.4	8.4	9	10.25	34.2	2.77
W602862		4.81	0.79	7.55	22.2	2420	1.66	3.05	2.64	1.08	50.4	10.6	11	13.95	72.5	3.13
W602863		4.45	1.15	7.33	48.9	1590	1.60	3.10	2.31	0.87	45.2	5.2	9	18.40	61.1	3.37
W602864		3.99	1.04	7.42	54.2	1220	1.67	3.26	2.43	0.84	51.3	4.5	9	22.3	55.0	3.17
W602865		2.20	1.91	6.54	65.6	260	1.45	5.93	2.97	2.15	50.0	14.9	7	19.50	17.7	4.46
W602866		5.25	1.04	7.08	58.9	1290	1.52	1.66	2.00	1.44	44.7	4.7	10	20.4	110.0	2.44
W602867		0.26	30.3	6.81	138.0	130	0.61	12.70	5.96	33.6	28.6	92.1	111	1.64	6620	9.52
W602868		2.80	0.59	7.32	51.7	1510	1.49	1.60	2.52	0.81	50.4	5.6	9	24.0	98.0	2.64
W602869		6.79	3.32	7.44	148.5	970	1.60	4.99	2.14	0.95	56.0	8.0	9	24.6	441	4.05
W602870		3.30	0.31	7.71	9.6	2550	1.63	0.63	2.67	0.41	48.5	6.7	10	20.8	59.3	3.26
W602871		4.63	0.46	7.69	18.5	3040	1.51	0.90	2.21	0.82	50.9	6.1	11	20.3	54.1	3.53
W602872		2.66	2.95	8.02	69.7	1970	1.33	6.78	0.27	1.05	67.2	2.2	9	23.3	270	4.03
W602873		5.24	1.40	8.04	109.5	1830	1.32	3.03	0.09	0.70	59.1	1.9	12	21.8	182.5	4.06
W602874		4.99	0.02	0.08	0.2	20	0.09	0.05	33.3	0.03	1.10	0.6	1	0.09	2.3	0.13
W602875		6.92	1.98	7.37	84.8	1470	1.22	3.89	0.84	0.42	52.4	3.2	9	16.80	52.8	3.21
W602876		6.33	4.52	8.42	197.5	1880	1.44	7.48	0.17	3.26	59.1	2.6	7	24.9	310	3.79
W602877		4.38	6.58	6.66	78.4	1940	2.01	9.54	2.80	11.05	35.6	5.7	7	31.7	414	2.95
W602878		5.85	0.79	7.00	47.3	1620	2.01	0.62	3.53	2.58	56.1	7.4	17	18.95	30.1	2.59
W602879		3.18	7.12	6.93	167.0	770	2.13	10.75	2.59	7.57	54.3	7.9	15	27.1	40.1	2.47
W602880		1.87	4.88	7.84	310	660	2.31	4.28	1.09	53.8	69.9	10.3	8	24.4	238	4.43
W602881		5.52	0.61	7.86	51.3	1710	1.94	2.32	2.48	3.58	56.0	7.5	10	18.25	75.2	3.34
W602882		3.97	0.34	8.06	26.7	2390	1.68	1.15	2.02	0.74	60.4	10.9	10	11.85	47.1	3.20
W602883		0.26	38.6	5.48	2550	70	1.08	34.9	1.67	43.7	33.2	16.7	21	9.96	1145	9.06
W602884		5.06	0.52	7.58	48.1	2750	1.66	1.27	1.97	5.32	51.8	7.5	9	12.10	65.1	2.61
W602885		5.61	0.26	7.70	21.7	3050	1.62	0.94	2.53	1.61	44.7	6.3	10	9.45	37.6	2.49
W602886		6.36	0.45	7.72	25.0	2450	1.75	1.26	2.20	2.63	53.4	8.9	10	10.45	117.0	2.70
W602887		2.77	0.41	7.72	33.2	2300	1.63	1.07	1.79	4.65	41.2	8.7	10	10.25	63.8	3.12
W602888		2.72	0.58	7.94	49.8	2220	1.71	1.20	1.79	4.68	42.8	7.6	10	11.85	140.5	3.11
W602889		4.33	2.12	8.06	190.0	1790	1.71	3.08	0.52	14.25	58.5	6.9	9	22.4	197.0	4.15
W602890		4.33	2.58	8.28	272	1870	2.18	3.64	0.48	40.5	61.5	9.0	10	20.6	161.0	4.98
W602891		3.66	0.61	7.94	80.8	2460	1.67	1.07	1.12	3.91	61.6	10.9	9	11.70	41.0	4.66
W602892		4.97	0.18	8.08	14.9	2440	1.54	0.31	1.54	0.66	51.8	7.4	10	12.30	11.2	3.15
W602893		4.49	0.18	7.34	18.7	1790	1.29	0.47	1.60	0.95	53.2	5.1	7	12.40	23.8	2.54
W602894		5.58	0.53	7.19	22.9	1560	1.59	1.17	2.43	0.45	46.1	6.9	9	8.96	31.2	2.70
W602895		<0.02	0.47	7.25	22.0	1570	1.65	1.14	2.47	0.40	46.5	6.8	9	9.01	30.9	2.71
W602896		5.29	0.39	7.50	16.9	1950	1.70	1.29	2.30	0.33	53.1	6.7	10	8.60	76.5	2.83
W602897		5.03	0.29	7.51	21.5	2090	1.69	0.90	2.77	0.25	44.8	7.6	10	9.47	33.3	3.13
W602898		3.70	0.13	7.41	7.5	2190	1.59	0.58	3.03	0.11	47.1	8.4	12	9.69	9.8	3.19
W602899		3.69	7.48	7.21	133.5	1260	1.77	10.90	2.28	23.4	45.2	8.9	11	21.6	59.3	4.36
W602900		4.90	0.40	7.12	30.4	2130	1.65	1.13	2.50	0.65	44.5	8.1	9	19.60	71.1	3.06

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255798

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W602861		16.30	0.06	1.3	0.118	2.94	29.6	13.7	0.78	452	1.44	2.08	8.5	2.6	580	31.4
W602862		17.25	0.06	1.2	0.257	2.98	26.7	13.0	0.77	539	3.01	2.11	8.5	2.7	610	49.2
W602863		17.60	0.06	1.2	0.265	3.22	23.4	24.6	0.77	693	0.92	0.73	8.3	2.6	620	49.4
W602864		17.00	0.06	1.1	0.242	2.78	28.7	64.7	0.90	879	1.55	0.04	7.8	2.5	590	42.5
W602865		14.00	0.06	1.0	0.432	2.23	28.4	45.0	1.05	968	1.07	0.03	7.3	3.3	500	73.1
W602866		16.70	0.06	1.4	0.268	2.73	23.2	56.0	0.61	771	1.62	0.07	9.0	2.3	540	47.8
W602867		11.70	0.07	0.8	2.54	1.04	15.9	8.4	2.17	866	56.5	0.83	3.0	364	670	8500
W602868		16.55	0.06	1.3	0.203	3.28	26.4	33.3	0.83	718	1.51	0.08	8.2	2.6	620	38.5
W602869		17.15	0.07	1.2	0.377	3.00	31.0	35.0	0.91	1180	1.64	0.05	8.0	2.7	590	38.4
W602870		16.90	<0.05	1.1	0.105	3.02	24.6	16.8	0.80	561	1.29	1.65	8.7	2.5	640	28.1
W602871		17.00	0.05	1.3	0.213	2.84	26.2	34.7	0.71	757	0.88	0.67	8.6	2.5	610	39.3
W602872		17.55	0.08	1.4	0.272	3.14	36.7	15.7	0.25	72	3.18	1.01	8.4	1.6	660	77.3
W602873		18.95	0.07	1.3	0.147	3.54	31.7	18.8	0.30	99	1.86	0.28	8.0	1.4	780	82.2
W602874		0.21	<0.05	<0.1	0.005	0.02	1.3	0.9	1.94	124	<0.05	0.03	0.1	0.2	80	0.7
W602875		16.55	0.06	1.2	0.164	3.44	29.8	12.0	0.52	288	1.50	0.05	7.2	1.5	500	82.4
W602876		19.60	0.07	1.9	0.565	3.50	32.0	9.0	0.27	240	1.62	0.10	9.1	1.4	740	178.0
W602877		19.80	0.05	2.3	0.210	2.65	17.0	27.7	0.27	885	1.15	0.13	10.8	2.8	900	96.4
W602878		18.60	0.06	3.6	0.038	3.29	27.9	21.2	0.99	1070	1.67	0.04	11.1	6.2	1070	46.3
W602879		18.55	0.07	3.6	0.110	2.62	27.0	39.1	0.82	2060	1.99	0.04	10.8	6.8	1030	295
W602880		17.95	0.09	1.7	0.911	3.37	39.5	12.4	0.54	3100	13.25	0.07	8.6	4.1	690	372
W602881		17.30	0.07	1.5	0.128	2.93	29.1	17.9	0.63	786	1.63	1.40	8.9	3.0	600	39.4
W602882		17.20	0.08	1.6	0.122	3.49	31.4	14.3	0.70	436	1.56	1.42	8.8	3.0	630	21.9
W602883		13.55	0.07	0.9	1.515	2.59	16.7	15.8	0.65	2210	15.95	0.06	4.9	14.3	430	1625
W602884		17.00	0.08	1.5	0.173	3.86	25.6	13.7	0.45	706	2.83	0.47	7.4	2.1	610	53.5
W602885		15.95	0.05	1.4	0.105	3.69	23.2	8.4	0.61	483	1.54	1.46	7.6	2.3	670	23.8
W602886		16.95	0.07	1.1	0.161	3.37	28.5	9.4	0.57	498	7.02	1.47	7.8	3.3	660	24.0
W602887		16.10	0.05	1.2	0.159	3.51	22.1	9.1	0.69	615	6.43	1.05	7.8	2.7	640	28.6
W602888		16.75	0.06	1.2	0.212	3.82	23.6	8.1	0.71	650	6.19	0.82	7.9	2.6	670	38.2
W602889		18.40	0.07	1.2	0.559	3.74	32.1	15.5	0.42	1060	8.26	0.07	7.6	2.8	610	81.3
W602890		18.30	0.07	1.2	0.704	3.76	33.2	15.5	0.49	1450	12.60	0.25	8.8	3.0	680	362
W602891		16.35	0.07	1.1	0.169	3.03	33.5	18.7	0.81	625	13.90	0.62	8.3	3.3	670	50.5
W602892		17.30	0.05	1.3	0.098	3.04	26.8	20.0	0.52	682	1.91	0.86	9.2	2.6	700	25.8
W602893		15.00	0.06	1.7	0.085	3.44	29.1	15.7	0.44	442	3.03	1.13	7.2	2.1	480	19.3
W602894		16.00	0.06	1.5	0.211	2.71	24.6	12.4	0.71	704	4.18	1.88	8.0	3.8	530	34.1
W602895		16.55	0.06	1.5	0.217	2.72	25.1	13.0	0.72	704	3.95	1.91	8.2	2.7	540	30.2
W602896		17.55	0.08	1.6	0.125	3.26	28.7	13.1	0.70	570	1.88	1.94	8.8	2.6	570	18.2
W602897		17.55	0.05	1.4	0.105	2.96	23.4	15.6	0.81	578	2.42	1.88	9.1	3.0	640	16.9
W602898		17.50	<0.05	1.3	0.082	2.42	24.4	11.2	0.93	583	1.75	2.47	9.1	3.5	700	12.4
W602899		17.65	0.06	1.4	0.699	2.85	23.1	11.4	0.70	980	2.17	1.23	8.4	3.0	640	268
W602900		17.15	0.07	1.2	0.128	2.88	23.4	15.9	0.71	601	1.39	1.13	8.4	3.1	630	18.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255798

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W602861		122.0	<0.002	0.94	1.54	10.2	1	4.0	350	0.74	0.21	14.10	0.236	1.52	5.4	66
W602862		116.5	<0.002	1.07	3.08	10.9	1	4.4	337	0.66	1.18	13.10	0.257	1.79	4.4	73
W602863		119.0	<0.002	0.80	13.15	10.5	1	4.0	190.5	0.66	0.34	11.20	0.255	2.12	5.1	74
W602864		123.0	<0.002	1.32	20.7	10.6	1	5.0	89.8	0.63	0.42	13.70	0.244	2.43	4.3	69
W602865		119.5	<0.002	2.92	11.10	9.1	1	5.7	78.9	0.63	1.67	12.15	0.203	1.95	3.9	62
W602866		92.4	<0.002	0.69	32.4	9.4	<1	4.4	100.5	0.89	0.33	12.95	0.231	2.06	4.4	64
W602867		28.5	0.017	6.17	31.6	12.0	14	7.1	150.5	0.22	0.66	3.18	0.197	2.34	6.3	383
W602868		119.0	<0.002	0.47	18.70	10.3	<1	4.0	109.5	0.63	0.18	14.00	0.254	2.37	4.2	71
W602869		157.0	<0.002	1.88	139.0	11.1	1	5.9	91.9	0.62	0.51	14.15	0.242	2.26	6.1	71
W602870		111.5	<0.002	0.27	8.27	11.0	<1	2.9	307	0.66	0.07	12.60	0.279	1.51	3.2	77
W602871		117.5	<0.002	0.69	23.2	11.0	<1	3.4	205	0.67	0.10	13.00	0.263	1.80	3.7	75
W602872		150.0	<0.002	0.73	6.31	10.7	1	6.4	159.5	0.68	0.36	15.95	0.248	2.18	3.5	76
W602873		182.5	<0.002	0.68	6.71	11.0	1	5.9	81.0	0.63	0.43	16.90	0.249	3.03	3.1	78
W602874		0.6	<0.002	0.01	0.07	0.2	1	<0.2	78.1	<0.05	<0.05	0.11	0.005	0.02	0.2	1
W602875		170.0	<0.002	1.34	7.11	9.3	1	6.5	61.5	0.61	0.37	12.95	0.220	2.84	4.0	66
W602876		166.5	<0.002	0.67	7.88	8.1	2	5.5	91.5	0.68	0.60	15.60	0.284	2.81	4.2	63
W602877		86.5	<0.002	0.15	8.46	4.8	<1	3.9	151.0	0.73	0.05	6.14	0.345	2.09	3.7	52
W602878		145.0	<0.002	0.31	8.45	6.4	1	1.5	199.5	0.78	<0.05	8.58	0.291	3.50	4.0	63
W602879		114.0	<0.002	0.82	12.65	6.7	<1	1.7	322	0.76	<0.05	8.48	0.288	2.99	3.9	63
W602880		203	<0.002	0.78	18.25	11.4	1	5.2	83.7	0.77	0.24	16.30	0.253	3.28	6.1	73
W602881		125.5	<0.002	0.24	5.48	11.0	<1	3.6	274	0.75	0.07	14.40	0.264	1.84	3.2	75
W602882		137.5	<0.002	0.44	4.48	10.9	1	2.9	239	0.77	0.27	15.90	0.264	1.71	2.3	78
W602883		138.0	<0.002	7.60	104.0	7.9	1	10.4	61.5	0.41	0.69	8.43	0.159	2.18	5.5	55
W602884		148.5	<0.002	0.70	6.50	10.3	1	3.8	158.5	0.62	0.25	13.70	0.227	2.37	3.2	72
W602885		132.0	<0.002	0.41	3.43	10.3	<1	2.9	278	0.57	0.17	12.10	0.251	2.03	3.2	73
W602886		141.0	<0.002	0.46	4.62	11.5	1	5.1	245	0.61	0.18	12.95	0.254	2.06	3.8	79
W602887		156.5	0.002	0.35	5.07	11.1	1	5.2	228	0.60	0.10	11.50	0.258	2.08	3.3	77
W602888		189.0	<0.002	0.43	8.31	11.1	<1	5.4	194.5	0.57	0.15	11.90	0.261	2.49	3.2	77
W602889		208	<0.002	0.53	35.4	11.3	<1	7.6	72.2	0.63	0.39	13.50	0.252	2.76	4.6	80
W602890		190.0	<0.002	0.44	14.30	11.6	1	6.6	81.8	0.80	0.15	15.15	0.267	2.74	5.1	80
W602891		143.0	<0.002	0.50	5.72	11.4	<1	4.0	138.5	0.67	0.23	13.85	0.268	1.79	3.1	78
W602892		116.5	<0.002	0.11	8.14	11.4	<1	2.8	187.0	0.67	<0.05	12.15	0.291	1.45	2.7	82
W602893		120.0	<0.002	0.10	7.06	8.3	<1	2.3	159.0	0.69	<0.05	20.5	0.205	1.32	2.6	58
W602894		121.5	<0.002	0.44	4.02	10.1	1	4.2	221	0.68	0.11	16.70	0.221	1.52	2.7	63
W602895		121.0	<0.002	0.42	3.95	10.0	<1	4.6	224	0.67	0.17	15.95	0.226	1.47	2.5	64
W602896		134.5	0.002	0.23	3.30	10.8	<1	4.7	291	0.76	0.19	16.80	0.237	1.43	3.5	65
W602897		107.5	0.002	0.28	2.91	11.5	<1	4.0	317	0.71	0.16	11.60	0.266	1.46	3.3	74
W602898		89.0	<0.002	0.10	1.69	13.2	<1	2.6	405	0.66	0.10	10.90	0.299	1.07	3.4	87
W602899		136.5	<0.002	1.59	8.34	12.4	1	5.8	217	0.64	0.58	10.50	0.269	2.10	3.7	83
W602900		109.0	<0.002	0.50	11.60	10.7	1	3.8	226	0.65	0.33	10.40	0.262	1.67	3.3	73

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255798

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W602861		1.1	16.8	73	35.5	0.114
W602862		1.2	16.4	134	31.5	0.124
W602863		2.4	16.1	114	30.9	0.094
W602864		2.8	14.9	123	27.9	0.066
W602865		2.3	15.0	230	25.6	0.213
W602866		2.2	14.0	140	34.0	0.124
W602867		6.0	12.4	7930	27.5	1.465
W602868		3.0	14.6	109	34.5	0.067
W602869		5.6	14.6	123	33.1	0.187
W602870		1.1	17.9	76	32.6	0.011
W602871		3.1	15.9	117	37.1	0.022
W602872		12.2	10.4	256	37.7	0.060
W602873		13.8	7.7	252	35.8	0.128
W602874		0.1	2.1	6	1.3	<0.005
W602875		16.8	8.2	113	33.2	0.245
W602876		14.4	9.8	597	56.6	0.070
W602877		1.9	9.3	1140	75.4	0.082
W602878		2.4	12.3	284	141.0	0.016
W602879		4.0	12.4	740	136.5	0.490
W602880		5.2	16.9	2230	44.2	0.602
W602881		2.0	16.6	293	41.7	0.029
W602882		1.6	16.7	128	42.7	0.026
W602883		7.5	8.8	3150	23.0	1.695
W602884		1.9	14.5	439	40.7	0.036
W602885		1.3	14.8	167	38.5	0.013
W602886		1.8	14.7	206	31.2	0.037
W602887		1.8	16.5	297	32.2	0.041
W602888		2.2	14.9	256	32.9	0.058
W602889		3.4	14.8	864	33.9	0.161
W602890		4.3	16.4	2040	31.8	0.039
W602891		2.0	19.3	480	30.1	0.039
W602892		5.9	17.0	89	37.5	0.005
W602893		2.4	14.4	108	44.8	0.014
W602894		1.3	15.5	92	41.1	0.021
W602895		1.3	15.3	90	41.0	0.026
W602896		1.6	16.5	48	43.7	0.011
W602897		1.4	16.4	61	41.2	0.026
W602898		0.8	18.1	38	37.8	0.054
W602899		5.6	15.3	1510	39.1	0.096
W602900		1.2	15.4	93	37.6	0.042

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255798

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255800

Project: Klaza

P.O. No.: 19-111

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255800

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W602821		3.93	2.72	6.51	97.1	1730	1.53	1.33	2.74	1.82	39.2	10.2	11	22.4	764	3.28
W602822		2.86	0.97	7.00	44.5	2980	1.69	1.36	2.38	0.56	40.7	6.6	11	17.65	135.0	3.32
W602823		2.74	1.49	7.07	46.4	2070	1.75	2.53	2.39	2.08	40.6	8.3	11	20.5	193.0	2.86
W602824		3.14	2.96	7.50	167.5	700	1.88	4.74	1.95	4.63	60.2	6.9	10	20.4	154.5	3.93
W602825		3.84	2.87	7.28	112.5	250	1.63	3.34	1.48	2.87	48.7	7.6	11	16.30	41.5	4.72
W602826		4.74	0.99	7.21	29.9	2210	1.73	2.39	2.90	2.30	44.5	6.9	12	16.85	65.7	3.58
W602827		2.36	0.98	7.25	22.6	2290	1.80	2.48	2.77	2.52	43.5	6.2	10	17.25	63.4	3.48
W602828		5.24	1.35	7.32	76.3	1250	1.42	3.93	3.40	5.01	49.5	7.0	10	22.0	187.0	3.27
W602829		2.56	1.68	6.62	94.6	240	1.45	6.98	4.67	4.72	55.8	15.1	8	34.8	98.8	4.16
W602830		2.79	0.53	6.26	40.7	1970	1.38	1.48	3.52	2.91	51.2	6.9	7	31.1	60.4	2.75
W602831		3.30	0.74	7.71	65.6	1650	1.62	2.27	1.78	0.61	53.1	7.7	10	29.2	108.0	3.16
W602832		4.88	1.47	7.52	89.6	1490	1.71	2.41	2.05	2.30	49.9	6.9	10	23.2	185.0	3.35
W602833		4.88	2.63	6.66	86.1	1550	1.71	1.86	3.76	10.10	48.4	7.5	9	25.1	288	3.91
W602834		4.64	0.95	6.94	42.2	1470	1.66	2.68	2.73	0.45	46.3	8.3	10	28.4	160.0	3.67
W602835		5.09	0.01	0.11	<0.2	30	0.07	0.03	32.8	0.03	1.20	0.6	2	0.11	1.9	0.13
W602836		4.35	0.78	6.92	12.6	2690	1.58	0.77	2.93	3.55	40.8	6.8	15	19.55	114.5	3.15
W602837		4.80	0.67	7.37	15.2	2890	1.58	1.58	2.82	3.09	46.4	7.1	13	22.0	88.6	3.20
W602838		2.40	0.43	6.87	24.1	1640	1.58	1.09	3.21	0.24	38.6	8.1	11	26.5	129.0	3.46
W602839		4.28	0.49	7.37	10.9	2790	1.67	0.61	2.99	0.23	42.8	7.9	16	12.60	163.5	3.06
W602840		5.67	0.61	7.17	18.1	2350	1.55	0.90	2.80	1.75	47.0	9.6	13	15.50	180.0	3.17
W602841		4.56	0.71	7.23	14.8	2470	1.57	1.04	2.84	1.04	45.8	7.7	12	16.75	201	3.07
W602842		0.13	31.2	6.81	150.0	120	0.58	10.55	6.07	36.5	28.4	99.5	114	1.66	6770	9.66
W602843		4.72	0.52	7.06	11.9	2510	1.72	0.87	2.63	0.33	46.8	7.8	13	18.05	189.5	3.04
W602844		4.92	0.59	7.37	30.5	1520	1.61	1.36	2.57	0.54	47.7	8.2	12	16.35	187.0	3.11
W602845		4.75	0.55	6.69	27.4	700	1.53	1.93	3.38	0.53	40.9	11.1	11	17.45	121.5	3.51
W602846		4.71	0.60	7.22	8.8	2510	1.57	0.56	2.83	0.27	44.9	8.7	15	11.40	170.0	2.83
W602847		4.69	0.92	6.96	19.6	2410	1.52	1.94	2.79	1.00	43.8	9.7	12	18.80	178.0	3.00
W602848		5.11	4.33	7.25	136.0	640	1.71	3.07	0.93	15.45	57.8	7.0	12	19.10	208	6.30
W602849		2.69	14.10	6.07	591	280	1.27	14.60	0.63	7.91	41.2	18.7	8	10.00	739	8.05
W602850		<0.02	12.95	6.19	612	150	1.41	14.40	0.60	6.08	43.6	17.8	8	9.24	716	7.64
W602851		3.90	7.16	7.70	144.5	570	1.68	8.89	1.43	2.19	59.0	10.7	11	20.4	301	4.50
W602852		3.55	8.12	7.44	170.0	270	1.42	9.60	1.26	17.25	62.6	9.5	11	14.85	347	5.25
W602853		2.01	7.11	6.96	140.5	290	1.46	9.31	1.08	1.07	48.3	9.5	11	14.00	115.5	4.60
W602854		0.26	38.9	5.50	2630	50	1.18	37.1	1.66	43.5	32.1	17.8	22	9.92	1155	8.92
W602855		4.98	1.23	7.14	46.6	2180	1.63	2.48	1.83	1.49	45.4	7.8	11	17.60	95.6	3.62
W602856		2.38	4.88	5.75	272	170	1.20	7.66	0.93	3.18	41.6	28.1	9	9.26	134.0	6.53
W602857		3.47	2.08	7.84	48.6	2100	1.26	1.83	0.87	1.55	59.6	8.7	11	12.90	235	3.12
W602858		5.35	0.49	7.39	29.1	2170	1.27	0.94	1.97	1.03	43.6	6.7	10	21.5	101.0	2.79
W602859		5.22	0.37	7.85	12.1	2660	1.41	0.71	1.88	0.66	48.4	7.3	11	12.80	53.6	3.00
W602860		5.16	0.38	7.81	10.1	2510	1.54	1.17	2.02	0.74	45.8	7.0	10	10.25	25.8	3.22

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255800

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W602821		15.30	0.06	1.0	0.327	3.20	20.4	14.8	0.86	1220	1.03	0.71	7.5	3.1	520	61.7
W602822		17.45	0.07	1.0	0.175	3.04	20.9	12.5	0.79	784	4.40	1.30	8.5	2.5	610	37.2
W602823		16.45	0.06	1.1	0.262	3.14	21.4	15.1	0.64	503	2.06	1.05	7.9	2.4	610	55.7
W602824		18.35	0.08	1.0	0.307	3.30	34.3	17.7	0.76	1150	3.20	0.13	8.1	2.7	610	135.0
W602825		17.65	0.07	0.9	0.240	3.37	26.6	14.6	0.68	698	2.60	0.39	7.3	2.4	580	104.0
W602826		17.75	0.06	1.2	0.179	3.15	23.1	11.2	0.74	609	2.43	1.43	8.8	2.7	630	76.7
W602827		17.60	0.07	1.2	0.197	3.06	23.1	11.9	0.72	561	3.23	1.46	8.4	2.5	620	77.2
W602828		17.85	0.07	1.0	0.415	2.73	26.8	26.0	1.04	778	2.00	0.06	8.8	2.9	660	160.0
W602829		17.85	0.08	0.8	0.477	2.43	30.9	23.0	0.71	849	3.27	0.05	7.5	3.4	560	126.5
W602830		14.75	0.06	0.8	0.221	2.49	28.8	20.6	0.94	722	2.41	0.04	7.2	2.5	540	36.0
W602831		17.95	0.06	1.0	0.257	3.10	27.9	18.1	0.66	525	4.29	0.06	8.9	2.6	660	36.5
W602832		17.50	0.06	0.9	0.297	3.17	26.4	9.5	0.80	613	0.78	0.05	8.0	2.4	650	90.6
W602833		16.20	0.06	0.8	0.269	2.57	26.2	25.8	1.14	715	1.89	0.49	7.8	2.5	580	52.8
W602834		18.65	0.07	0.8	0.195	2.76	23.9	24.0	0.71	560	5.22	0.67	8.5	2.5	630	25.1
W602835		0.37	<0.05	0.1	<0.005	0.03	1.3	1.1	2.28	130	<0.05	0.05	0.1	0.3	70	0.8
W602836		16.90	0.07	0.9	0.163	2.57	20.3	12.9	0.85	653	4.20	1.94	8.7	2.8	640	54.3
W602837		17.35	0.05	0.9	0.205	2.52	24.4	12.9	0.96	573	5.17	2.14	8.4	2.7	640	47.4
W602838		16.65	0.07	0.8	0.117	2.35	19.7	15.4	0.64	519	0.67	1.34	8.1	2.6	630	18.7
W602839		17.00	0.06	0.8	0.119	2.53	22.3	12.4	0.88	474	0.59	2.13	8.6	2.9	660	17.2
W602840		17.30	0.07	0.8	0.176	2.49	24.9	13.6	0.92	514	0.64	1.92	8.5	2.7	640	48.3
W602841		17.00	0.05	0.9	0.152	2.47	24.9	12.3	0.88	464	1.21	2.00	8.2	2.7	630	23.7
W602842		12.10	0.10	0.8	2.68	1.02	15.6	8.6	2.20	866	62.6	0.85	3.1	370	690	8690
W602843		16.70	0.06	1.0	0.116	2.61	24.7	14.6	0.81	419	0.70	1.85	9.0	2.9	660	23.6
W602844		16.30	0.05	0.9	0.132	2.81	25.8	13.2	0.70	352	3.23	1.64	8.1	2.9	610	26.5
W602845		16.25	0.08	1.0	0.131	2.65	21.4	13.6	0.72	449	0.92	1.37	8.0	3.1	570	28.1
W602846		16.90	0.06	1.0	0.121	2.80	23.5	13.3	0.80	419	1.77	2.20	8.5	2.6	610	18.0
W602847		16.95	0.05	1.1	0.271	2.77	22.9	13.6	0.73	432	1.73	1.90	8.3	2.7	580	23.5
W602848		16.80	0.09	0.9	0.391	3.41	33.1	7.6	0.90	1800	1.35	0.04	7.2	2.5	550	839
W602849		16.20	0.08	0.9	0.463	2.85	21.8	12.1	0.42	507	2.14	0.04	4.4	2.7	480	265
W602850		15.55	0.12	0.8	0.436	2.85	22.7	12.3	0.41	506	1.87	0.04	4.0	2.9	500	250
W602851		16.50	0.13	1.0	0.420	3.37	32.9	10.9	0.85	1030	1.39	0.04	7.1	2.8	610	123.0
W602852		16.80	0.12	1.1	0.503	3.32	33.7	23.4	0.77	1420	0.96	0.06	6.6	2.3	590	641
W602853		16.25	0.12	0.9	0.308	3.23	26.9	16.3	0.60	767	1.21	0.19	6.1	3.4	530	102.0
W602854		13.40	0.09	0.8	1.555	2.55	15.7	15.4	0.66	2250	16.75	0.06	4.6	14.3	450	1610
W602855		16.25	0.11	1.0	0.302	2.97	23.5	17.5	0.75	714	0.43	0.84	7.1	2.5	550	37.2
W602856		12.85	0.10	0.9	0.217	2.70	22.4	14.9	0.54	1720	2.51	0.03	4.6	3.2	400	250
W602857		16.15	0.12	1.1	0.228	3.12	31.6	31.1	0.41	648	0.91	0.10	7.8	2.1	630	43.7
W602858		16.15	0.11	1.2	0.109	2.93	21.5	32.3	0.54	505	0.77	0.59	8.0	2.1	570	27.7
W602859		17.20	0.13	1.3	0.089	2.84	24.7	29.0	0.58	543	0.88	1.00	8.3	2.3	640	29.2
W602860		17.20	0.12	1.4	0.158	3.25	22.2	17.3	0.63	589	1.47	1.30	8.7	2.4	640	51.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255800

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W602821		126.5	<0.002	1.36	11.65	8.8	1	3.2	159.0	0.57	0.32	10.85	0.220	2.33	4.0	61
W602822		131.5	0.002	0.89	7.14	11.2	<1	4.1	287	0.58	0.18	10.40	0.253	2.15	3.2	70
W602823		125.0	<0.002	1.08	12.50	10.5	1	3.2	207	0.58	0.81	11.10	0.252	2.06	3.9	69
W602824		180.0	<0.002	2.16	20.3	11.1	<1	6.1	83.2	0.59	0.44	15.05	0.250	2.96	8.0	69
W602825		209	<0.002	3.52	6.44	10.8	1	7.8	86.6	0.58	0.84	12.00	0.231	2.81	7.0	67
W602826		126.0	<0.002	1.22	6.26	10.6	1	4.7	279	0.71	0.50	11.70	0.263	2.26	4.6	73
W602827		115.5	<0.002	1.03	6.37	9.9	<1	4.5	267	0.69	0.49	10.85	0.259	2.18	5.3	71
W602828		112.5	<0.002	1.43	35.0	11.8	1	5.5	108.0	0.62	0.61	11.65	0.275	2.30	4.3	79
W602829		117.0	<0.002	2.68	20.9	9.7	1	5.6	127.5	0.53	3.05	8.55	0.238	2.31	4.6	81
W602830		101.0	<0.002	0.72	19.10	9.4	<1	2.8	86.8	0.50	0.38	9.74	0.225	2.10	2.6	62
W602831		130.5	<0.002	1.53	20.5	11.6	1	3.5	59.2	0.66	0.57	12.80	0.278	2.51	4.5	76
W602832		147.5	<0.002	1.45	22.3	11.5	1	5.0	60.5	0.59	0.39	10.90	0.266	2.45	3.3	72
W602833		113.0	<0.002	1.14	25.3	10.9	2	5.2	169.5	0.55	0.23	10.15	0.244	1.68	3.3	69
W602834		120.0	0.002	1.68	11.25	11.2	1	5.2	169.5	0.60	1.03	9.13	0.266	1.91	4.2	75
W602835		0.9	<0.002	0.01	0.09	0.2	1	<0.2	79.0	<0.05	<0.05	0.10	0.005	0.02	0.1	1
W602836		94.1	0.002	0.32	2.47	10.9	1	2.8	364	0.61	0.13	8.89	0.272	1.57	3.1	74
W602837		99.8	0.003	0.48	2.09	11.2	1	3.0	381	0.58	0.55	9.83	0.274	1.46	3.4	76
W602838		90.5	<0.002	1.33	11.35	10.9	2	2.6	283	0.53	0.26	7.69	0.264	1.53	2.8	74
W602839		83.5	<0.002	0.44	1.27	10.9	1	1.9	426	0.57	0.14	9.19	0.281	1.23	2.7	75
W602840		90.9	<0.002	0.86	1.73	10.8	2	2.6	358	0.60	0.25	9.33	0.271	1.41	3.0	75
W602841		84.1	<0.002	0.64	2.74	10.6	2	2.4	372	0.59	0.39	9.70	0.265	1.28	2.9	73
W602842		26.2	0.018	6.26	33.0	12.6	15	7.0	153.5	0.22	0.65	3.33	0.201	2.45	6.4	389
W602843		94.2	<0.002	0.77	2.91	11.0	1	2.6	321	0.63	0.23	10.40	0.273	1.25	3.2	78
W602844		104.0	<0.002	1.52	2.72	9.7	1	3.5	295	0.57	0.41	10.65	0.250	1.63	3.9	69
W602845		96.2	<0.002	2.06	3.75	9.4	3	3.5	248	0.56	0.85	8.28	0.238	1.59	3.9	65
W602846		90.6	<0.002	0.39	1.04	10.5	1	1.7	412	0.59	0.10	10.70	0.256	1.30	3.2	70
W602847		95.8	<0.002	0.67	4.93	10.0	1	2.9	356	0.62	0.93	10.80	0.251	1.60	3.3	69
W602848		197.5	<0.002	2.30	6.98	10.6	1	9.1	34.4	0.53	0.63	14.10	0.224	3.36	4.8	64
W602849		175.5	<0.002	8.41	47.7	8.5	2	15.1	58.0	0.36	2.79	11.90	0.131	2.12	2.9	54
W602850		168.5	<0.002	8.07	43.9	8.0	2	14.2	59.4	0.33	2.20	11.85	0.134	1.92	2.6	56
W602851		191.0	<0.002	2.47	78.3	11.3	1	6.9	52.9	0.55	2.63	14.80	0.248	2.91	5.6	75
W602852		175.5	<0.002	3.23	22.8	10.3	1	7.8	67.6	0.53	1.91	13.65	0.227	2.43	4.8	66
W602853		188.5	<0.002	3.58	37.5	9.3	2	9.0	60.2	0.49	2.94	12.90	0.210	2.57	5.4	61
W602854		136.5	0.002	7.67	103.5	7.7	1	9.9	60.6	0.36	0.69	7.89	0.159	2.03	5.0	55
W602855		137.5	<0.002	1.01	11.80	9.5	1	4.6	165.5	0.56	0.39	12.00	0.229	2.30	4.6	66
W602856		170.0	<0.002	5.95	52.1	6.9	2	8.4	28.5	0.39	0.75	11.45	0.150	2.53	7.0	51
W602857		135.0	<0.002	0.77	54.5	10.3	1	3.0	85.3	0.63	0.92	17.85	0.258	1.78	3.7	70
W602858		107.0	<0.002	0.38	17.60	9.4	1	2.9	160.0	0.64	0.12	13.05	0.252	1.42	3.6	67
W602859		106.0	<0.002	0.31	4.90	10.7	1	3.0	234	0.67	0.07	12.85	0.276	1.34	3.2	74
W602860		118.5	<0.002	0.59	2.67	10.8	1	4.1	245	0.70	0.23	12.80	0.271	1.53	4.8	74

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255800

Sample Description	Method / Analyte / Units / LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
W602821		2.6	12.7	196	27.1	0.125
W602822		2.3	14.0	93	30.2	0.045
W602823		1.2	12.6	182	26.6	0.113
W602824		5.3	13.0	345	29.0	0.112
W602825		4.8	10.9	240	25.0	0.079
W602826		1.8	14.9	200	31.1	0.050
W602827		1.7	13.6	221	30.8	0.037
W602828		2.3	14.7	404	26.4	0.054
W602829		2.2	17.6	400	20.2	0.098
W602830		2.2	14.6	223	21.4	0.021
W602831		2.0	13.4	89	24.8	0.034
W602832		2.2	13.0	256	21.7	0.053
W602833		2.1	19.2	636	21.6	0.133
W602834		2.9	15.9	79	23.2	0.054
W602835		<0.1	2.4	6	2.0	<0.005
W602836		5.0	15.1	204	24.1	0.041
W602837		1.9	15.3	185	23.5	0.054
W602838		1.3	14.8	59	21.1	0.020
W602839		1.1	15.5	51	21.9	0.020
W602840		1.1	14.9	164	22.3	0.032
W602841		1.2	15.1	92	22.8	0.035
W602842		6.7	12.4	7910	29.2	1.460
W602843		1.0	16.0	56	27.4	0.022
W602844		1.3	14.4	68	23.5	0.033
W602845		1.2	14.8	64	25.6	0.024
W602846		0.6	15.5	43	26.5	0.016
W602847		0.9	14.8	92	29.7	0.079
W602848		8.0	9.3	1200	24.5	0.170
W602849		7.3	7.9	559	25.8	0.716
W602850		6.8	7.5	497	22.0	0.705
W602851		4.0	12.3	228	28.7	0.619
W602852		5.1	11.5	1500	29.1	0.447
W602853		4.9	11.1	106	26.7	0.429
W602854		6.5	8.7	3300	22.8	1.765
W602855		2.2	14.6	166	30.0	0.077
W602856		6.6	6.9	321	24.0	0.465
W602857		3.7	14.9	158	31.0	0.057
W602858		2.6	15.8	102	32.7	0.030
W602859		5.0	16.9	83	34.2	0.035
W602860		2.5	16.9	96	36.2	0.035

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255800

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255803

Project: Klaza

P.O. No.: 19-110

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255803

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594374		2.48	0.94	7.37	36.7	2010	1.46	3.00	2.49	0.41	47.3	7.4	12	16.20	40.1	3.12
W594375		4.07	0.28	7.83	21.8	2140	1.65	3.38	3.15	0.19	52.5	8.6	12	14.75	36.5	3.55
W594376		7.37	0.32	7.48	24.3	2360	1.57	1.63	2.53	0.30	41.1	5.6	14	12.95	44.5	3.22
W594377		5.59	9.20	7.03	271	850	1.73	3.31	2.55	7.57	49.8	5.3	10	19.35	908	5.46
W594378		8.08	0.20	7.58	9.8	2290	1.63	1.53	2.55	0.13	45.8	6.2	13	8.21	46.1	3.03
W594379		4.99	0.91	8.13	61.3	4200	1.71	1.95	1.26	3.28	61.1	13.3	16	13.15	243	3.73
W594380		3.18	1.92	7.85	142.0	1760	1.85	1.57	0.20	5.00	48.8	11.3	8	29.9	587	4.11
W594381		5.08	0.01	0.07	0.7	30	0.06	0.01	33.4	0.03	1.24	0.7	2	0.09	2.2	0.14
W594382		6.81	0.60	7.87	40.3	2340	1.44	0.92	1.22	13.70	36.8	8.1	11	15.70	116.0	3.35
W594383		5.35	0.97	8.09	69.6	1590	1.41	1.67	1.27	14.40	44.5	11.1	11	14.45	174.5	3.62
W594384		2.71	8.59	7.43	410	80	1.48	17.15	0.74	15.70	42.5	59.8	9	13.65	688	6.93
W594385		3.31	1.46	7.92	127.5	2690	1.53	1.35	0.89	3.83	49.9	11.8	10	16.75	196.0	3.62
W594386		9.99	0.78	8.14	49.5	2580	1.24	1.61	0.63	1.27	39.1	19.1	11	10.85	388	3.59
W594387		7.84	0.88	7.82	90.9	2380	1.28	1.73	1.09	1.08	46.6	10.2	11	12.55	233	3.03
W594388		5.65	0.35	7.86	24.0	1780	1.19	0.87	1.24	4.43	57.5	6.7	11	16.05	31.2	3.32
W594389		0.13	31.5	7.22	153.0	150	0.58	9.77	6.21	33.8	29.5	96.1	124	1.65	7020	9.82
W594390		4.58	0.73	8.56	50.8	2850	1.36	11.85	0.99	0.83	44.8	10.0	11	8.52	251	3.37
W594391		6.58	1.52	6.91	140.0	1440	1.66	0.81	2.99	11.65	41.7	7.4	10	19.95	39.9	3.28
W594392		3.54	4.23	5.91	271	170	1.53	4.57	3.00	9.88	40.6	8.4	8	15.15	67.2	4.61
W594393		5.74	2.01	7.22	106.5	770	1.62	0.85	2.31	1.83	43.4	6.9	10	18.55	124.0	3.23
W594394		3.86	4.79	6.03	240	250	1.54	2.46	3.40	20.2	43.7	7.7	8	17.85	203	3.65
W594395		8.67	0.24	7.38	24.6	2150	1.53	1.24	2.65	0.25	42.9	7.9	11	14.75	36.7	3.18
W594396		3.60	0.27	6.97	33.0	1130	1.61	0.57	2.67	0.37	36.1	6.5	9	19.25	35.5	2.68
W594397		4.71	0.11	6.51	29.7	1360	1.89	0.29	2.27	0.14	38.8	4.4	6	22.9	4.8	2.38
W594398		1.79	0.24	6.74	20.2	1830	2.08	0.16	3.07	0.30	73.8	5.9	13	25.2	6.3	2.31
W594399		1.37	0.15	6.97	17.8	2080	2.11	0.18	3.38	0.34	61.2	5.4	13	25.5	9.7	2.43
W594400		4.41	0.41	6.57	78.8	1360	1.76	1.12	3.21	0.27	46.2	8.4	11	29.9	65.5	2.83
W594501		3.21	0.17	6.68	73.4	1140	1.61	1.69	2.93	0.20	42.5	5.2	9	19.80	48.0	2.89
W594502		5.71	0.23	6.89	58.7	1740	1.55	2.66	2.80	0.07	39.1	9.4	10	20.2	62.5	3.10
W594503		5.70	0.28	7.08	33.4	1860	1.51	2.34	2.29	0.06	40.6	7.8	12	17.25	67.4	3.30
W594504		3.46	0.32	6.66	31.8	1550	1.38	0.87	3.63	0.11	39.8	4.6	15	17.05	62.1	3.16
W594505		3.19	0.58	7.19	45.9	1080	1.54	2.82	2.30	0.10	39.6	8.4	16	12.40	37.5	3.74
W594506		0.26	32.5	6.69	147.0	150	0.53	9.28	5.88	32.7	25.6	91.8	123	1.57	6680	9.63
W594507		5.00	0.36	6.93	18.5	2200	1.59	1.17	2.57	0.13	34.5	5.7	14	12.60	83.8	3.10
W594508		5.33	2.08	7.16	79.1	1620	1.66	1.40	2.21	1.85	44.6	8.3	12	16.30	149.5	4.33
W594509		4.74	6.42	7.13	318	670	1.68	1.08	1.74	55.1	48.3	7.4	12	18.65	210	5.00
W594510		<0.02	6.23	7.55	312	690	1.66	1.13	1.82	43.6	47.4	7.3	11	18.60	217	5.12
W594511		6.91	0.49	7.01	25.1	1680	1.62	0.55	2.67	0.27	40.2	7.0	12	18.00	77.6	3.05
W594512		3.26	1.83	7.62	89.3	1810	1.74	0.78	2.51	7.73	44.2	9.2	12	17.35	98.6	3.70
W594513		3.25	11.80	7.36	98.0	1400	1.31	1.38	1.90	47.6	43.5	7.2	11	12.60	164.5	3.68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255803

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594374		16.10	0.13	0.9	0.133	2.95	24.3	24.1	0.81	366	0.70	1.01	7.5	2.7	630	38.8
W594375		16.70	0.12	0.9	0.142	2.86	28.2	16.7	1.00	555	0.52	1.71	8.2	3.2	650	17.4
W594376		16.15	0.12	0.9	0.097	3.03	19.9	14.0	0.78	694	0.60	1.48	7.7	2.7	620	28.9
W594377		16.70	0.11	1.1	0.378	3.01	26.6	13.3	1.11	4080	1.07	0.05	7.8	2.7	550	260
W594378		16.25	0.13	1.1	0.120	2.85	22.8	12.2	0.83	439	1.12	1.99	8.0	2.7	610	18.4
W594379		17.50	0.15	1.1	0.101	3.41	36.9	17.9	0.51	447	2.53	1.34	8.1	3.1	640	35.2
W594380		16.65	0.12	1.0	0.629	3.02	29.4	23.8	0.22	236	1.93	0.06	7.1	2.1	590	109.5
W594381		0.26	0.09	<0.1	<0.005	0.02	1.3	1.0	2.15	138	<0.05	0.03	0.1	0.4	70	0.5
W594382		17.35	0.13	1.1	0.116	2.46	17.4	37.0	0.25	599	1.04	0.07	8.7	2.4	660	34.8
W594383		17.40	0.11	1.2	0.158	2.33	22.2	35.6	0.43	571	1.49	0.06	8.7	2.4	670	78.3
W594384		16.60	0.11	1.0	0.378	3.00	20.1	17.4	0.39	425	7.30	0.05	5.4	2.6	630	122.5
W594385		16.70	0.13	0.9	0.136	3.56	26.9	19.5	0.38	781	1.78	0.08	7.3	3.1	600	124.0
W594386		17.00	0.11	1.1	0.172	2.42	19.5	36.3	0.26	370	1.64	0.07	8.5	2.2	640	18.6
W594387		16.35	0.12	1.0	0.134	1.59	24.1	42.7	0.41	399	1.26	0.04	7.8	2.2	620	18.0
W594388		17.00	0.13	1.0	0.118	2.17	30.3	30.2	0.55	471	0.66	0.07	8.3	2.5	630	51.2
W594389		11.75	0.12	0.8	2.53	1.04	15.8	8.4	2.29	932	55.4	0.85	2.8	391	710	8920
W594390		18.10	0.10	1.0	0.189	1.67	22.2	37.1	0.37	431	2.85	0.04	9.0	2.8	700	28.8
W594391		15.00	0.11	0.9	0.190	2.85	21.0	19.0	0.99	1240	0.98	0.05	7.2	2.5	550	360
W594392		13.55	0.11	0.8	0.258	2.58	21.3	21.2	1.07	2060	1.15	0.03	5.6	2.5	440	559
W594393		15.45	0.11	1.0	0.197	2.42	21.8	31.8	0.82	1310	1.49	0.04	7.7	2.5	600	104.5
W594394		13.00	0.10	0.8	0.502	2.48	24.3	20.5	1.11	4200	6.67	0.04	5.9	2.4	480	662
W594395		16.60	0.12	1.0	0.093	2.63	21.5	39.1	0.79	432	1.44	1.07	8.2	2.6	640	19.8
W594396		16.20	0.10	1.1	0.072	1.92	17.5	50.9	0.78	1020	1.09	0.06	8.1	2.2	630	32.6
W594397		17.35	0.12	2.1	0.031	2.73	17.7	32.3	0.59	426	1.75	0.07	9.2	1.8	800	16.3
W594398		17.35	0.16	2.9	0.028	2.75	39.4	21.1	0.94	577	2.26	0.07	11.1	5.2	980	21.9
W594399		16.40	0.13	2.8	0.029	2.84	30.6	21.4	0.96	637	2.27	0.07	11.1	7.0	1000	27.1
W594400		15.40	0.10	1.5	0.066	2.29	23.0	30.5	0.82	466	2.53	0.05	8.5	3.7	710	42.5
W594501		14.60	0.10	1.1	0.062	2.30	21.1	25.7	0.90	484	1.58	1.16	7.6	2.7	640	24.7
W594502		14.80	0.11	0.9	0.073	2.60	19.4	25.8	0.82	375	1.50	1.62	7.7	2.6	600	15.1
W594503		15.55	0.12	0.8	0.098	2.81	20.6	52.5	0.62	241	1.27	1.66	7.9	2.8	610	16.9
W594504		14.15	0.10	0.7	0.114	2.44	20.5	66.3	1.13	376	0.49	1.40	6.4	2.5	580	12.9
W594505		15.50	0.12	0.8	0.174	3.19	20.2	26.0	0.72	278	0.51	1.90	7.5	2.7	610	19.6
W594506		11.15	0.10	0.8	2.52	1.03	13.8	7.6	2.21	868	56.6	0.84	2.7	366	680	8480
W594507		15.30	0.08	1.1	0.110	2.84	16.4	23.3	0.75	345	1.26	1.91	8.5	2.7	590	20.8
W594508		15.35	0.10	1.0	0.120	3.04	22.8	22.0	0.84	777	1.26	1.14	6.9	3.0	570	102.5
W594509		15.50	0.13	0.9	0.435	3.27	25.4	15.0	0.91	1940	1.19	0.06	7.5	2.6	570	1350
W594510		15.40	0.11	0.9	0.402	3.45	25.5	15.1	0.95	2050	1.36	0.06	7.4	2.6	610	1140
W594511		16.00	0.10	1.0	0.078	2.68	19.1	60.2	0.77	553	0.79	1.44	8.1	2.6	620	22.0
W594512		17.00	0.11	1.0	0.126	3.26	22.4	38.1	0.85	528	2.52	1.07	8.2	3.0	700	256
W594513		15.45	0.13	0.9	0.480	2.87	21.8	25.1	0.74	359	1.24	0.53	6.9	2.7	610	1990

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255803

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594374		126.5	<0.002	1.00	5.49	10.3	1	2.8	256	0.58	1.47	10.75	0.261	1.83	3.9	72
W594375		127.5	<0.002	0.87	3.27	11.4	1	2.3	363	0.59	1.18	12.30	0.277	1.75	4.0	76
W594376		123.0	<0.002	0.56	4.64	10.5	1	2.3	326	0.58	0.43	10.75	0.267	1.88	3.7	71
W594377		178.5	<0.002	1.92	32.1	9.7	1	4.4	93.1	0.79	0.28	12.50	0.229	2.64	5.7	64
W594378		111.0	<0.002	0.38	2.85	10.4	1	2.1	368	0.65	0.43	11.90	0.260	1.46	4.6	71
W594379		150.5	<0.002	0.27	7.41	11.7	1	2.6	286	0.66	0.96	16.15	0.256	1.95	5.8	73
W594380		165.5	<0.002	0.18	24.9	10.3	1	5.1	62.5	0.57	2.30	14.15	0.233	2.52	8.2	69
W594381		0.8	<0.002	<0.01	0.10	0.2	2	<0.2	77.5	<0.05	<0.05	0.10	0.005	<0.02	0.1	1
W594382		106.0	<0.002	0.37	22.0	11.3	1	2.2	106.0	0.73	0.40	12.05	0.279	1.66	3.4	76
W594383		110.0	<0.002	0.85	19.80	12.1	1	2.6	121.0	0.69	0.79	12.85	0.276	1.71	2.7	75
W594384		178.5	<0.002	5.30	62.1	10.3	4	5.5	57.8	0.43	9.50	11.55	0.188	2.44	2.9	68
W594385		174.5	<0.002	1.09	33.0	10.3	1	2.6	84.1	0.56	0.76	12.30	0.250	2.56	4.3	73
W594386		103.0	<0.002	0.50	28.2	11.0	1	2.7	115.5	0.66	0.88	12.35	0.272	1.31	2.4	72
W594387		75.9	<0.002	0.53	61.5	10.3	1	2.8	77.4	0.60	0.90	12.30	0.264	0.97	2.4	70
W594388		93.4	<0.002	0.27	23.2	11.0	1	2.4	78.3	0.64	0.24	14.95	0.267	1.10	1.7	74
W594389		30.1	0.018	6.56	31.9	12.3	14	6.5	155.5	0.22	0.61	3.40	0.209	2.31	5.3	406
W594390		82.1	<0.002	0.91	38.5	11.8	1	3.0	60.4	0.74	6.38	13.20	0.296	1.08	2.5	77
W594391		117.5	<0.002	1.32	13.50	9.4	1	3.3	140.0	0.58	0.24	10.35	0.238	2.22	2.6	66
W594392		159.0	<0.002	4.00	31.5	8.1	1	3.5	99.9	0.44	0.30	10.30	0.181	2.63	3.7	55
W594393		106.5	<0.002	1.08	35.8	9.9	<1	2.4	111.5	0.59	0.36	11.75	0.252	2.19	3.6	67
W594394		136.0	<0.002	2.25	49.0	8.0	<1	3.8	145.5	0.47	0.99	11.15	0.196	2.63	5.2	53
W594395		96.1	<0.002	0.57	5.44	11.0	1	2.0	336	0.60	0.57	10.85	0.270	1.38	2.8	74
W594396		65.4	<0.002	0.26	9.91	9.3	1	2.4	197.0	0.62	0.17	9.43	0.261	1.42	2.4	67
W594397		88.5	<0.002	0.07	4.53	4.6	<1	1.4	162.5	0.64	<0.05	6.68	0.297	1.72	4.1	42
W594398		106.0	<0.002	0.31	3.13	5.2	1	1.7	222	0.68	0.07	10.20	0.272	1.65	6.4	44
W594399		84.8	<0.002	0.28	3.33	5.0	1	1.7	238	0.70	<0.05	8.88	0.275	1.59	6.1	47
W594400		79.9	<0.002	0.97	10.30	7.5	<1	3.0	152.5	0.59	0.53	9.64	0.256	1.58	5.0	59
W594501		81.7	<0.002	0.65	5.96	8.1	1	2.0	281	0.53	1.04	8.55	0.256	1.42	4.7	60
W594502		92.0	<0.002	0.78	4.18	10.1	1	1.8	365	0.56	1.76	9.44	0.254	1.41	3.4	69
W594503		104.0	<0.002	1.53	2.11	10.6	1	2.6	324	0.53	1.36	9.34	0.253	1.54	3.2	71
W594504		86.0	<0.002	0.54	2.05	9.4	1	2.3	355	0.49	0.44	8.27	0.238	1.39	3.4	67
W594505		120.5	<0.002	1.97	1.49	10.9	1	3.2	337	0.56	0.73	8.95	0.252	1.76	3.7	72
W594506		23.8	0.017	6.40	31.7	11.8	13	6.3	152.0	0.21	0.68	2.85	0.206	2.17	5.3	397
W594507		94.2	<0.002	0.56	1.77	10.2	<1	2.2	368	0.79	0.71	9.77	0.256	1.35	4.3	71
W594508		143.0	<0.002	1.37	4.93	10.3	<1	3.2	268	0.61	0.57	13.15	0.239	1.91	5.1	68
W594509		210	<0.002	2.46	10.50	10.6	<1	4.6	84.8	0.58	0.51	12.90	0.239	2.66	6.8	70
W594510		211	<0.002	2.38	10.10	10.4	1	4.5	86.5	0.57	0.66	12.40	0.253	2.60	6.7	73
W594511		94.2	<0.002	0.48	4.19	10.2	1	2.5	398	0.61	0.20	10.70	0.258	1.43	3.4	71
W594512		151.5	<0.002	1.45	11.85	11.5	1	3.2	324	0.54	0.31	9.55	0.268	1.88	3.8	77
W594513		113.5	<0.002	1.65	14.35	10.6	1	3.0	191.5	0.52	0.71	10.20	0.251	1.42	2.8	72

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255803

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594374		1.7	14.2	48	23.4	0.262
W594375		1.6	16.9	40	24.4	0.085
W594376		1.8	13.9	57	24.1	0.043
W594377		7.0	14.2	754	24.9	0.155
W594378		0.7	16.8	35	25.4	0.045
W594379		2.9	22.3	270	29.3	0.088
W594380		8.6	16.7	878	25.4	0.108
W594381		0.1	2.2	6	1.3	<0.005
W594382		3.8	13.7	628	27.5	0.030
W594383		3.1	15.3	502	27.8	0.065
W594384		4.4	11.3	649	23.9	1.175
W594385		3.8	15.0	401	24.7	0.112
W594386		7.8	13.9	160	27.3	0.093
W594387		6.3	14.9	82	23.8	0.108
W594388		8.7	18.3	187	24.3	0.031
W594389		5.4	12.9	8200	27.7	1.590
W594390		5.6	14.9	133	26.0	0.189
W594391		2.5	13.9	552	21.6	0.111
W594392		4.3	11.4	696	18.8	0.286
W594393		5.9	14.1	165	24.8	0.076
W594394		5.3	12.2	1680	21.3	0.408
W594395		0.9	15.4	53	27.2	0.039
W594396		1.8	13.9	68	27.0	0.013
W594397		1.2	10.4	71	65.1	<0.005
W594398		1.0	13.5	76	109.5	<0.005
W594399		1.0	12.8	88	109.5	<0.005
W594400		1.7	12.8	58	51.4	0.086
W594501		1.1	13.6	52	32.8	0.036
W594502		1.0	14.6	34	23.1	0.040
W594503		1.2	13.2	28	21.1	0.052
W594504		1.0	13.1	34	19.3	0.042
W594505		1.9	13.5	30	20.9	0.115
W594506		5.7	12.1	7750	27.9	1.540
W594507		1.3	14.7	39	25.8	0.081
W594508		3.2	13.7	190	23.8	0.226
W594509		6.6	12.1	3810	22.7	0.729
W594510		6.3	11.9	3190	23.8	0.693
W594511		1.3	13.9	59	25.3	0.040
W594512		3.0	13.8	548	26.8	0.129
W594513		1.5	12.7	3420	23.1	0.208

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255803

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255805

Project: Klaza

P.O. No.: 19-109

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255805

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W594334		4.99			0.41	7.23	106.0	2120	1.56	0.60	2.55	3.10	45.2	9.4	14	12.15
W594335		2.05			1.77	7.47	95.7	2040	1.54	0.55	2.25	2.74	45.0	8.1	11	15.45
W594336		9.52			0.57	6.97	78.4	2220	1.60	0.87	2.47	0.75	43.9	8.3	15	6.38
W594337		3.22			5.16	6.91	687	1890	1.47	0.99	2.28	3.05	39.5	6.7	13	12.30
W594338		4.86			0.01	0.07	<0.2	30	0.05	0.05	33.8	0.02	1.08	0.5	2	0.05
W594339		5.59			2.89	7.54	903	1640	1.53	0.83	2.57	8.23	49.7	23.0	13	10.40
W594340		5.83			1.08	7.28	130.0	2350	1.36	1.08	2.69	0.38	43.9	11.9	14	7.57
W594341		1.05			51.2	6.73	4790	520	1.25	1.20	2.17	10.00	52.3	13.0	13	13.35
W594342		3.96			0.55	7.08	97.3	2380	1.43	0.65	2.42	0.87	40.1	9.9	15	8.10
W594343		2.43			1.21	7.21	1500	2020	1.52	1.52	2.00	1.28	51.3	27.3	14	11.20
W594344		1.29			1.00	7.16	856	2150	1.49	1.55	2.01	0.85	47.1	29.6	14	10.65
W594345		3.07			2.34	6.99	1765	850	1.42	1.96	1.94	1.74	44.0	20.0	12	12.70
W594346		8.71			1.55	7.30	233	2110	1.40	2.34	2.02	2.98	43.7	25.1	13	8.01
W594347		10.10			0.48	7.44	36.6	2720	1.52	0.94	2.50	0.42	47.1	15.4	15	7.26
W594348		3.13			1.22	7.49	109.5	1970	1.42	1.78	2.23	0.23	37.0	38.0	11	10.95
W594349		6.07			0.93	7.16	88.3	2130	1.44	1.13	2.35	1.53	44.4	18.0	13	7.14
W594350		3.80			0.47	7.24	36.8	2530	1.40	1.07	2.47	0.40	33.3	13.6	14	6.80
W594351		4.83			0.47	7.45	19.1	3170	1.60	1.20	2.42	0.11	46.3	13.9	15	5.28
W594352		4.22			0.47	7.60	23.8	2540	1.49	0.88	2.47	0.21	44.6	7.8	16	8.41
W594353		4.90			0.19	7.41	12.0	3270	1.70	0.60	2.35	0.62	39.5	4.8	15	9.16
W594354		0.26	110	1.095	>100	5.44	251	420	0.66	4.72	1.41	23.8	19.60	12.4	64	0.88
W594355		5.02			0.15	7.30	13.5	3090	1.50	0.77	2.50	0.11	44.6	6.7	13	9.84
W594356		4.21			0.37	7.30	21.7	2400	1.54	0.65	2.85	0.10	43.2	6.7	12	15.30
W594357		3.42			0.61	7.31	27.8	1910	1.39	1.06	2.54	0.33	43.0	6.5	12	13.85
W594358		3.46			0.10	7.85	5.1	2250	1.58	0.25	2.61	0.08	44.9	5.6	14	5.97
W594359		2.57			0.70	7.90	19.7	2170	1.51	2.84	2.89	0.13	44.5	10.9	15	7.71
W594360		4.36			1.17	7.53	20.9	1920	1.32	7.95	2.49	0.12	46.3	7.6	13	8.65
W594361		5.34			3.33	7.23	749	340	1.46	6.61	2.35	2.49	47.9	9.5	11	15.50
W594362		3.31			0.35	7.60	19.5	1150	1.53	1.48	2.41	0.24	51.4	8.5	15	8.41
W594363		0.91			2.18	7.51	88.6	50	0.99	6.75	0.26	0.22	24.1	8.9	13	5.48
W594364		0.99			2.15	7.13	82.0	50	0.97	7.07	0.30	0.17	12.25	8.6	16	5.30
W594365		1.87			2.75	7.63	102.5	170	1.50	5.46	1.70	0.96	49.3	6.4	12	12.75
W594366		3.00			2.16	7.49	71.7	150	1.44	8.91	2.06	0.58	46.9	6.8	13	13.50
W594367		0.25			41.7	5.80	2760	50	1.07	35.2	1.71	47.3	32.8	17.3	22	10.40
W594368		4.40			0.82	7.73	40.6	1640	1.54	2.50	2.40	0.33	45.7	5.5	12	15.70
W594369		2.82			2.01	8.04	62.9	1270	1.80	3.50	2.75	0.52	50.0	6.4	12	23.7
W594370		5.72			0.24	7.67	11.0	2460	1.55	2.33	2.58	0.08	39.8	6.5	15	9.32
W594371		4.09			2.34	7.36	38.3	1810	1.50	2.33	2.73	1.16	45.4	6.8	12	15.10
W594372		4.38			0.21	7.85	8.5	2120	1.52	0.71	2.57	0.10	58.0	6.1	15	7.48
W594373		3.78			0.39	7.43	32.0	2190	1.50	0.95	2.89	0.27	46.2	6.0	14	11.15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255805

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W594334		25.3	3.10	15.55	0.11	1.2	0.102	3.05	22.5	14.0	0.76	520	0.65	2.00	7.8	2.9
W594335		35.5	3.10	16.20	0.12	1.0	0.132	3.08	22.7	18.7	0.77	451	0.68	1.10	7.9	2.5
W594336		27.7	3.00	15.65	0.12	1.0	0.100	2.81	21.7	13.0	0.78	416	0.76	2.15	8.0	3.0
W594337		59.4	3.43	15.05	0.12	1.0	0.118	3.44	19.3	10.7	0.72	795	0.44	1.07	7.5	2.6
W594338		1.1	0.12	0.22	0.05	<0.1	0.005	0.02	1.2	0.8	1.94	127	<0.05	0.03	0.1	<0.2
W594339		44.2	3.44	16.10	0.11	1.1	0.182	3.19	25.1	9.4	0.85	886	1.16	1.68	8.1	2.8
W594340		95.7	3.15	15.65	0.10	1.0	0.129	3.15	21.8	12.0	0.85	486	0.69	2.11	7.9	2.8
W594341		383	4.70	16.25	0.11	1.0	0.285	3.66	27.1	9.8	0.84	532	1.41	0.78	7.1	2.6
W594342		56.8	2.90	15.60	0.09	1.0	0.098	3.00	20.0	10.6	0.74	361	0.58	2.04	8.0	2.7
W594343		141.5	3.43	17.80	0.11	1.1	0.154	3.65	25.4	14.9	0.75	433	0.80	1.37	7.6	2.8
W594344		116.5	3.33	15.90	0.11	1.0	0.148	3.50	23.5	11.9	0.73	440	0.90	1.60	7.5	2.9
W594345		124.5	4.40	15.30	0.10	0.9	0.154	3.17	22.2	12.5	0.72	372	0.80	1.21	7.7	2.9
W594346		306	3.49	16.00	0.10	1.0	0.186	3.65	21.6	10.8	0.75	352	2.24	1.82	7.3	3.1
W594347		100.0	3.33	16.15	0.10	0.9	0.122	3.00	22.9	12.0	0.86	349	0.55	1.99	8.0	2.8
W594348		267	3.27	16.05	0.11	1.0	0.128	3.28	18.9	14.3	0.72	383	20.7	1.14	6.7	3.1
W594349		133.0	3.40	16.25	0.10	1.0	0.164	3.24	22.3	14.5	0.81	484	0.62	1.68	7.5	2.8
W594350		79.4	2.28	15.70	0.10	1.0	0.087	3.46	16.4	9.1	0.58	273	2.87	1.34	6.8	3.0
W594351		232	3.51	16.45	0.10	1.0	0.168	3.09	23.9	12.7	0.88	341	0.67	1.92	7.6	2.9
W594352		100.5	3.31	15.55	0.11	1.1	0.101	2.95	22.3	13.0	0.90	334	1.17	2.03	7.9	2.7
W594353		17.2	2.35	15.55	0.11	1.1	0.146	3.35	19.1	11.5	0.74	413	0.82	1.91	8.0	2.6
W594354		5980	5.77	11.65	0.07	1.3	0.433	1.15	9.3	11.8	1.13	1690	18.90	1.64	3.1	27.7
W594355		29.1	3.00	15.55	0.10	1.1	0.143	3.09	23.1	11.4	0.82	421	0.90	1.83	7.5	3.2
W594356		11.9	3.43	15.95	0.12	1.1	0.091	3.02	21.3	10.4	0.83	614	1.08	1.55	8.1	3.0
W594357		30.1	2.99	15.85	0.10	1.1	0.127	3.01	22.3	16.9	0.85	705	1.72	1.17	7.8	2.7
W594358		8.2	3.24	16.45	0.11	1.2	0.074	2.81	23.2	16.6	0.92	466	0.99	2.42	8.5	3.0
W594359		45.7	3.85	16.45	0.11	1.0	0.090	2.84	22.8	15.9	0.93	473	0.56	2.16	8.1	3.2
W594360		70.3	3.13	15.60	0.13	0.9	0.111	3.13	23.9	12.0	0.91	335	0.52	1.61	7.0	2.6
W594361		29.9	4.22	16.35	0.12	0.9	0.108	3.63	25.4	11.2	1.00	640	0.46	0.06	6.0	2.9
W594362		17.2	3.27	16.65	0.12	1.0	0.090	3.47	26.6	13.8	0.82	532	0.44	1.44	6.4	2.9
W594363		14.9	7.11	20.9	0.11	0.9	0.149	3.71	10.6	5.5	0.36	176	2.07	0.06	5.6	2.9
W594364		13.3	6.88	19.15	0.09	0.8	0.138	3.57	4.9	5.3	0.36	203	0.97	0.06	5.2	2.9
W594365		27.1	5.91	18.00	0.12	0.9	0.238	3.70	26.1	6.4	0.80	1780	0.45	0.04	5.9	2.7
W594366		17.2	5.86	17.15	0.11	0.9	0.239	3.83	24.1	10.4	0.87	1010	0.38	0.20	6.1	2.9
W594367		1210	9.56	14.00	0.10	0.8	1.565	2.80	16.3	15.9	0.71	2380	17.40	0.06	4.5	14.3
W594368		80.3	3.12	16.50	0.10	1.1	0.158	3.15	23.5	19.6	0.84	1430	0.43	0.96	7.8	2.7
W594369		98.7	3.54	17.80	0.11	1.0	0.171	3.35	25.2	22.5	0.98	1620	0.81	0.21	8.4	3.1
W594370		71.8	3.39	16.60	0.10	0.9	0.171	3.00	19.9	12.7	0.88	380	0.50	2.03	7.8	3.0
W594371		106.5	4.09	16.30	0.10	0.9	0.199	3.30	23.4	21.6	1.00	970	0.60	0.82	7.0	2.7
W594372		16.5	3.62	16.75	0.12	1.0	0.101	2.94	31.7	15.2	0.93	566	0.46	2.06	7.8	3.1
W594373		58.9	3.22	16.55	0.12	1.0	0.137	3.05	23.6	14.4	0.76	412	0.61	1.86	7.9	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255805

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W594334		600	37.1	112.5	<0.002	0.44	17.95	10.6	1	2.0	351	0.62	0.12	11.55	0.258	1.31
W594335		600	172.5	126.0	<0.002	0.72	30.0	11.1	1	2.8	219	0.62	0.08	12.60	0.260	1.55
W594336		590	49.7	101.0	<0.002	0.41	7.38	10.4	1	2.0	361	0.62	0.22	11.35	0.250	1.29
W594337		570	787	146.0	<0.002	1.35	29.9	9.9	1	4.7	238	0.57	0.24	10.75	0.245	1.85
W594338		70	1.1	0.5	<0.002	<0.01	0.11	0.2	1	<0.2	79.7	<0.05	<0.05	0.11	0.005	<0.02
W594339		620	392	161.5	<0.002	1.13	21.5	10.5	1	4.3	292	0.65	0.12	13.65	0.264	2.07
W594340		610	72.1	115.0	<0.002	0.61	13.60	10.4	<1	2.1	362	0.62	0.11	11.60	0.265	1.47
W594341		560	8140	197.5	<0.002	3.35	255	9.7	1	12.5	173.0	0.54	0.24	11.70	0.232	2.32
W594342		570	77.1	105.0	<0.002	0.48	4.39	9.9	1	2.1	368	0.61	0.10	10.70	0.248	1.32
W594343		620	82.0	165.0	<0.002	1.51	10.00	11.3	<1	6.9	234	0.62	0.35	14.55	0.252	2.01
W594344		580	54.9	159.5	<0.002	1.35	8.26	11.0	<1	5.8	238	0.58	0.45	12.70	0.243	1.94
W594345		570	112.0	146.0	<0.002	2.50	10.00	10.2	1	4.3	241	0.57	0.66	11.65	0.245	1.81
W594346		600	90.2	159.0	<0.002	1.74	7.36	10.5	1	3.3	248	0.53	1.02	10.75	0.236	1.99
W594347		630	24.5	107.5	<0.002	0.83	4.09	11.3	1	2.3	375	0.56	0.36	11.60	0.267	1.44
W594348		600	35.8	161.5	<0.002	1.67	8.66	10.5	1	2.2	157.5	0.55	0.35	11.95	0.242	2.08
W594349		610	38.3	136.5	<0.002	1.34	8.40	10.6	1	2.9	247	0.57	0.27	11.10	0.249	1.82
W594350		610	62.0	136.5	<0.002	1.27	21.5	10.1	1	3.0	229	0.54	0.28	11.80	0.233	1.82
W594351		620	12.1	105.0	<0.002	1.22	2.53	10.7	1	2.7	380	0.58	0.31	11.35	0.253	1.49
W594352		610	14.3	98.4	<0.002	0.50	4.58	11.1	1	2.0	388	0.63	0.26	12.80	0.265	1.25
W594353		640	30.6	115.5	<0.002	0.63	2.98	11.3	1	2.4	312	0.62	0.13	11.35	0.261	1.79
W594354		450	10000	28.4	0.010	2.32	451	12.0	2	1.7	190.0	0.21	1.23	1.90	0.241	0.46
W594355		590	14.3	105.5	<0.002	0.75	3.52	10.5	1	2.2	353	0.60	0.22	11.35	0.252	1.53
W594356		610	16.7	112.0	<0.002	0.86	3.48	11.3	1	2.6	322	0.62	0.20	12.35	0.261	1.49
W594357		610	33.9	127.5	<0.002	0.74	6.25	10.9	1	2.5	241	0.63	0.25	12.05	0.253	1.86
W594358		640	15.2	99.2	<0.002	0.05	1.87	11.5	1	1.8	420	0.71	<0.05	12.80	0.275	1.20
W594359		670	20.0	111.5	<0.002	0.98	1.86	11.9	1	2.0	360	0.61	0.24	11.05	0.275	1.35
W594360		630	24.2	127.5	<0.002	1.09	1.94	10.8	1	2.8	292	0.51	2.00	11.05	0.256	1.74
W594361		610	340	189.5	<0.002	3.33	8.25	10.2	1	4.3	126.0	0.47	1.41	11.00	0.222	3.08
W594362		630	18.7	157.0	<0.002	1.72	2.41	10.9	1	3.0	304	0.49	0.41	11.20	0.236	1.98
W594363		620	34.8	146.0	<0.002	7.59	1.97	11.6	1	12.4	12.0	0.44	0.70	9.13	0.213	2.01
W594364		550	30.7	132.0	<0.002	7.33	1.85	10.6	1	11.3	12.1	0.40	0.73	8.90	0.203	1.83
W594365		590	43.7	207	<0.002	4.91	6.16	11.1	1	7.8	48.7	0.46	1.00	13.60	0.224	2.78
W594366		620	35.5	205	<0.002	4.56	4.73	10.8	1	6.1	120.0	0.48	1.35	11.45	0.222	2.79
W594367		460	1700	145.5	0.004	8.18	109.0	8.3	2	10.2	64.9	0.39	0.68	8.23	0.175	2.19
W594368		630	25.4	131.0	<0.002	0.87	9.81	10.9	1	2.4	228	0.58	0.23	11.20	0.270	2.37
W594369		660	56.9	142.5	<0.002	1.13	23.9	11.3	1	2.9	141.0	0.64	0.43	12.25	0.283	2.67
W594370		630	14.2	108.5	<0.002	0.53	2.77	10.9	1	2.3	374	0.62	0.51	10.75	0.275	1.67
W594371		610	52.5	151.0	<0.002	0.92	7.16	10.6	1	3.3	213	0.53	1.15	11.20	0.245	2.30
W594372		610	16.3	121.5	<0.002	0.28	1.77	11.5	1	2.2	365	0.59	0.07	15.25	0.265	1.45
W594373		620	26.6	114.5	<0.002	0.55	4.28	11.1	1	2.1	356	0.63	0.30	11.95	0.269	1.53

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255805

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W594334		4.3	71	0.9	14.8	180	31.1	0.026
W594335		4.1	73	2.0	15.5	155	28.9	0.102
W594336		4.3	70	1.5	14.8	60	28.9	0.051
W594337		3.9	69	2.0	12.5	198	26.6	0.326
W594338		0.5	1	<0.1	2.2	4	1.4	<0.005
W594339		5.2	73	2.0	14.8	361	28.9	0.126
W594340		4.3	73	1.1	14.2	52	27.5	0.050
W594341		4.2	66	3.4	12.6	404	26.9	2.69
W594342		3.7	67	0.7	13.8	62	27.6	0.027
W594343		5.2	74	2.7	13.4	80	29.2	0.300
W594344		4.4	73	2.1	13.3	64	26.6	0.212
W594345		3.9	69	2.2	13.0	109	25.5	0.559
W594346		4.1	71	2.0	12.8	155	27.6	0.275
W594347		3.7	76	1.1	15.1	47	25.3	0.041
W594348		4.7	73	2.1	13.2	51	27.0	0.140
W594349		4.1	74	2.1	13.0	92	27.8	0.095
W594350		4.8	72	5.1	11.1	35	28.1	0.044
W594351		4.0	75	1.5	14.8	39	28.0	0.058
W594352		4.2	75	0.8	14.7	38	28.1	0.037
W594353		3.8	77	2.3	14.0	83	29.2	0.010
W594354		1.3	81	0.5	13.9	5120	47.8	0.258
W594355		4.0	71	1.6	14.2	37	30.0	0.018
W594356		4.4	72	1.3	14.8	40	28.0	0.016
W594357		5.8	71	2.0	14.7	58	29.3	0.026
W594358		4.0	75	0.5	17.4	36	30.9	<0.005
W594359		3.9	77	0.6	17.2	43	27.8	0.080
W594360		3.4	72	1.1	13.9	31	26.7	0.091
W594361		4.1	67	3.9	12.0	164	26.5	0.395
W594362		3.7	70	2.9	13.2	41	28.8	0.091
W594363		2.7	79	11.9	5.4	23	25.9	0.150
W594364		2.6	73	11.0	4.4	21	24.1	2.84
W594365		5.0	69	7.2	10.9	105	25.3	0.188
W594366		4.1	69	4.6	12.1	69	26.5	0.147
W594367		5.2	58	6.9	9.3	3420	25.3	1.720
W594368		3.8	74	4.0	14.1	44	29.3	0.090
W594369		4.3	75	1.6	14.7	85	30.4	0.084
W594370		3.7	75	0.7	15.2	31	24.1	0.082
W594371		4.2	71	2.6	13.4	138	24.7	0.109
W594372		4.1	72	1.1	17.7	40	29.1	0.016
W594373		4.0	73	1.1	14.5	41	27.6	0.035

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255805

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-23	PUL-31	PUL-QC	SPL-21
	WEI-21			

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255807

Project: Klaza

P.O. No.: 19-108

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255807

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W602781		4.96			0.72	7.50	19.8	2230	1.59	0.95	2.55	0.20	41.3	6.8	11	12.10
W602782		4.71			0.23	7.79	10.1	2330	1.65	0.62	2.68	0.27	47.7	6.9	11	7.55
W602783		4.48			0.11	8.00	7.4	2330	1.62	0.42	2.65	0.19	50.7	6.8	12	7.34
W602784		3.37			0.34	7.75	9.0	2300	1.67	0.72	2.68	0.55	49.5	7.0	11	9.11
W602785		3.78			0.43	7.57	7.5	2260	1.68	0.49	2.58	0.28	48.3	6.2	11	10.40
W602786		5.02			0.35	7.54	9.2	2320	1.58	1.42	2.99	0.23	41.1	6.1	11	12.40
W602787		0.26			41.8	5.94	2710	70	1.11	34.7	1.72	46.2	36.6	17.6	22	10.25
W602788		4.97			0.26	8.08	7.9	2160	1.53	0.66	2.78	0.43	48.0	6.5	10	14.45
W602789		4.75			0.23	7.79	9.5	2370	1.56	0.75	2.60	0.42	45.4	6.4	11	11.00
W602790		5.54			0.34	7.75	13.9	2230	1.63	1.24	2.73	0.31	45.9	6.5	11	16.20
W602791		3.78			0.41	7.75	46.2	2020	1.57	0.62	2.61	0.57	48.3	6.6	10	13.10
W602792		2.53			0.61	7.05	18.6	2420	1.48	1.59	3.70	0.51	45.4	5.8	9	19.05
W602793		1.42			0.51	8.05	6.7	2270	1.62	0.82	2.78	0.40	47.2	6.8	11	11.15
W602794		1.19			0.50	7.59	6.4	2200	1.59	0.91	2.63	0.34	43.1	6.5	11	11.30
W602795		1.40			24.5	6.39	154.0	50	1.19	48.3	2.53	0.54	42.7	15.9	7	15.50
W602796		4.58			0.72	7.72	12.0	2290	1.58	1.47	2.71	0.73	50.6	9.1	10	11.00
W602797		6.92			0.83	7.79	10.8	2240	1.56	1.54	2.28	1.14	49.0	6.3	10	10.85
W602798		3.94			0.40	7.02	9.7	2570	1.71	1.02	1.76	0.25	51.5	5.7	9	16.25
W602799		5.74			0.56	7.12	6.8	2010	1.62	0.84	2.16	0.66	48.3	4.7	10	13.60
W602800		4.94			0.82	7.48	14.2	2410	1.69	1.02	2.34	0.35	52.8	9.8	10	12.85
W602801		5.47			0.49	7.14	11.8	2470	1.66	1.08	2.55	0.36	46.6	8.6	10	10.50
W602802		<0.02			0.46	7.18	11.2	2450	1.70	1.13	2.52	0.34	51.2	8.5	11	10.35
W602803		5.01			0.30	7.35	11.2	2220	1.84	0.77	1.99	0.21	53.0	5.1	10	8.92
W602804		5.25			0.36	7.66	12.8	2290	1.80	1.35	2.21	0.29	56.4	5.6	11	7.98
W602805		4.91			1.80	7.19	15.9	2160	1.68	2.97	2.20	1.10	47.0	6.3	11	10.20
W602806		4.48			0.78	7.30	27.2	1310	1.71	2.03	2.13	1.20	49.9	5.7	10	11.55
W602807		5.19			0.83	7.52	44.7	310	1.60	2.80	2.41	1.18	49.5	5.1	11	13.10
W602808		7.69			0.59	7.78	18.3	2390	1.58	2.07	2.60	0.43	50.7	11.2	12	14.85
W602809		0.26	139	1.385	>100	5.37	240	600	0.74	5.01	1.43	22.8	19.00	10.5	61	0.86
W602810		2.99			0.54	8.17	24.1	2790	1.56	0.80	2.22	0.30	51.5	9.3	11	14.85
W602811		5.37			0.94	8.09	34.0	2190	1.46	3.02	0.82	0.45	55.9	7.9	10	17.80
W602812		2.97			0.89	7.50	41.1	420	1.54	3.70	2.29	0.25	51.5	9.0	11	15.95
W602813		5.48			1.21	7.54	29.1	2450	1.48	3.55	2.26	2.03	50.9	8.0	11	14.00
W602814		5.43			0.67	7.66	29.9	2380	1.52	1.40	2.29	0.34	52.8	12.2	11	11.25
W602815		5.20			0.01	0.09	<0.2	30	0.06	0.02	32.1	<0.02	1.02	0.5	1	0.06
W602816		6.78			0.63	7.79	14.9	2260	1.50	1.07	2.28	0.29	50.8	4.8	11	11.60
W602817		5.56			0.57	7.31	15.2	1480	1.32	4.74	2.36	0.42	44.5	5.9	11	13.20
W602818		5.40			0.27	7.17	11.2	2270	1.46	0.98	2.88	0.27	42.8	6.2	10	16.90
W602819		5.52			0.35	7.53	12.7	1930	1.62	1.40	2.62	0.28	49.1	6.5	11	14.15
W602820		5.06			0.39	7.52	9.7	2330	1.76	0.63	2.55	0.24	47.2	7.1	11	13.70

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255807

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602781		41.3	3.52	16.30	0.11	1.1	0.089	2.96	21.1	14.4	0.79	478	2.27	2.07	8.1	2.7
W602782		70.6	3.28	16.60	0.11	1.2	0.075	2.76	24.3	12.6	0.95	508	3.38	2.55	8.4	2.9
W602783		29.1	3.30	16.45	0.13	1.2	0.068	2.86	26.6	11.7	0.99	490	3.78	2.47	8.4	2.8
W602784		109.5	3.28	16.90	0.11	1.3	0.163	2.79	25.6	13.2	0.95	540	2.54	2.35	8.5	2.8
W602785		253	3.33	16.80	0.11	1.4	0.145	2.86	24.2	14.5	0.95	505	2.18	2.47	8.9	3.0
W602786		67.4	3.37	16.90	0.10	1.2	0.146	2.93	20.6	14.5	0.94	564	2.82	2.31	8.8	2.9
W602787		1180	9.55	13.85	0.10	0.8	1.515	2.77	18.9	15.3	0.72	2350	16.05	0.07	4.4	14.3
W602788		32.1	3.22	17.30	0.10	1.2	0.095	3.02	24.7	21.4	0.83	502	2.96	1.89	8.5	2.7
W602789		42.3	3.32	17.00	0.11	1.3	0.092	2.99	23.5	11.8	0.90	462	2.02	2.33	8.3	2.7
W602790		62.6	3.22	16.75	0.11	1.3	0.161	2.98	23.4	12.5	0.79	486	1.81	2.09	8.2	2.7
W602791		68.3	3.51	16.10	0.11	1.3	0.143	3.18	23.9	11.7	0.88	1840	1.16	1.69	8.1	2.6
W602792		49.8	3.07	15.55	0.10	1.2	0.288	3.64	23.2	16.5	0.66	1390	5.92	0.38	7.8	2.2
W602793		96.2	3.35	16.50	0.11	1.4	0.113	2.99	24.8	10.0	0.88	555	1.57	2.40	8.6	2.7
W602794		91.9	3.22	16.15	0.12	1.3	0.134	2.95	21.6	9.9	0.81	527	1.31	2.29	8.3	2.7
W602795		292	9.01	14.80	0.11	1.1	0.420	2.84	21.8	9.4	0.89	1190	1.17	0.62	6.2	2.9
W602796		55.5	3.55	16.60	0.10	1.3	0.143	2.94	26.5	12.9	0.89	613	4.57	2.26	8.7	2.8
W602797		197.0	3.33	16.00	0.11	1.3	0.194	3.12	26.5	14.5	0.86	535	3.77	1.92	8.4	2.8
W602798		81.6	2.92	14.45	0.06	1.3	0.113	2.41	29.9	16.7	0.78	454	15.15	1.80	7.5	3.8
W602799		103.5	2.66	15.05	0.06	1.3	0.110	2.67	27.3	13.3	0.66	475	7.38	2.09	7.8	2.7
W602800		167.5	2.90	16.10	0.07	1.3	0.267	3.00	29.1	10.4	0.76	526	2.35	2.09	8.6	2.7
W602801		109.5	2.94	15.80	0.05	1.3	0.135	2.75	25.4	11.1	0.77	489	2.65	2.18	8.3	2.8
W602802		101.5	2.90	15.80	0.06	1.2	0.134	2.70	28.9	10.9	0.77	483	2.45	2.13	8.3	2.5
W602803		85.7	2.83	15.75	0.07	1.4	0.149	2.79	29.9	9.3	0.79	401	3.24	2.33	8.6	2.5
W602804		74.8	2.81	16.15	0.07	1.5	0.127	2.91	32.7	10.5	0.83	471	9.10	2.41	8.4	2.5
W602805		273	2.96	15.75	0.07	1.3	0.268	2.72	25.8	11.5	0.84	530	2.43	2.25	8.4	2.5
W602806		180.5	3.16	15.75	0.06	1.2	0.218	2.63	28.4	9.9	0.83	468	4.75	2.12	7.5	2.5
W602807		134.0	4.11	16.35	0.06	0.9	0.376	2.78	27.1	9.8	0.96	519	7.37	1.34	7.1	2.7
W602808		170.0	3.36	16.95	0.07	1.0	0.205	2.54	28.8	12.5	0.98	510	4.96	2.03	7.7	3.0
W602809		6000	5.58	11.50	0.07	1.8	0.450	1.09	9.4	12.5	1.08	1700	21.0	1.58	3.0	25.8
W602810		144.5	3.37	17.30	0.06	1.0	0.122	2.82	28.1	15.4	0.93	475	3.35	2.04	8.6	2.7
W602811		226	3.46	17.35	0.07	1.0	0.267	2.77	32.5	20.1	0.39	542	2.43	0.54	8.4	3.0
W602812		67.2	3.78	16.10	0.07	0.8	0.362	2.81	29.3	10.7	0.86	466	1.27	2.04	7.6	2.8
W602813		169.0	3.20	16.15	0.07	0.9	0.342	2.71	29.7	12.6	0.84	467	1.30	2.20	7.8	2.7
W602814		232	3.45	16.85	0.07	1.0	0.191	2.62	30.6	15.3	0.97	437	0.92	2.22	8.3	2.9
W602815		1.2	0.14	0.27	<0.05	<0.1	<0.005	0.03	1.2	0.8	1.91	119	0.05	0.04	0.1	0.2
W602816		332	3.18	16.75	0.06	1.0	0.203	2.58	28.8	15.6	1.01	421	1.35	2.25	8.1	2.6
W602817		124.5	3.04	15.55	<0.05	1.0	0.264	2.70	25.1	14.1	0.80	363	0.79	2.19	7.8	2.4
W602818		72.4	2.89	15.75	0.06	1.1	0.090	2.39	23.8	14.4	0.83	394	0.83	1.78	8.2	2.5
W602819		76.9	3.08	16.00	0.06	1.1	0.124	2.55	27.9	13.4	0.84	449	1.01	1.96	8.3	2.6
W602820		106.5	3.18	16.70	0.06	1.0	0.082	2.61	25.6	12.5	0.83	488	0.89	2.09	8.7	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255807

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602781		640	20.3	110.0	0.002	0.57	2.74	10.7	1	3.6	330	0.62	0.48	11.20	0.274	1.37
W602782		670	18.4	106.5	0.002	0.07	1.28	11.6	1	2.7	410	0.62	0.14	11.65	0.289	1.17
W602783		650	16.4	108.5	<0.002	0.08	1.01	11.6	1	2.4	418	0.66	0.07	12.85	0.277	1.17
W602784		630	25.2	112.0	<0.002	0.18	1.85	11.7	1	2.7	387	0.69	0.16	13.40	0.272	1.33
W602785		650	17.4	107.0	<0.002	0.08	1.94	11.6	1	2.6	380	0.73	0.05	11.30	0.281	1.30
W602786		670	16.9	116.5	0.004	0.22	2.76	11.8	1	3.2	327	0.67	0.15	10.55	0.291	1.47
W602787		450	1710	152.0	0.002	8.19	106.0	8.2	2	9.6	63.6	0.39	0.71	8.51	0.173	2.07
W602788		650	26.0	119.0	<0.002	0.13	3.27	11.5	1	2.7	316	0.67	0.08	12.35	0.283	1.37
W602789		630	23.1	112.5	<0.002	0.43	2.11	10.7	1	2.4	376	0.67	0.24	12.40	0.271	1.34
W602790		630	21.0	116.0	<0.002	0.52	4.53	11.0	1	2.7	331	0.68	0.52	12.05	0.273	1.43
W602791		620	28.7	129.5	<0.002	0.47	3.73	10.8	1	2.7	305	0.66	<0.05	12.65	0.265	1.82
W602792		590	23.9	146.0	0.004	0.97	8.70	10.1	1	3.1	171.5	0.62	0.22	11.55	0.252	2.43
W602793		650	24.6	108.0	<0.002	0.19	2.14	11.5	1	2.3	398	0.71	0.18	12.65	0.283	1.29
W602794		610	24.2	103.5	<0.002	0.22	2.10	11.1	1	2.4	373	0.68	0.18	12.00	0.267	1.32
W602795		510	295	148.5	<0.002	8.02	10.05	9.7	2	5.4	104.5	0.56	3.31	11.00	0.204	1.96
W602796		650	34.7	115.0	0.002	0.49	1.95	11.6	1	2.6	369	0.68	0.38	12.30	0.282	1.40
W602797		600	44.5	128.5	0.012	0.32	3.79	11.1	1	3.0	286	0.69	0.29	13.80	0.262	1.59
W602798		560	21.5	106.0	0.020	0.12	6.36	9.4	1	3.6	225	0.66	0.07	14.15	0.231	1.42
W602799		510	35.0	114.0	0.011	0.07	3.18	8.7	1	3.4	321	0.66	0.06	15.10	0.216	1.41
W602800		550	24.6	144.0	<0.002	0.38	2.29	9.9	<1	2.9	316	0.73	0.23	16.35	0.235	1.69
W602801		580	21.8	115.5	<0.002	0.31	1.87	10.0	1	3.5	370	0.66	0.24	14.25	0.249	1.52
W602802		570	21.3	122.0	<0.002	0.30	1.79	10.1	<1	3.5	364	0.66	0.26	15.20	0.243	1.53
W602803		560	18.2	129.0	<0.002	0.69	1.47	10.2	1	3.1	357	0.75	0.16	16.70	0.237	1.52
W602804		580	21.9	133.5	<0.002	0.31	1.42	10.2	1	2.6	375	0.72	0.16	17.30	0.242	1.52
W602805		570	44.6	113.5	<0.002	0.61	1.68	10.0	<1	2.9	318	0.70	0.55	14.90	0.238	1.55
W602806		600	41.7	127.5	<0.002	1.55	1.58	10.5	1	3.6	249	0.57	0.79	13.60	0.234	1.72
W602807		670	64.5	148.0	0.002	2.88	2.10	11.4	2	5.7	216	0.52	0.75	11.30	0.261	2.20
W602808		700	26.7	119.5	<0.002	1.15	1.91	12.3	1	3.2	346	0.51	0.80	10.70	0.285	1.60
W602809		460	>10000	28.8	0.010	2.28	455	11.7	2	1.9	188.0	0.20	1.26	1.92	0.235	0.51
W602810		700	21.6	119.0	<0.002	0.51	3.35	12.9	1	2.8	408	0.53	0.20	10.55	0.299	1.51
W602811		710	29.4	148.0	<0.002	1.33	7.85	12.9	1	4.0	89.6	0.55	0.43	12.40	0.294	1.91
W602812		650	27.9	138.0	<0.002	2.11	2.08	12.8	2	3.8	231	0.44	0.91	9.45	0.273	1.89
W602813		630	42.2	126.0	<0.002	1.02	2.09	11.7	1	3.3	277	0.47	0.60	11.15	0.264	1.71
W602814		650	21.3	116.0	<0.002	0.88	1.84	11.5	1	2.8	362	0.51	0.39	12.90	0.269	1.43
W602815		60	<0.5	0.9	<0.002	<0.01	0.06	0.2	1	<0.2	78.5	<0.05	<0.05	0.09	0.005	<0.02
W602816		670	18.4	121.0	<0.002	0.71	1.83	11.0	1	3.0	338	0.56	0.38	12.95	0.280	1.53
W602817		590	20.9	111.5	<0.002	1.39	1.92	9.9	1	3.2	285	0.50	2.79	12.60	0.252	1.61
W602818		610	18.3	102.0	<0.002	1.06	2.08	11.7	1	2.8	293	0.58	0.24	12.00	0.260	1.43
W602819		630	23.2	118.5	<0.002	1.09	2.31	10.7	1	3.0	301	0.64	0.54	14.15	0.259	1.51
W602820		640	20.1	108.5	<0.002	0.48	1.73	12.1	1	2.5	373	0.66	0.15	13.10	0.268	1.36

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255807

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602781		3.8	75	1.3	14.6	49	34.4	0.041
W602782		4.0	78	0.6	17.3	47	36.8	0.015
W602783		3.9	75	0.5	18.4	41	37.1	0.005
W602784		4.5	75	0.6	18.4	68	39.3	0.011
W602785		4.1	76	0.6	17.3	55	41.7	0.042
W602786		3.4	78	1.3	16.4	65	37.6	0.018
W602787		5.3	58	6.8	9.8	3380	25.2	1.680
W602788		5.1	76	0.9	16.7	65	38.3	0.008
W602789		4.3	73	0.7	16.4	57	41.3	0.013
W602790		4.2	75	0.9	16.5	63	38.3	0.019
W602791		4.4	73	1.5	16.6	93	39.7	0.047
W602792		6.0	69	1.9	17.1	115	38.3	0.020
W602793		3.9	75	0.6	17.2	73	38.9	0.020
W602794		3.7	72	0.6	15.9	69	39.7	0.022
W602795		5.0	59	2.8	13.8	87	31.1	2.17
W602796		4.0	78	1.0	17.7	100	39.4	0.024
W602797		4.1	70	2.0	15.3	125	36.2	0.055
W602798		3.8	64	2.8	15.5	87	35.1	0.760
W602799		4.2	58	2.4	14.4	76	35.3	0.017
W602800		5.0	64	0.8	16.7	79	35.9	0.039
W602801		4.3	68	1.0	17.4	54	33.5	0.101
W602802		4.4	66	0.9	17.3	52	32.8	0.047
W602803		5.4	64	1.0	18.2	47	38.1	0.021
W602804		5.3	67	1.4	17.8	52	38.8	0.024
W602805		4.8	67	1.2	16.9	108	36.5	4.04
W602806		4.5	67	1.5	16.8	109	33.6	0.055
W602807		3.6	77	2.9	17.9	131	25.1	0.049
W602808		3.1	81	1.5	17.8	80	30.0	0.043
W602809		1.3	78	0.6	13.8	5000	55.8	0.277
W602810		3.3	83	1.5	17.9	61	28.2	0.033
W602811		3.4	78	2.6	17.6	80	27.1	0.055
W602812		2.8	75	1.8	17.5	64	24.2	0.067
W602813		2.7	72	1.2	17.4	149	27.3	0.047
W602814		3.0	74	1.1	17.8	61	27.4	0.078
W602815		0.1	1	<0.1	2.0	4	1.3	<0.005
W602816		3.1	77	1.2	16.9	67	24.3	0.087
W602817		3.1	70	1.1	16.2	70	24.9	0.048
W602818		4.2	75	1.5	16.0	70	25.9	0.018
W602819		3.7	72	1.4	16.6	61	26.5	0.013
W602820		3.7	74	1.0	17.4	54	26.0	0.013

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255807

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255811

Project: Klaza

P.O. No.: 19-107

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255811

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W602741		4.49			0.64	7.56	21.5	2960	1.73	1.16	1.73	0.83	52.9	8.2	14	9.31
W602742		2.58			0.85	8.26	24.1	3680	1.70	2.15	0.76	1.21	37.3	14.7	10	15.60
W602743		2.90			0.71	8.39	35.3	2230	1.29	2.22	0.09	1.26	53.4	3.6	11	18.75
W602744		3.24			3.38	6.74	87.3	910	1.20	6.85	0.79	0.32	56.8	13.0	9	19.20
W602745		3.99			2.82	6.69	125.0	930	1.15	4.26	0.90	1.46	79.7	7.7	10	21.4
W602746		2.46			3.39	6.69	120.0	820	1.15	5.11	0.57	0.22	59.6	32.2	9	11.85
W602747		0.26	104	1.025	>100	5.37	245	600	0.69	4.88	1.45	23.0	18.80	10.9	64	0.85
W602748		3.03			1.92	7.67	120.0	1230	1.51	3.69	0.94	1.75	56.2	13.9	10	16.20
W602749		4.60			1.55	7.42	89.4	700	1.54	2.23	1.83	23.2	49.4	21.6	11	15.10
W602750		3.82			0.36	7.78	21.8	2320	1.73	1.14	2.37	0.85	54.4	12.8	12	10.90
W602751		3.71			0.97	7.32	127.0	1690	1.59	1.41	2.01	3.06	45.8	15.0	9	19.15
W602752		3.00			1.01	7.18	67.4	1760	1.79	1.21	2.09	2.03	41.6	7.0	10	16.70
W602753		3.73			0.94	7.55	45.9	2390	1.69	0.81	2.22	0.79	46.9	7.3	17	16.30
W602754		4.39			1.78	7.49	162.5	700	1.48	2.11	2.20	1.84	52.5	7.9	11	17.75
W602755		4.88			0.01	0.07	<0.2	30	0.05	<0.01	34.0	0.02	1.08	0.6	2	0.08
W602756		3.96			34.0	7.37	274	350	1.38	57.8	1.72	2.74	46.4	7.6	10	11.40
W602757		3.61			1.03	7.96	38.2	2130	1.47	1.52	2.13	4.44	53.4	8.9	9	14.75
W602758		2.78			1.12	8.03	67.0	2110	1.65	1.68	2.38	1.89	52.5	8.4	10	15.95
W602759		2.59			11.05	6.50	566	140	1.62	6.50	0.96	8.91	48.5	10.2	8	11.45
W602760		2.40			4.59	7.68	180.0	630	1.86	4.22	1.56	5.19	53.2	9.5	11	23.0
W602761		2.57			3.64	7.66	136.0	660	1.74	5.16	1.69	4.19	56.8	10.0	12	22.6
W602762		3.24			36.4	6.59	550	80	1.52	48.4	1.34	10.40	92.5	12.5	9	11.30
W602763		5.16			6.63	7.40	208	130	1.56	11.65	0.29	3.09	69.2	28.6	9	13.15
W602764		4.27			2.43	7.91	173.5	720	1.84	3.96	0.72	2.21	66.2	13.8	10	18.70
W602765		5.92			4.41	7.77	161.5	210	1.59	6.16	1.11	0.94	57.1	13.7	12	13.75
W602766		0.26	100	1.000	>100	5.76	266	570	0.71	4.98	1.52	24.4	19.40	12.6	64	0.87
W602767		5.09			1.67	7.88	82.9	400	1.69	3.38	2.06	1.80	54.6	8.3	12	12.50
W602768		3.21			0.75	7.54	20.5	2120	1.59	1.41	2.59	0.56	43.5	6.7	13	11.25
W602769		4.32			0.84	7.54	15.4	1400	1.74	1.46	2.18	0.55	49.2	6.3	13	12.55
W602770		5.10			0.26	8.07	8.7	1300	1.68	1.50	2.41	0.19	49.1	7.3	13	11.90
W602771		4.49			0.27	7.92	10.9	2430	1.76	1.26	1.91	0.27	50.7	6.5	13	13.10
W602772		3.52			0.30	8.05	15.8	990	1.83	1.35	1.81	0.52	49.1	6.6	11	13.30
W602773		<0.02			0.28	8.11	14.5	710	1.72	1.30	1.81	0.49	50.2	6.3	12	13.35
W602774		3.16			1.49	6.12	119.5	200	1.23	3.20	8.03	5.32	49.1	7.5	7	14.90
W602775		5.12			0.69	7.72	29.7	1450	1.54	4.21	2.64	0.63	51.0	9.6	13	20.5
W602776		3.30			0.15	7.20	12.5	2170	1.66	0.70	2.58	0.27	39.7	6.8	12	18.00
W602777		2.35			1.52	6.56	75.8	220	1.38	3.20	2.58	4.74	49.9	8.2	13	17.35
W602778		4.66			0.33	8.15	8.8	2700	1.72	0.90	2.78	0.66	52.2	8.5	14	14.70
W602779		1.92			0.21	7.22	43.3	2330	1.36	0.31	3.94	0.25	49.8	7.9	10	25.6
W602780		4.05			0.14	7.95	6.6	3090	1.53	0.48	2.84	0.23	48.5	7.0	15	12.45

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255811

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602741		49.1	2.80	16.25	0.06	1.3	0.133	3.06	28.4	12.6	0.79	540	7.31	1.96	8.5	3.8
W602742		44.4	1.43	18.15	0.06	1.4	0.124	3.59	19.8	12.5	0.36	242	10.80	1.39	9.3	2.3
W602743		135.5	2.48	18.50	0.08	1.5	0.166	3.79	31.4	22.7	0.20	344	42.1	0.09	8.8	2.4
W602744		85.6	5.30	15.75	0.07	1.0	0.255	3.15	34.8	16.4	0.24	210	17.00	0.05	5.5	2.8
W602745		146.0	3.65	15.70	0.08	1.1	0.229	2.92	50.5	14.7	0.25	215	68.5	0.03	5.9	1.8
W602746		65.0	4.31	15.90	0.07	1.1	0.221	3.31	39.8	7.3	0.31	163	25.4	0.05	5.3	2.0
W602747		6070	5.65	11.45	0.06	1.5	0.445	1.10	9.5	12.7	1.08	1710	20.8	1.58	3.1	26.2
W602748		132.5	2.89	17.90	0.06	1.2	0.189	3.40	34.2	17.1	0.41	198	5.36	0.05	6.6	1.9
W602749		177.5	3.20	15.80	0.06	1.1	0.196	3.34	29.1	30.4	0.59	438	11.65	0.28	7.6	2.8
W602750		149.0	3.34	16.80	0.07	1.3	0.106	2.87	31.2	10.1	0.83	385	2.37	2.05	8.4	3.0
W602751		353	3.04	17.20	0.06	1.3	0.182	3.33	24.5	23.1	0.66	1240	8.40	0.14	8.3	3.1
W602752		277	3.78	15.15	0.05	1.3	0.167	3.41	22.7	9.3	0.66	1700	2.11	1.13	7.4	2.4
W602753		367	2.97	16.10	0.06	1.3	0.162	3.19	26.6	10.2	0.67	529	3.43	1.66	8.5	2.7
W602754		469	3.63	16.90	<0.05	1.3	0.281	3.36	27.9	14.4	0.80	2000	2.85	0.12	7.0	2.8
W602755		2.5	0.12	0.23	<0.05	0.1	0.005	0.02	1.2	0.9	1.80	126	0.05	0.03	0.1	0.4
W602756		1865	5.28	16.50	<0.05	1.1	1.200	3.44	24.6	13.2	0.70	1240	4.87	0.06	5.8	2.6
W602757		129.0	3.18	16.85	<0.05	1.3	0.291	3.74	27.9	25.7	0.75	928	10.80	0.14	7.8	2.1
W602758		123.5	4.02	18.20	<0.05	1.4	0.167	3.10	27.5	37.5	0.88	1400	1.62	0.07	8.3	2.3
W602759		1180	9.45	17.25	<0.05	1.1	0.620	2.96	25.3	7.9	0.60	6270	2.21	0.03	5.9	3.1
W602760		386	5.91	17.75	<0.05	1.1	0.366	3.41	28.1	8.4	0.97	3230	1.73	0.04	7.5	2.8
W602761		183.0	5.49	17.30	<0.05	1.2	0.271	3.43	29.7	8.4	0.99	3020	2.60	0.04	7.5	2.8
W602762		1465	7.13	16.75	<0.05	1.0	0.800	3.10	51.5	8.4	0.41	1620	27.9	0.06	4.9	2.1
W602763		263	7.41	18.50	<0.05	1.3	0.394	3.54	38.2	6.9	0.34	666	12.25	0.05	5.3	2.6
W602764		302	4.82	18.45	<0.05	1.3	0.306	3.52	36.3	17.3	0.48	1030	5.51	0.05	6.8	2.8
W602765		291	5.10	17.80	<0.05	1.5	0.256	3.51	29.4	15.5	0.65	922	7.25	0.06	6.9	2.5
W602766		6280	5.93	12.70	<0.05	1.6	0.436	1.17	8.8	13.1	1.15	1760	21.1	1.68	3.2	28.9
W602767		642	4.07	18.05	<0.05	1.2	0.204	3.41	28.2	9.4	0.83	613	1.05	1.04	7.6	3.0
W602768		428	3.14	16.85	<0.05	1.1	0.133	2.98	21.8	9.6	0.78	426	2.13	1.62	7.2	2.6
W602769		498	3.28	17.75	<0.05	1.2	0.131	2.90	25.1	26.7	0.76	446	14.20	1.28	7.8	3.2
W602770		97.8	3.64	18.15	<0.05	1.3	0.081	2.80	24.7	12.9	0.91	433	4.39	2.12	8.3	3.0
W602771		110.0	3.41	17.20	<0.05	1.2	0.084	2.83	25.9	15.6	0.87	366	7.80	1.68	7.8	2.7
W602772		81.6	3.21	18.45	<0.05	1.3	0.110	3.03	25.1	25.9	0.79	347	6.05	1.39	8.4	2.7
W602773		78.1	3.25	17.95	<0.05	1.3	0.103	3.07	25.8	25.9	0.79	355	6.02	1.40	8.3	2.8
W602774		63.6	4.54	14.90	<0.05	1.0	0.271	2.66	26.7	21.0	1.05	4270	3.25	0.15	5.9	2.3
W602775		75.0	3.60	16.30	<0.05	1.4	0.111	3.11	26.9	16.6	0.90	693	7.07	0.72	7.9	2.7
W602776		31.7	3.00	16.70	0.05	1.2	0.087	2.89	19.4	16.4	0.65	484	1.47	1.80	7.8	2.5
W602777		124.5	5.10	15.85	<0.05	1.0	0.206	2.62	26.3	16.8	0.97	1500	6.78	0.77	6.9	2.6
W602778		119.5	3.36	18.35	0.05	1.2	0.143	2.86	26.7	17.5	0.90	500	6.32	2.25	8.6	3.1
W602779		15.9	2.93	16.05	<0.05	1.2	0.061	2.70	26.0	18.5	1.27	975	1.16	0.68	7.8	3.2
W602780		39.2	3.33	17.65	<0.05	1.2	0.070	2.82	24.8	10.8	0.83	500	14.20	2.26	8.1	2.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255811

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602741		640	46.4	139.0	<0.002	0.12	3.87	11.7	<1	3.3	321	0.64	0.18	13.70	0.269	1.69
W602742		720	60.5	184.0	<0.002	0.23	10.75	13.7	<1	3.3	250	0.69	0.41	15.90	0.284	2.51
W602743		580	39.6	206	0.002	0.35	15.70	11.8	1	4.8	67.0	0.72	0.59	17.95	0.247	2.63
W602744		600	80.0	195.0	<0.002	1.80	16.20	8.7	2	7.5	44.1	0.44	3.04	17.25	0.183	2.70
W602745		480	136.5	178.0	<0.002	1.34	20.1	9.0	2	6.7	36.5	0.51	1.64	13.55	0.202	2.88
W602746		190	46.1	201	<0.002	2.27	14.90	9.4	3	11.9	20.2	0.44	2.45	9.57	0.189	2.76
W602747		450	>10000	29.0	0.012	2.29	441	11.6	2	1.9	190.0	0.21	1.29	1.95	0.237	0.50
W602748		440	179.0	228	<0.002	1.48	16.05	10.6	2	9.4	79.3	0.56	1.42	14.10	0.216	2.99
W602749		660	312	172.5	0.006	1.90	10.95	10.6	1	4.7	128.0	0.57	0.94	13.95	0.237	2.27
W602750		640	26.8	130.5	<0.002	1.20	2.74	11.1	1	3.5	361	0.64	0.50	14.55	0.259	1.60
W602751		620	62.1	158.0	0.004	1.36	23.3	11.7	1	4.3	125.5	0.65	0.42	14.40	0.248	2.87
W602752		570	76.9	162.5	<0.002	1.37	10.85	10.0	1	4.2	203	0.63	0.26	14.30	0.240	2.56
W602753		630	30.1	144.0	<0.002	0.69	12.40	10.8	1	3.7	284	0.65	0.26	13.75	0.258	2.08
W602754		580	80.5	182.5	0.002	1.74	26.4	10.4	1	4.9	92.9	0.61	0.29	14.30	0.241	2.79
W602755		60	0.9	0.8	<0.002	<0.01	0.11	0.2	1	<0.2	78.2	<0.05	<0.05	0.16	0.005	0.02
W602756		570	228	214	0.003	3.32	32.1	9.5	1	6.5	72.3	0.49	0.39	13.20	0.206	2.94
W602757		640	158.5	170.0	0.013	0.68	9.69	10.2	1	5.3	156.5	0.66	0.24	14.15	0.268	2.93
W602758		700	58.2	142.5	0.002	1.00	9.08	11.3	1	4.7	204	0.70	0.20	13.60	0.273	2.42
W602759		540	452	188.0	0.003	6.16	78.7	10.2	1	12.5	20.9	0.51	0.41	12.10	0.189	2.93
W602760		590	247	207	<0.002	1.46	11.85	11.3	<1	8.1	41.5	0.59	0.16	14.40	0.247	3.33
W602761		630	216	203	0.003	1.31	9.33	11.6	1	7.1	47.9	0.61	0.16	14.55	0.258	3.42
W602762		590	627	184.0	0.013	5.96	66.3	9.6	1	12.5	58.8	0.39	1.69	12.10	0.172	2.92
W602763		560	209	186.5	0.004	5.65	13.60	10.9	2	12.5	35.9	0.49	2.78	12.15	0.189	2.80
W602764		840	64.6	206	0.004	2.33	17.00	11.3	1	9.8	65.6	0.59	0.71	15.95	0.226	2.95
W602765		530	67.4	196.0	0.005	3.50	7.68	10.9	1	9.4	64.8	0.62	0.76	13.35	0.221	2.66
W602766		480	>10000	30.0	0.009	2.42	466	12.7	2	1.9	200	0.21	1.16	1.95	0.255	0.54
W602767		630	82.5	175.0	0.002	2.19	6.29	11.5	2	7.2	226	0.64	0.84	14.25	0.257	2.34
W602768		620	31.3	134.5	0.003	1.17	3.67	10.7	1	3.9	304	0.60	0.45	12.45	0.253	1.70
W602769		610	34.0	141.0	0.002	1.35	4.75	11.6	1	4.4	243	0.62	0.39	13.20	0.250	1.72
W602770		700	20.9	109.0	0.003	1.32	2.73	12.5	1	4.2	383	0.67	0.41	12.60	0.296	1.44
W602771		630	22.3	114.5	0.007	1.17	6.44	11.1	1	5.8	274	0.64	0.34	13.25	0.266	1.42
W602772		650	30.3	136.5	0.005	1.54	10.45	12.1	1	4.6	194.5	0.68	0.38	13.70	0.270	1.75
W602773		650	29.9	138.0	0.005	1.49	10.00	11.9	1	4.8	194.5	0.67	0.35	14.10	0.277	1.72
W602774		460	171.5	148.0	0.008	3.24	12.30	8.5	1	6.8	202	0.48	0.50	11.05	0.195	1.93
W602775		610	49.0	136.0	0.007	1.68	5.51	10.6	1	4.7	164.5	0.69	1.72	13.95	0.261	2.11
W602776		590	20.4	103.5	<0.002	0.23	2.25	10.2	<1	3.7	321	0.64	0.11	11.05	0.257	1.44
W602777		570	146.5	140.0	0.004	3.22	5.49	10.3	1	6.5	164.5	0.51	1.04	11.05	0.225	1.78
W602778		700	36.1	119.0	0.005	0.35	1.41	12.3	1	3.5	387	0.67	0.19	13.50	0.296	1.40
W602779		590	16.3	109.0	<0.002	0.30	2.40	10.6	<1	2.7	178.5	0.64	0.06	13.30	0.250	1.61
W602780		640	20.4	115.5	0.002	0.39	1.15	11.6	1	3.2	415	0.63	0.12	13.50	0.275	1.31

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255811

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602741		2.8	78	2.8	16.9	100	36.3	0.032
W602742		3.4	76	6.0	12.5	132	38.9	0.053
W602743		3.2	73	5.0	13.7	111	39.9	0.070
W602744		2.6	63	8.0	13.1	154	29.8	0.165
W602745		2.8	68	10.6	11.0	235	29.4	0.081
W602746		1.8	78	6.2	8.6	113	30.6	0.188
W602747		1.4	79	0.6	14.1	5070	54.3	0.267
W602748		2.3	71	4.0	9.5	226	34.7	0.083
W602749		3.2	69	2.2	14.5	1340	31.5	0.122
W602750		3.1	72	1.0	17.1	111	35.4	0.034
W602751		4.5	70	2.3	15.1	276	36.8	0.131
W602752		3.9	68	2.4	14.0	217	35.3	0.126
W602753		3.2	71	1.3	16.1	79	36.4	0.087
W602754		4.3	68	3.2	15.1	182	31.6	0.156
W602755		0.2	1	<0.1	2.2	4	1.5	<0.005
W602756		4.2	65	4.7	13.0	176	31.1	0.501
W602757		5.4	73	2.1	17.1	355	35.0	0.092
W602758		5.0	75	3.7	15.4	276	36.6	0.176
W602759		6.3	58	10.2	11.5	792	30.0	0.894
W602760		4.7	69	7.0	12.8	467	30.7	0.136
W602761		4.5	72	6.7	14.7	412	27.5	0.194
W602762		5.6	62	7.6	11.8	838	27.9	1.195
W602763		4.6	69	7.8	10.5	464	32.4	0.729
W602764		6.2	72	5.5	12.6	236	35.2	0.148
W602765		4.5	68	3.9	13.5	111	37.8	0.714
W602766		1.3	83	0.5	15.3	5260	49.6	0.294
W602767		4.3	74	2.3	15.6	157	33.0	0.572
W602768		4.1	73	1.5	15.7	63	31.0	0.107
W602769		4.3	71	1.4	15.8	76	32.8	0.141
W602770		4.4	85	0.9	17.6	52	35.8	0.039
W602771		5.4	73	1.7	15.3	52	31.3	0.038
W602772		4.5	75	1.3	16.1	60	36.7	0.041
W602773		4.6	75	1.3	15.8	60	35.9	0.041
W602774		6.5	57	2.5	15.9	447	27.6	0.589
W602775		5.2	71	2.0	15.8	78	36.6	0.059
W602776		3.6	69	1.5	14.6	47	32.8	0.014
W602777		5.4	64	2.2	16.6	449	29.5	0.099
W602778		4.2	81	0.8	19.1	72	33.1	0.116
W602779		3.7	66	4.0	17.4	42	34.2	0.018
W602780		3.8	75	0.7	17.5	45	31.8	0.014

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255811

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255814

Project: Klaza

P.O. No.: 19-106

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255814

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
W602701		2.45			0.09	8.01	5.4	2670	1.75	0.26	2.74	0.24	47.4	7.5	11	13.40
W602702		3.44			0.19	7.26	18.1	1820	1.55	1.25	2.71	0.27	39.6	8.3	10	19.20
W602703		3.86			0.21	7.63	14.7	2260	1.78	0.61	2.45	1.00	47.7	6.6	13	15.00
W602704		5.82			0.14	7.80	7.3	2330	1.63	0.64	2.76	0.38	43.1	8.2	10	10.95
W602705		6.24			0.23	8.17	7.0	2530	1.76	0.41	2.58	1.37	52.3	7.3	11	13.85
W602706		3.00			0.72	8.02	25.2	2220	1.60	1.08	2.05	2.39	57.9	14.5	9	14.55
W602707		2.95			0.66	8.06	23.1	2590	1.56	1.02	1.64	2.46	62.3	11.5	16	14.40
W602708		3.13			1.90	7.66	62.0	820	1.52	2.84	1.94	2.96	36.4	3.2	9	15.60
W602709		3.24			5.38	6.53	170.0	230	1.58	11.00	3.44	3.97	50.9	9.5	7	20.4
W602710		5.09			0.81	6.94	33.8	760	1.41	1.39	2.93	2.74	48.4	6.2	8	18.10
W602711		5.05			0.43	7.19	33.6	860	1.49	1.10	2.51	0.31	41.1	8.0	9	12.55
W602712		4.90			0.95	7.42	55.3	750	1.57	2.35	2.25	0.62	41.6	8.9	8	12.10
W602713		2.53			0.26	6.50	20.3	2240	1.40	0.62	4.49	0.42	44.2	6.4	7	20.9
W602714		<0.02			0.23	6.23	17.7	2170	1.33	0.64	4.22	0.43	37.4	6.4	7	19.00
W602715		2.64			0.17	7.29	7.5	1260	1.38	0.40	1.92	0.28	36.8	8.1	8	16.20
W602716		2.81			0.28	6.97	7.4	1760	1.28	0.47	2.14	0.55	35.9	7.7	8	13.75
W602717		4.47			1.03	7.83	38.3	2190	1.59	1.17	2.37	9.33	41.1	7.5	10	14.25
W602718		3.93			0.19	7.93	11.6	2290	1.81	0.62	2.15	0.41	44.5	9.9	9	19.30
W602719		2.98			0.13	8.77	10.0	2210	1.89	0.40	1.73	0.32	53.0	6.3	9	15.75
W602720		4.97			0.01	0.24	0.4	50	0.10	0.02	33.9	0.03	1.87	0.8	3	0.37
W602721		0.72			0.91	6.03	75.7	90	0.94	2.11	3.47	0.28	37.3	6.1	7	9.17
W602722		4.50			0.29	6.83	25.5	1580	1.18	1.12	5.70	0.37	52.1	6.6	9	11.75
W602723		4.48			0.21	7.36	20.8	2230	1.49	0.84	3.19	0.47	42.0	7.1	9	15.70
W602724		3.59			0.24	5.91	55.5	1030	1.32	0.65	4.20	0.30	41.9	7.1	7	21.9
W602725		2.15			0.33	7.31	27.4	410	1.43	1.39	2.36	1.61	45.3	7.9	9	14.35
W602726		1.85			0.71	7.66	55.4	280	1.41	4.14	2.07	1.01	63.7	7.5	9	15.40
W602727		0.26			40.5	5.92	2710	430	1.13	36.2	1.74	45.5	35.7	16.5	24	10.00
W602728		4.88			0.33	7.58	12.3	2400	1.60	1.34	2.30	0.39	46.4	7.4	10	15.90
W602729		4.94			0.50	8.24	17.2	2350	1.70	1.19	2.45	0.66	56.1	8.1	11	14.05
W602730		5.15			0.18	8.16	7.7	2890	1.69	0.85	2.70	0.45	53.6	8.7	12	15.50
W602731		5.17			0.25	7.42	11.0	1400	1.60	1.93	3.18	0.52	49.5	9.9	10	18.30
W602732		4.55			0.21	7.78	13.8	1920	1.78	1.15	2.56	0.25	47.1	13.3	10	19.40
W602733		0.27	98	1.000	>100	5.72	269	590	0.73	5.15	1.52	25.4	19.40	12.5	67	0.92
W602734		2.34			0.35	7.28	21.6	800	1.56	1.52	2.59	0.25	43.1	9.1	9	15.90
W602735		3.24			0.20	7.99	15.1	630	1.18	0.85	1.38	0.30	51.8	8.0	10	14.35
W602736		4.67			0.27	7.61	14.8	1630	1.33	1.06	1.75	0.40	46.4	10.5	11	15.70
W602737		3.41			0.15	7.65	14.0	3500	1.56	0.48	2.47	0.30	48.6	8.1	12	16.60
W602738		3.04			0.19	7.86	10.9	2580	1.75	0.55	2.58	0.42	48.9	6.7	11	15.75
W602739		2.35			0.35	7.14	16.2	680	1.44	1.26	2.67	0.19	36.0	5.7	10	14.25
W602740		3.21			0.35	7.96	9.5	2980	1.80	0.84	2.25	2.43	51.4	6.4	13	13.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602701		11.2	3.15	17.75	<0.05	1.6	0.042	2.80	24.1	13.1	0.88	501	2.38	2.23	8.5	2.8
W602702		15.7	2.94	16.35	<0.05	1.4	0.062	2.65	19.4	20.4	0.68	495	3.85	1.14	7.4	2.4
W602703		14.4	3.20	18.40	0.05	1.6	0.104	2.49	24.1	16.7	0.85	561	2.13	1.77	8.3	2.8
W602704		12.1	3.15	16.90	<0.05	1.6	0.069	2.73	21.1	12.5	0.85	522	0.62	2.18	8.0	2.4
W602705		18.3	3.09	18.50	0.05	1.6	0.079	2.90	26.5	13.2	0.82	502	1.56	1.91	8.5	2.6
W602706		42.5	2.37	17.60	<0.05	1.6	0.118	3.13	30.2	22.6	0.65	591	12.80	0.38	8.0	2.0
W602707		46.3	2.14	17.75	0.05	1.5	0.123	3.18	33.2	25.3	0.59	520	9.59	0.31	8.0	2.1
W602708		130.0	2.20	16.15	<0.05	1.3	0.188	3.48	19.9	10.1	0.81	682	5.34	0.05	6.4	1.1
W602709		52.7	4.76	15.65	<0.05	1.3	0.181	2.97	27.4	10.0	1.35	2530	2.60	0.04	6.1	2.2
W602710		87.1	3.32	17.15	0.11	1.4	0.173	2.42	26.4	39.9	0.71	834	2.91	0.03	7.4	5.1
W602711		55.4	3.71	17.30	0.13	1.4	0.122	2.38	22.1	66.8	0.72	643	1.51	0.06	7.3	2.8
W602712		76.7	4.08	17.90	0.14	1.5	0.189	3.39	22.6	17.5	0.84	578	1.24	0.08	7.1	2.5
W602713		31.4	2.62	13.35	0.13	1.3	0.074	2.38	25.1	43.6	0.68	613	1.61	0.07	6.3	2.5
W602714		29.6	2.56	12.90	0.13	1.3	0.074	2.34	20.3	42.8	0.63	590	1.28	0.07	6.1	2.2
W602715		26.6	2.76	16.10	0.12	1.6	0.050	1.92	18.5	38.3	0.49	626	1.30	0.04	7.9	3.3
W602716		20.0	2.72	16.15	0.11	1.6	0.032	2.35	17.8	28.0	0.50	500	1.13	0.07	8.1	2.1
W602717		32.1	3.48	16.15	0.12	1.6	0.154	2.92	21.0	17.8	0.91	553	1.06	1.39	7.7	2.5
W602718		43.3	3.29	18.20	0.14	1.7	0.058	2.78	23.7	30.2	0.88	453	1.25	0.73	8.5	3.0
W602719		43.6	2.95	19.20	0.13	2.0	0.079	3.14	29.3	33.0	0.59	327	1.56	0.44	9.4	2.8
W602720		2.8	0.20	0.70	0.16	0.1	0.005	0.06	1.7	1.4	1.79	137	0.12	0.06	0.4	0.9
W602721		59.9	7.31	13.10	0.09	1.3	0.160	2.69	20.5	19.5	0.48	660	1.57	0.06	5.6	2.0
W602722		33.7	3.40	14.60	0.13	1.3	0.129	2.55	31.7	42.7	0.55	814	1.02	0.06	6.8	2.3
W602723		36.2	3.65	17.90	0.14	1.6	0.062	2.82	22.1	33.9	0.67	489	1.27	0.18	8.0	2.6
W602724		25.0	2.90	13.60	0.12	1.2	0.065	2.27	24.8	20.0	0.81	691	2.08	0.04	6.2	2.6
W602725		47.4	3.41	17.45	0.10	1.6	0.074	2.13	24.2	48.7	0.76	491	1.59	0.08	7.9	2.3
W602726		40.6	4.17	18.50	0.12	1.6	0.158	2.39	36.1	42.0	0.66	461	7.69	0.11	7.6	2.8
W602727		1180	9.18	14.80	0.12	0.9	1.575	2.64	20.1	15.6	0.69	2320	16.45	0.06	4.8	14.6
W602728		57.2	3.08	17.25	0.12	1.5	0.094	2.81	25.4	19.8	0.95	443	3.16	1.42	7.9	2.6
W602729		66.9	3.51	18.70	0.15	1.6	0.151	3.13	31.2	18.9	1.01	561	1.62	1.77	8.4	3.1
W602730		20.4	3.30	18.15	0.17	1.6	0.068	2.82	29.9	15.5	0.97	526	1.67	2.20	8.5	3.0
W602731		16.8	3.35	17.15	0.15	1.4	0.059	2.80	26.5	32.2	0.76	700	3.65	1.09	7.7	2.7
W602732		35.0	2.76	18.40	0.14	1.7	0.082	2.82	25.0	30.5	0.70	370	1.59	1.36	8.6	2.6
W602733		6320	5.92	13.25	0.13	1.5	0.444	1.18	10.1	13.6	1.15	1780	21.2	1.66	3.4	30.3
W602734		41.8	3.79	16.75	0.14	1.4	0.095	2.51	23.7	14.2	0.78	399	4.22	1.14	7.5	2.5
W602735		25.8	2.57	17.20	0.13	1.6	0.054	1.34	28.7	86.7	0.41	540	2.23	0.04	8.3	2.2
W602736		27.9	3.06	18.65	0.14	1.6	0.062	2.50	24.3	62.3	0.39	472	3.10	0.08	8.6	2.7
W602737		18.1	3.10	16.60	0.16	1.4	0.043	2.71	27.0	19.3	0.91	456	1.82	2.17	7.9	2.7
W602738		30.7	3.12	17.65	0.15	1.5	0.068	2.67	25.6	17.2	0.95	451	4.15	2.08	8.3	2.8
W602739		20.7	3.20	15.90	0.14	1.2	0.157	3.11	19.3	42.1	0.94	453	2.33	0.43	6.3	2.2
W602740		28.6	2.42	17.55	0.17	1.5	0.058	2.94	29.1	17.7	0.72	381	2.06	2.43	8.0	2.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602701		670	19.2	100.5	0.002	0.23	2.12	11.6	1	2.5	415	0.69	0.05	13.75	0.286	1.26
W602702		650	24.2	91.9	0.008	0.87	4.99	10.1	<1	3.7	196.5	0.58	0.53	9.24	0.263	1.46
W602703		640	41.5	89.0	0.005	0.55	4.11	11.6	1	3.4	294	0.66	0.15	11.15	0.275	1.36
W602704		650	28.4	85.5	<0.002	0.30	2.55	10.7	1	2.4	389	0.67	0.25	11.85	0.279	1.24
W602705		660	54.0	108.5	<0.002	0.27	4.65	12.1	1	2.6	342	0.66	0.09	13.65	0.289	1.38
W602706		650	95.4	138.0	0.021	0.89	13.60	11.1	1	3.5	98.9	0.62	0.21	13.60	0.275	2.26
W602707		670	90.7	149.0	0.020	0.73	14.10	11.5	1	3.5	89.5	0.63	0.15	14.30	0.276	2.27
W602708		600	148.0	175.0	0.003	1.02	17.50	9.1	1	5.0	57.4	0.52	0.43	13.05	0.236	3.00
W602709		500	111.5	164.0	<0.002	3.23	17.60	9.8	1	7.4	75.7	0.51	0.20	10.95	0.209	2.74
W602710		600	91.3	102.0	0.002	1.94	44.5	10.3	1	4.2	104.5	0.61	0.27	11.10	0.246	2.13
W602711		620	26.3	85.4	0.002	1.70	20.8	10.4	1	5.0	140.5	0.63	0.21	11.30	0.255	1.54
W602712		620	46.6	135.5	0.002	2.14	6.82	10.5	1	6.8	92.6	0.61	0.45	11.30	0.243	2.17
W602713		510	30.2	89.8	0.003	0.82	20.8	8.7	1	3.3	149.5	0.56	0.15	11.90	0.219	1.36
W602714		520	29.6	71.0	0.004	0.84	19.80	7.8	1	3.0	141.0	0.55	0.18	9.99	0.216	1.34
W602715		630	13.7	58.3	<0.002	0.85	11.50	10.5	1	3.1	54.6	0.67	0.07	11.30	0.269	1.13
W602716		620	21.0	70.7	0.002	1.04	10.50	10.5	2	2.9	81.4	0.70	0.12	10.05	0.263	1.26
W602717		640	61.3	98.8	<0.002	0.95	3.72	10.3	1	3.4	265	0.65	0.16	11.85	0.275	1.28
W602718		670	23.5	101.0	0.003	0.59	8.02	12.2	1	4.2	163.0	0.68	0.22	12.55	0.293	1.36
W602719		700	23.0	117.5	0.003	0.31	9.47	12.5	1	3.5	133.0	0.84	0.07	15.65	0.301	1.49
W602720		80	4.1	2.2	<0.002	<0.01	0.20	0.5	2	<0.2	81.7	<0.05	<0.05	0.36	0.011	0.03
W602721		500	48.5	126.5	0.003	6.14	5.97	8.7	1	7.4	64.8	0.56	0.67	10.10	0.192	1.68
W602722		580	29.8	125.5	0.003	1.29	17.70	10.2	1	4.0	175.5	0.59	0.33	11.80	0.235	1.63
W602723		630	23.4	95.7	0.002	1.29	12.90	11.4	1	3.7	128.0	0.69	0.32	12.35	0.271	1.61
W602724		470	20.0	107.0	0.005	1.07	21.6	9.0	1	4.0	91.9	0.51	0.25	10.90	0.198	1.68
W602725		620	41.1	81.8	0.002	1.85	21.1	11.2	1	4.8	147.0	0.69	0.60	11.90	0.254	1.55
W602726		630	65.6	110.0	0.004	2.88	18.00	11.5	1	6.9	103.5	0.66	1.74	13.40	0.248	1.76
W602727		450	1680	155.5	0.003	8.05	105.0	8.8	2	10.7	67.2	0.42	0.68	9.33	0.174	2.19
W602728		650	23.5	104.0	0.002	0.83	4.82	11.3	1	3.0	252	0.67	0.43	12.40	0.269	1.42
W602729		680	43.0	143.0	<0.002	0.96	3.91	12.3	1	4.7	293	0.70	0.32	14.45	0.277	1.73
W602730		690	27.1	108.5	0.002	0.60	2.22	12.5	1	2.6	384	0.70	0.22	14.40	0.289	1.25
W602731		630	28.9	107.5	0.002	1.54	4.52	10.6	1	3.4	188.0	0.63	0.83	10.85	0.257	1.51
W602732		660	23.1	107.5	<0.002	0.90	8.53	11.9	1	3.4	211	0.74	0.39	13.30	0.277	1.62
W602733		490	>10000	30.2	0.011	2.41	456	13.3	2	2.0	199.5	0.23	1.18	2.03	0.259	0.51
W602734		620	27.0	110.0	0.002	1.95	4.84	10.7	1	4.1	208	0.63	0.28	12.15	0.252	1.60
W602735		710	16.5	59.7	<0.002	0.72	41.1	11.4	1	2.8	246	0.68	0.24	14.25	0.278	0.88
W602736		640	22.0	102.5	0.003	1.05	34.0	12.0	2	3.1	131.5	0.74	0.33	14.10	0.270	1.45
W602737		650	19.8	102.5	<0.002	0.49	1.82	11.4	1	2.2	426	0.65	0.10	13.60	0.271	1.31
W602738		660	24.6	104.0	<0.002	0.57	2.55	12.3	1	3.6	374	0.67	0.14	13.60	0.277	1.33
W602739		610	18.6	143.5	0.003	1.99	3.64	9.7	2	6.5	113.5	0.51	0.24	10.30	0.235	2.23
W602740		650	83.2	117.0	0.002	1.00	2.46	11.6	1	3.8	375	0.69	0.20	14.15	0.260	1.52

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602701		3.9	76	0.7	17.3	52	44.4	<0.005
W602702		4.1	75	2.3	13.4	65	42.3	0.017
W602703		3.6	75	2.0	15.2	118	43.0	0.015
W602704		3.3	75	0.8	15.3	71	42.8	0.009
W602705		4.2	77	1.9	17.1	113	45.2	0.014
W602706		4.5	71	6.6	15.7	212	44.2	0.041
W602707		4.6	71	6.4	15.3	212	41.0	0.075
W602708		3.5	58	5.5	10.4	306	37.5	0.065
W602709		4.7	59	6.4	14.1	408	33.7	0.191
W602710		4.0	69	2.8	13.5	262	40.5	0.060
W602711		5.2	70	3.3	12.9	95	42.1	0.035
W602712		3.7	71	3.3	13.4	124	40.9	0.071
W602713		12.4	60	1.9	14.9	91	37.2	0.017
W602714		11.4	60	1.9	12.8	92	35.1	0.022
W602715		2.5	69	2.9	13.2	52	42.1	0.009
W602716		2.4	73	2.3	13.1	71	42.6	0.010
W602717		4.4	75	2.3	14.7	749	43.9	0.088
W602718		5.3	78	1.8	16.2	58	48.1	0.011
W602719		3.9	80	3.3	17.0	57	52.3	0.012
W602720		0.3	3	<0.1	2.9	13	2.4	<0.005
W602721		13.4	59	2.2	17.1	90	33.1	0.131
W602722		7.7	65	4.1	17.7	70	36.1	0.038
W602723		5.4	73	3.9	16.4	68	44.2	0.068
W602724		5.1	57	1.9	15.4	52	35.4	0.029
W602725		6.2	71	3.7	15.2	131	44.7	0.295
W602726		4.9	74	3.9	16.8	101	44.0	0.165
W602727		5.5	57	7.3	10.2	3420	23.0	1.635
W602728		3.7	75	1.2	16.3	56	42.5	0.020
W602729		4.2	77	1.3	18.7	96	44.4	0.022
W602730		4.5	79	0.8	18.4	63	44.8	0.009
W602731		4.5	73	1.6	16.5	62	45.2	0.013
W602732		4.2	75	1.5	16.6	57	46.2	0.013
W602733		1.4	84	0.6	16.5	5290	54.8	0.303
W602734		3.9	70	2.2	15.6	60	39.5	0.033
W602735		5.5	71	4.5	15.7	60	45.1	0.010
W602736		6.9	75	3.9	16.4	52	46.4	0.022
W602737		4.3	74	0.7	17.3	49	41.1	0.005
W602738		3.9	76	1.0	16.8	65	43.5	0.009
W602739		3.7	68	3.5	12.5	65	34.2	0.045
W602740		4.7	73	1.3	16.1	198	42.9	0.033

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255814

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255819

Project: Klaza

P.O. No.: 19-105

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255819

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W594294		4.67			0.06	7.06	20.5	4470	2.00	0.06	4.00	0.17	57.8	4.8	11	22.6
W594295		3.90			0.51	7.43	18.3	2240	1.71	0.94	2.91	2.84	49.5	6.3	13	13.95
W594296		2.69			0.39	7.62	35.3	1860	1.64	0.94	2.46	1.36	44.6	7.4	11	16.20
W594297		5.18			0.11	7.93	7.0	2360	1.74	0.45	2.74	0.15	50.0	6.8	13	11.45
W594298		3.66			0.14	7.43	14.5	2730	1.64	0.36	3.05	0.36	39.0	6.6	11	15.15
W594299		3.17			6.62	7.93	495	660	1.74	0.54	2.26	34.6	74.4	6.8	11	19.50
W594300		0.26	96	0.995	>100	5.52	264	410	0.78	5.54	1.43	25.9	20.8	13.1	64	0.94
W594301		1.30			2.25	7.79	97.6	160	1.42	3.78	1.42	0.47	56.5	20.6	9	12.30
W594302		4.40			0.66	7.74	39.9	1280	1.78	0.80	2.74	0.32	46.9	7.5	10	26.3
W594303		2.74			4.49	7.65	567	370	1.90	1.42	2.02	21.0	60.6	12.3	11	17.65
W594304		2.86			0.16	8.02	8.2	2570	1.83	0.60	2.77	0.13	54.8	8.4	13	6.75
W594305		4.09			0.25	8.07	8.5	2740	1.91	1.14	2.82	0.13	51.1	7.3	16	7.46
W594306		2.92			2.33	7.50	102.5	270	1.62	7.21	1.95	0.96	47.9	11.8	13	10.45
W594307		<0.02			2.18	7.50	106.0	300	1.56	6.81	1.99	0.87	50.5	11.6	12	10.10
W594308		7.20			0.62	7.22	36.9	1850	1.55	2.69	2.49	0.26	53.2	20.4	14	7.12
W594309		4.09			1.48	7.43	77.3	1000	1.62	8.51	2.14	0.40	56.3	11.7	10	18.80
W594310		8.48			0.29	7.94	18.6	2520	1.63	1.99	2.66	0.34	48.7	7.2	15	6.65
W594311		3.17			1.22	7.19	435	1490	1.62	1.54	2.61	4.62	46.9	18.2	14	11.65
W594312		9.51			0.72	7.24	124.0	2300	1.46	1.46	2.52	3.26	46.5	9.7	13	6.73
W594313		3.10			0.88	7.96	29.1	2910	1.68	1.16	2.88	0.47	47.8	11.6	16	9.67
W594314		2.93			0.40	7.58	244	2270	1.58	0.77	2.73	0.25	46.3	7.4	13	11.85
W594315		1.18			0.42	7.18	119.0	2180	1.59	0.79	2.76	0.27	36.5	7.6	14	12.20
W594316		3.13			0.17	7.48	12.3	2320	1.65	0.71	2.72	0.13	44.6	8.8	13	5.20
W594317		10.67			0.15	7.72	13.1	2280	1.66	0.78	2.76	0.13	57.6	7.3	13	5.74
W594318		1.66			1.85	7.21	109.5	2230	1.56	1.37	3.21	2.19	41.0	22.8	11	19.15
W594319		3.74			0.15	7.69	8.5	2430	1.67	0.71	2.71	0.09	50.8	9.7	15	6.11
W594320		5.05			0.39	7.46	93.1	2060	1.57	0.52	2.81	1.26	47.2	9.8	13	13.30
W594321		1.42			1.54	6.77	109.0	190	1.13	4.53	1.84	1.72	49.0	39.4	22	11.50
W594322		5.00			0.01	0.15	<0.2	30	0.11	<0.01	35.7	0.02	1.39	0.8	4	0.07
W594323		5.79			1.54	8.15	74.0	1880	1.51	1.59	2.46	5.65	56.4	19.1	13	18.70
W594324		4.94			0.12	7.07	26.9	1800	1.85	0.17	3.74	0.24	49.0	4.4	6	25.2
W594325		5.07			2.39	7.32	105.0	2670	1.83	0.47	4.18	1.74	52.7	7.4	7	27.2
W594326		1.44			0.47	6.86	47.1	1410	1.85	0.73	3.83	0.23	44.7	10.2	13	21.8
W594327		7.43			0.15	7.13	17.0	2210	1.53	0.60	2.67	0.13	42.6	9.6	12	12.75
W594328		0.26	103		>100	5.41	237	360	0.72	5.34	1.43	25.6	20.6	13.3	64	0.92
W594329		5.23			0.49	7.16	26.6	2320	1.53	0.81	2.85	0.21	46.0	7.0	12	13.75
W594330		3.00			0.45	7.15	24.1	1440	1.46	1.86	2.21	0.23	56.7	12.3	13	9.88
W594331		4.31			4.76	7.02	1230	260	1.36	1.68	3.02	41.1	53.8	17.5	12	15.90
W594332		3.70			1.32	6.95	84.9	2020	1.49	0.69	3.16	11.10	42.2	8.8	12	16.10
W594333		3.27			1.25	7.44	264	2310	1.63	0.63	2.49	11.10	49.1	7.6	20	11.55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W594294		67.4	2.45	18.15	0.17	2.3	0.036	2.96	30.3	36.3	0.62	659	1.20	0.09	10.4	3.6
W594295		20.3	3.14	16.90	0.15	1.4	0.136	2.58	26.3	38.1	0.83	693	4.66	1.85	8.3	3.2
W594296		23.8	3.74	17.05	0.15	1.2	0.195	2.83	23.8	22.6	0.87	781	2.94	0.67	8.1	2.7
W594297		8.2	3.21	17.30	0.14	1.1	0.075	2.77	27.0	18.4	0.82	518	2.76	2.21	8.4	2.7
W594298		9.7	3.33	17.50	0.14	1.2	0.071	3.01	19.7	20.2	0.80	657	2.81	1.66	8.9	2.7
W594299		56.5	3.96	17.90	0.13	1.2	0.208	3.60	39.7	26.0	0.77	1540	2.36	0.18	8.6	3.4
W594300		5980	5.62	12.10	0.14	1.4	0.468	1.10	9.9	13.6	1.09	1680	21.8	1.59	3.3	30.2
W594301		70.6	4.40	16.05	0.16	1.1	0.393	4.19	27.1	6.1	0.59	561	10.50	0.67	6.2	3.8
W594302		30.6	2.99	17.55	0.14	1.1	0.136	3.05	22.9	26.0	0.87	856	1.53	0.10	8.7	2.8
W594303		45.6	5.19	17.65	0.16	1.2	1.035	3.33	31.4	15.8	0.88	3000	1.20	0.24	7.9	2.7
W594304		18.5	3.38	16.20	0.17	1.4	0.102	2.68	27.5	19.0	0.87	534	1.40	2.29	8.8	2.7
W594305		49.6	3.24	18.05	0.18	1.4	0.109	2.87	25.1	16.5	0.82	463	1.21	2.18	9.3	2.9
W594306		231	4.23	16.05	0.13	1.1	0.250	3.28	24.6	12.8	0.76	380	1.68	0.87	7.0	2.7
W594307		213	4.13	15.80	0.13	1.0	0.254	3.25	26.2	12.6	0.76	381	1.48	0.89	7.1	2.7
W594308		68.5	3.37	15.30	0.17	1.0	0.311	2.72	28.6	16.5	0.88	469	2.06	1.41	7.2	2.9
W594309		196.0	3.84	15.90	0.16	1.1	0.363	2.97	29.5	20.4	0.71	588	0.89	0.78	7.4	2.6
W594310		40.6	3.22	16.70	0.16	1.2	0.175	2.90	24.0	13.3	0.82	485	1.47	2.12	8.5	2.8
W594311		99.3	3.32	15.60	0.16	1.1	0.219	3.21	22.9	11.8	0.74	819	1.56	1.27	7.7	4.3
W594312		66.4	3.05	15.25	0.15	1.1	0.196	2.89	23.2	11.0	0.78	421	0.79	1.70	7.4	2.8
W594313		84.1	2.82	17.10	0.16	1.1	0.282	3.83	23.6	14.1	0.72	494	1.19	1.74	8.4	3.0
W594314		51.1	3.28	15.50	0.15	1.1	0.158	3.03	23.0	19.4	0.81	550	6.45	1.58	7.4	2.5
W594315		33.5	3.27	16.10	0.14	1.1	0.151	2.85	17.4	18.6	0.79	555	12.40	1.62	7.9	2.6
W594316		39.2	3.14	16.25	0.16	1.1	0.147	2.71	21.9	12.9	0.81	444	2.72	2.22	8.2	2.9
W594317		15.1	3.17	16.70	0.16	1.0	0.099	2.64	28.4	12.7	0.83	481	2.21	2.37	8.2	2.7
W594318		177.0	3.11	16.35	0.18	1.0	0.159	3.19	19.7	14.6	0.83	653	8.69	1.16	7.8	3.1
W594319		28.2	3.15	17.00	0.16	1.0	0.120	2.67	24.7	14.4	0.86	452	7.64	2.28	8.2	2.8
W594320		27.6	3.54	16.10	0.16	1.1	0.172	2.91	23.4	32.6	0.92	894	4.56	1.43	8.0	2.8
W594321		30.3	6.65	13.35	0.12	0.8	0.382	3.35	25.3	13.4	0.80	807	3.47	0.44	5.4	3.0
W594322		2.4	0.16	0.57	0.14	0.1	<0.005	0.04	1.4	1.2	2.10	139	0.07	0.07	0.3	0.5
W594323		43.7	4.25	17.35	0.15	1.1	0.302	3.84	28.6	32.3	0.89	754	4.78	1.13	8.1	2.9
W594324		7.0	2.49	18.30	0.16	2.3	0.037	2.98	22.7	21.8	0.78	584	0.90	0.18	9.7	1.8
W594325		24.7	3.06	18.75	0.14	2.0	0.105	3.13	24.9	12.4	0.93	745	1.81	0.08	9.4	2.2
W594326		18.7	3.47	15.55	0.12	1.2	0.142	3.03	21.8	14.4	1.17	1640	2.46	0.06	7.6	2.7
W594327		20.8	2.95	15.50	0.13	1.1	0.103	2.74	20.8	27.1	0.72	654	1.30	1.74	7.6	2.7
W594328		5930	5.60	12.05	0.10	1.5	0.471	1.10	9.5	13.1	1.08	1660	23.6	1.58	3.4	30.7
W594329		61.6	3.18	15.90	0.16	1.0	0.200	2.72	22.5	23.9	0.78	1160	1.26	1.71	7.5	2.5
W594330		101.0	3.44	16.10	0.14	1.1	0.161	3.19	28.2	19.3	0.74	483	0.77	1.28	7.5	2.9
W594331		59.6	4.29	15.70	0.15	1.1	0.409	2.71	28.1	9.8	1.05	590	0.86	0.76	7.3	3.3
W594332		35.2	2.93	15.80	0.15	1.2	0.290	2.87	20.2	19.8	0.88	673	0.74	1.69	7.7	2.7
W594333		27.6	3.11	16.55	0.14	1.2	1.270	3.02	24.6	20.3	0.73	521	0.87	1.88	8.2	3.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W594294		980	18.6	99.5	<0.002	0.09	3.40	5.5	1	10.0	326	0.73	<0.05	9.39	0.278	1.41
W594295		680	79.6	91.5	0.002	0.28	3.29	10.3	1	2.6	396	0.68	0.06	12.55	0.274	1.23
W594296		670	55.0	135.5	<0.002	0.68	8.39	11.7	1	2.7	228	0.69	0.12	12.20	0.273	1.84
W594297		680	16.6	115.0	<0.002	0.14	2.09	12.0	1	2.0	411	0.71	<0.05	14.05	0.284	1.30
W594298		680	23.3	108.5	<0.002	0.21	4.72	11.4	1	2.2	351	0.73	<0.05	11.60	0.292	1.59
W594299		670	1465	246	<0.002	2.49	20.6	12.5	1	7.4	126.0	0.72	0.10	17.70	0.273	2.97
W594300		450	>10000	30.2	0.009	2.31	443	12.5	2	2.0	191.0	0.22	1.24	2.14	0.241	0.50
W594301		640	63.2	247	0.002	3.51	12.85	11.3	1	5.1	105.5	0.50	1.31	13.95	0.207	3.04
W594302		670	27.5	112.0	<0.002	0.77	15.65	11.8	1	2.3	150.5	0.66	0.05	13.15	0.284	2.28
W594303		600	622	232	<0.002	2.84	14.75	11.2	1	6.0	131.5	0.70	0.38	17.10	0.251	3.19
W594304		670	18.1	110.5	<0.002	0.41	1.49	11.7	<1	1.8	407	0.78	0.06	16.70	0.290	1.26
W594305		660	17.4	111.5	<0.002	0.76	2.29	12.0	1	2.3	383	0.79	0.13	15.75	0.284	1.41
W594306		600	96.8	188.0	<0.002	2.95	16.15	10.9	1	6.7	157.5	0.59	0.45	15.25	0.232	2.35
W594307		580	93.0	188.5	<0.002	2.84	15.20	11.1	1	7.0	160.5	0.57	0.44	15.10	0.234	2.27
W594308		590	18.2	138.5	<0.002	0.89	33.6	10.6	1	2.3	279	0.56	0.13	15.45	0.242	1.95
W594309		600	43.3	148.0	<0.002	1.65	19.80	11.0	1	3.8	174.5	0.61	0.44	16.70	0.247	2.07
W594310		670	19.1	117.0	<0.002	0.75	3.92	11.2	1	2.5	370	0.71	0.19	15.15	0.283	1.60
W594311		620	34.3	153.5	<0.002	1.49	36.7	10.8	<1	3.2	254	0.63	0.22	14.50	0.253	2.33
W594312		590	137.5	123.5	<0.002	0.92	10.75	10.2	1	2.6	322	0.62	0.17	14.80	0.246	1.62
W594313		680	33.6	171.5	<0.002	0.91	8.64	11.0	<1	3.0	317	0.65	0.20	12.00	0.284	2.48
W594314		630	28.2	125.5	<0.002	0.58	5.40	10.4	<1	3.0	312	0.62	0.11	14.20	0.267	1.72
W594315		610	28.2	102.0	<0.002	0.54	5.04	10.0	1	2.9	324	0.64	0.11	11.10	0.261	1.62
W594316		650	17.8	89.2	<0.002	0.27	2.40	11.0	1	2.2	397	0.64	0.07	13.60	0.278	1.32
W594317		640	18.2	99.1	<0.002	0.16	6.23	11.4	<1	2.2	421	0.65	<0.05	16.30	0.274	1.28
W594318		640	58.8	135.5	<0.002	0.90	36.7	10.4	1	4.0	258	0.63	0.24	11.65	0.265	2.18
W594319		650	16.5	96.4	0.002	0.23	1.63	11.7	1	2.5	418	0.64	0.16	13.20	0.273	1.40
W594320		650	84.9	127.0	<0.002	0.54	5.08	11.4	1	3.1	325	0.61	0.09	12.50	0.278	1.93
W594321		540	161.5	177.5	<0.002	4.49	6.74	8.7	1	4.3	195.5	0.43	1.86	11.60	0.203	2.50
W594322		80	0.7	1.5	<0.002	0.02	0.08	0.2	1	<0.2	86.5	<0.05	<0.05	0.17	0.006	0.03
W594323		690	219	164.0	<0.002	1.43	13.70	10.7	1	4.1	373	0.60	0.55	14.20	0.287	2.82
W594324		870	21.8	87.7	<0.002	0.02	8.60	4.9	<1	1.9	382	0.69	<0.05	7.91	0.322	2.06
W594325		830	273	110.0	<0.002	0.76	12.35	6.0	<1	3.5	337	0.68	0.12	9.26	0.316	2.28
W594326		590	23.1	143.0	<0.002	0.52	9.57	9.1	<1	2.8	204	0.65	0.13	12.90	0.242	2.90
W594327		600	16.5	109.5	<0.002	0.34	6.53	9.9	<1	2.1	389	0.64	0.09	12.25	0.249	1.59
W594328		450	9970	30.3	0.011	2.28	442	12.8	3	2.0	190.5	0.22	1.11	2.10	0.240	0.53
W594329		590	42.3	110.5	<0.002	0.46	20.8	10.4	1	2.2	392	0.58	0.18	12.45	0.253	1.62
W594330		590	17.8	134.0	<0.002	1.35	27.2	10.7	1	3.2	304	0.60	0.67	12.30	0.243	1.79
W594331		560	933	159.0	<0.002	2.67	49.9	10.3	1	6.1	197.5	0.60	0.60	15.60	0.229	1.95
W594332		600	303	104.0	<0.002	0.48	32.5	9.7	<1	2.7	337	0.63	0.15	12.45	0.253	1.66
W594333		620	155.5	118.5	<0.002	0.56	17.45	10.9	1	2.8	365	0.66	0.12	16.25	0.265	1.48

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255819

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W594294		3.7	46	1.3	12.7	73	70.0	<0.005
W594295		3.6	71	1.2	14.4	256	38.3	0.018
W594296		4.5	75	2.0	16.2	150	27.8	0.026
W594297		3.7	77	1.1	17.1	55	28.0	0.005
W594298		3.5	79	1.0	15.3	96	27.9	0.006
W594299		3.8	78	7.1	14.8	1940	30.0	1.085
W594300		1.4	78	0.6	14.6	5090	49.5	0.292
W594301		5.5	66	9.5	13.3	52	27.2	0.111
W594302		4.7	75	3.1	14.7	74	27.2	0.038
W594303		7.5	68	6.9	13.3	1390	29.8	0.422
W594304		5.1	79	1.1	19.2	42	31.4	0.012
W594305		5.9	76	1.4	17.3	42	34.2	0.013
W594306		5.4	69	3.2	12.7	65	25.3	0.101
W594307		5.3	68	3.0	13.2	62	26.1	0.100
W594308		5.0	71	1.6	16.6	47	23.1	0.044
W594309		5.4	70	2.4	16.6	88	25.6	0.124
W594310		3.9	75	2.3	15.5	46	29.7	0.028
W594311		5.9	70	3.8	15.8	402	27.2	0.422
W594312		4.7	68	2.7	14.8	158	26.4	0.088
W594313		4.1	76	3.0	15.7	54	27.9	0.033
W594314		4.2	73	2.4	14.5	54	27.3	0.157
W594315		3.9	71	2.3	13.3	52	27.1	0.093
W594316		3.6	75	1.2	16.4	38	26.2	0.020
W594317		3.5	75	0.7	16.6	37	25.1	0.007
W594318		6.1	74	2.3	14.5	129	23.2	0.095
W594319		3.1	75	2.5	17.5	36	27.1	0.015
W594320		3.8	75	3.5	15.0	115	26.7	0.060
W594321		4.2	60	3.3	11.8	204	18.1	0.641
W594322		0.2	1	0.1	2.8	4	2.1	<0.005
W594323		4.1	76	3.8	15.0	304	27.3	0.094
W594324		5.6	45	1.1	11.6	99	69.2	<0.005
W594325		4.8	49	1.9	12.5	181	64.1	0.163
W594326		4.3	64	5.7	14.9	70	30.5	0.022
W594327		3.4	68	1.3	14.4	44	26.6	0.017
W594328		1.4	79	0.6	14.6	4940	49.9	0.291
W594329		3.4	69	1.8	14.1	56	25.6	0.023
W594330		3.9	69	5.0	13.9	44	26.4	0.073
W594331		5.4	64	4.8	14.7	1640	29.4	0.369
W594332		4.3	68	3.1	14.4	405	32.1	0.052
W594333		4.0	72	1.0	14.6	371	30.1	0.073

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255819

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255822

Project: Klaza

P.O. No.: 19-103

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255822

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W602621		2.96				0.32	7.83	16.8	2510	1.67	0.70	1.96	2.09	55.9	7.4	11
W602622		4.07				0.23	7.90	23.4	2330	1.51	0.99	2.11	1.39	51.4	6.7	11
W602623		4.24				27.9	8.07	395	2200	1.21	38.4	0.30	1.64	29.4	4.3	9
W602624		5.41				0.52	8.06	23.1	2440	1.49	2.42	1.25	2.33	55.9	8.5	9
W602625		2.28				0.65	7.37	33.7	2180	1.47	2.30	0.65	3.59	68.0	7.1	8
W602626		5.07				0.48	8.72	31.2	2530	1.74	4.14	2.42	1.50	57.2	10.1	10
W602627		0.26		96	0.974	>100	5.64	240	560	0.65	5.07	1.48	23.7	18.75	11.3	66
W602628		5.00				0.44	7.49	25.2	2220	1.62	1.33	2.44	0.63	41.7	6.9	11
W602629		5.26				0.22	8.15	17.4	2240	1.25	0.55	1.72	0.26	45.9	7.4	9
W602630		5.24				0.81	7.08	101.5	1860	1.54	0.85	3.24	4.12	43.4	5.8	7
W602631		3.21				6.73	8.20	746	1440	1.64	6.69	1.02	14.20	57.7	6.0	9
W602632		4.11				0.93	8.57	82.2	2560	1.42	5.71	0.45	8.28	56.7	12.5	9
W602633		2.75				0.65	8.37	147.0	2060	1.53	4.35	0.49	8.95	62.6	15.4	10
W602634		<0.02				0.71	8.55	147.5	2110	1.48	4.67	0.52	9.12	64.0	15.2	10
W602635		4.52				0.21	8.19	15.0	2130	1.68	0.44	2.00	0.79	52.9	7.4	9
W602636		3.73				0.19	8.52	26.6	2790	1.38	0.61	1.17	1.35	60.6	8.1	9
W602637		4.86				0.15	7.81	13.3	2460	1.63	0.35	2.92	0.25	44.9	7.4	10
W602638		2.71				2.06	7.75	119.5	1330	1.65	4.78	1.52	5.24	51.8	8.2	10
W602639		3.54				0.43	8.71	42.0	2060	1.33	0.98	0.78	1.77	58.9	8.9	10
W602640		5.04				0.01	0.06	0.5	40	0.06	0.02	33.7	0.03	0.87	0.6	2
W602641		4.64				0.62	7.98	38.0	2140	1.48	1.01	2.46	1.43	55.3	7.5	11
W602642		4.12				0.69	7.81	17.3	2450	1.66	1.06	2.39	0.42	53.4	8.3	10
W602643		4.96				0.79	7.83	21.3	2410	1.67	1.59	2.22	0.36	57.9	7.7	12
W602644		3.00				0.91	7.93	27.8	2420	1.62	3.13	1.96	1.23	53.8	7.0	9
W602645		2.17	18.70	240		>100	6.46	624	190	1.19	467	0.10	2.43	36.9	5.3	9
W602646		1.05				5.47	7.92	85.5	1280	1.56	11.55	0.84	15.95	51.7	8.3	9
W602647		1.05				8.44	7.90	75.0	1510	1.65	12.90	0.94	12.10	58.2	9.2	9
W602648		3.91				1.30	7.87	46.8	1740	1.56	1.71	2.07	2.39	47.6	8.0	10
W602649		2.98				0.21	7.33	10.2	1990	1.45	0.95	2.34	0.17	45.5	10.7	9
W602650		4.59				0.23	8.27	23.6	2790	1.41	0.92	1.46	0.90	50.5	8.4	10
W602651		2.73				0.18	7.86	18.7	2330	1.59	1.21	2.78	0.25	42.0	7.2	11
W602652		2.68				0.40	7.31	41.7	1530	1.45	1.33	3.26	0.74	39.8	9.4	9
W602653		4.58				0.15	7.73	9.0	2290	1.55	0.81	2.77	0.32	42.7	6.7	10
W602654		5.06				0.18	8.04	11.9	2550	1.52	1.15	2.75	0.28	52.6	6.6	12
W602655		0.26		96	0.987	>100	5.71	255	550	0.68	5.42	1.51	23.5	18.75	11.4	66
W602656		4.57				0.30	8.03	16.0	2790	1.63	2.43	2.27	0.68	50.9	7.6	10
W602657		4.68				0.40	7.96	13.8	2430	1.61	2.58	2.56	0.71	45.2	8.0	11
W602658		2.75				0.39	7.93	9.2	2220	1.86	0.70	2.97	3.94	46.3	8.5	11
W602659		2.36				1.29	7.65	43.8	1270	1.62	4.80	2.34	0.27	45.5	8.1	10
W602660		4.07				0.10	7.54	6.8	2140	1.70	0.47	3.15	0.18	41.8	8.2	11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255822

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W602621		7.69	25.9	3.09	16.65	0.12	1.2	0.092	2.72	26.9	9.2	0.74	590	3.60	2.15	8.1
W602622		15.15	15.9	3.01	15.85	0.12	1.2	0.115	3.01	29.2	7.0	0.54	693	2.72	1.86	7.9
W602623		12.30	45.2	3.49	16.50	0.10	1.2	0.320	3.38	16.7	8.6	0.33	311	2.94	0.57	7.1
W602624		13.40	41.1	3.06	17.15	0.13	1.3	0.093	2.80	31.2	9.5	0.45	637	14.25	1.46	8.6
W602625		12.90	97.4	2.74	14.90	0.12	1.3	0.156	2.88	38.9	8.5	0.25	565	659	1.46	6.6
W602626		18.30	62.7	3.62	18.25	0.14	1.4	0.187	3.36	31.3	8.8	0.78	677	12.75	2.00	9.1
W602627		0.86	6250	5.84	11.55	0.09	1.4	0.427	1.14	8.9	12.0	1.13	1740	21.3	1.65	3.2
W602628		15.65	32.3	3.19	15.85	0.11	1.4	0.094	2.89	21.1	9.6	0.71	610	1.96	1.57	8.4
W602629		15.40	16.1	2.86	17.05	0.12	1.4	0.087	2.93	23.8	25.5	0.45	869	4.27	0.16	8.7
W602630		22.0	24.6	2.56	15.00	0.13	1.2	0.085	3.08	21.6	12.8	0.99	3160	4.71	0.09	7.8
W602631		24.7	213	3.35	16.95	0.14	1.3	0.501	3.61	32.3	8.2	0.53	2110	4.46	0.04	8.1
W602632		13.55	117.5	3.46	17.80	0.12	1.3	0.296	3.23	30.2	20.5	0.24	880	7.39	0.14	8.9
W602633		11.55	239	3.99	16.75	0.13	1.2	0.161	2.98	34.9	23.8	0.27	695	13.40	0.30	8.0
W602634		12.00	239	4.02	16.65	0.14	1.3	0.158	3.04	36.3	23.7	0.29	683	12.65	0.32	8.2
W602635		16.10	45.4	2.95	17.00	0.14	1.4	0.077	2.84	28.3	15.1	0.60	513	2.20	1.40	8.9
W602636		14.65	29.9	2.98	17.45	0.14	1.3	0.051	2.90	32.9	29.3	0.31	724	12.10	0.17	9.2
W602637		13.55	13.4	3.07	16.05	0.14	1.2	0.056	2.73	23.4	10.5	0.77	577	10.10	2.19	8.0
W602638		16.10	268	4.43	16.65	0.13	1.1	0.233	3.05	28.2	9.9	0.69	683	6.70	0.67	7.8
W602639		16.35	72.7	3.21	17.25	0.13	1.3	0.058	3.01	31.9	31.1	0.32	640	1.95	0.11	8.7
W602640		0.06	2.4	0.11	0.19	0.08	<0.1	<0.005	0.01	1.0	0.9	1.38	98	0.22	0.02	0.1
W602641		11.30	103.0	3.35	16.00	0.14	1.1	0.088	2.90	31.0	11.8	0.78	593	55.3	1.83	7.9
W602642		12.50	182.5	3.18	16.85	0.13	1.2	0.108	2.81	27.8	13.8	0.80	567	6.28	2.02	8.8
W602643		13.35	179.0	3.10	16.30	0.14	1.1	0.126	2.92	31.4	11.7	0.81	458	36.5	2.12	8.3
W602644		15.55	353	3.11	16.30	0.13	1.1	0.123	2.91	29.4	13.7	0.78	453	5.57	1.77	8.0
W602645		22.7	5550	8.85	14.90	0.11	0.8	6.24	2.54	19.4	44.5	0.15	106	7.76	0.07	5.4
W602646		16.05	654	3.60	16.80	0.12	1.0	1.080	3.57	28.5	19.5	0.48	981	1.91	0.07	6.4
W602647		15.90	521	3.30	17.45	0.13	1.0	0.762	3.64	32.9	17.2	0.55	852	2.35	0.06	6.8
W602648		12.80	131.0	3.70	16.00	0.13	1.1	0.180	3.01	26.6	12.4	0.72	506	6.15	1.19	7.5
W602649		14.50	26.8	3.08	15.30	0.14	1.0	0.093	2.71	24.8	13.4	0.78	422	14.45	1.78	7.8
W602650		18.95	32.2	3.03	17.35	0.15	1.1	0.076	2.73	27.6	26.9	0.40	587	2.16	0.29	8.5
W602651		26.3	20.6	3.18	16.60	0.13	1.0	0.071	2.65	21.1	13.3	0.60	520	2.19	1.57	8.2
W602652		30.4	22.8	3.10	15.80	0.11	1.0	0.102	2.75	20.8	23.1	0.81	583	2.14	0.19	7.7
W602653		16.05	28.4	2.99	16.40	0.13	1.2	0.064	2.78	21.9	11.6	0.73	469	2.45	2.14	8.8
W602654		12.30	36.9	3.19	16.25	0.15	1.2	0.080	2.68	29.0	10.9	0.88	488	1.68	2.17	8.2
W602655		0.88	6270	5.90	11.50	0.09	1.5	0.425	1.17	8.9	11.9	1.15	1760	20.6	1.67	3.2
W602656		16.25	99.2	3.14	16.70	0.14	1.1	0.116	2.96	27.1	14.8	0.84	430	2.10	1.92	7.5
W602657		15.95	44.7	3.39	16.45	0.14	1.1	0.135	2.73	23.3	13.2	0.82	509	1.95	2.01	8.1
W602658		11.00	23.9	3.55	17.70	0.13	1.2	0.202	2.57	22.9	11.3	0.95	613	1.90	2.33	9.1
W602659		20.2	127.0	4.58	18.00	0.14	1.2	0.127	3.02	21.9	23.1	0.72	702	2.81	0.24	9.2
W602660		12.30	19.3	3.34	16.65	0.15	1.0	0.073	2.53	20.9	10.3	0.87	547	2.62	2.20	8.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255822

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W602621		3.8	700	28.6	105.0	<0.002	0.04	2.58	11.3	<1	2.3	365	0.60	0.19	13.20	0.281
W602622		5.2	650	21.3	123.5	<0.002	0.29	3.06	10.3	1	2.2	306	0.63	0.16	12.95	0.276
W602623		2.0	630	439	164.5	<0.002	0.19	13.40	10.3	1	6.2	101.5	0.58	0.92	12.00	0.253
W602624		3.0	700	21.2	116.5	0.003	0.40	6.48	11.6	1	3.0	221	0.61	0.86	14.65	0.287
W602625		2.5	520	24.7	124.5	0.030	0.50	6.93	8.5	1	3.3	150.0	0.55	0.27	19.15	0.219
W602626		3.1	740	21.9	142.0	0.005	0.71	3.70	12.8	1	4.0	304	0.71	0.29	14.20	0.311
W602627		26.8	470	>10000	27.5	0.012	2.37	462	11.8	1	1.8	196.5	0.21	1.30	1.86	0.249
W602628		2.8	650	32.9	109.5	<0.002	0.56	3.95	10.7	1	2.8	280	0.66	0.16	10.15	0.275
W602629		2.4	700	21.4	105.0	<0.002	0.17	6.81	11.2	<1	2.7	95.9	0.71	0.12	11.75	0.293
W602630		2.2	630	65.0	108.0	<0.002	0.87	6.86	9.1	<1	2.6	98.5	0.62	0.23	10.10	0.261
W602631		2.4	560	398	211	<0.002	1.43	21.3	11.1	<1	4.4	50.0	0.64	0.23	13.55	0.271
W602632		2.6	670	48.6	141.0	<0.002	0.68	12.50	12.2	1	4.2	63.0	0.66	0.36	14.80	0.289
W602633		3.1	700	50.4	138.0	<0.002	0.62	14.80	11.5	1	5.0	86.2	0.61	0.27	13.45	0.273
W602634		3.0	730	50.6	139.0	<0.002	0.65	14.70	11.8	1	5.0	90.4	0.63	0.25	13.50	0.279
W602635		2.8	660	20.7	125.5	0.002	0.15	9.49	11.2	<1	3.7	237	0.68	0.11	14.00	0.282
W602636		2.6	690	26.1	127.5	<0.002	0.07	13.30	11.7	<1	2.8	96.6	0.76	0.10	15.45	0.298
W602637		2.6	630	21.2	106.5	<0.002	0.16	2.65	10.0	1	2.0	362	0.68	0.11	12.55	0.267
W602638		2.7	580	102.0	182.5	<0.002	1.42	9.33	11.3	1	9.3	140.5	0.59	0.27	11.75	0.265
W602639		2.5	700	20.2	131.0	<0.002	0.10	11.05	11.6	1	2.7	66.2	0.68	0.14	15.15	0.297
W602640		0.6	70	0.7	0.5	<0.002	0.01	0.11	0.1	2	<0.2	79.1	<0.05	<0.05	0.11	<0.005
W602641		2.7	640	25.4	123.0	0.003	0.63	3.75	10.4	1	4.5	315	0.62	0.24	12.80	0.274
W602642		2.8	730	19.0	110.5	0.003	0.19	3.88	11.5	1	4.7	322	0.66	0.17	11.40	0.296
W602643		2.9	640	18.7	119.0	0.007	0.54	3.38	11.2	1	3.4	328	0.66	0.78	12.35	0.272
W602644		2.7	670	25.7	121.5	<0.002	0.46	4.98	11.0	1	2.7	315	0.65	1.24	12.70	0.273
W602645		1.9	640	1555	127.0	<0.002	6.58	131.5	9.0	2	9.3	95.6	0.41	1.69	12.10	0.190
W602646		2.3	500	489	194.0	<0.002	0.93	18.05	9.2	1	5.3	56.9	0.55	0.52	12.15	0.215
W602647		2.4	520	876	207	<0.002	1.22	19.55	9.4	1	5.5	58.8	0.58	0.77	12.20	0.222
W602648		2.7	660	302	149.5	0.002	1.17	13.95	11.3	1	4.8	219	0.59	0.25	12.40	0.265
W602649		2.7	640	17.8	98.7	<0.002	0.42	5.26	9.8	1	2.7	295	0.58	0.27	10.05	0.272
W602650		2.7	720	20.2	118.0	<0.002	0.28	15.10	11.8	1	3.0	105.0	0.63	0.26	11.65	0.308
W602651		2.6	700	20.9	100.0	<0.002	0.25	7.00	11.1	<1	2.4	299	0.62	0.15	9.79	0.302
W602652		2.7	620	52.9	90.4	<0.002	0.72	9.51	9.8	<1	3.5	121.5	0.58	0.21	9.26	0.270
W602653		2.4	640	22.6	93.8	0.007	0.11	4.03	10.4	1	2.5	373	0.67	0.17	11.00	0.279
W602654		2.8	670	20.2	116.0	<0.002	0.31	2.45	11.0	1	2.6	391	0.62	0.25	12.20	0.288
W602655		26.2	480	>10000	27.2	0.012	2.40	477	11.9	2	1.8	200	0.22	1.23	1.90	0.253
W602656		2.8	700	22.3	123.0	<0.002	0.31	5.14	11.4	1	3.2	333	0.60	0.29	10.90	0.300
W602657		2.9	710	26.6	111.0	<0.002	0.43	4.26	11.2	1	3.4	354	0.59	0.41	10.50	0.301
W602658		3.0	710	24.4	92.2	<0.002	0.25	1.99	12.9	1	2.4	416	0.70	0.12	11.90	0.294
W602659		2.8	720	25.2	123.5	<0.002	1.24	4.58	13.8	1	6.8	102.0	0.66	0.91	11.00	0.312
W602660		2.7	680	16.1	88.3	<0.002	0.32	1.50	12.0	<1	2.4	394	0.63	0.09	10.50	0.281

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255822

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W602621		1.38	2.4	76	1.3	16.3	135	34.9	0.022
W602622		1.68	2.5	75	1.1	16.8	105	34.8	0.015
W602623		2.18	2.1	74	5.1	9.3	402	34.5	0.126
W602624		1.51	2.6	79	2.5	17.8	258	37.9	0.054
W602625		1.73	2.6	60	3.1	15.8	284	35.0	0.065
W602626		2.13	3.3	86	1.7	18.7	221	40.3	0.130
W602627		0.48	1.3	81	0.6	13.6	5180	52.0	0.304
W602628		1.65	2.7	75	1.7	16.0	103	38.5	0.045
W602629		1.53	2.8	79	3.8	17.3	85	40.8	0.017
W602630		2.77	3.1	70	5.0	14.7	305	36.8	0.239
W602631		3.61	3.8	76	6.2	15.9	622	37.7	0.390
W602632		1.83	3.2	80	3.9	18.6	666	36.3	0.047
W602633		1.58	4.8	74	4.1	21.6	912	36.9	0.263
W602634		1.59	4.8	76	4.0	21.9	926	35.9	0.394
W602635		1.41	2.5	77	2.1	17.3	91	40.6	0.009
W602636		1.29	3.7	75	7.1	18.8	208	39.9	0.015
W602637		1.22	3.3	72	1.8	16.7	58	34.9	0.008
W602638		2.00	4.1	78	5.9	15.3	396	31.1	0.716
W602639		1.35	2.9	80	8.7	18.1	271	36.1	0.034
W602640		<0.02	0.3	1	<0.1	1.8	5	0.9	<0.005
W602641		1.42	3.3	75	1.8	17.2	129	32.4	0.037
W602642		1.34	2.8	83	1.9	17.6	67	34.3	0.037
W602643		1.41	2.6	74	1.4	17.1	59	32.9	0.044
W602644		1.41	4.0	74	2.7	17.4	164	31.6	0.041
W602645		1.76	5.4	61	6.2	10.2	411	24.9	>10.0
W602646		2.66	4.3	64	5.6	13.6	832	28.1	0.407
W602647		2.81	4.1	65	6.3	12.1	722	29.7	0.347
W602648		1.85	2.9	77	2.8	15.5	218	32.9	0.287
W602649		1.36	2.2	73	3.2	14.7	46	29.1	0.021
W602650		1.40	3.3	84	4.7	16.8	113	31.6	0.111
W602651		1.47	3.4	81	1.3	15.5	59	30.2	0.028
W602652		1.84	4.4	74	2.7	14.8	91	31.2	0.039
W602653		1.27	3.3	75	1.0	15.6	57	35.7	0.036
W602654		1.32	3.8	76	1.1	17.3	54	34.9	0.041
W602655		0.51	1.3	82	0.6	13.6	5250	48.9	0.319
W602656		1.44	3.1	82	1.9	15.0	75	32.6	0.072
W602657		1.40	3.0	80	2.2	15.7	88	31.4	0.060
W602658		1.26	3.9	84	2.0	17.2	340	34.7	0.010
W602659		1.82	6.3	93	3.9	17.4	98	33.3	0.203
W602660		1.18	3.8	81	1.3	16.8	42	30.9	0.014

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255822

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	Au-GRA22	ME-MS61
	ME-OG62	Pb-OG62		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE WH19255824

Project: Klaza

P.O. No.: 19-102

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 10-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255824

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W602581		2.11			0.86	5.99	16.1	150	1.05	2.50	0.18	0.53	41.3	6.4	10	2.68
W602582		5.10			0.69	7.70	61.7	290	1.57	2.60	1.68	0.54	51.8	8.5	10	13.50
W602583		3.26			0.82	7.54	73.4	260	1.41	2.90	1.49	0.87	51.7	6.7	11	10.10
W602584		4.71			1.78	7.22	129.0	80	1.18	8.55	0.37	0.64	45.9	7.6	11	5.58
W602585		6.13			0.56	7.37	42.8	390	1.50	1.93	2.10	0.79	50.9	9.4	10	15.70
W602586		<0.02			0.56	7.35	42.0	470	1.54	1.99	2.12	0.78	46.6	9.0	10	15.65
W602587		4.53			0.37	7.33	20.2	240	1.40	2.31	1.77	0.22	50.7	6.5	9	13.40
W602588		4.67			0.35	7.88	6.7	2390	1.70	1.45	2.52	0.40	49.6	5.7	10	12.30
W602589		4.50			0.40	7.62	10.1	1760	1.64	1.21	2.32	0.49	49.2	7.3	10	11.30
W602590		3.36			0.37	8.16	28.3	1420	1.50	1.22	1.60	0.27	48.6	9.2	9	12.85
W602591		4.63			0.25	7.64	9.7	960	1.54	0.89	2.41	0.27	45.3	15.8	9	10.95
W602592		4.52			0.43	7.83	6.3	2180	1.73	1.03	2.47	0.39	45.5	7.6	10	9.92
W602593		4.79			0.48	7.84	8.8	1000	1.55	2.59	2.49	0.53	44.9	9.1	11	11.40
W602594		0.26	132	1.320	>100	5.75	248	340	0.66	5.33	1.49	23.8	18.80	12.2	62	0.87
W602595		5.57			0.32	7.71	9.1	2100	1.70	0.80	2.70	0.39	52.4	7.2	9	14.80
W602596		2.09			0.30	7.53	12.8	1440	1.69	1.03	2.22	0.39	44.6	17.0	9	16.25
W602597		2.11			3.21	6.98	127.5	180	1.55	3.19	2.21	13.05	44.7	9.1	9	21.5
W602598		3.68			1.78	7.57	128.5	690	1.62	2.91	1.62	1.62	46.7	8.2	14	16.75
W602599		3.12			0.28	8.41	10.2	2260	1.60	0.61	1.35	0.30	46.2	7.5	8	15.05
W602600		0.26			41.3	5.89	2670	80	1.26	39.3	1.72	45.9	36.4	17.8	23	10.45
W602601		4.29			0.22	7.82	8.5	2140	1.53	0.70	2.03	0.36	44.3	8.1	8	12.40
W602602		4.87			0.47	7.98	22.3	1240	1.58	0.96	1.91	0.52	49.8	7.8	9	10.75
W602603		2.82			0.35	8.12	8.5	2340	1.32	0.97	1.86	0.27	42.4	8.6	12	13.35
W602604		2.03			2.45	7.85	83.9	660	1.69	4.67	1.54	0.74	51.2	9.3	8	16.45
W602605		4.28			2.59	7.00	244	340	1.51	4.46	2.15	2.94	48.5	7.6	8	15.10
W602606		4.94			0.01	0.09	0.6	30	0.05	0.07	33.7	0.02	1.02	0.5	1	0.06
W602607		1.25			4.07	6.02	240	200	1.21	10.70	0.90	7.55	28.8	7.0	7	6.68
W602608		3.83			0.87	7.46	75.6	980	1.33	3.45	2.12	0.59	49.8	8.3	8	21.9
W602609		5.16			0.58	7.42	29.0	1730	1.36	2.98	2.31	0.55	36.6	7.6	9	15.30
W602610		4.43			1.33	7.88	95.6	820	1.39	4.59	2.25	1.04	51.0	8.8	10	15.85
W602611		4.59			1.08	7.69	43.9	1920	1.54	2.10	2.51	0.38	47.9	7.7	9	20.7
W602612		1.89			1.04	7.93	40.3	1880	1.48	2.01	2.29	0.33	46.9	7.5	9	19.70
W602613		3.27			2.15	7.67	53.1	1770	1.62	4.91	2.58	0.64	45.3	9.6	9	18.55
W602614		3.91			1.45	7.38	82.7	310	1.38	2.74	2.29	3.04	44.3	7.9	9	20.0
W602615		4.13			1.22	7.42	35.5	2410	1.65	2.41	2.43	0.80	40.3	7.7	10	14.25
W602616		4.87			4.39	7.52	195.5	490	1.62	7.11	1.91	3.73	50.8	7.5	10	20.3
W602617		2.94			0.48	8.70	16.1	2190	1.23	0.95	1.09	0.65	56.5	7.4	11	11.00
W602618		1.13			0.90	7.16	44.1	450	1.37	3.04	1.73	1.24	116.5	11.8	9	12.00
W602619		3.53			0.79	7.54	10.1	2780	1.34	1.93	2.46	0.33	30.6	7.2	10	10.25
W602620		4.88			0.38	7.33	10.3	2330	1.53	1.05	2.47	0.76	40.9	7.1	10	11.70

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255824

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W602581		17.4	4.10	10.55	0.12	1.7	0.034	2.86	22.7	5.6	0.28	71	1.92	0.07	4.9	1.2
W602582		94.7	4.96	18.05	0.13	0.8	0.220	3.67	28.7	6.5	0.89	853	1.30	0.05	5.2	2.1
W602583		50.3	4.90	17.15	0.14	0.8	0.195	3.58	28.1	6.4	0.84	806	2.16	0.05	4.5	2.3
W602584		39.5	6.93	17.10	0.13	0.9	0.121	3.48	23.6	6.0	0.46	238	1.35	0.07	3.1	2.2
W602585		118.5	4.12	17.20	0.12	0.9	0.137	3.58	27.6	14.8	0.80	590	1.89	0.28	5.4	2.4
W602586		117.5	4.06	17.10	0.13	0.9	0.130	3.66	24.2	14.6	0.79	598	2.02	0.31	5.3	2.2
W602587		51.0	4.87	16.30	0.12	1.0	0.124	3.35	27.8	10.0	0.75	374	1.37	0.66	6.2	2.1
W602588		69.1	3.30	17.00	0.12	1.0	0.076	3.04	26.5	13.0	0.86	422	1.42	2.06	8.1	2.2
W602589		114.5	3.30	16.60	0.15	1.1	0.094	3.09	26.4	14.2	0.83	367	1.89	1.69	7.5	2.2
W602590		116.5	3.94	17.45	0.12	1.0	0.100	2.71	25.8	47.7	0.65	547	1.28	0.55	7.9	2.5
W602591		66.3	3.50	16.20	0.14	0.9	0.067	3.08	23.9	15.3	0.83	388	1.23	1.71	7.2	2.3
W602592		126.0	3.41	16.95	0.13	0.8	0.068	2.94	23.7	17.4	0.90	408	1.16	2.20	8.0	2.4
W602593		64.1	3.42	16.70	0.13	0.7	0.075	2.91	24.0	15.2	0.85	447	1.03	1.99	6.9	2.5
W602594		6200	5.98	11.85	0.09	1.4	0.425	1.17	9.2	12.5	1.16	1770	21.4	1.70	3.2	26.5
W602595		34.7	3.36	16.55	0.13	0.9	0.087	2.89	27.6	15.3	0.83	436	1.68	1.65	7.2	2.4
W602596		27.2	3.99	17.15	0.13	0.9	0.102	3.41	22.2	18.6	0.72	474	2.30	0.80	7.8	2.7
W602597		228	5.40	15.30	0.12	0.8	0.145	3.23	23.6	11.5	0.86	1200	1.26	0.07	6.1	2.6
W602598		360	4.16	17.10	0.12	0.8	0.245	3.47	24.9	15.5	0.72	923	3.24	0.07	6.0	2.2
W602599		63.0	3.33	17.50	0.12	1.1	0.062	3.05	22.8	31.6	0.58	557	1.29	0.35	9.1	2.1
W602600		1190	9.30	14.20	0.11	0.8	1.585	2.68	19.3	16.3	0.69	2340	17.80	0.06	4.9	14.3
W602601		42.9	3.25	17.20	0.11	1.1	0.087	3.00	22.6	15.5	0.50	398	1.28	1.02	8.5	2.2
W602602		117.0	3.81	17.10	0.12	1.0	0.098	3.13	26.7	15.3	0.67	428	0.98	0.89	7.8	2.3
W602603		60.2	3.79	17.30	0.12	1.1	0.089	2.99	21.4	25.3	0.55	548	1.32	0.30	9.0	2.8
W602604		774	4.62	17.35	0.13	1.0	0.274	3.39	26.7	15.0	0.75	656	0.90	0.08	8.5	2.5
W602605		709	4.16	18.45	0.11	0.8	0.257	2.99	25.5	17.0	0.87	1520	1.14	0.05	6.4	2.3
W602606		2.1	0.13	0.25	0.06	<0.1	0.005	0.02	1.2	1.0	1.72	124	<0.05	0.03	0.1	0.4
W602607		498	7.07	19.75	0.10	0.7	0.187	2.87	14.7	15.6	0.50	402	3.47	0.05	4.4	2.6
W602608		149.5	3.72	16.80	0.12	0.9	0.105	2.94	26.1	19.3	0.77	745	2.49	0.06	7.9	2.2
W602609		124.0	3.36	15.95	0.11	0.8	0.092	2.80	19.2	20.7	0.69	433	1.06	0.90	6.9	2.1
W602610		386	4.44	19.10	0.12	0.9	0.197	3.48	26.5	16.7	1.05	573	1.42	0.39	7.3	2.6
W602611		273	3.58	17.55	0.13	1.0	0.143	2.88	24.4	18.4	0.85	501	0.94	0.87	8.2	2.3
W602612		228	3.45	17.90	0.14	1.0	0.129	3.01	25.1	19.5	0.80	479	0.64	0.87	8.0	2.3
W602613		674	3.50	17.55	0.13	0.9	0.146	3.13	24.1	13.4	0.82	476	1.14	1.53	7.6	2.4
W602614		45.9	5.00	17.10	<0.05	0.8	0.135	3.21	23.1	17.2	1.01	622	1.40	0.11	6.5	2.4
W602615		305	3.68	18.00	<0.05	0.8	0.147	3.17	20.3	11.8	0.82	536	1.45	1.41	7.3	2.5
W602616		163.0	4.76	16.65	<0.05	0.8	0.172	3.25	26.8	16.7	0.87	1470	0.91	0.11	6.7	2.3
W602617		149.5	3.60	19.05	<0.05	0.9	0.100	2.85	30.0	29.7	0.52	662	1.69	0.11	8.9	1.8
W602618		205	3.80	16.45	<0.05	0.8	0.107	3.33	70.8	20.6	0.70	617	1.63	0.11	5.9	2.5
W602619		149.5	2.94	16.75	<0.05	0.7	0.050	2.77	14.0	16.8	0.74	427	1.23	1.48	7.2	2.2
W602620		48.5	3.49	16.40	<0.05	0.7	0.091	2.73	21.2	13.1	0.83	503	0.94	1.84	7.3	2.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255824

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W602581		190	29.5	110.0	<0.002	4.38	2.11	3.4	2	8.7	11.9	0.95	0.27	28.8	0.050	1.09
W602582		570	21.0	186.5	<0.002	3.57	16.85	10.6	1	10.2	61.8	0.39	0.34	13.30	0.176	2.88
W602583		570	23.0	174.0	<0.002	4.21	7.79	11.0	1	12.1	45.5	0.36	0.34	12.05	0.171	2.52
W602584		510	48.6	175.0	<0.002	7.25	3.62	9.8	2	13.0	16.1	0.26	0.76	13.15	0.117	2.02
W602585		550	30.1	158.5	<0.002	2.92	15.10	10.3	1	5.3	106.5	0.43	0.27	13.70	0.181	2.47
W602586		560	29.6	147.0	<0.002	2.87	14.70	9.7	1	5.3	108.5	0.42	0.30	12.70	0.179	2.63
W602587		570	18.0	144.5	<0.002	3.50	1.79	9.9	2	8.1	146.0	0.49	0.44	13.85	0.196	1.92
W602588		570	24.9	115.0	<0.002	0.60	1.08	10.7	1	4.5	368	0.68	0.32	15.10	0.250	1.53
W602589		550	23.4	125.0	<0.002	1.42	0.84	10.4	1	3.8	310	0.65	0.19	15.00	0.224	1.56
W602590		640	21.9	111.5	<0.002	1.62	33.3	12.7	1	4.3	215	0.64	0.27	15.15	0.253	1.66
W602591		590	20.9	116.5	<0.002	1.71	0.92	11.7	1	4.2	692	0.57	0.17	12.60	0.242	1.55
W602592		630	29.8	100.5	<0.002	1.27	0.76	11.7	1	4.2	706	0.60	0.21	11.80	0.254	1.36
W602593		620	34.6	107.5	<0.002	1.46	1.21	11.0	1	4.4	404	0.49	0.27	10.70	0.245	1.50
W602594		470	>10000	27.8	0.009	2.39	470	12.6	2	1.8	202	0.21	1.23	1.96	0.244	0.49
W602595		610	31.3	108.5	<0.002	1.10	3.34	11.4	1	3.9	336	0.53	0.13	12.35	0.242	1.54
W602596		650	25.1	115.0	<0.002	1.66	4.30	12.4	1	4.4	225	0.57	0.15	10.35	0.250	1.99
W602597		550	363	135.5	<0.002	4.48	8.86	10.4	5	7.1	77.0	0.43	1.65	13.10	0.208	2.42
W602598		540	59.2	161.5	<0.002	2.54	65.0	9.9	1	7.3	69.1	0.43	0.60	13.15	0.203	2.51
W602599		620	21.3	117.5	<0.002	0.52	11.20	11.7	1	2.8	112.5	0.74	0.14	14.65	0.265	1.55
W602600		450	1665	153.0	0.003	8.09	107.0	8.5	2	10.5	66.6	0.41	0.71	9.02	0.170	2.20
W602601		610	32.3	104.5	<0.002	0.70	6.31	11.2	<1	3.8	202	0.69	0.07	15.20	0.259	1.44
W602602		600	26.9	124.5	<0.002	1.68	7.96	10.8	1	5.1	208	0.64	0.12	15.00	0.245	1.65
W602603		720	25.3	103.5	<0.002	0.87	7.36	12.7	1	4.0	130.0	0.67	0.24	13.05	0.295	1.51
W602604		630	21.7	123.0	<0.002	2.43	26.3	11.8	2	6.4	74.2	0.64	1.17	13.55	0.260	2.07
W602605		540	62.4	131.0	<0.002	3.04	115.0	9.9	1	5.1	53.6	0.48	0.92	10.85	0.213	2.45
W602606		70	0.7	0.6	<0.002	0.01	0.19	0.2	2	<0.2	86.8	<0.05	<0.05	0.11	0.005	<0.02
W602607		480	149.0	142.0	<0.002	7.34	109.0	8.5	1	7.7	20.2	0.36	1.68	9.27	0.151	1.77
W602608		620	29.9	109.0	<0.002	1.93	37.1	10.9	1	3.7	78.5	0.61	0.32	13.00	0.255	2.02
W602609		590	29.7	104.0	<0.002	1.33	14.15	10.0	1	3.7	259	0.50	0.17	8.76	0.243	1.59
W602610		630	53.6	171.0	<0.002	2.11	34.1	12.1	1	7.1	157.0	0.51	0.15	10.15	0.248	2.27
W602611		650	31.4	115.5	<0.002	1.32	6.61	12.4	1	4.8	243	0.59	0.41	11.10	0.267	1.70
W602612		660	31.1	124.5	<0.002	1.32	5.95	11.9	1	5.7	246	0.59	0.34	11.85	0.268	1.72
W602613		640	35.6	119.0	<0.002	1.49	8.55	11.0	1	5.0	362	0.55	0.59	10.75	0.256	1.77
W602614		600	77.5	142.0	<0.002	2.99	9.85	10.4	1	7.3	110.5	0.48	0.40	9.39	0.232	2.16
W602615		610	50.0	121.5	<0.002	1.23	3.60	10.1	1	4.6	322	0.56	0.20	9.13	0.254	1.94
W602616		570	901	134.5	<0.002	2.67	17.75	9.6	1	7.8	79.8	0.53	0.26	10.60	0.240	2.85
W602617		710	23.5	115.5	<0.002	0.67	19.30	12.5	1	3.7	87.7	0.66	0.21	13.75	0.306	1.60
W602618		520	44.6	138.0	<0.002	2.10	59.9	8.8	1	4.2	91.4	0.48	0.43	24.9	0.204	2.12
W602619		580	26.9	89.5	<0.002	0.54	7.13	9.6	<1	3.0	329	0.49	0.22	7.13	0.261	1.52
W602620		600	37.0	97.8	<0.002	0.58	1.59	10.3	<1	4.4	360	0.51	0.21	8.50	0.255	1.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19255824

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W602581		6.3	22	12.3	8.5	39	38.4	0.037
W602582		5.4	66	9.0	12.0	109	19.4	0.128
W602583		5.4	69	10.3	10.2	96	20.0	0.132
W602584		3.8	63	13.8	10.3	67	23.8	0.287
W602585		4.5	66	7.0	12.8	111	24.6	0.067
W602586		4.3	66	7.0	12.2	108	24.3	0.060
W602587		5.0	65	12.9	13.1	55	24.3	0.078
W602588		4.5	70	1.9	15.7	75	26.9	0.031
W602589		4.9	66	5.1	14.9	74	27.2	0.032
W602590		5.6	78	5.3	16.4	86	25.2	0.039
W602591		4.5	72	3.8	16.0	71	23.2	0.052
W602592		4.3	76	3.0	15.3	89	20.9	0.019
W602593		4.1	73	2.3	15.1	98	19.3	0.042
W602594		1.3	83	0.5	14.1	5250	46.7	0.268
W602595		4.0	72	2.4	14.5	84	22.3	0.026
W602596		4.5	78	3.3	14.9	91	24.0	0.078
W602597		4.0	63	7.1	13.3	1040	21.3	0.675
W602598		6.1	64	8.2	13.0	211	22.9	0.189
W602599		4.5	72	6.5	15.9	75	29.0	0.014
W602600		5.6	58	7.5	10.1	3400	24.5	1.735
W602601		5.1	73	3.8	15.8	76	27.8	0.011
W602602		4.4	72	4.3	16.1	96	24.5	0.080
W602603		4.2	84	6.7	15.8	65	28.0	0.008
W602604		6.6	78	5.7	14.2	105	24.6	0.023
W602605		4.9	64	12.8	12.2	215	21.1	0.142
W602606		0.2	1	0.1	2.2	4	1.4	<0.005
W602607		3.6	57	18.4	10.9	315	18.1	0.338
W602608		6.7	74	7.2	13.6	105	22.9	0.047
W602609		4.1	68	5.0	12.8	93	22.3	0.042
W602610		3.8	76	7.1	13.9	163	23.0	0.084
W602611		3.9	78	6.1	14.1	81	23.3	0.043
W602612		3.9	76	6.6	14.0	78	24.4	0.059
W602613		3.9	74	9.8	13.3	105	23.0	0.473
W602614		3.6	70	8.8	11.0	312	18.9	0.177
W602615		3.2	71	4.6	12.1	118	20.6	0.109
W602616		4.7	67	8.7	11.3	381	18.7	0.093
W602617		2.2	84	5.9	17.6	104	24.0	0.015
W602618		5.6	60	8.6	13.1	142	20.4	0.075
W602619		2.7	68	3.0	12.8	70	18.0	0.031
W602620		2.9	70	2.2	13.5	111	18.9	0.031

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19255824

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

CERTIFICATE WH19271648

Project: ROCKHA_ WH19233877

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-NOV-2019
Account: ROCKHA

Project: ROCKHA_ WH19233877

CERTIFICATE OF ANALYSIS WH19271648

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
W603953		0.032
W603954		0.009
W603955		0.084
W603956		0.636
W603957		0.041
W603958		0.025
W603959		0.018
W603960		0.388
W603961		0.272
W603962		0.185
W603963		0.830
W603964		<0.005
W603965		0.149
W603966		0.037
W603967		0.041
W603968		0.040
W603969		0.016
W603970		0.023
W603971		0.010
W603972		0.253
W603973		0.083
W603974		0.255
W603975		0.092
W603976		0.041
W603977		0.331
W603978		0.017
W603979		0.016
W603980		0.254
W603981		0.117
W603982		0.029
W603983		0.023
W603984		0.072
W603985		0.040
W603986		0.018
W603987		0.024
W603988		0.272
W603989		3.36
W603990		0.157
W603991		0.024
W603992		0.028

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19233877

Finalized Date: 13-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19271648

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE WH19273147

Project: Klaza

P.O. No.: 19-R-001

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 29-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19273147

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
S052450		1.68	1.700	3.38	74.1	1.18	1540	40	0.50	11.05	8.19	625	10.65	2.9	3	2.38

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19273147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S052450		697	12.45	3.92	<0.05	0.1	7.18	0.52	5.6	20.1	3.00	8720	7.66	0.02	1.0	1.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19273147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S052450		80	>10000	31.2	<0.002	6.00	65.8	1.8	1	18.4	167.0	0.08	0.63	1.90	0.033	0.57

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19273147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
S052450		12.7	15	3.4	6.6	>10000	3.9	4.07

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19273147

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
PUL-31	PUL-QC	SPL-21	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61	ME-OG62	Pb-OG62
Zn-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275611

Project: Klaza

P.O. No.: 19-124

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275611

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595951		3.21	1.95	8.12	170.5	2130	1.76	0.54	1.42	2.57	56.6	6.4	12	13.90	11.8	3.08
W595952		2.42	0.26	7.34	101.5	2300	1.80	0.41	2.69	2.93	43.2	6.1	11	11.85	16.4	2.93
W595953		3.78	2.56	7.70	103.0	1300	2.05	0.89	2.23	8.14	48.0	8.4	16	24.6	30.7	3.11
W595954		3.08	0.16	7.09	16.2	1570	2.23	0.14	2.61	0.89	44.5	7.4	17	27.3	14.8	2.76
W595955		3.90	0.02	7.26	12.0	1490	2.00	0.09	2.70	0.66	49.4	6.4	13	31.4	5.1	2.62
W595956		3.88	0.02	7.14	12.8	1570	2.00	0.09	3.12	0.78	53.8	5.8	12	31.5	3.3	2.55
W595957		1.89	0.01	7.24	10.9	1610	1.89	0.06	3.16	0.75	54.6	5.7	11	29.6	2.8	2.58
W595958		3.99	0.02	6.92	19.0	1310	2.05	0.10	3.91	0.87	46.4	6.4	12	30.6	2.6	2.64
W595959		3.70	0.04	6.78	12.1	1330	2.08	0.14	4.02	0.47	46.3	6.3	14	29.3	2.6	2.62
W595960		4.12	0.26	6.62	19.5	1440	2.05	0.26	2.85	0.94	40.8	7.5	20	28.4	14.1	2.65
W595961		4.14	1.45	6.89	38.3	1430	1.81	1.42	2.37	1.37	41.5	6.3	8	24.4	34.0	2.96
W595962		3.89	0.31	7.14	14.2	2190	1.74	0.65	2.71	0.29	41.6	5.7	12	21.1	14.3	3.04
W595963		3.88	0.22	7.18	12.0	2220	1.68	0.36	2.75	1.55	40.5	6.7	11	17.80	19.9	2.94
W595964		0.12	17.55	3.35	265	80	0.53	10.70	2.28	46.4	22.3	17.3	48	0.98	2260	9.00
W595965		3.08	1.87	7.11	14.5	2050	1.87	2.17	2.77	0.58	38.3	8.0	11	22.9	39.6	2.97
W595966		2.08	1.94	7.21	59.1	1460	1.76	1.65	3.30	4.58	55.2	10.5	10	25.4	64.5	3.45
W595967		4.02	0.27	7.30	14.3	2250	1.94	0.62	2.71	0.24	42.7	6.6	12	18.45	12.4	3.04
W595968		5.17	1.50	7.44	35.6	1780	2.09	1.13	2.74	3.28	48.9	7.1	16	22.8	36.3	2.93
W595969		3.71	0.16	7.18	13.4	1740	2.16	0.21	3.26	0.53	60.1	6.0	30	24.8	14.5	2.35
W595970		<0.02	0.16	7.00	13.6	1650	2.13	0.20	3.28	0.54	55.0	6.2	29	24.5	14.6	2.33
W595971		3.99	0.17	6.99	19.1	2040	2.17	0.13	2.67	0.35	52.7	6.2	26	23.7	16.1	2.15
W595972		4.13	0.11	6.86	15.9	1030	2.00	0.19	3.32	0.32	54.4	6.0	25	20.5	9.0	2.22
W595973		3.75	0.12	6.71	16.0	900	2.00	0.23	3.28	0.30	49.8	6.3	28	19.05	18.7	2.40
W595974		3.42	0.24	6.43	21.3	1400	2.12	0.44	3.49	0.59	41.4	6.8	19	22.0	17.8	2.45
W595975		3.82	0.98	7.49	46.0	1450	2.24	3.70	2.22	2.49	44.3	8.2	10	22.4	92.9	3.35
W595976		4.95	0.17	7.36	15.7	1210	2.33	0.70	2.34	0.50	61.0	5.8	24	27.0	19.1	2.34
W595977		5.00	<0.01	0.11	0.2	20	0.08	0.02	34.0	<0.02	1.21	0.6	1	0.12	2.0	0.10
W595978		4.50	0.11	7.41	12.5	1170	2.66	0.18	4.34	1.15	60.7	6.7	30	26.2	4.7	2.61
W595979		4.52	0.17	7.20	14.7	1150	3.10	0.38	2.41	0.61	54.1	5.2	23	27.1	6.1	2.12
W595980		3.57	0.02	7.36	7.0	1130	2.02	0.05	0.99	0.04	42.5	1.8	3	19.50	0.9	1.29
W595981		3.38	0.01	6.97	3.5	920	1.84	0.03	1.75	0.06	37.3	1.5	3	17.65	1.4	1.33
W595982		3.64	0.02	6.90	4.1	1000	1.88	0.03	2.03	0.09	36.9	1.8	3	18.90	2.8	1.44
W595983		3.70	0.01	6.72	3.8	2540	1.96	0.03	1.39	0.07	33.7	1.7	2	18.90	1.1	1.28
W595984		0.26	40.0	5.63	2490	220	1.15	36.6	1.65	44.0	34.5	16.6	23	10.20	1175	9.03
W595985		3.84	0.07	7.06	5.4	1540	1.83	0.24	0.93	0.10	37.5	1.7	3	17.40	2.6	1.26
W595986		4.34	0.97	7.29	23.8	2410	2.48	1.04	1.98	1.13	53.5	5.9	8	24.1	15.8	2.24
W595987		3.87	0.63	7.29	21.0	1710	2.37	0.98	2.83	0.84	59.4	4.6	13	25.7	7.3	2.56
W595988		4.33	0.19	6.63	14.1	2600	2.04	0.14	2.89	0.58	51.4	4.4	13	26.8	4.3	2.38
W595989		3.85	0.19	7.19	13.6	2230	2.12	0.19	3.83	0.63	59.5	4.7	14	28.1	5.3	2.37
W595990		3.60	0.16	7.08	25.7	1280	2.09	0.17	3.95	0.59	49.6	5.6	27	22.5	12.2	2.37

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595951		17.05	0.11	1.5	0.057	2.84	29.7	30.7	0.45	663	58.8	1.38	8.8	3.7	670	124.5
W595952		16.20	0.10	1.3	0.054	2.74	22.2	16.2	0.68	548	1.14	2.21	8.3	2.8	610	41.5
W595953		18.00	0.11	2.1	0.068	2.67	25.0	47.9	0.47	551	2.07	0.40	7.8	6.5	730	118.0
W595954		19.10	0.11	3.0	0.040	2.66	21.9	37.7	0.70	542	1.91	0.07	8.0	7.7	830	20.3
W595955		19.00	0.10	2.6	0.029	2.93	24.7	28.6	0.80	513	0.73	0.07	8.6	4.9	830	15.6
W595956		18.40	0.11	2.5	0.039	3.00	26.4	21.5	1.08	573	0.53	0.07	8.4	4.0	830	20.9
W595957		18.00	0.13	2.5	0.032	3.02	28.5	21.1	1.10	568	0.50	0.07	8.2	3.8	810	19.6
W595958		18.20	0.11	2.5	0.029	2.99	23.1	23.1	1.06	620	0.63	0.08	8.5	4.8	830	22.9
W595959		17.25	0.12	2.6	0.032	2.72	23.0	26.1	0.92	618	0.43	0.08	7.5	5.8	780	20.7
W595960		17.70	0.11	3.0	0.036	2.91	20.9	17.4	0.89	674	0.85	0.08	7.3	7.7	780	24.7
W595961		15.15	0.09	1.2	0.102	2.60	21.5	45.0	0.75	795	2.09	0.90	7.1	2.7	570	105.5
W595962		15.40	0.10	1.2	0.085	2.68	21.4	37.5	0.76	754	1.75	1.99	7.6	2.7	610	22.9
W595963		15.60	0.10	1.2	0.099	2.72	20.9	35.5	0.72	666	1.16	2.21	7.7	2.5	600	44.9
W595964		12.05	0.15	1.3	1.830	0.48	12.1	28.6	2.63	515	12.25	0.10	3.0	32.3	420	1065
W595965		16.70	0.10	1.4	0.066	2.88	19.4	54.5	0.72	914	1.57	1.91	8.1	3.0	610	162.5
W595966		16.15	0.12	1.3	0.155	2.90	30.7	33.8	1.04	1100	1.93	0.18	7.6	3.4	590	153.0
W595967		16.15	0.10	1.1	0.115	2.85	21.6	23.0	0.66	748	6.98	2.04	7.8	2.9	610	29.7
W595968		17.80	0.11	2.2	0.127	3.10	24.4	60.6	0.57	662	7.47	0.79	9.2	9.8	760	682
W595969		19.00	0.11	4.1	0.035	2.98	30.7	41.2	0.84	785	1.03	0.07	11.0	16.1	970	31.8
W595970		19.05	0.10	4.1	0.035	2.97	27.3	41.3	0.83	781	1.16	0.07	11.1	16.4	960	33.1
W595971		19.25	0.11	3.7	0.026	2.69	26.0	45.2	0.56	600	0.68	0.05	11.2	14.7	930	45.5
W595972		18.60	0.12	3.4	0.036	2.54	27.4	45.2	0.76	773	0.77	0.06	10.6	14.4	900	29.9
W595973		18.50	0.09	3.8	0.030	2.32	24.5	46.3	0.77	739	0.65	0.06	10.8	15.4	930	23.4
W595974		17.35	0.09	2.7	0.038	2.69	20.2	82.5	0.54	927	3.77	0.43	9.3	10.6	780	33.3
W595975		17.55	0.11	1.6	0.114	2.46	22.5	54.8	0.64	727	7.12	0.14	8.8	4.9	640	82.8
W595976		18.00	0.11	3.2	0.051	2.85	30.9	27.7	0.82	679	1.38	0.07	10.5	11.8	920	27.8
W595977		0.36	0.08	0.1	<0.005	0.04	1.2	1.3	1.59	115	0.06	0.04	0.2	0.6	70	0.9
W595978		20.1	0.14	4.2	0.036	3.21	29.9	21.7	1.35	794	1.05	0.09	12.3	15.7	1010	37.6
W595979		19.95	0.13	4.2	0.038	2.95	27.3	27.7	0.72	584	1.57	0.09	15.2	12.1	790	38.0
W595980		19.50	0.12	2.5	0.016	2.64	21.9	24.7	0.37	379	0.34	0.16	15.5	1.1	340	14.3
W595981		18.45	0.11	2.6	0.013	2.73	18.6	11.2	0.56	467	0.32	0.09	15.5	0.9	340	44.0
W595982		17.90	0.11	2.7	0.017	2.77	18.7	9.1	0.59	543	0.39	0.09	16.2	1.0	330	36.0
W595983		18.20	0.11	2.7	0.016	2.78	16.8	11.1	0.44	461	0.35	0.08	15.4	0.8	310	33.3
W595984		13.85	0.12	0.9	1.530	2.61	17.9	17.0	0.66	2310	16.95	0.06	4.8	15.4	440	1640
W595985		17.95	0.09	2.5	0.015	2.66	19.7	16.2	0.35	362	0.38	0.10	13.7	0.8	310	25.5
W595986		17.95	0.11	2.5	0.050	3.01	26.9	19.4	0.65	614	3.62	0.07	13.8	3.0	660	44.1
W595987		17.25	0.11	2.5	0.069	2.81	30.8	22.4	0.79	805	1.30	0.08	11.2	2.9	920	39.9
W595988		17.95	0.11	2.5	0.025	2.76	24.5	26.5	0.72	647	0.75	0.08	11.8	2.9	860	32.2
W595989		18.50	0.12	2.6	0.027	2.76	29.4	22.0	0.75	539	0.69	0.19	12.1	3.0	920	37.7
W595990		19.15	0.12	3.7	0.025	2.56	30.3	38.0	0.92	640	0.55	0.18	9.2	18.8	710	27.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595951		120.5	0.004	0.02	28.0	10.5	<1	2.0	272	0.72	<0.05	15.45	0.280	1.38	2.3	75
W595952		106.0	<0.002	0.19	28.2	10.7	1	2.6	399	0.68	0.05	12.80	0.260	1.18	1.7	71
W595953		110.5	<0.002	0.36	29.5	10.4	1	3.3	159.5	0.61	0.06	11.10	0.296	1.59	3.8	80
W595954		85.8	<0.002	0.07	14.05	8.6	1	1.4	163.0	0.55	<0.05	7.00	0.313	1.38	3.9	79
W595955		97.0	<0.002	0.02	15.65	7.6	1	1.6	221	0.60	<0.05	8.07	0.299	1.54	2.8	70
W595956		100.5	<0.002	0.03	17.55	7.6	1	1.2	326	0.59	<0.05	8.39	0.291	1.65	2.6	68
W595957		105.0	<0.002	0.03	16.70	7.4	1	1.3	330	0.59	<0.05	8.63	0.290	1.59	2.6	70
W595958		83.3	<0.002	0.02	18.95	7.2	<1	1.4	378	0.61	<0.05	7.20	0.298	1.56	2.8	72
W595959		82.2	<0.002	0.01	15.65	7.5	1	1.2	406	0.53	<0.05	7.37	0.290	1.44	3.3	70
W595960		89.1	<0.002	0.12	15.25	8.7	<1	2.9	222	0.52	<0.05	6.67	0.308	1.66	3.5	78
W595961		111.0	<0.002	0.53	14.60	9.4	<1	3.1	274	0.58	0.16	11.75	0.235	1.64	2.8	66
W595962		101.5	<0.002	0.13	5.04	9.8	1	1.7	422	0.61	0.05	11.60	0.255	1.33	3.0	71
W595963		98.2	<0.002	0.07	4.31	9.9	1	1.5	408	0.62	<0.05	10.75	0.256	1.08	2.6	70
W595964		19.2	0.017	6.87	46.2	6.1	31	17.7	75.4	0.24	0.33	2.86	0.121	6.80	2.6	74
W595965		103.5	<0.002	0.06	8.89	10.1	1	1.7	406	0.63	0.05	11.10	0.260	1.33	2.9	71
W595966		120.5	<0.002	0.40	17.60	9.9	1	2.4	226	0.65	0.27	14.10	0.243	1.71	4.3	72
W595967		108.5	0.002	0.15	4.98	10.5	1	1.8	391	0.62	0.06	12.80	0.256	1.33	3.2	71
W595968		103.0	<0.002	0.18	7.27	9.3	<1	3.7	320	0.70	0.08	11.45	0.279	1.69	6.1	71
W595969		95.9	<0.002	0.05	8.07	5.6	1	1.7	438	0.77	<0.05	10.30	0.280	1.65	4.8	53
W595970		89.4	<0.002	0.04	8.12	5.5	<1	1.7	436	0.80	<0.05	9.71	0.276	1.67	4.9	54
W595971		80.0	<0.002	0.04	9.53	5.2	1	1.7	324	0.82	<0.05	9.49	0.269	1.34	4.8	52
W595972		71.9	<0.002	0.03	7.34	5.1	<1	1.7	435	0.77	<0.05	9.48	0.259	1.23	4.9	51
W595973		60.6	0.003	0.03	8.78	5.1	<1	1.6	470	0.76	<0.05	8.68	0.269	1.25	4.6	54
W595974		77.4	<0.002	0.06	8.18	6.8	1	2.5	315	0.70	0.05	8.85	0.264	1.35	5.1	60
W595975		89.3	<0.002	0.47	16.25	10.3	1	3.7	244	0.74	0.16	11.25	0.268	1.49	4.8	76
W595976		96.3	<0.002	0.06	13.55	6.4	<1	5.4	262	0.72	<0.05	10.95	0.273	1.73	3.5	55
W595977		1.2	<0.002	<0.01	0.11	0.2	2	<0.2	81.2	<0.05	<0.05	0.10	0.005	<0.02	0.1	1
W595978		86.3	<0.002	0.05	12.65	6.0	<1	1.8	407	0.85	<0.05	10.25	0.296	2.08	5.8	57
W595979		110.0	<0.002	0.09	11.90	4.9	1	3.1	249	1.11	<0.05	10.05	0.244	1.99	5.2	43
W595980		105.0	<0.002	0.11	1.58	2.6	<1	2.3	124.5	1.66	<0.05	8.71	0.135	1.49	3.0	15
W595981		93.0	<0.002	0.06	1.33	2.5	1	1.9	145.0	1.53	<0.05	7.94	0.134	1.34	3.5	15
W595982		93.7	<0.002	0.07	1.24	2.6	<1	2.0	158.0	1.49	<0.05	7.95	0.134	1.28	5.9	15
W595983		95.6	<0.002	0.10	1.51	2.5	<1	2.1	122.5	1.54	<0.05	7.45	0.129	1.32	5.0	14
W595984		147.0	0.002	7.65	105.5	8.2	2	11.3	61.2	0.41	0.76	8.70	0.159	2.24	5.5	55
W595985		94.3	<0.002	0.04	1.91	2.4	<1	2.7	133.0	1.46	<0.05	8.10	0.128	1.18	2.8	14
W595986		110.5	<0.002	0.29	7.24	5.4	1	9.9	239	1.09	<0.05	9.91	0.210	1.71	6.9	43
W595987		85.2	<0.002	0.04	12.10	5.5	1	7.9	353	0.78	<0.05	9.22	0.258	1.63	6.2	52
W595988		73.1	<0.002	0.05	8.91	5.3	<1	1.7	283	0.80	<0.05	7.88	0.250	1.54	3.6	50
W595989		82.1	<0.002	0.05	5.88	5.8	1	1.6	477	0.82	<0.05	9.10	0.264	1.50	4.9	54
W595990		74.8	<0.002	0.04	7.62	5.8	1	1.7	646	0.74	<0.05	9.28	0.275	1.46	4.7	53

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275611

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595951		2.1	15.4	227	39.8	0.092
W595952		1.0	16.5	216	31.9	0.034
W595953		1.6	14.8	579	69.0	0.399
W595954		1.5	13.6	122	108.0	<0.005
W595955		2.2	13.2	114	84.1	<0.005
W595956		1.9	12.7	114	79.5	0.006
W595957		1.7	13.3	113	75.4	<0.005
W595958		1.0	13.1	100	81.8	<0.005
W595959		1.0	12.6	103	85.7	<0.005
W595960		1.8	13.5	132	102.5	0.013
W595961		1.9	13.3	145	31.8	0.042
W595962		0.8	14.8	70	32.6	0.005
W595963		0.8	14.5	158	31.0	0.014
W595964		1.9	9.5	7490	43.7	0.281
W595965		0.9	15.1	93	34.3	0.009
W595966		1.9	16.6	294	35.2	0.060
W595967		0.7	15.2	65	31.0	0.008
W595968		1.4	14.4	363	73.5	0.049
W595969		1.3	11.2	111	156.5	0.012
W595970		1.3	10.7	112	158.5	0.011
W595971		1.4	10.3	114	138.5	0.005
W595972		1.4	10.3	110	128.5	0.008
W595973		1.5	10.0	109	145.5	0.008
W595974		1.3	12.5	94	100.0	0.016
W595975		2.0	16.4	212	44.0	0.088
W595976		2.9	11.8	118	119.5	0.016
W595977		<0.1	2.2	5	2.1	<0.005
W595978		4.9	12.3	184	162.0	0.008
W595979		2.5	13.8	113	146.0	<0.005
W595980		1.2	14.7	44	55.0	<0.005
W595981		1.4	15.5	62	60.6	<0.005
W595982		1.9	16.8	64	64.4	<0.005
W595983		1.8	16.1	63	60.5	<0.005
W595984		7.3	9.5	3320	23.5	1.720
W595985		1.2	13.9	57	53.4	<0.005
W595986		2.6	14.2	152	71.8	0.012
W595987		1.6	12.4	216	85.9	0.017
W595988		1.3	11.4	162	87.0	<0.005
W595989		1.3	12.8	153	89.2	<0.005
W595990		1.5	11.9	143	130.0	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275611

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275613

Project: Klaza

P.O. No.: 19-125

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275613

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594601		6.47	1.14	7.22	85.4	1100	1.49	1.26	2.45	1.44	53.3	7.0	8	26.4	45.7	3.01
W594602		4.95	1.28	6.99	63.2	2380	1.47	1.43	3.11	4.02	41.9	7.2	18	19.80	201	3.15
W594603		5.84	0.41	6.95	19.7	2340	1.47	0.81	2.68	0.17	40.2	11.1	11	18.50	102.0	3.11
W594604		6.80	0.56	7.71	20.6	2470	1.72	1.37	2.80	0.30	45.0	6.1	11	17.55	115.0	3.38
W594605		6.06	1.21	7.57	138.0	1440	1.68	1.23	2.21	0.32	50.1	5.0	10	27.4	401	3.47
W594606		3.93	5.20	6.35	274	210	1.42	6.86	2.22	4.08	63.2	14.0	9	16.00	315	6.12
W594607		3.22	0.91	8.30	75.8	1930	1.42	1.50	1.06	0.29	71.3	9.1	9	22.1	325	2.39
W594608		0.26	39.2	5.69	2570	100	1.23	35.4	1.69	44.1	33.2	16.6	24	10.10	1190	9.27
W594609		3.27	0.69	7.73	67.2	2220	1.57	1.08	2.17	0.28	44.3	6.0	9	29.3	218	2.55
W594610		5.20	0.17	7.68	4.8	2380	1.71	0.91	2.81	0.20	43.3	6.9	11	14.70	24.7	3.05
W594611		3.62	0.26	7.73	13.0	2080	1.72	1.98	2.66	0.17	48.3	10.1	11	13.65	69.2	3.05
W594612		3.47	0.18	7.81	7.4	2240	1.75	1.27	2.73	0.18	49.2	6.7	11	13.05	20.2	3.23
W594613		4.30	1.95	7.48	94.5	330	1.41	7.45	1.61	2.41	57.9	16.1	9	12.40	103.5	4.14
W594614		2.95	6.51	7.86	76.3	890	1.47	10.55	1.47	6.64	52.5	6.6	8	15.95	315	4.47
W594615		6.15	0.22	7.84	13.7	1940	1.36	0.97	2.07	0.40	43.5	8.1	9	15.25	35.5	3.18
W594616		5.49	0.39	7.99	17.3	2050	1.38	0.96	2.61	0.86	48.1	6.8	10	14.45	59.9	3.56
W594617		4.92	0.27	7.67	13.2	2140	1.39	0.75	2.75	0.20	45.0	6.0	13	10.95	51.2	3.17
W594618		2.35	0.33	7.89	17.0	2150	1.48	0.78	2.84	0.23	50.1	6.7	10	12.50	64.4	3.38
W594619		6.16	0.20	7.65	13.7	2210	1.46	0.59	2.57	0.23	45.8	6.7	11	11.00	29.4	3.05
W594620		4.93	0.20	7.77	9.7	2250	1.47	0.53	2.57	0.28	46.8	6.2	10	9.57	16.3	3.23
W594621		5.43	0.44	8.13	20.4	2480	1.30	1.16	1.91	0.36	48.4	7.9	13	15.10	60.4	2.95
W594622		5.04	<0.01	0.16	0.3	20	0.09	0.02	32.9	0.03	1.09	0.6	1	0.06	2.0	0.14
W594623		5.61	0.36	7.83	22.8	2760	1.14	0.93	2.83	0.53	43.1	6.4	11	20.8	14.7	2.45
W594624		2.13	0.13	7.70	6.8	2300	1.42	0.27	2.88	0.22	50.1	7.5	11	11.20	16.2	3.18
W594625		3.94	0.37	6.97	82.7	2820	1.29	1.04	2.82	0.65	38.9	5.7	9	28.8	57.3	3.37
W594626		6.35	0.18	7.77	9.8	2500	1.38	0.42	2.86	0.46	47.9	7.1	11	18.15	19.8	3.09
W594627		5.94	0.15	7.80	8.0	2230	1.50	0.29	2.95	0.20	47.3	7.7	11	18.65	11.7	3.14
W594628		5.44	0.59	7.23	29.4	2170	1.46	0.45	2.82	4.91	42.3	7.5	10	20.2	22.3	3.20
W594629		0.11	18.80	3.41	267	200	0.52	10.60	2.30	49.6	23.2	18.1	48	1.03	2300	9.13
W594630		2.90	0.12	7.59	8.2	2310	1.45	0.16	2.30	0.22	40.5	6.2	10	23.1	14.1	2.96
W594631		3.27	0.50	8.08	15.5	2380	1.59	1.20	1.15	1.38	60.1	8.1	9	9.30	37.2	2.66
W594632		2.62	0.25	7.99	10.1	2050	1.57	0.88	1.69	0.54	56.9	5.3	10	10.25	61.8	2.85
W594633		4.68	0.34	7.64	15.9	1780	1.52	1.99	0.84	0.38	33.8	4.5	10	9.75	65.8	2.65
W594634		3.27	0.25	7.69	16.3	1890	1.59	3.21	1.73	0.81	55.9	11.0	9	8.55	74.8	3.40
W594635		4.09	0.26	7.63	11.0	2030	1.41	1.06	2.12	0.41	50.4	5.4	9	9.80	76.5	2.94
W594636		<0.02	0.23	7.78	10.9	2070	1.55	1.14	2.16	0.44	54.5	5.4	10	9.90	79.7	3.08
W594637		6.00	0.32	7.97	20.0	2450	1.46	1.22	2.01	0.66	53.5	5.6	10	11.80	152.0	3.13
W594638		1.38	0.50	7.98	62.0	390	1.15	3.90	1.87	0.97	55.0	4.9	9	10.20	80.6	3.83
W594639		4.32	0.34	7.70	25.9	1270	1.43	1.35	1.93	0.64	55.7	5.4	8	10.40	92.4	3.00
W594640		4.58	0.26	7.66	24.3	2990	1.38	1.08	2.31	0.47	50.2	6.1	10	13.15	99.7	3.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594601		15.25	0.11	0.9	0.115	2.80	29.8	16.7	0.91	1120	1.71	0.04	7.2	2.9	600	55.8
W594602		15.30	0.09	0.8	0.134	2.95	22.0	10.7	0.93	957	1.62	1.04	7.0	3.1	600	77.5
W594603		15.95	0.10	0.9	0.080	2.75	20.6	11.3	0.71	439	1.29	1.87	7.6	2.8	610	17.7
W594604		17.10	0.11	1.0	0.090	3.01	23.7	11.3	0.82	469	7.22	2.00	8.2	2.9	660	25.3
W594605		17.20	0.11	0.9	0.108	3.29	26.9	18.8	0.82	627	1.77	0.11	7.9	2.7	620	32.3
W594606		14.35	0.12	0.8	0.211	3.06	33.5	6.8	0.98	2150	6.41	0.06	5.5	3.1	480	99.5
W594607		18.50	0.10	1.0	0.187	3.72	40.1	20.5	0.48	352	2.31	0.11	7.9	2.3	620	19.6
W594608		14.15	0.10	0.9	1.550	2.66	17.2	17.3	0.66	2350	17.35	0.06	4.8	15.6	450	1660
W594609		16.90	0.10	1.0	0.099	3.59	22.6	22.3	0.67	490	11.85	0.19	8.2	2.6	620	23.0
W594610		16.70	0.11	1.0	0.076	2.77	22.1	12.3	0.75	448	2.75	2.27	8.5	2.6	630	21.2
W594611		17.30	0.11	1.0	0.101	2.76	25.6	13.7	0.81	376	3.34	2.24	8.8	3.0	630	18.6
W594612		17.75	0.13	1.1	0.079	2.74	25.8	14.1	0.87	395	0.96	2.29	9.1	2.9	640	19.1
W594613		16.20	0.12	1.0	0.208	3.56	31.8	8.3	0.72	364	0.88	0.38	4.5	2.7	540	107.0
W594614		19.05	0.10	1.1	0.703	3.30	29.2	12.1	0.62	488	0.52	0.14	7.9	2.8	620	105.5
W594615		16.75	0.10	1.0	0.109	2.77	22.4	17.2	0.58	469	0.51	0.93	8.5	2.5	650	27.7
W594616		16.90	0.12	1.1	0.089	2.77	25.0	14.5	0.81	461	0.60	1.79	8.6	2.6	670	35.8
W594617		16.55	0.12	0.9	0.087	2.72	23.2	11.4	0.82	551	1.17	2.09	7.8	2.4	610	21.9
W594618		18.15	0.11	1.0	0.098	2.80	26.3	12.4	0.89	594	1.01	2.13	8.8	2.6	630	23.9
W594619		17.30	0.10	1.0	0.058	2.61	24.2	12.2	0.83	384	0.94	2.26	8.3	2.6	620	23.2
W594620		17.25	0.12	1.1	0.060	2.71	24.1	14.3	0.92	418	0.85	2.33	8.3	2.5	620	23.9
W594621		17.80	0.15	1.1	0.052	3.54	26.1	12.2	0.63	402	2.70	1.41	8.6	3.4	740	26.6
W594622		0.53	0.10	0.1	0.006	0.06	1.2	1.1	1.89	130	0.09	0.07	0.3	0.5	70	0.5
W594623		17.55	0.18	1.1	0.038	3.44	22.1	10.9	0.64	406	1.54	1.67	8.4	2.3	700	35.3
W594624		17.80	0.15	1.1	0.045	2.75	25.0	11.9	0.86	489	2.22	2.30	8.9	2.5	640	19.3
W594625		15.65	0.12	0.9	0.053	2.65	20.7	17.7	0.84	592	0.90	0.47	7.2	2.0	560	21.7
W594626		17.55	0.16	1.0	0.061	2.74	24.6	10.9	0.75	523	1.01	2.28	8.4	2.6	610	24.9
W594627		17.95	0.11	1.2	0.053	2.74	24.3	12.3	0.78	597	0.72	2.40	8.8	2.7	650	21.0
W594628		16.75	0.12	0.9	0.056	2.56	21.3	10.8	0.70	572	0.85	2.13	8.0	2.5	640	100.5
W594629		13.65	0.17	1.4	1.960	0.47	12.6	27.7	2.65	531	13.35	0.10	3.4	31.7	420	1080
W594630		18.10	0.10	1.0	0.050	2.97	20.1	15.4	0.58	467	0.71	1.38	8.7	2.1	640	18.2
W594631		18.05	0.16	1.0	0.099	2.81	34.7	11.8	0.65	233	4.46	3.04	8.0	2.4	650	34.1
W594632		18.20	0.14	1.1	0.094	2.63	30.6	18.3	0.91	248	1.61	2.63	8.0	2.3	630	26.5
W594633		17.65	0.12	1.2	0.107	2.66	20.1	16.3	0.80	157	3.58	2.46	6.9	2.1	630	32.1
W594634		18.20	0.12	1.1	0.128	2.43	30.6	15.1	0.94	301	2.53	2.86	8.7	2.5	670	28.3
W594635		17.75	0.13	1.2	0.118	2.61	27.5	17.1	0.90	303	5.64	2.53	8.5	2.3	630	26.3
W594636		18.15	0.13	1.2	0.129	2.62	29.7	17.1	0.93	314	6.42	2.56	8.5	2.5	640	26.9
W594637		17.95	0.15	1.1	0.120	2.95	28.9	17.3	0.86	251	1.03	2.51	7.8	2.2	630	28.6
W594638		17.40	0.13	1.1	0.273	4.57	28.7	12.0	0.70	247	1.14	1.85	6.4	1.9	640	50.0
W594639		16.80	0.13	1.1	0.139	3.04	31.1	10.8	0.64	254	0.72	2.44	6.9	1.9	600	26.1
W594640		17.55	0.11	1.2	0.081	3.01	27.0	16.7	0.67	299	2.53	1.64	8.2	2.6	610	21.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594601		132.5	<0.002	1.02	13.25	10.0	1	3.3	71.9	0.56	0.08	12.65	0.239	2.54	4.5	67
W594602		107.0	<0.002	0.67	23.7	9.7	1	2.4	258	0.53	0.18	10.60	0.242	2.02	3.9	68
W594603		100.0	<0.002	0.50	1.98	10.2	1	2.4	361	0.55	0.15	10.45	0.253	1.68	2.8	71
W594604		117.0	<0.002	0.41	3.15	11.2	1	3.0	388	0.61	0.36	12.30	0.272	1.90	3.5	77
W594605		142.0	<0.002	0.96	23.3	10.8	1	3.9	114.0	0.63	0.17	13.50	0.252	2.72	4.3	72
W594606		189.5	<0.002	5.01	26.0	9.7	2	7.3	48.6	0.45	1.11	11.55	0.181	2.75	3.5	63
W594607		178.5	<0.002	0.74	25.3	11.6	1	5.6	86.6	0.65	0.18	14.90	0.264	2.51	3.4	75
W594608		140.0	0.002	7.85	105.5	8.2	1	11.2	61.3	0.40	0.76	8.38	0.162	2.19	5.4	56
W594609		118.5	<0.002	0.32	33.4	10.4	1	3.3	131.0	0.68	0.05	10.90	0.263	2.31	3.0	72
W594610		94.4	<0.002	0.07	1.43	10.3	1	2.1	413	0.74	0.05	11.75	0.265	1.25	3.4	72
W594611		109.0	<0.002	0.60	1.63	11.1	<1	2.9	387	0.74	0.21	12.35	0.268	1.54	4.0	75
W594612		103.0	<0.002	0.16	1.60	11.4	<1	2.5	412	0.78	0.27	12.55	0.271	1.46	3.5	75
W594613		193.0	<0.002	3.35	8.01	9.3	1	8.2	82.2	0.39	0.94	18.25	0.158	2.62	3.5	59
W594614		149.5	<0.002	1.96	15.50	10.5	1	5.0	81.7	0.61	0.63	13.10	0.245	2.15	4.4	70
W594615		96.1	<0.002	0.33	7.61	10.2	<1	2.2	204	0.68	0.24	11.15	0.271	1.35	3.5	76
W594616		106.0	<0.002	0.24	3.25	10.9	<1	2.1	309	0.67	<0.05	12.75	0.278	1.30	4.3	78
W594617		101.0	<0.002	0.27	2.35	10.0	<1	2.0	353	0.57	0.15	11.60	0.256	1.33	3.4	70
W594618		114.0	<0.002	0.29	2.61	11.2	<1	2.3	357	0.59	0.19	12.75	0.268	1.42	4.0	74
W594619		104.5	<0.002	0.28	2.05	10.6	<1	2.4	383	0.61	0.17	11.90	0.260	1.25	3.9	71
W594620		98.2	<0.002	0.23	1.81	10.4	<1	2.0	421	0.60	0.06	12.65	0.267	1.13	3.7	73
W594621		164.5	0.002	1.00	29.8	11.9	1	2.8	256	0.65	0.20	14.65	0.278	1.87	4.6	80
W594622		1.6	<0.002	0.01	0.07	0.2	1	<0.2	78.7	<0.05	<0.05	0.16	0.005	0.02	0.2	1
W594623		128.5	<0.002	0.33	7.85	10.5	<1	1.8	335	0.61	0.05	12.80	0.271	1.76	3.6	75
W594624		95.1	<0.002	0.04	1.90	11.0	<1	1.8	408	0.63	<0.05	13.40	0.272	1.12	3.8	76
W594625		99.6	<0.002	0.81	7.64	9.0	1	3.6	148.0	0.52	0.06	10.70	0.232	1.75	3.7	65
W594626		101.0	<0.002	0.07	1.42	10.5	1	1.8	415	0.57	0.07	12.65	0.262	1.08	3.7	72
W594627		97.7	<0.002	0.06	1.16	11.1	<1	1.8	417	0.62	<0.05	12.35	0.273	1.15	3.8	77
W594628		87.2	<0.002	0.42	2.16	10.2	<1	2.1	389	0.55	0.10	10.90	0.264	1.12	3.9	76
W594629		18.4	0.016	7.04	47.4	6.4	35	18.7	79.1	0.25	0.32	2.83	0.120	6.33	2.7	75
W594630		95.9	<0.002	0.03	5.22	10.0	<1	1.8	286	0.61	<0.05	11.00	0.266	1.30	2.6	73
W594631		125.5	<0.002	0.69	2.00	10.8	1	4.8	278	0.62	0.52	13.95	0.250	1.59	3.6	70
W594632		105.5	<0.002	0.22	1.08	10.6	<1	3.4	345	0.58	0.35	11.80	0.258	1.32	3.2	73
W594633		110.5	<0.002	0.38	1.34	10.4	1	4.4	243	0.53	0.97	11.60	0.229	1.34	2.9	74
W594634		98.8	<0.002	0.70	1.58	11.7	1	4.7	313	0.66	1.80	14.55	0.278	1.23	3.8	80
W594635		96.7	<0.002	0.23	1.03	10.6	<1	4.2	349	0.63	0.54	13.60	0.262	1.25	3.4	71
W594636		99.6	0.002	0.24	1.08	10.9	<1	4.2	353	0.65	0.53	14.10	0.269	1.30	3.6	73
W594637		118.0	<0.002	1.01	1.30	10.7	1	4.1	318	0.61	0.38	15.60	0.246	1.69	4.0	71
W594638		167.5	<0.002	2.77	2.13	11.3	1	4.7	238	0.50	0.57	13.70	0.208	2.50	5.6	69
W594639		127.0	<0.002	1.47	1.69	10.3	1	4.2	234	0.55	0.26	14.05	0.223	1.91	4.3	66
W594640		110.5	<0.002	0.75	16.20	10.6	<1	3.9	262	0.63	0.28	15.20	0.250	1.53	3.4	69

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275613

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594601		4.1	13.5	151	20.9	0.020
W594602		2.3	14.3	297	19.4	0.059
W594603		1.1	14.0	57	20.4	0.628
W594604		1.3	15.7	72	22.7	0.050
W594605		2.2	14.1	103	21.4	0.163
W594606		5.8	10.6	322	22.3	0.665
W594607		2.7	15.1	70	24.3	0.118
W594608		7.2	9.5	3370	24.4	1.645
W594609		2.0	15.4	67	24.3	0.072
W594610		0.7	15.9	46	23.4	0.005
W594611		0.8	16.8	49	24.3	0.039
W594612		0.7	17.3	52	26.0	0.020
W594613		2.6	14.7	207	24.0	0.264
W594614		2.7	16.2	586	24.7	0.088
W594615		2.4	16.4	67	23.3	0.018
W594616		1.1	17.1	83	25.4	0.032
W594617		0.9	15.1	55	21.8	0.038
W594618		0.9	16.5	59	25.4	0.051
W594619		0.7	15.7	55	24.0	0.030
W594620		0.7	17.5	55	25.7	0.009
W594621		2.6	14.2	67	25.4	0.074
W594622		<0.1	2.5	7	1.6	<0.005
W594623		2.7	14.8	75	28.3	0.014
W594624		0.7	17.2	50	28.9	0.005
W594625		1.7	13.9	74	21.3	0.038
W594626		0.9	16.2	63	24.7	0.008
W594627		0.7	17.7	54	28.3	<0.005
W594628		0.7	14.5	369	24.0	0.064
W594629		1.9	10.6	7460	48.5	0.301
W594630		1.2	14.6	57	26.8	<0.005
W594631		2.6	18.4	101	28.0	0.052
W594632		1.4	17.9	85	28.1	0.140
W594633		1.6	10.2	76	30.1	0.413
W594634		1.0	19.6	80	29.2	0.217
W594635		0.8	17.8	62	31.1	0.074
W594636		0.8	18.2	64	30.2	0.084
W594637		0.8	17.7	70	29.8	0.125
W594638		1.3	17.3	90	30.4	0.184
W594639		1.3	16.0	84	29.1	0.070
W594640		1.4	14.8	77	31.8	0.075

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275613

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275616

Project: Klaza

P.O. No.: 19-126

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275616

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594641		4.68	0.06	7.21	19.7	2110	1.75	0.14	3.45	0.43	55.6	6.2	18	18.65	7.9	2.63
W594642		3.21	0.23	6.93	54.7	2460	1.60	0.21	3.01	0.79	51.5	7.6	17	17.30	12.8	2.62
W594643		3.43	0.45	7.40	20.3	2090	1.34	1.61	1.87	0.32	45.1	6.1	9	14.15	67.4	3.12
W594644		4.98	0.31	7.48	15.4	2920	1.45	1.47	2.41	0.23	54.2	7.1	10	12.35	89.9	2.95
W594645		5.38	0.84	7.24	31.3	1750	1.45	3.79	2.40	0.52	44.0	6.6	10	17.10	118.5	3.28
W594646		5.70	0.65	7.40	42.9	1560	1.36	2.57	2.03	0.71	45.5	6.7	8	19.60	87.0	3.50
W594647		4.59	0.38	7.71	14.8	2130	1.45	1.43	2.15	0.33	56.2	9.8	9	12.90	165.5	3.08
W594648		0.11	17.20	3.24	252	200	0.47	10.30	2.20	45.6	21.2	16.7	46	0.92	2180	8.68
W594649		4.74	0.62	7.45	24.9	1060	1.41	2.26	2.01	0.42	52.8	12.4	9	13.45	114.0	2.76
W594650		4.23	1.18	7.14	63.3	1080	1.30	2.23	2.16	0.61	53.3	13.3	8	17.40	389	2.80
W594651		5.88	0.55	7.41	33.7	1320	1.48	1.19	2.07	0.56	66.1	18.5	10	15.35	182.0	2.68
W594652		5.25	0.55	7.49	25.7	1780	1.55	1.16	2.02	0.42	58.6	11.5	8	15.60	145.0	2.62
W594653		5.71	0.90	7.59	33.1	1760	1.30	1.38	2.10	1.05	64.0	12.3	9	16.80	142.0	2.55
W594654		3.46	0.77	8.07	30.2	1220	1.37	1.35	2.05	0.72	58.5	19.0	7	16.55	143.5	2.44
W594655		5.35	0.47	7.55	20.7	1950	1.61	1.26	2.42	0.39	49.6	9.8	8	18.55	64.1	2.62
W594656		5.95	0.57	7.43	31.9	800	1.52	1.26	1.81	0.32	68.7	29.0	7	15.40	28.7	2.84
W594657		5.84	0.40	7.14	18.0	1030	1.62	1.12	2.26	0.51	52.1	14.1	9	15.65	47.7	3.00
W594658		3.01	0.43	7.28	18.9	600	1.57	0.96	2.31	0.52	52.0	17.4	8	14.20	36.3	3.34
W594659		3.91	0.73	7.20	25.0	2000	1.62	1.60	2.37	0.34	42.3	8.0	8	16.40	45.0	2.90
W594660		5.19	0.31	7.27	21.2	910	1.47	2.42	2.23	0.33	51.2	13.5	8	11.75	80.8	3.28
W594661		5.32	0.33	7.19	10.6	2250	1.56	1.77	2.48	0.31	42.6	9.7	8	13.15	40.6	2.99
W594662		2.88	0.82	6.97	46.6	1400	1.38	3.54	2.58	0.61	48.2	9.1	8	18.50	164.5	3.17
W594663		4.74	1.73	8.04	17.2	2490	1.69	1.08	1.94	1.32	51.6	8.0	12	10.45	36.3	3.31
W594664		5.61	0.19	7.81	13.3	2430	1.66	0.59	2.47	0.88	50.3	6.4	11	10.30	23.2	3.14
W594665		4.99	0.01	0.11	<0.2	30	0.08	0.03	32.8	0.02	1.14	0.6	1	0.06	4.4	0.13
W594666		5.92	0.13	7.38	6.9	2390	1.56	0.75	2.75	0.14	42.9	7.3	10	7.54	17.3	3.16
W594667		7.45	0.16	7.59	12.9	2520	1.63	1.07	1.94	0.96	46.9	7.2	10	11.35	27.1	3.06
W594668		4.46	0.46	7.87	56.9	1830	1.65	2.63	1.56	6.46	53.6	8.5	9	20.3	105.0	3.60
W594669		6.37	0.16	7.28	19.2	2400	1.56	1.94	2.43	2.22	39.3	7.5	9	17.75	36.8	3.14
W594670		<0.02	0.16	7.14	19.4	2300	1.51	2.30	2.30	2.11	41.6	7.3	9	17.95	35.1	3.03
W594671		6.30	0.21	7.54	19.6	2290	1.76	2.88	1.91	3.85	52.9	9.4	9	18.55	28.0	3.28
W594672		5.73	1.61	7.00	69.8	870	1.47	5.79	2.39	5.70	48.9	12.0	9	12.20	461	3.62
W594673		5.58	0.69	7.02	40.8	2150	1.55	1.68	2.26	2.95	41.7	11.1	7	20.7	150.5	3.11
W594674		5.26	0.18	7.08	16.9	2140	1.56	0.66	2.44	1.47	42.4	8.4	8	16.95	40.6	2.97
W594675		3.05	0.81	7.22	46.1	1720	1.63	1.11	2.15	0.79	47.5	9.0	7	23.7	128.0	3.15
W594676		6.25	1.61	7.25	53.9	1990	1.62	1.73	2.40	3.63	47.8	7.7	8	17.30	280	3.29
W594677		0.26	37.1	5.65	2480	110	1.16	33.3	1.68	41.9	34.6	16.4	22	9.35	1160	9.04
W594678		4.58	44.8	7.33	31.6	2000	1.56	31.0	1.65	7.52	51.0	8.6	8	13.10	280	3.58
W594679		5.62	1.51	7.00	63.7	2000	1.57	2.10	2.05	7.13	44.4	7.7	8	16.10	232	3.39
W594680		5.46	0.51	7.61	11.5	2230	1.42	1.58	2.13	2.87	49.3	8.0	9	11.50	30.5	3.30

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594641		19.45	0.12	3.5	0.027	2.78	27.5	38.8	1.07	633	1.06	0.05	10.7	5.9	1140	14.5
W594642		18.00	0.14	3.0	0.049	2.62	26.2	30.8	1.02	640	1.42	0.38	9.7	5.6	1020	22.9
W594643		17.25	0.13	1.1	0.109	2.90	22.4	22.6	0.57	448	1.04	1.20	8.1	2.2	600	25.7
W594644		17.85	0.12	1.1	0.079	2.71	28.5	10.9	0.70	288	1.20	2.35	7.9	2.4	580	20.9
W594645		17.85	0.12	1.2	0.104	2.66	22.8	11.8	0.66	347	1.97	2.09	8.3	2.2	610	36.2
W594646		19.20	0.12	1.2	0.103	2.87	23.6	32.7	0.68	443	2.19	0.55	8.1	2.2	610	26.0
W594647		17.70	0.13	1.1	0.086	2.61	31.6	13.6	0.78	303	1.37	2.19	8.2	2.1	610	20.4
W594648		12.55	0.18	1.4	1.765	0.45	11.7	25.5	2.51	503	12.25	0.10	3.1	29.8	400	1015
W594649		18.25	0.11	1.1	0.075	2.84	28.9	20.2	0.63	227	1.18	2.08	6.7	2.4	600	29.8
W594650		17.00	0.11	1.0	0.094	3.02	30.7	27.0	0.78	286	1.26	1.26	5.6	4.4	590	44.1
W594651		16.45	0.10	1.0	0.069	3.23	39.5	19.2	0.71	245	0.91	2.01	5.8	2.3	610	33.8
W594652		17.60	0.11	1.1	0.081	2.86	32.7	18.2	0.63	244	0.91	1.62	6.8	2.5	620	28.3
W594653		17.65	0.12	1.2	0.086	3.10	36.3	24.8	0.70	297	5.27	0.27	6.7	2.1	640	54.4
W594654		18.35	0.12	1.0	0.067	3.04	31.8	32.2	0.51	205	1.99	0.48	6.8	2.6	650	40.7
W594655		18.45	0.12	1.1	0.075	2.95	26.6	20.4	0.63	324	0.88	1.22	7.4	2.3	630	60.0
W594656		16.60	0.13	1.0	0.052	2.74	40.9	78.8	0.67	390	2.65	0.31	5.2	2.4	610	33.8
W594657		16.50	0.12	1.0	0.062	2.74	28.5	11.5	0.68	256	4.02	1.93	6.4	2.2	590	34.9
W594658		15.35	0.08	1.0	0.068	2.77	29.9	10.2	0.68	263	5.62	1.99	6.0	2.3	610	32.7
W594659		17.00	0.10	1.1	0.072	2.77	22.1	14.9	0.67	309	1.60	1.70	7.6	2.1	630	33.9
W594660		17.10	0.11	1.1	0.066	2.78	27.2	15.5	0.82	247	1.40	2.00	6.9	2.6	600	21.8
W594661		17.20	0.10	1.1	0.066	2.64	22.6	14.0	0.85	297	0.98	2.11	8.0	2.3	610	27.1
W594662		17.25	0.11	1.0	0.108	2.61	26.6	25.0	0.81	532	2.76	0.68	7.4	2.4	610	32.0
W594663		17.20	0.13	1.3	0.087	2.76	28.1	15.5	0.79	579	2.68	2.10	8.2	4.1	650	34.9
W594664		17.05	0.13	1.2	0.086	2.77	26.8	14.7	0.77	556	1.74	2.24	8.2	2.8	650	19.1
W594665		0.38	0.07	<0.1	0.008	0.03	1.2	1.1	1.99	131	0.05	0.05	0.2	0.5	80	0.6
W594666		17.00	0.13	1.0	0.062	2.59	22.3	14.0	0.86	547	2.81	2.31	8.1	2.7	640	16.4
W594667		16.25	0.13	1.2	0.130	3.01	25.4	12.3	0.67	448	14.95	2.02	7.8	2.7	640	18.7
W594668		18.45	0.12	1.2	0.166	3.04	29.8	31.5	0.54	585	1.61	0.88	8.4	3.1	650	27.8
W594669		16.60	0.12	1.0	0.116	3.03	19.8	17.5	0.75	560	1.84	1.36	7.7	2.6	620	17.6
W594670		15.90	0.12	1.1	0.117	2.89	22.1	17.2	0.71	529	1.60	1.33	7.5	2.4	600	16.6
W594671		17.20	0.11	1.1	0.107	3.19	28.9	18.5	0.54	536	4.19	1.68	7.9	2.8	640	34.3
W594672		16.95	0.11	1.1	0.303	3.15	25.7	9.7	0.78	586	1.15	1.06	7.2	2.4	570	84.6
W594673		15.75	0.11	1.2	0.237	2.89	21.9	34.3	0.73	553	4.12	1.15	7.5	2.9	560	40.6
W594674		16.30	0.11	1.0	0.121	2.67	21.9	13.5	0.65	584	2.98	1.85	7.8	2.5	590	20.0
W594675		16.90	0.11	1.1	0.080	2.92	24.5	26.2	0.56	510	2.57	0.81	8.0	2.5	610	28.5
W594676		16.95	0.13	1.1	0.118	2.92	26.1	17.5	0.61	571	2.23	1.29	7.4	2.5	580	66.1
W594677		13.55	0.11	0.8	1.435	2.59	18.8	15.1	0.67	2270	15.15	0.06	4.5	13.6	430	1625
W594678		15.65	0.12	1.2	0.370	3.00	26.9	13.6	0.55	594	15.50	0.65	7.9	2.7	580	1360
W594679		15.25	0.10	1.2	0.297	2.98	23.5	12.2	0.59	855	86.9	0.82	7.3	2.4	590	269
W594680		15.75	0.12	1.0	0.159	2.81	27.8	14.8	0.76	490	13.35	1.59	7.2	2.5	620	105.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594641		82.5	0.002	0.09	16.25	6.5	<1	1.2	155.0	0.71	<0.05	8.36	0.296	1.53	4.1	64
W594642		79.8	0.002	0.34	14.75	6.8	<1	1.5	178.5	0.64	0.11	7.75	0.287	1.47	4.6	64
W594643		108.0	<0.002	0.52	19.70	10.1	<1	3.0	229	0.63	0.55	12.85	0.248	1.56	2.8	69
W594644		103.0	<0.002	0.98	1.61	10.4	1	2.9	414	0.61	0.65	14.40	0.232	1.31	4.0	66
W594645		102.0	0.002	1.37	2.16	10.4	1	3.9	322	0.64	1.41	11.35	0.247	1.46	3.7	70
W594646		113.5	<0.002	1.55	31.3	10.6	1	4.2	126.5	0.62	0.81	12.80	0.243	1.64	4.4	68
W594647		102.5	<0.002	0.67	1.81	11.2	1	3.1	310	0.58	0.51	14.10	0.250	1.36	3.8	71
W594648		16.7	0.016	6.69	44.4	6.0	28	17.3	72.0	0.24	0.30	2.77	0.112	6.04	2.5	71
W594649		111.5	0.002	1.81	2.20	10.5	1	3.9	272	0.52	0.82	11.80	0.211	1.69	3.5	67
W594650		109.0	<0.002	1.88	13.95	9.3	2	4.8	188.5	0.48	0.49	10.75	0.204	1.75	3.4	66
W594651		117.5	<0.002	1.65	5.53	10.2	1	3.3	277	0.46	0.31	11.35	0.208	1.84	3.7	70
W594652		105.5	<0.002	1.34	7.06	11.0	1	3.4	224	0.52	0.24	12.55	0.228	1.63	3.7	72
W594653		109.0	0.002	1.34	30.9	11.6	1	4.3	91.1	0.54	0.23	13.20	0.232	1.81	6.1	76
W594654		108.0	<0.002	1.78	17.05	11.3	2	3.9	123.5	0.52	0.23	12.95	0.232	1.75	3.8	72
W594655		109.0	<0.002	1.33	10.35	11.5	1	3.4	180.0	0.55	0.43	11.40	0.246	1.74	4.2	73
W594656		122.5	<0.002	2.17	19.45	10.5	2	3.9	96.1	0.42	0.42	12.80	0.183	1.87	3.8	67
W594657		106.5	<0.002	1.59	4.26	10.3	1	3.6	291	0.48	0.26	11.45	0.216	1.56	3.2	66
W594658		103.5	<0.002	1.99	3.88	9.9	1	3.3	293	0.49	0.22	10.70	0.219	1.53	3.5	69
W594659		107.0	<0.002	1.34	10.70	10.6	1	3.7	259	0.64	0.55	10.80	0.243	1.56	3.6	71
W594660		114.5	<0.002	1.84	4.62	10.7	1	3.3	266	0.56	1.23	11.85	0.234	1.59	3.2	70
W594661		94.6	<0.002	0.75	2.05	10.6	1	2.8	325	0.62	0.86	11.15	0.256	1.46	3.8	71
W594662		101.0	<0.002	1.45	44.4	10.7	1	3.5	167.0	0.54	1.59	11.20	0.242	1.65	4.6	70
W594663		109.0	<0.002	0.08	2.54	11.7	1	2.0	347	0.64	0.21	14.50	0.269	1.27	2.8	77
W594664		100.5	<0.002	0.10	1.97	11.5	1	2.0	369	0.64	0.08	13.70	0.268	1.30	2.4	74
W594665		0.9	<0.002	<0.01	0.07	0.2	2	<0.2	76.6	<0.05	<0.05	0.13	0.005	0.02	0.1	1
W594666		85.7	<0.002	0.06	1.17	10.9	<1	1.8	402	0.60	0.05	11.35	0.269	1.08	2.5	74
W594667		118.5	0.002	0.33	1.95	10.5	<1	2.4	312	0.63	0.24	13.35	0.261	1.59	3.1	73
W594668		138.5	<0.002	0.96	15.65	12.1	1	4.2	151.5	0.66	0.52	15.85	0.268	2.14	2.9	75
W594669		97.6	0.002	0.35	4.90	10.3	1	2.0	251	0.63	0.63	10.80	0.257	1.60	2.4	71
W594670		99.4	<0.002	0.37	4.66	10.1	1	2.0	244	0.61	0.79	11.35	0.245	1.55	2.4	68
W594671		123.5	<0.002	0.80	3.46	11.1	1	2.8	280	0.63	1.24	15.50	0.253	1.70	2.9	72
W594672		131.0	<0.002	1.94	4.43	10.3	1	4.8	212	0.59	2.09	11.20	0.231	2.08	5.1	67
W594673		119.5	<0.002	0.75	5.82	9.8	1	2.8	166.0	0.65	0.37	12.75	0.224	2.04	3.5	62
W594674		100.0	0.003	0.26	4.07	10.8	1	2.1	322	0.56	0.11	11.70	0.255	1.36	3.8	70
W594675		114.0	0.002	0.29	7.13	10.9	1	2.7	156.5	0.62	0.39	12.15	0.254	1.78	3.8	70
W594676		120.0	<0.002	0.59	22.5	10.8	1	3.1	252	0.55	0.18	13.60	0.244	1.72	2.8	68
W594677		143.5	0.003	7.62	99.2	8.0	1	9.9	61.8	0.36	0.71	8.47	0.162	2.08	5.1	54
W594678		121.5	0.010	0.46	6.07	10.4	2	3.7	136.0	0.66	18.50	14.60	0.253	1.68	3.5	69
W594679		120.0	0.104	0.77	6.31	9.2	1	3.2	157.5	0.61	0.43	12.20	0.238	2.14	4.2	65
W594680		108.5	0.015	0.51	3.09	10.3	1	2.6	262	0.55	0.31	14.30	0.257	1.45	2.3	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275616

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594641		2.0	12.7	89	142.0	0.008
W594642		2.0	12.2	98	119.0	0.029
W594643		1.5	14.2	82	30.8	0.042
W594644		1.1	16.1	56	30.5	0.079
W594645		1.7	14.9	78	30.4	0.052
W594646		2.8	14.9	86	32.1	0.061
W594647		1.1	15.6	62	29.8	0.108
W594648		1.8	9.6	7100	45.7	0.297
W594649		1.7	14.3	68	28.4	0.065
W594650		3.0	13.0	84	25.0	0.178
W594651		1.8	13.2	74	26.6	0.135
W594652		8.8	14.2	66	30.1	0.154
W594653		2.5	14.6	157	29.1	0.170
W594654		2.3	14.0	103	27.0	0.112
W594655		1.6	14.9	70	27.4	0.078
W594656		2.5	13.6	68	26.0	0.043
W594657		1.3	13.9	71	28.0	0.071
W594658		1.3	12.8	76	24.8	0.081
W594659		1.3	13.6	67	28.6	0.040
W594660		0.9	13.6	66	25.8	0.125
W594661		1.1	14.4	68	28.3	0.061
W594662		1.8	14.8	111	25.4	0.185
W594663		9.8	18.6	131	35.4	0.020
W594664		1.3	17.9	81	29.2	0.010
W594665		<0.1	2.3	5	1.7	<0.005
W594666		1.0	15.9	43	30.3	0.005
W594667		2.3	15.0	81	29.2	0.015
W594668		4.7	17.1	235	32.8	0.037
W594669		1.5	14.5	149	31.3	0.035
W594670		1.5	15.4	139	29.0	0.029
W594671		1.8	15.9	247	31.4	0.053
W594672		4.2	13.9	384	29.8	0.083
W594673		2.2	14.9	330	32.5	0.034
W594674		1.2	15.1	133	29.2	0.010
W594675		2.2	15.3	223	30.5	0.055
W594676		2.4	15.3	359	29.2	0.077
W594677		6.6	8.5	3330	22.8	1.705
W594678		4.8	17.0	861	32.3	0.126
W594679		3.4	13.9	631	31.4	0.181
W594680		1.6	14.1	276	28.2	0.012

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275616

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275619

Project: Klaza

P.O. No.: 19-127

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275619

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W595991		3.95	0.21	6.75	24.7	1810	1.96	0.09	3.63	1.27	38.7	5.6	19	18.10	6.2	2.01
W595992		2.48	0.18	6.76	21.1	860	1.94	0.09	2.99	1.38	41.0	5.4	14	21.5	6.7	2.00
W595993		4.80	0.10	6.81	15.2	780	2.06	0.06	2.65	1.11	40.4	5.0	15	24.3	3.6	2.23
W595994		3.62	0.23	6.91	24.1	1330	2.06	0.06	2.69	2.25	45.6	5.3	15	23.7	15.2	2.25
W595995		4.46	0.12	7.00	18.1	1140	2.17	0.06	2.70	1.32	49.1	4.8	15	22.5	5.4	2.22
W595996		4.13	0.32	6.80	16.8	1610	1.84	0.10	2.40	1.07	46.7	4.9	17	22.5	5.6	2.14
W595997		2.06	1.83	7.39	81.2	1950	1.59	2.57	1.23	6.71	57.2	7.1	24	21.3	65.2	2.62
W595998		4.87	<0.01	0.13	0.3	30	0.05	0.01	32.8	0.02	1.09	0.5	1	0.13	1.7	0.12
W595999		5.15	0.34	6.94	11.1	2130	1.49	0.25	2.72	0.97	39.1	6.8	9	15.85	13.0	2.88
W596000		3.92	0.57	6.79	32.2	1880	1.43	0.43	2.92	2.22	41.7	6.8	9	17.40	17.2	2.80
W596001		4.10	0.64	6.93	17.9	2090	1.42	0.50	2.84	2.89	40.1	6.7	11	13.50	17.4	3.14
W596002		3.87	0.83	6.92	47.2	2010	1.49	1.09	2.74	3.54	39.6	7.8	11	13.85	17.8	2.97
W596003		3.77	0.11	7.17	13.0	2200	1.46	0.11	2.65	0.28	41.1	6.9	11	12.40	6.6	2.84
W596004		1.85	0.10	7.46	9.8	2260	1.70	0.11	2.71	0.22	44.6	7.4	13	10.80	7.1	2.92
W596005		3.62	0.31	7.33	35.4	2190	1.42	0.61	2.51	0.12	40.2	7.2	10	18.80	14.9	2.56
W596006		3.82	0.29	7.53	34.3	2300	1.80	0.80	2.57	0.10	43.7	6.1	9	18.15	31.8	3.05
W596007		4.15	0.09	7.55	9.5	2400	1.76	0.17	3.10	0.10	42.9	6.9	12	12.30	4.7	3.26
W596008		2.80	0.10	7.23	7.3	2400	1.60	0.50	2.76	0.08	40.5	7.6	11	8.92	9.1	2.97
W596009		2.29	0.31	7.52	20.6	2120	1.86	1.19	2.75	0.13	43.8	6.2	9	19.60	24.3	3.02
W596010		2.70	0.35	6.87	27.9	3620	1.98	0.62	3.74	0.12	52.5	7.0	15	21.4	17.6	2.59
W596011		<0.02	0.34	7.00	28.9	3730	2.06	0.65	3.84	0.13	52.0	7.0	15	22.0	18.4	2.66
W596012		3.68	0.20	6.77	26.8	1790	1.73	0.44	3.77	0.18	47.1	6.8	11	19.55	12.6	2.77
W596013		3.83	0.27	7.21	23.1	1890	1.94	0.92	2.69	0.24	45.2	8.7	9	17.85	14.0	2.85
W596014		3.86	0.44	7.22	22.1	2320	1.77	2.67	2.37	0.18	47.0	9.3	12	12.20	47.4	2.99
W596015		3.48	0.49	6.99	38.8	1920	1.83	29.8	2.31	0.29	43.4	9.7	11	16.60	151.0	2.79
W596016		3.95	1.19	7.18	69.8	2960	1.80	27.9	2.48	0.53	44.1	10.8	12	13.60	263	2.98
W596017		0.12	17.30	3.21	262	150	0.52	10.05	2.20	44.9	21.1	17.0	47	0.92	2130	8.65
W596018		4.52	2.99	7.42	149.5	310	1.59	18.80	1.91	1.88	48.5	7.0	9	11.85	168.0	4.20
W596019		4.42	1.36	6.49	58.3	1310	1.36	12.50	2.23	2.69	44.8	19.1	9	12.35	107.5	3.00
W596020		4.22	0.39	6.78	46.9	2010	1.56	3.62	3.25	0.19	41.5	5.9	8	17.05	79.9	2.64
W596021		3.48	0.53	6.97	19.4	2670	1.77	5.83	2.32	0.17	41.5	5.7	10	12.40	183.0	2.80
W596022		4.03	0.79	6.67	68.6	1830	1.66	2.67	2.32	0.53	47.0	15.6	10	12.85	69.6	3.77
W596023		0.26	37.8	5.51	2450	120	1.16	33.1	1.63	41.3	31.6	15.9	22	9.77	1130	8.85
W596024		4.40	0.47	7.44	31.6	2140	1.47	1.52	1.72	0.55	49.8	9.8	9	13.75	36.2	3.26
W596025		3.43	0.23	6.52	25.9	2390	1.50	0.80	2.63	0.25	40.3	6.0	9	19.05	36.7	2.62
W596026		4.34	0.15	6.73	12.4	2210	1.56	0.63	2.35	0.14	35.3	4.7	8	19.35	17.9	2.83
W596027		1.66	0.18	7.35	13.7	1590	1.37	0.69	1.61	0.16	36.2	4.6	9	16.20	16.6	2.88
W596028		5.88	0.07	7.06	7.6	2140	1.77	0.30	2.92	0.12	36.0	7.3	11	16.95	15.5	2.86
W596029		5.82	0.16	7.05	12.2	2050	1.75	0.93	2.66	0.11	36.3	7.0	11	12.45	21.6	3.06
W596030		6.38	0.33	7.02	17.5	2140	1.70	1.19	2.28	0.27	42.8	8.2	10	10.70	18.8	3.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275619

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W595991		18.10	0.12	2.4	0.034	2.77	19.6	23.1	0.74	716	0.69	0.11	8.7	10.6	810	48.6
W595992		17.60	0.09	1.8	0.028	2.83	19.7	16.8	0.73	577	0.81	0.06	8.4	6.2	830	60.7
W595993		19.10	0.09	2.0	0.037	3.04	19.3	17.4	0.69	634	0.65	0.06	9.0	6.2	840	34.8
W595994		18.20	0.12	1.9	0.054	3.00	22.8	14.2	0.78	648	1.04	0.05	8.8	6.6	830	80.4
W595995		17.95	0.11	2.0	0.028	3.08	25.1	12.4	0.81	550	0.73	0.06	8.7	6.8	820	35.6
W595996		16.70	0.19	2.0	0.030	3.02	23.9	12.9	0.74	599	0.59	0.06	8.3	8.9	750	25.1
W595997		18.15	0.18	2.9	0.102	3.02	30.7	17.8	0.59	625	1.66	0.06	8.8	16.5	740	272
W595998		0.39	0.13	0.1	<0.005	0.04	1.1	0.8	1.97	115	<0.05	0.05	0.2	0.3	80	<0.5
W595999		15.15	0.20	1.1	0.056	2.77	19.8	12.7	0.64	603	9.07	1.68	7.4	2.5	570	52.1
W596000		14.75	0.21	1.1	0.051	2.73	21.6	26.2	0.83	1000	4.22	1.44	7.2	2.5	580	120.5
W596001		15.25	0.18	1.1	0.044	2.71	20.2	14.7	0.78	1030	5.64	1.86	7.6	2.6	590	112.0
W596002		15.45	0.18	1.1	0.055	2.78	19.8	30.2	0.75	1320	2.95	1.67	7.5	2.5	600	75.6
W596003		15.60	0.19	1.2	0.039	2.63	20.5	26.8	0.73	613	1.15	1.94	7.8	2.5	620	17.6
W596004		16.30	0.17	1.1	0.041	2.66	23.0	21.7	0.76	590	1.46	2.12	8.1	2.8	630	18.3
W596005		15.30	0.19	0.9	0.111	2.71	20.4	45.8	0.74	526	0.77	0.35	7.7	2.4	640	12.9
W596006		16.05	0.19	1.0	0.108	2.74	22.8	34.4	0.68	502	1.55	1.31	7.9	2.6	620	13.5
W596007		16.30	0.17	1.0	0.070	2.85	21.2	16.0	0.89	651	1.10	2.30	8.5	2.8	660	14.9
W596008		15.85	0.17	0.9	0.105	2.86	20.3	13.9	0.79	559	1.47	2.15	7.8	2.6	610	14.5
W596009		16.45	0.20	1.0	0.139	3.04	22.3	38.3	0.72	615	1.20	0.61	8.1	2.4	660	14.2
W596010		16.55	0.21	2.4	0.098	2.93	27.3	18.9	1.13	698	1.94	0.17	9.5	5.0	900	14.6
W596011		17.00	0.21	2.4	0.098	3.01	27.3	19.1	1.16	716	1.83	0.17	9.4	5.0	920	14.5
W596012		15.45	0.20	1.7	0.081	2.88	24.9	40.7	1.02	751	12.75	0.23	7.9	4.0	730	17.2
W596013		15.15	0.20	1.1	0.220	2.20	22.7	18.7	0.84	545	19.65	1.72	7.7	3.3	590	19.0
W596014		15.85	0.20	1.0	0.216	2.74	24.6	19.5	0.70	499	27.0	1.98	7.9	2.4	580	20.9
W596015		15.85	0.19	0.9	0.316	2.59	22.1	37.1	0.65	532	7.82	1.59	7.4	2.3	570	34.2
W596016		16.00	0.19	1.0	0.437	3.33	22.9	14.4	0.80	705	12.60	1.42	6.6	2.6	610	58.0
W596017		11.80	0.18	1.3	1.760	0.45	11.5	25.6	2.51	492	12.60	0.10	2.9	29.2	400	1025
W596018		16.75	0.19	1.0	0.480	3.47	25.7	9.8	0.70	720	29.0	0.98	5.7	2.7	630	513
W596019		14.85	0.16	1.0	0.403	3.11	23.9	8.9	0.69	512	60.1	1.30	4.4	2.7	540	132.0
W596020		14.80	0.19	1.0	0.265	2.87	21.8	23.8	1.00	522	21.4	0.62	6.8	2.5	540	17.6
W596021		15.20	0.18	1.0	0.324	3.24	21.8	10.7	0.68	456	16.20	2.01	7.5	2.3	560	14.6
W596022		16.15	0.15	1.0	0.185	3.10	24.1	11.4	0.63	616	2.87	1.01	7.3	3.0	560	39.8
W596023		13.10	0.12	0.8	1.455	2.54	17.5	15.1	0.65	2210	16.25	0.06	4.4	13.4	430	1595
W596024		15.80	0.17	1.0	0.151	3.23	26.3	28.5	0.62	520	2.54	0.40	8.1	2.8	620	23.0
W596025		14.95	0.16	0.9	0.134	2.61	20.4	36.8	0.69	618	1.44	0.09	7.3	2.4	580	14.5
W596026		15.25	0.16	1.0	0.088	2.57	17.4	40.1	0.56	402	2.81	0.58	8.0	2.2	590	14.9
W596027		15.40	0.15	0.9	0.063	1.72	17.7	45.3	0.51	675	1.62	0.05	7.9	1.9	680	9.3
W596028		15.65	0.21	1.1	0.048	2.75	17.7	10.7	0.78	657	1.93	2.11	7.9	2.7	600	14.4
W596029		15.60	0.18	1.0	0.079	2.57	17.6	12.8	0.80	674	4.57	1.98	7.5	2.7	610	15.2
W596030		15.85	0.18	1.0	0.075	2.74	22.5	28.0	0.82	622	7.98	1.71	7.4	2.8	590	35.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275619

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W595991		71.7	<0.002	0.08	5.33	5.1	<1	1.4	357	0.67	<0.05	7.24	0.281	1.46	5.1	50
W595992		77.4	<0.002	0.05	4.62	5.4	<1	1.3	323	0.62	<0.05	6.98	0.275	1.42	4.2	52
W595993		87.0	<0.002	0.05	3.90	5.6	1	1.5	337	0.69	<0.05	7.36	0.278	1.62	5.1	49
W595994		93.9	<0.002	0.09	4.48	5.8	1	1.6	296	0.63	<0.05	7.64	0.284	1.47	8.6	47
W595995		100.5	<0.002	0.05	3.51	5.6	1	1.4	326	0.63	<0.05	8.33	0.272	1.40	4.5	51
W595996		100.0	<0.002	0.16	3.85	5.2	1	1.3	303	0.61	<0.05	8.47	0.262	1.53	4.9	48
W595997		111.0	<0.002	0.65	12.95	6.0	1	2.1	161.5	0.66	<0.05	10.75	0.270	1.62	7.5	54
W595998		1.3	<0.002	<0.01	0.05	0.2	2	<0.2	74.4	<0.05	<0.05	0.11	0.006	0.02	0.2	1
W595999		91.3	0.003	0.09	5.51	9.2	1	1.5	291	0.60	0.06	11.55	0.246	1.02	2.9	67
W596000		100.5	0.003	0.38	6.65	9.4	1	1.6	305	0.59	0.10	11.60	0.239	1.36	4.1	67
W596001		91.7	0.002	0.35	4.21	9.7	1	1.7	330	0.59	0.15	11.65	0.252	1.07	3.3	71
W596002		104.0	<0.002	0.61	6.63	9.4	1	2.1	319	0.62	0.24	11.25	0.248	1.35	3.1	69
W596003		94.4	<0.002	0.07	2.36	10.4	<1	1.4	368	0.61	<0.05	12.05	0.264	1.11	3.3	73
W596004		100.0	<0.002	0.07	1.99	10.8	1	1.5	386	0.59	<0.05	11.95	0.267	1.08	3.2	73
W596005		91.4	<0.002	0.28	7.10	10.3	1	2.5	183.5	0.59	0.05	11.20	0.264	1.53	3.4	73
W596006		102.5	<0.002	0.41	5.77	10.9	1	2.7	296	0.64	0.17	12.15	0.268	1.47	5.1	76
W596007		93.1	<0.002	0.08	1.86	11.4	1	1.7	414	0.64	<0.05	11.35	0.288	1.32	3.4	83
W596008		93.3	<0.002	0.09	1.62	10.2	1	1.5	373	0.57	<0.05	10.75	0.260	1.30	3.0	72
W596009		118.5	0.002	0.44	7.03	11.5	1	1.9	209	0.60	0.09	11.80	0.283	1.91	4.9	78
W596010		123.0	<0.002	0.42	7.07	7.9	1	1.3	220	0.61	0.12	10.15	0.269	2.56	4.6	63
W596011		124.5	<0.002	0.42	7.38	8.1	1	1.4	224	0.62	0.14	10.20	0.276	2.61	4.7	65
W596012		100.0	0.002	0.18	8.12	8.3	1	1.9	217	0.58	<0.05	10.80	0.256	1.95	4.8	64
W596013		101.5	0.010	0.46	4.83	10.1	1	4.2	271	0.61	0.12	13.30	0.246	1.64	3.7	68
W596014		101.0	0.005	0.46	3.92	10.4	1	2.3	336	0.65	0.15	14.80	0.245	1.48	4.1	69
W596015		111.0	0.002	0.44	9.31	9.9	1	2.0	277	0.57	0.27	13.60	0.240	1.90	3.5	69
W596016		141.0	0.002	1.00	20.9	10.7	1	3.1	198.0	0.55	0.46	13.10	0.226	2.33	4.9	70
W596017		17.2	0.016	6.63	44.0	5.8	29	17.1	71.0	0.23	0.31	2.62	0.111	6.31	2.4	71
W596018		167.0	0.002	2.82	12.95	11.0	1	5.0	135.5	0.46	0.48	13.85	0.210	2.67	5.2	77
W596019		138.5	0.003	1.41	4.96	9.5	1	3.7	189.0	0.39	0.58	12.20	0.159	2.25	4.1	64
W596020		123.0	0.004	0.62	8.04	9.3	1	2.6	178.5	0.58	0.27	13.70	0.218	2.16	5.0	63
W596021		133.5	0.002	0.50	4.70	9.8	1	2.3	292	0.62	0.32	13.45	0.234	2.01	4.4	66
W596022		137.0	<0.002	1.53	5.59	9.7	1	5.3	224	0.58	0.24	12.30	0.222	1.73	4.5	65
W596023		139.5	0.002	7.46	100.0	7.6	2	9.8	58.1	0.35	0.66	8.54	0.154	2.05	5.0	54
W596024		124.0	0.002	0.73	9.53	10.5	1	3.0	132.0	0.60	0.24	13.75	0.258	1.65	4.3	71
W596025		83.6	<0.002	0.35	16.05	9.6	1	2.0	117.0	0.54	0.08	11.35	0.243	1.54	4.2	69
W596026		83.9	<0.002	0.13	11.40	10.1	1	1.7	180.0	0.62	0.07	10.55	0.254	1.24	3.6	72
W596027		58.4	<0.002	0.18	13.05	10.7	1	1.9	75.7	0.59	<0.05	11.00	0.274	1.00	1.3	72
W596028		103.5	<0.002	0.10	1.42	10.6	1	1.6	363	0.64	<0.05	10.75	0.251	0.98	4.0	71
W596029		97.3	0.002	0.23	2.57	10.7	1	2.4	330	0.60	0.06	10.00	0.254	0.94	3.7	72
W596030		114.0	0.005	1.17	2.09	10.7	1	3.7	268	0.55	0.38	11.55	0.240	1.23	3.4	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275619

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W595991		1.2	9.3	211	67.8	0.006
W595992		1.4	10.8	207	52.9	<0.005
W595993		1.3	10.4	178	54.6	<0.005
W595994		1.2	10.5	231	54.5	0.009
W595995		1.5	10.8	196	57.8	<0.005
W595996		1.4	10.7	154	64.1	0.011
W595997		1.7	12.0	619	97.7	0.046
W595998		<0.1	2.1	5	2.0	<0.005
W595999		3.0	13.4	116	29.0	0.007
W596000		3.1	14.3	203	29.3	0.042
W596001		1.8	14.7	327	29.7	0.067
W596002		1.6	14.0	308	29.0	0.046
W596003		1.1	15.1	59	31.2	0.005
W596004		0.9	15.8	57	30.6	<0.005
W596005		5.7	13.3	43	23.6	0.027
W596006		2.4	14.7	41	27.5	0.029
W596007		1.0	16.2	42	27.0	<0.005
W596008		0.8	15.2	38	25.2	0.007
W596009		1.6	15.6	50	27.7	0.023
W596010		3.2	14.3	60	93.7	0.014
W596011		3.2	14.4	62	93.9	0.014
W596012		4.9	14.3	63	61.7	0.009
W596013		2.7	14.2	68	31.7	0.015
W596014		1.3	14.7	53	27.2	0.026
W596015		1.8	13.5	65	26.3	0.068
W596016		2.5	14.0	82	28.0	0.140
W596017		1.7	9.7	7120	43.3	0.275
W596018		4.1	12.7	177	27.4	0.209
W596019		1.9	12.6	257	26.2	0.111
W596020		3.6	13.3	53	28.7	0.038
W596021		1.9	14.0	40	28.4	0.063
W596022		2.2	14.2	67	28.0	0.189
W596023		6.4	8.8	3250	22.9	1.820
W596024		2.7	15.1	62	27.4	0.056
W596025		2.4	12.9	52	25.2	0.016
W596026		1.9	13.1	42	26.2	0.007
W596027		8.5	12.7	45	23.9	0.015
W596028		1.1	15.7	44	30.8	0.014
W596029		1.8	15.4	46	26.4	0.022
W596030		1.7	13.7	51	26.6	0.036

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275619

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275622

Project: Klaza

P.O. No.: 19-128

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275622

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W596031		2.17	0.72	7.15	38.2	1670	1.56	1.34	2.49	3.27	42.0	9.7	10	14.60	48.1	3.51
W596032		6.36	0.17	7.42	13.5	2390	1.53	1.12	2.81	0.15	42.4	8.2	15	9.36	30.7	2.91
W596033		6.26	0.15	7.50	8.8	2450	1.59	0.55	2.79	0.13	41.7	7.9	12	7.65	28.8	2.97
W596034		5.97	0.10	8.03	7.7	2960	1.78	0.47	2.77	0.14	52.7	8.3	17	9.69	13.0	3.13
W596035		4.32	0.20	7.60	10.0	2710	1.62	0.80	2.89	0.12	44.1	7.0	10	9.78	44.4	3.09
W596036		6.01	0.38	7.62	14.2	2830	1.67	0.82	2.98	0.23	47.9	6.4	11	9.16	71.5	3.19
W596037		2.60	0.34	7.42	11.2	2660	1.70	0.80	2.77	0.19	43.8	4.9	10	9.63	74.3	3.07
W596038		6.33	0.28	7.34	18.2	1980	2.05	0.69	2.15	0.22	40.5	7.2	10	7.44	57.7	2.53
W596039		6.13	0.19	7.50	11.5	2350	1.59	0.48	2.72	0.18	41.1	7.5	11	8.14	20.6	2.98
W596040		4.92	0.29	7.14	12.2	2370	1.68	0.52	2.22	0.20	46.0	8.1	11	4.79	45.1	2.84
W596041		3.71	0.14	6.77	26.2	1170	2.49	0.55	1.64	0.17	43.4	6.4	11	6.65	15.4	1.77
W596042		5.01	<0.01	0.09	<0.2	30	0.07	0.01	35.1	<0.02	1.12	0.6	1	<0.05	1.5	0.13
W596043		5.97	0.10	7.86	10.2	2030	2.08	0.27	2.52	0.15	46.3	6.6	12	8.47	13.5	2.65
W596044		6.22	0.13	7.51	7.8	2400	1.65	0.35	2.73	0.13	42.9	8.1	13	7.10	16.7	2.92
W596045		5.87	0.16	7.75	12.3	2330	1.57	1.00	3.01	0.15	45.9	8.2	12	8.90	27.5	3.12
W596046		6.57	0.16	7.21	10.8	2000	1.59	0.70	2.90	0.14	34.7	8.0	9	15.00	35.5	2.76
W596047		6.63	0.11	7.16	5.8	2340	1.52	0.32	3.12	0.12	35.3	7.0	12	12.05	16.6	3.12
W596048		5.52	0.12	7.73	4.9	2310	1.65	0.24	2.93	0.18	42.9	7.1	13	8.83	17.8	2.86
W596049		5.87	0.13	7.46	4.3	2330	1.66	0.20	2.69	0.12	45.4	7.4	12	6.09	24.2	2.82
W596050		<0.02	0.16	7.85	4.5	2350	1.54	0.21	2.75	0.12	49.1	7.4	12	6.24	24.6	2.87
W596051		6.62	0.18	7.67	7.8	2300	1.63	0.42	2.69	0.18	49.9	8.6	12	6.71	19.8	2.87
W596052		5.56	0.15	7.72	7.5	2290	1.83	0.72	2.63	0.26	44.6	6.4	12	7.87	32.0	2.82
W596053		4.97	0.24	7.46	9.0	2180	1.82	0.60	2.88	0.63	43.9	5.1	12	10.55	31.3	2.60
W596054		6.18	0.20	7.59	12.2	4550	1.51	0.48	2.83	0.18	45.1	7.2	12	12.50	10.2	2.64
W596055		6.21	0.13	7.22	7.3	2220	1.53	0.51	2.82	0.21	39.5	7.1	12	10.30	14.7	2.74
W596056		6.39	0.20	7.64	9.8	2380	1.61	0.49	2.51	0.20	49.9	6.7	13	8.49	32.5	2.89
W596057		6.24	0.14	7.16	7.8	3400	1.43	0.52	2.66	0.15	40.2	7.0	12	6.76	15.6	2.92
W596058		0.12	16.20	3.21	260	90	0.48	10.35	2.16	45.8	21.2	16.4	45	0.94	2090	8.43
W596059		6.31	0.11	7.41	6.4	2200	1.59	0.20	2.77	0.15	39.9	6.7	13	3.62	15.9	2.81
W596060		5.77	0.16	7.59	11.1	2250	1.60	0.46	2.45	0.15	55.5	10.2	11	3.95	23.7	2.90
W596061		7.01	0.11	7.57	8.8	2420	1.51	0.34	2.35	0.11	46.9	5.5	12	5.69	23.6	2.89
W596062		3.52	0.18	7.64	5.9	2210	1.62	0.44	2.69	0.09	46.3	7.4	11	7.56	47.8	2.84
W596063		6.90	0.35	7.26	13.8	2280	1.48	1.01	2.92	0.27	49.2	8.6	9	8.72	27.8	2.61
W596064		0.26	36.8	5.75	2530	200	1.16	36.1	1.69	45.4	34.9	16.2	21	9.89	1160	8.97
W596065		5.62	0.21	7.58	14.7	2410	1.52	0.68	2.82	0.19	46.6	8.0	10	7.23	50.6	2.85
W596066		6.20	0.14	7.63	9.0	2340	1.60	0.51	2.78	0.76	44.2	5.9	10	11.15	20.6	2.82
W596067		6.72	0.13	7.72	8.8	2580	1.50	0.53	2.33	0.28	55.1	6.1	9	8.36	17.8	2.72
W596068		5.82	0.36	7.36	10.1	2720	1.61	0.87	2.43	1.17	42.1	5.1	10	7.46	15.8	2.80
W596069		3.11	0.32	6.92	22.6	2030	1.52	1.19	2.64	0.15	40.2	13.0	10	10.45	20.7	2.72
W596070		5.37	0.10	7.37	7.1	2210	1.61	0.21	2.67	0.11	51.4	8.9	12	6.42	4.9	2.81

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275622

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W596031		15.30	0.17	1.0	0.075	2.90	22.1	40.0	0.68	630	11.20	1.48	7.4	2.8	610	61.5
W596032		16.15	0.16	1.1	0.077	2.64	22.4	12.1	0.87	667	2.36	2.36	8.1	3.7	630	15.9
W596033		16.60	0.17	1.1	0.072	2.64	21.4	12.4	0.93	656	13.80	2.50	8.4	3.1	660	16.2
W596034		17.90	0.21	1.2	0.050	2.86	27.8	17.8	0.94	604	1.90	2.41	9.0	3.3	660	16.8
W596035		17.60	0.19	1.1	0.092	2.89	22.0	10.6	0.84	725	2.98	2.11	9.0	3.1	690	16.5
W596036		17.45	0.19	1.2	0.139	2.69	24.4	10.8	0.91	865	2.30	2.53	8.7	3.0	660	25.3
W596037		16.65	0.17	1.1	0.130	2.67	22.7	10.0	0.87	827	2.87	2.42	8.7	2.7	640	23.3
W596038		15.85	0.17	1.7	0.084	2.60	21.0	8.7	0.76	656	2.67	2.71	10.6	2.6	530	20.9
W596039		16.75	0.21	0.9	0.066	2.68	21.4	10.5	0.85	676	2.95	2.38	8.2	2.9	650	19.5
W596040		16.05	0.19	0.9	0.071	2.68	24.3	9.4	0.91	618	5.29	2.37	8.0	2.9	600	20.7
W596041		14.55	0.18	2.6	0.078	3.43	23.1	7.4	0.40	429	5.44	2.04	12.1	1.6	240	25.0
W596042		0.35	0.16	<0.1	<0.005	0.03	1.3	0.9	1.57	125	0.06	0.04	0.2	0.5	70	<0.5
W596043		17.05	0.27	1.6	0.043	3.00	24.4	11.4	0.80	578	2.38	2.55	10.1	2.5	530	21.3
W596044		16.35	0.20	1.1	0.046	2.72	21.5	9.9	0.95	624	1.21	2.49	8.4	3.0	630	17.7
W596045		16.80	0.23	1.1	0.077	2.62	24.2	10.9	0.95	736	46.1	2.30	8.4	3.1	660	18.4
W596046		16.80	0.19	1.2	0.065	2.70	17.4	30.2	0.71	610	10.00	1.37	8.6	2.7	610	20.2
W596047		16.85	0.17	1.0	0.056	2.60	17.5	16.5	0.85	689	1.87	2.14	8.4	3.1	660	16.2
W596048		16.60	0.21	1.0	0.047	2.82	22.4	10.7	0.83	611	3.94	2.48	8.4	3.0	650	17.3
W596049		16.65	0.20	1.1	0.050	2.71	23.4	9.6	0.89	587	3.16	2.43	8.6	3.1	630	17.1
W596050		16.70	0.19	1.2	0.044	2.73	26.3	9.4	0.91	588	3.48	2.45	8.4	2.9	640	17.1
W596051		17.00	0.20	1.2	0.067	2.71	25.9	9.9	0.95	642	8.71	2.56	8.5	3.3	640	19.8
W596052		17.25	0.19	1.4	0.082	3.02	23.0	10.1	0.88	652	4.61	2.55	9.2	2.7	620	20.9
W596053		16.70	0.21	1.5	0.092	2.94	22.6	8.4	0.74	733	4.50	2.19	9.0	2.8	590	24.4
W596054		16.80	0.21	1.1	0.074	3.00	23.9	8.7	0.79	632	11.75	2.07	8.4	3.0	600	26.4
W596055		16.30	0.20	1.2	0.052	2.73	19.6	14.5	0.80	581	9.43	2.17	8.6	3.0	630	18.9
W596056		16.45	0.20	1.2	0.068	2.83	26.9	11.2	0.81	565	3.36	2.46	8.4	2.8	590	18.7
W596057		16.20	0.17	1.1	0.070	2.77	20.5	15.9	0.82	593	3.71	2.07	8.1	2.6	600	20.3
W596058		12.20	0.17	1.3	1.680	0.44	11.4	25.2	2.46	488	13.05	0.09	3.1	30.9	390	1020
W596059		16.90	0.17	1.3	0.047	2.65	20.2	7.8	0.90	582	11.85	2.57	8.3	2.9	630	17.4
W596060		16.85	0.21	1.2	0.069	2.78	29.4	8.5	0.93	573	4.86	2.64	8.6	3.4	610	15.7
W596061		16.20	0.21	1.2	0.063	2.91	24.8	10.1	0.91	585	2.48	2.56	8.2	2.8	610	16.1
W596062		16.60	0.19	1.2	0.063	2.72	24.0	8.3	0.84	601	5.21	2.49	8.6	3.1	590	15.5
W596063		15.85	0.20	1.0	0.211	2.82	25.7	9.2	0.85	831	3.90	2.22	7.7	3.2	590	19.6
W596064		13.95	0.17	0.8	1.430	2.63	17.8	14.7	0.66	2300	17.90	0.06	4.9	14.5	430	1630
W596065		16.35	0.18	1.1	0.118	2.76	24.4	10.2	0.82	519	2.23	2.43	8.2	2.9	610	18.8
W596066		17.10	0.20	1.2	0.078	2.99	23.4	12.5	0.80	552	8.30	2.21	8.7	2.5	620	71.4
W596067		16.40	0.20	1.2	0.095	3.32	29.6	10.6	0.82	486	10.80	2.56	8.3	2.4	620	21.4
W596068		15.70	0.10	1.2	0.153	3.18	20.4	10.0	0.82	681	0.98	2.36	8.2	2.4	610	78.8
W596069		14.10	0.10	1.0	0.227	2.74	20.7	9.1	0.74	670	9.80	1.93	7.0	3.3	580	17.6
W596070		14.45	0.10	1.1	0.053	2.57	26.4	10.5	0.79	570	3.58	2.32	7.3	2.7	600	14.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275622

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W596031		122.0	0.003	1.65	2.63	10.4	1	3.9	237	0.53	0.48	11.35	0.252	1.37	3.2	71
W596032		97.5	0.002	0.34	1.31	10.6	1	2.4	387	0.61	0.45	10.20	0.269	1.00	3.5	76
W596033		91.3	0.002	0.29	1.40	11.0	1	2.1	416	0.64	0.16	11.05	0.280	1.05	3.7	79
W596034		114.0	<0.002	0.44	1.44	11.6	1	2.0	405	0.73	0.09	14.40	0.278	1.13	4.6	78
W596035		107.0	<0.002	0.51	2.42	11.0	1	2.3	368	0.70	0.10	10.75	0.286	1.30	3.7	80
W596036		93.1	<0.002	0.17	3.26	10.8	1	3.0	358	0.71	0.06	11.35	0.273	1.23	4.1	79
W596037		91.4	0.004	0.12	3.43	10.5	1	2.8	343	0.71	0.05	11.45	0.268	1.26	4.0	76
W596038		114.0	<0.002	0.25	2.61	9.0	1	2.2	253	1.49	0.14	17.30	0.220	1.19	7.7	61
W596039		103.0	0.002	0.12	2.08	10.9	<1	2.2	410	0.61	0.10	10.05	0.271	1.09	3.5	77
W596040		109.5	0.005	0.18	1.95	10.2	1	2.3	407	0.66	0.09	11.10	0.255	1.16	4.4	72
W596041		187.0	0.003	0.57	2.56	4.9	1	2.1	125.0	2.30	0.13	27.9	0.109	1.47	14.1	29
W596042		0.8	<0.002	<0.01	0.06	0.2	2	<0.2	83.4	<0.05	<0.05	0.12	0.005	0.02	0.2	1
W596043		140.5	<0.002	0.08	1.63	9.4	1	1.8	365	1.12	0.06	16.65	0.230	1.18	7.7	64
W596044		99.5	<0.002	0.07	1.15	10.3	1	1.8	437	0.78	0.12	11.40	0.270	1.05	3.9	76
W596045		108.5	0.022	0.32	1.78	10.9	1	1.9	399	0.67	0.40	13.00	0.273	1.14	4.4	77
W596046		83.5	0.013	0.20	3.30	9.7	1	2.4	290	0.79	0.26	10.40	0.259	1.17	3.7	73
W596047		75.3	<0.002	0.14	1.43	10.3	1	1.8	400	0.63	0.08	8.38	0.281	1.02	2.8	80
W596048		94.2	0.002	0.06	1.27	10.5	1	1.9	415	0.67	0.05	11.40	0.272	0.99	3.6	76
W596049		91.7	0.002	0.04	1.28	10.9	1	2.0	409	0.70	<0.05	11.85	0.272	1.00	3.6	76
W596050		97.5	0.002	0.04	1.28	11.2	1	2.0	419	0.68	<0.05	12.60	0.273	0.99	4.1	76
W596051		92.8	0.009	0.09	1.81	11.0	1	2.5	426	0.66	0.05	11.85	0.269	1.01	5.2	77
W596052		108.5	0.004	0.10	1.61	10.3	1	2.3	378	0.93	0.05	13.90	0.257	1.12	5.7	72
W596053		101.0	0.007	0.24	2.26	9.8	1	3.8	367	0.95	0.09	13.30	0.255	1.26	6.4	71
W596054		118.5	0.022	0.34	2.01	10.4	1	3.3	464	0.67	0.11	12.90	0.255	1.43	4.7	72
W596055		84.4	0.019	0.03	2.58	10.3	1	3.4	361	0.72	0.09	11.40	0.262	1.01	3.9	74
W596056		102.0	<0.002	0.08	2.31	10.4	1	2.2	381	0.76	0.06	13.65	0.251	1.19	4.7	72
W596057		92.3	<0.002	0.41	1.59	9.7	1	2.0	386	0.71	0.10	11.00	0.255	1.16	4.1	73
W596058		18.2	0.016	6.47	45.1	6.0	32	18.4	70.4	0.25	0.32	2.57	0.112	6.51	2.5	72
W596059		81.0	0.011	0.06	0.79	10.4	1	2.1	424	0.70	<0.05	12.45	0.266	0.90	3.8	75
W596060		102.5	0.004	0.23	1.87	11.0	1	1.8	419	0.71	0.13	15.30	0.264	1.04	4.5	73
W596061		98.7	<0.002	0.08	2.28	10.3	1	1.8	429	0.70	<0.05	13.00	0.257	1.08	4.3	72
W596062		98.6	0.002	0.13	1.37	10.2	1	1.8	366	0.74	<0.05	12.80	0.253	1.07	4.2	71
W596063		112.0	0.004	0.53	4.03	10.1	1	2.6	306	0.63	0.28	12.80	0.250	1.63	3.8	72
W596064		150.5	0.002	7.57	104.0	7.9	2	11.0	60.6	0.40	0.76	8.75	0.162	2.24	5.4	55
W596065		93.6	0.003	0.60	2.33	10.1	1	2.0	413	0.68	0.19	11.65	0.258	1.13	4.1	72
W596066		101.0	0.004	0.12	3.58	10.7	1	2.1	351	0.72	0.19	13.15	0.274	1.34	4.4	78
W596067		121.0	0.003	0.32	3.01	10.2	1	2.3	367	0.70	0.11	13.25	0.258	1.54	4.2	74
W596068		108.5	<0.002	0.39	3.07	10.0	1	2.1	322	0.65	0.16	12.10	0.259	1.69	4.4	73
W596069		128.5	0.005	0.89	3.42	9.8	1	2.3	228	0.53	0.40	12.45	0.237	1.90	3.8	69
W596070		89.5	<0.002	0.12	0.87	10.3	1	1.4	378	0.55	<0.05	13.50	0.253	0.93	3.9	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275622

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W596031		1.4	13.6	294	27.4	0.022
W596032		1.0	16.1	45	30.0	0.014
W596033		1.0	16.5	45	28.7	0.016
W596034		1.2	18.1	43	33.2	0.010
W596035		1.4	15.3	49	28.6	0.007
W596036		1.3	17.3	73	30.4	0.017
W596037		1.3	16.6	69	29.1	0.012
W596038		1.4	16.8	62	36.1	0.018
W596039		1.2	16.8	56	25.6	0.014
W596040		1.3	16.5	53	24.2	0.009
W596041		2.5	16.7	30	50.3	0.038
W596042		<0.1	2.3	3	1.7	<0.005
W596043		1.8	18.4	45	37.1	0.008
W596044		1.1	16.9	47	27.7	0.005
W596045		1.2	17.1	55	28.7	0.010
W596046		1.6	12.9	48	28.8	0.010
W596047		1.0	14.7	48	27.6	0.013
W596048		1.2	16.4	45	28.5	<0.005
W596049		1.2	16.1	41	29.4	<0.005
W596050		1.1	16.5	42	30.6	<0.005
W596051		0.9	17.4	46	30.5	<0.005
W596052		1.1	17.5	51	36.0	0.005
W596053		1.5	16.7	87	35.9	0.006
W596054		1.2	15.7	47	29.4	0.008
W596055		1.3	15.7	47	31.5	<0.005
W596056		1.0	16.6	43	31.3	0.005
W596057		1.2	14.8	47	30.8	<0.005
W596058		1.9	9.6	6970	44.1	0.309
W596059		1.0	16.6	46	33.8	<0.005
W596060		0.9	18.6	44	33.3	0.006
W596061		0.8	17.2	42	31.0	<0.005
W596062		0.8	16.8	41	33.2	<0.005
W596063		1.3	15.4	67	24.6	0.010
W596064		7.4	8.9	3340	23.1	1.715
W596065		1.0	15.9	44	29.3	0.010
W596066		4.7	16.6	91	31.5	<0.005
W596067		2.1	15.5	56	32.6	0.009
W596068		1.2	14.0	133	33.1	0.009
W596069		1.1	14.2	53	27.8	0.026
W596070		1.2	15.8	38	29.8	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275622

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275627

Project: Klaza

P.O. No.: 19-129

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275627

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594681		6.22	0.16	7.40	8.8	2300	1.43	0.69	2.56	0.39	45.4	7.2	11	13.80	21.2	2.94
W594682		3.61	0.22	7.44	8.1	2110	1.52	0.67	2.68	0.42	48.6	7.1	10	14.10	28.2	3.03
W594683		5.45	16.50	7.85	21.9	1600	1.53	21.2	2.34	1.03	48.1	8.9	11	14.70	17.1	4.10
W594684		6.61	0.17	7.35	8.3	2380	1.53	0.52	2.91	0.21	39.8	6.6	12	11.15	15.7	2.98
W594685		3.44	0.28	7.61	16.5	1660	1.60	0.23	1.78	1.67	44.0	5.7	10	13.90	26.7	2.52
W594686		4.20	0.67	6.93	32.3	1430	1.54	0.43	2.87	5.43	45.6	7.4	8	17.75	69.0	2.55
W594687		6.29	0.29	7.45	5.8	2270	1.54	0.15	2.70	0.76	43.7	6.9	11	10.70	47.7	2.94
W594688		<0.02	0.29	7.24	6.1	2220	1.46	0.15	2.64	0.71	42.8	6.7	10	10.45	48.2	2.88
W594689		2.18	4.02	7.83	54.5	1120	1.64	4.55	0.68	29.3	76.8	18.9	9	14.30	686	4.44
W594690		3.49	0.84	7.33	11.5	2020	1.76	1.51	2.46	2.83	46.4	7.9	9	13.80	33.4	2.69
W594691		5.47	0.69	7.95	18.5	2170	1.67	3.05	1.76	1.63	53.4	16.4	10	12.10	94.6	3.79
W594692		3.73	1.71	7.46	18.6	200	1.45	2.38	2.11	8.27	48.4	9.1	9	11.55	90.0	4.74
W594693		3.11	0.93	7.51	16.6	2040	1.57	1.11	2.91	5.42	51.6	8.3	13	9.80	56.7	3.46
W594694		5.74	0.70	7.31	13.1	2110	1.60	1.00	2.56	2.55	45.1	8.0	10	9.13	51.9	3.22
W594695		0.26	38.2	5.75	2460	100	1.16	35.3	1.72	43.0	33.5	15.6	23	9.68	1175	9.25
W594696		1.96	0.61	6.91	6.8	1940	1.60	0.69	2.38	2.45	43.2	7.3	9	9.35	31.6	3.33
W594697		2.45	1.43	7.11	20.7	140	1.59	1.70	1.89	6.41	45.5	7.5	7	12.55	60.1	5.64
W594698		6.23	0.24	6.80	9.1	1800	1.78	0.65	2.11	0.90	48.5	6.3	8	8.14	14.4	2.30
W594699		5.97	0.22	7.34	7.5	2500	1.69	0.48	2.75	0.26	44.6	7.6	13	10.10	12.3	2.87
W594700		3.47	0.16	7.22	6.8	2380	1.60	0.27	2.84	0.55	48.8	8.4	11	11.55	11.8	2.87
W594701		5.10	0.01	0.10	0.2	30	0.08	0.23	33.4	0.02	1.23	1.0	1	0.06	2.2	0.12
W594702		3.28	0.47	6.97	25.3	1340	1.30	0.92	0.61	4.96	49.2	8.0	9	15.10	40.8	2.14
W594703		1.84	0.39	7.77	16.9	800	1.13	1.91	0.94	3.23	50.6	10.4	9	13.20	26.1	3.35
W594704		4.60	0.56	7.07	28.7	2510	1.53	0.97	1.76	3.65	42.1	7.2	9	14.05	35.0	2.66
W594705		6.18	0.42	7.03	11.4	1990	1.61	0.46	2.62	0.85	47.1	7.2	9	13.75	35.7	2.75
W594706		6.62	0.23	7.34	8.9	2130	1.54	0.77	2.70	0.26	43.8	8.4	12	13.85	37.3	2.99
W594707		6.17	0.34	7.65	29.1	1930	1.52	1.79	1.87	2.42	48.8	10.1	8	15.85	52.9	3.30
W594708		0.11	18.15	3.27	271	100	0.54	10.35	2.16	49.2	23.2	18.6	47	1.02	2150	8.48
W594709		4.07	0.37	7.39	38.1	1840	1.63	1.78	1.63	2.56	45.9	11.5	8	16.60	126.0	3.35
W594710		5.58	0.51	7.03	23.9	2190	1.60	1.23	2.40	3.12	41.2	8.3	8	18.10	42.4	2.89
W594711		3.77	0.82	6.94	42.6	2140	1.71	2.42	2.31	2.54	40.1	9.9	8	17.90	74.9	3.26
W594712		4.21	0.52	7.38	53.7	2390	1.72	1.64	2.10	1.39	40.8	24.0	9	18.35	54.1	3.33
W594713		4.20	0.26	7.14	9.7	2290	1.63	0.50	2.88	0.33	42.8	8.6	13	13.25	14.0	3.03
W594714		6.08	0.13	6.97	10.2	2180	1.62	0.27	2.90	0.47	42.8	7.9	11	15.70	18.9	2.99
W594715		6.10	0.13	6.90	9.3	2350	1.49	0.45	3.39	0.16	43.3	7.6	9	23.4	14.3	2.85
W594716		5.95	0.11	7.13	6.5	2360	1.70	0.46	2.75	0.15	39.7	7.8	12	9.56	13.0	2.90
W594717		3.13	0.12	7.06	8.2	2360	1.62	0.33	2.75	0.12	44.2	8.0	11	10.45	15.4	2.94
W594718		2.87	0.13	7.45	9.0	2340	1.67	0.44	2.77	0.12	54.6	8.5	19	10.65	14.8	2.97
W594719		6.37	0.10	7.21	7.3	2380	1.61	0.20	2.91	0.11	46.1	8.3	11	9.90	10.5	3.07
W594720		2.48	1.85	7.52	131.5	520	1.76	4.00	1.86	4.82	50.9	12.8	10	12.70	46.5	4.52

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275627

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594681		16.15	0.14	1.1	0.079	2.70	23.8	13.7	0.77	504	7.55	2.30	7.3	2.4	630	21.8
W594682		16.15	0.14	1.1	0.091	2.82	26.6	10.7	0.64	522	29.7	1.67	7.3	2.3	610	23.4
W594683		17.80	0.15	1.0	0.085	2.92	25.6	10.4	0.69	632	1.33	1.26	7.6	2.7	630	190.5
W594684		16.20	0.14	1.0	0.080	2.69	19.9	10.6	0.77	568	10.85	2.21	7.5	2.4	630	23.7
W594685		16.60	0.13	1.5	0.052	3.20	23.0	26.9	0.57	580	1.91	0.88	8.5	2.0	510	64.7
W594686		15.75	0.16	1.3	0.077	3.06	24.6	32.3	0.99	718	4.08	0.56	8.4	2.2	510	186.5
W594687		16.85	0.13	1.1	0.060	2.74	23.0	11.4	0.76	551	1.55	2.29	7.6	2.3	620	37.9
W594688		16.35	0.14	1.0	0.055	2.66	22.0	10.9	0.74	536	1.52	2.24	7.4	2.4	610	37.1
W594689		17.70	0.18	1.1	0.618	3.34	44.7	21.8	0.54	451	30.6	0.64	7.0	3.0	570	552
W594690		16.60	0.15	1.3	0.119	2.82	23.2	24.2	0.66	493	1.92	1.75	7.9	2.2	600	53.1
W594691		17.10	0.15	1.1	0.101	2.82	30.6	20.2	0.86	469	64.0	1.32	7.9	2.9	700	45.3
W594692		15.70	0.19	1.1	0.223	3.10	25.5	16.4	0.72	628	1.52	0.82	6.9	2.5	590	405
W594693		17.60	0.18	1.1	0.197	2.86	27.0	23.0	0.86	711	1.94	1.41	8.0	2.5	650	187.0
W594694		16.55	0.16	1.1	0.167	2.95	24.2	18.9	0.81	639	0.91	1.69	7.6	2.3	590	125.5
W594695		13.80	0.13	0.8	1.530	2.70	16.6	15.7	0.69	2340	16.60	0.06	4.4	14.0	450	1655
W594696		15.10	0.12	1.3	0.102	2.69	21.7	15.3	0.68	617	1.91	1.53	8.0	3.5	580	137.0
W594697		14.30	0.15	1.1	0.210	2.77	22.7	19.3	0.62	583	1.97	0.99	7.3	2.4	560	404
W594698		15.70	0.16	1.5	0.068	2.68	24.7	17.4	0.63	453	5.00	2.05	8.6	2.1	480	47.6
W594699		16.90	0.17	1.2	0.064	2.71	22.1	13.1	0.79	566	1.43	2.27	8.5	2.5	600	24.6
W594700		17.35	0.16	1.1	0.051	2.71	23.8	14.5	0.73	625	2.19	2.21	8.4	2.8	620	33.6
W594701		0.30	0.09	0.1	0.006	0.03	1.4	1.2	1.75	123	0.06	0.04	0.2	0.2	70	<0.5
W594702		15.40	0.14	1.4	0.080	2.25	26.9	28.2	0.35	484	16.50	0.17	7.8	2.2	490	89.1
W594703		17.45	0.15	1.0	0.085	1.84	25.3	82.1	0.36	653	4.84	0.05	8.4	2.8	660	64.9
W594704		16.10	0.15	1.3	0.177	2.75	21.2	75.6	0.63	584	1.38	0.47	7.2	2.3	550	265
W594705		16.35	0.16	1.3	0.076	2.55	23.5	16.9	0.69	548	1.55	1.97	8.3	2.3	550	35.5
W594706		17.00	0.18	1.1	0.072	2.42	22.5	15.5	0.78	504	3.10	2.12	8.3	2.9	620	21.9
W594707		18.05	0.15	1.1	0.143	2.27	24.3	40.0	0.59	591	2.97	0.91	8.7	2.6	680	36.3
W594708		13.10	0.20	1.4	1.910	0.45	12.5	28.1	2.48	495	14.05	0.09	3.3	32.8	390	1035
W594709		16.95	0.13	1.2	0.158	2.51	22.6	37.8	0.56	490	7.05	0.56	8.8	3.4	650	66.2
W594710		16.75	0.18	1.2	0.100	2.81	20.1	32.3	0.61	587	1.17	1.08	8.2	2.4	580	81.3
W594711		17.30	0.16	1.2	0.226	2.83	19.8	18.8	0.76	611	1.29	1.16	8.2	2.7	610	102.5
W594712		17.05	0.16	1.2	0.145	2.93	19.7	23.5	0.63	493	5.86	1.36	8.4	2.6	650	56.8
W594713		16.85	0.21	1.1	0.072	2.73	20.4	12.2	0.75	668	1.67	1.95	8.2	3.3	620	54.3
W594714		16.60	0.19	1.1	0.067	2.63	20.7	15.8	0.77	869	2.00	1.79	8.1	3.0	610	31.8
W594715		16.70	0.19	1.1	0.083	2.59	21.0	22.0	0.68	797	1.61	1.28	8.2	2.9	610	21.6
W594716		17.60	0.18	1.1	0.068	2.70	19.0	14.4	0.78	592	1.62	2.26	8.2	3.2	610	19.7
W594717		16.95	0.17	1.1	0.080	2.66	21.5	14.3	0.80	635	5.14	2.26	8.0	3.0	630	17.0
W594718		17.55	0.22	1.1	0.078	2.73	28.0	14.9	0.82	629	2.94	2.26	8.0	7.6	610	17.3
W594719		17.30	0.18	1.0	0.067	2.56	22.1	12.9	0.81	920	3.58	2.27	8.2	3.0	650	15.6
W594720		17.25	0.17	1.2	0.300	3.14	27.0	10.6	0.75	936	5.51	1.03	7.9	3.3	640	68.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275627

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594681		95.1	0.016	0.10	1.89	10.5	1	2.0	394	0.59	0.05	11.80	0.264	1.28	2.7	75
W594682		111.5	0.084	0.65	3.08	10.5	1	2.3	294	0.58	0.07	13.30	0.250	1.59	2.6	71
W594683		103.5	0.003	1.56	2.89	11.8	2	4.0	252	0.56	4.37	12.55	0.275	1.67	3.8	79
W594684		86.1	0.014	0.19	2.34	10.2	1	1.9	382	0.58	0.05	10.85	0.266	1.25	3.2	74
W594685		118.0	<0.002	0.12	5.36	8.9	<1	1.8	134.0	0.88	<0.05	16.65	0.221	1.41	4.9	59
W594686		112.5	0.004	0.32	9.14	8.6	1	1.8	119.5	0.78	0.07	15.95	0.210	1.73	7.6	55
W594687		91.2	<0.002	0.04	1.85	10.8	1	1.8	386	0.61	<0.05	11.90	0.263	1.17	2.9	72
W594688		89.2	0.002	0.04	1.89	10.3	<1	1.8	374	0.56	<0.05	11.40	0.258	1.18	2.8	71
W594689		158.0	0.004	1.88	7.84	11.7	2	5.1	93.8	0.56	1.62	15.45	0.242	2.36	4.8	75
W594690		94.9	<0.002	0.16	4.12	10.3	1	1.8	288	0.69	0.15	13.45	0.254	1.27	3.5	69
W594691		108.5	0.053	0.78	4.90	11.7	<1	2.2	228	0.62	0.72	15.05	0.266	1.48	3.3	76
W594692		122.0	0.003	3.20	3.94	10.7	2	4.3	164.5	0.53	0.39	12.25	0.239	1.57	4.9	68
W594693		98.3	<0.002	0.81	5.43	11.1	1	2.6	260	0.57	0.19	12.50	0.266	1.45	5.0	74
W594694		101.0	<0.002	0.74	3.41	10.2	1	2.5	285	0.63	0.09	12.75	0.244	1.38	3.8	68
W594695		141.5	0.004	7.86	104.0	7.9	2	10.5	62.7	0.36	0.75	8.54	0.168	2.19	5.2	55
W594696		95.3	<0.002	0.93	2.45	11.0	1	2.5	275	0.61	0.05	12.75	0.241	1.20	3.1	69
W594697		109.5	<0.002	3.87	3.45	10.9	2	3.5	185.5	0.53	0.13	13.05	0.227	1.33	6.7	67
W594698		105.5	0.002	0.22	2.06	9.7	1	1.6	290	0.90	<0.05	18.25	0.202	1.25	5.4	56
W594699		94.0	<0.002	0.11	2.70	11.9	1	1.7	407	0.65	0.05	11.55	0.258	1.12	3.7	72
W594700		87.6	0.002	0.07	3.20	11.9	1	1.6	393	0.57	<0.05	11.05	0.264	1.12	2.7	73
W594701		0.9	<0.002	<0.01	0.08	0.3	2	<0.2	84.4	<0.05	<0.05	0.13	0.005	0.02	0.1	2
W594702		111.5	0.007	0.33	91.8	9.3	1	1.2	60.2	0.80	0.26	17.30	0.200	1.36	3.5	59
W594703		86.8	<0.002	1.26	25.0	13.2	1	3.4	87.0	0.55	0.73	12.60	0.265	1.07	4.1	74
W594704		121.5	<0.002	0.93	22.5	10.1	1	2.7	128.5	0.61	0.13	15.55	0.208	1.84	4.1	62
W594705		95.6	<0.002	0.16	2.63	10.9	1	1.7	331	0.69	0.05	13.95	0.235	1.09	4.1	66
W594706		93.9	0.002	0.36	17.80	11.9	1	1.8	397	0.60	0.16	11.25	0.262	1.31	3.3	74
W594707		91.2	<0.002	0.57	19.00	12.4	1	2.6	243	0.62	0.60	11.65	0.274	1.34	3.7	79
W594708		19.3	0.017	6.57	45.6	7.0	32	18.5	76.8	0.24	0.32	2.81	0.112	6.60	2.6	73
W594709		100.0	0.002	0.53	22.1	11.6	1	2.4	155.0	0.67	0.59	12.65	0.260	1.55	3.9	74
W594710		95.8	<0.002	0.32	11.95	10.7	1	1.8	238	0.63	0.08	12.00	0.240	1.44	3.1	68
W594711		116.5	<0.002	1.00	8.72	12.0	1	3.6	211	0.61	0.42	11.45	0.247	2.02	3.7	72
W594712		124.0	0.007	1.16	8.87	12.4	1	2.3	250	0.64	0.50	10.65	0.265	2.16	4.6	77
W594713		102.0	<0.002	0.12	2.00	11.9	1	1.7	368	0.60	<0.05	11.75	0.264	1.33	3.5	75
W594714		103.5	<0.002	0.12	2.80	12.1	1	1.7	338	0.58	<0.05	10.50	0.260	1.42	2.9	73
W594715		92.6	<0.002	0.12	7.01	12.0	1	1.7	290	0.60	<0.05	10.85	0.258	1.26	4.3	74
W594716		92.2	<0.002	0.06	1.29	11.8	1	1.6	406	0.53	0.05	11.55	0.254	1.18	3.0	72
W594717		91.1	<0.002	0.06	1.28	11.7	1	1.6	407	0.55	0.06	11.40	0.260	1.14	2.8	75
W594718		101.0	<0.002	0.06	1.23	12.1	1	1.7	411	0.52	0.08	13.45	0.256	1.16	2.9	74
W594719		90.4	<0.002	0.07	1.15	12.6	1	1.7	420	0.52	<0.05	11.25	0.271	1.11	2.8	77
W594720		168.5	<0.002	2.24	5.92	12.7	1	6.2	205	0.55	0.29	12.25	0.254	1.95	4.0	78

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275627

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594681		0.6	15.3	65	29.3	0.005
W594682		1.2	14.7	75	30.0	0.010
W594683		4.8	15.4	107	27.8	0.034
W594684		1.0	14.3	60	28.8	0.009
W594685		1.8	15.4	165	38.4	0.006
W594686		2.1	14.3	317	34.8	0.021
W594687		0.7	14.9	96	30.4	0.007
W594688		0.7	14.4	94	29.6	0.008
W594689		6.1	18.4	1340	33.4	0.084
W594690		0.8	15.0	356	33.1	0.008
W594691		1.8	15.8	186	32.6	0.051
W594692		15.5	15.9	642	32.3	0.016
W594693		4.1	17.8	448	32.7	0.006
W594694		3.3	15.1	235	34.3	0.010
W594695		7.1	8.2	3370	22.4	1.655
W594696		7.1	15.3	210	35.3	<0.005
W594697		12.1	15.7	490	32.4	0.010
W594698		0.9	15.2	82	37.1	0.005
W594699		1.6	16.6	57	33.2	0.008
W594700		1.5	15.8	81	30.7	<0.005
W594701		<0.1	2.4	4	13.3	<0.005
W594702		2.8	14.9	233	35.3	0.015
W594703		5.2	14.7	232	25.5	0.007
W594704		3.2	12.6	283	31.0	0.019
W594705		2.2	16.0	106	32.0	0.006
W594706		0.8	16.0	59	30.0	0.023
W594707		3.1	17.3	265	30.4	0.034
W594708		1.7	10.6	7200	47.4	0.286
W594709		2.5	17.1	369	32.2	0.036
W594710		2.0	14.1	279	32.1	0.009
W594711		1.6	15.2	251	31.6	0.060
W594712		1.3	15.8	164	32.4	0.028
W594713		2.7	16.2	61	30.7	0.005
W594714		1.4	15.4	66	28.7	0.012
W594715		3.2	18.1	45	31.2	<0.005
W594716		0.8	14.9	44	32.0	<0.005
W594717		0.8	15.6	43	29.9	0.005
W594718		0.7	16.3	42	30.3	<0.005
W594719		0.8	16.0	43	30.1	<0.005
W594720		2.3	15.1	438	30.7	0.103

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275627

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275628

Project: Klaza

P.O. No.: 19-130

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275628

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W596071		4.80	0.41	7.01	50.0	410	1.55	1.99	2.50	0.73	62.1	95.4	12	8.21	7.9	4.34
W596072		3.83	0.17	7.71	26.5	2310	1.50	1.07	1.98	0.16	59.4	26.4	12	10.45	12.8	3.56
W596073		5.98	0.17	7.13	7.4	2240	1.80	0.15	2.61	0.12	44.5	8.2	14	9.86	15.6	2.70
W596074		4.22	0.23	7.30	10.3	2150	1.72	1.43	2.75	0.13	42.4	8.0	13	12.20	36.4	2.97
W596075		3.87	0.22	7.43	9.8	2200	1.80	0.83	2.76	0.15	48.9	8.2	13	8.10	23.9	3.10
W596076		5.91	0.19	7.66	6.8	2280	1.85	0.66	2.83	0.12	49.4	8.5	13	9.59	18.6	3.03
W596077		5.34	0.13	7.40	7.7	2300	1.71	0.21	2.90	0.13	44.4	8.3	13	9.72	9.5	3.04
W596078		3.23	0.12	7.49	7.2	2300	1.67	0.17	2.98	0.10	46.3	7.6	15	9.95	8.6	2.96
W596079		6.39	0.12	7.39	6.7	2280	1.71	0.11	2.69	0.11	45.7	8.1	13	13.75	13.4	2.89
W596080		3.24	0.07	7.31	4.6	2270	1.65	0.12	2.84	0.09	46.9	7.6	13	9.89	6.4	2.93
W596081		3.89	0.31	7.58	17.6	2200	1.70	0.73	2.18	0.29	55.6	7.8	13	8.46	70.4	3.17
W596082		5.09	1.38	7.75	17.2	2160	1.68	3.35	2.14	0.50	53.9	3.7	14	10.90	86.7	3.56
W596083		6.99	1.94	8.05	69.0	1200	1.42	7.65	1.88	1.34	51.2	7.4	12	11.30	359	3.99
W596084		5.82	0.90	8.03	34.9	2410	1.74	2.72	2.02	0.74	55.9	6.6	13	13.95	177.5	3.73
W596085		4.49	0.85	7.96	27.7	2690	1.67	2.46	2.32	0.50	56.2	8.6	12	11.55	334	3.35
W596086		0.26	37.8	5.45	2440	80	1.04	33.6	1.63	43.7	33.6	15.4	20	10.00	1120	8.69
W596087		5.72	0.78	7.32	31.1	2030	1.59	1.18	3.31	4.26	48.2	13.9	11	19.45	68.2	3.32
W596088		5.67	0.63	7.32	33.1	2190	1.60	1.17	2.57	3.22	47.5	9.5	11	18.25	342	2.87
W596089		5.84	0.33	7.90	10.8	2610	1.74	3.40	2.75	0.16	49.2	7.3	13	11.25	67.2	3.16
W596090		5.75	0.15	7.60	6.8	2240	1.64	0.84	3.11	0.11	46.0	7.8	12	11.85	22.6	3.04
W596091		7.19	0.32	7.83	16.5	2380	1.63	1.42	2.83	0.11	56.0	7.1	14	10.40	38.8	3.35
W596092		6.84	0.70	7.51	25.3	2650	1.44	1.21	2.58	0.39	52.0	3.9	10	17.35	332	3.10
W596093		<0.02	0.68	7.44	26.3	2710	1.42	1.22	2.65	0.38	49.4	3.9	11	16.70	339	3.12
W596094		7.31	0.24	6.89	49.0	2080	1.60	2.02	4.19	0.21	65.8	7.2	10	23.8	95.2	3.13
W596095		2.92	0.10	7.74	8.8	2230	1.92	0.23	3.04	0.08	50.4	5.3	9	18.30	32.1	3.17
W596096		4.29	0.27	7.14	142.5	440	1.55	6.01	2.93	0.26	59.9	8.2	8	23.4	29.8	3.69
W596097		4.06	0.11	7.65	12.3	2220	1.62	0.91	2.65	0.15	48.4	7.2	11	13.60	22.1	3.18
W596098		4.86	0.20	8.01	19.9	2360	1.61	2.03	2.77	0.22	51.2	9.8	14	12.95	61.3	3.69
W596099		5.74	0.17	7.62	7.1	2350	1.57	1.51	2.86	0.15	47.2	5.6	14	7.76	34.4	3.08
W596100		0.12	18.10	3.38	263	100	0.42	10.15	2.25	47.6	23.0	16.2	47	0.98	2240	8.79
W596101		4.58	0.20	7.75	12.2	2330	1.42	1.68	2.60	0.19	48.0	13.4	13	11.40	16.4	3.12
W596102		1.84	5.12	7.30	133.5	160	1.29	42.2	1.10	5.79	45.7	17.9	10	7.79	811	7.39
W596103		4.24	0.16	7.63	15.9	2280	1.58	1.03	2.80	0.17	50.6	7.2	14	8.35	11.2	3.40
W596104		3.78	0.13	8.19	10.4	2440	1.53	0.62	1.50	0.14	54.8	9.2	11	16.05	7.9	3.53
W596105		5.02	0.01	0.13	0.5	30	0.10	0.04	35.0	<0.02	1.15	0.4	1	0.07	1.2	0.14
W596106		4.65	0.09	7.49	5.7	2430	1.29	0.32	2.90	0.08	46.2	6.1	12	10.90	5.5	3.08
W596107		2.06	1.40	7.75	28.5	1310	1.18	6.86	2.06	0.49	49.1	7.5	12	9.39	297	4.58
W596108		2.13	0.21	7.95	11.7	2410	1.32	1.12	2.98	0.17	49.6	6.3	13	15.90	19.3	3.42
W596109		5.22	0.99	7.65	74.1	910	1.25	8.73	1.61	1.19	51.1	6.3	14	8.97	233	5.23
W596110		5.70	0.12	7.47	7.4	2380	1.47	0.47	2.86	0.14	48.8	6.9	14	9.23	8.5	3.10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W596071		15.60	0.20	1.1	0.119	2.79	34.8	10.9	0.76	533	24.7	1.78	7.4	4.1	570	35.4
W596072		17.15	0.20	1.3	0.057	3.02	32.1	14.8	0.66	581	16.75	1.43	8.6	3.1	610	17.2
W596073		17.05	0.21	1.3	0.050	2.76	22.0	11.1	0.68	514	4.77	2.22	8.9	3.1	570	17.1
W596074		17.55	0.19	1.3	0.071	2.72	20.8	15.0	0.71	554	7.79	1.91	8.4	3.0	610	17.8
W596075		17.20	0.20	1.2	0.077	2.69	24.9	10.9	0.84	590	4.19	2.21	8.6	3.0	610	17.9
W596076		18.10	0.21	1.2	0.076	2.75	24.2	13.2	0.80	558	2.01	2.36	8.9	3.1	620	17.2
W596077		17.40	0.19	1.2	0.070	2.66	21.3	11.6	0.77	633	4.04	2.29	8.4	2.8	620	16.4
W596078		16.75	0.18	1.3	0.058	2.63	23.5	11.1	0.75	633	2.47	2.27	8.1	2.9	610	16.4
W596079		16.85	0.19	1.2	0.044	2.55	22.8	13.6	0.80	546	1.70	2.31	8.4	3.0	620	15.2
W596080		17.00	0.21	1.3	0.041	2.50	23.5	12.4	0.84	538	2.08	2.33	8.3	3.1	620	14.6
W596081		17.30	0.20	1.1	0.142	2.68	29.3	11.6	0.87	535	4.24	2.38	7.8	3.2	630	17.6
W596082		15.20	0.09	1.1	0.143	2.68	28.8	14.2	0.96	627	1.92	2.25	6.7	3.2	640	37.0
W596083		14.30	0.09	1.0	0.229	3.11	28.4	16.9	0.91	650	1.76	2.60	7.2	3.6	680	83.5
W596084		15.95	0.11	1.0	0.196	2.79	31.1	14.7	0.89	643	2.05	2.50	7.6	2.6	690	42.1
W596085		15.60	0.12	1.0	0.171	2.91	32.4	10.8	0.83	597	1.42	2.35	7.2	2.7	670	28.9
W596086		11.45	0.07	0.7	1.520	2.47	17.5	13.3	0.64	2200	14.70	0.06	4.0	12.5	430	1595
W596087		15.30	0.10	1.1	0.207	2.82	25.3	21.6	0.96	572	0.56	0.72	7.8	3.0	660	88.3
W596088		14.10	0.10	1.0	0.105	2.82	25.6	13.9	0.71	427	0.44	1.35	6.9	2.6	580	143.5
W596089		15.30	0.09	1.4	0.065	2.78	26.2	9.8	0.83	506	0.93	2.13	7.6	2.7	640	16.4
W596090		15.25	0.10	1.1	0.055	2.57	23.4	9.7	0.81	621	0.44	2.33	8.4	2.8	670	14.3
W596091		15.55	0.09	1.1	0.065	2.66	29.9	10.7	0.85	580	0.58	2.19	8.4	2.6	680	15.0
W596092		14.20	0.08	1.0	0.145	2.79	29.6	12.4	0.76	668	1.93	1.72	7.0	2.1	630	17.5
W596093		14.15	0.08	1.0	0.143	2.80	28.5	12.4	0.76	684	1.73	1.72	7.0	2.2	630	17.4
W596094		14.05	0.07	0.9	0.097	2.23	40.0	15.7	0.74	786	1.46	0.77	6.9	2.9	600	14.8
W596095		15.00	0.07	1.1	0.058	2.47	27.7	19.0	0.91	715	0.95	1.41	8.2	2.5	680	12.5
W596096		14.25	0.08	1.1	0.109	2.86	35.8	13.9	0.76	645	1.23	1.29	7.1	3.1	610	18.8
W596097		15.35	0.09	1.1	0.088	2.48	25.0	11.6	0.93	540	0.45	2.34	8.2	2.6	680	13.1
W596098		16.20	0.08	1.1	0.111	2.98	26.4	9.3	0.99	577	0.47	2.23	7.3	2.9	680	17.5
W596099		15.55	0.07	0.9	0.111	2.74	24.3	9.2	0.90	546	0.33	2.50	7.6	2.8	670	14.6
W596100		10.85	0.14	1.4	1.955	0.46	12.4	22.0	2.58	507	12.15	0.10	2.9	29.2	400	1050
W596101		14.30	0.07	1.0	0.140	2.94	25.3	7.8	0.84	459	0.29	2.34	7.3	2.9	660	16.3
W596102		15.35	0.07	0.9	0.287	3.18	24.7	10.0	0.75	568	1.15	0.18	5.4	2.5	570	427
W596103		15.45	0.08	1.0	0.091	2.67	25.8	11.4	0.85	554	0.45	2.21	7.6	2.9	660	18.3
W596104		15.40	0.09	1.1	0.079	2.88	30.0	18.6	0.85	322	0.46	1.32	7.3	2.8	690	13.3
W596105		0.34	0.07	0.1	0.005	0.04	1.2	0.8	2.05	131	<0.05	0.06	0.2	0.2	70	<0.5
W596106		14.15	0.09	1.0	0.070	2.73	23.3	8.0	0.79	506	0.41	2.33	7.0	2.5	660	13.2
W596107		14.60	0.05	0.9	0.119	2.93	27.2	11.7	0.76	622	0.61	1.24	6.3	2.4	620	23.5
W596108		15.65	0.07	1.1	0.063	2.79	25.0	13.6	0.85	561	0.45	2.01	7.5	2.6	670	15.8
W596109		14.55	0.05	0.9	0.161	3.07	28.9	14.4	0.76	638	0.56	0.77	6.0	2.5	620	54.0
W596110		15.15	0.07	1.0	0.065	2.63	25.0	9.1	0.87	527	1.07	2.35	7.5	2.8	660	14.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W596071		114.0	<0.002	2.46	1.63	10.9	2	2.6	310	0.58	0.89	12.10	0.226	1.15	4.2	67
W596072		118.5	0.002	1.13	3.79	12.1	1	2.2	266	0.71	0.46	15.00	0.250	1.16	4.7	71
W596073		104.0	<0.002	0.08	2.06	11.2	1	1.6	363	0.73	<0.05	11.85	0.240	1.09	4.6	67
W596074		97.8	<0.002	0.29	2.32	11.9	1	2.2	338	0.61	0.12	12.25	0.262	1.17	3.5	74
W596075		104.5	<0.002	0.26	1.37	12.6	1	2.0	379	0.66	0.07	12.60	0.261	1.12	4.3	76
W596076		103.5	<0.002	0.18	1.34	12.6	1	1.9	400	0.65	0.07	13.30	0.260	1.04	4.1	74
W596077		96.5	<0.002	0.13	1.30	11.9	1	1.9	398	0.62	0.05	11.55	0.261	1.10	3.8	75
W596078		98.4	<0.002	0.10	1.25	11.7	1	1.8	399	0.58	<0.05	12.65	0.256	1.08	3.9	72
W596079		96.1	<0.002	0.06	1.56	12.0	1	1.8	403	0.62	<0.05	11.80	0.259	1.00	4.1	73
W596080		89.1	<0.002	0.06	0.76	12.3	1	1.6	421	0.61	<0.05	11.90	0.260	1.03	3.8	74
W596081		124.5	0.004	0.51	2.33	12.3	1	3.3	312	0.56	0.07	13.25	0.240	1.56	4.8	73
W596082		129.5	0.002	0.71	1.86	11.8	1	3.6	287	0.60	0.69	13.70	0.274	1.71	4.8	78
W596083		142.0	0.002	1.48	3.22	11.7	1	4.6	263	0.50	1.15	11.35	0.277	1.88	4.4	73
W596084		141.5	0.002	1.11	3.00	12.2	1	4.9	287	0.56	0.86	11.45	0.289	1.78	3.9	80
W596085		142.0	<0.002	0.86	3.71	12.2	1	3.6	316	0.51	1.21	12.15	0.288	1.75	3.8	78
W596086		142.0	0.003	7.50	99.9	7.1	1	9.5	59.2	0.34	0.70	7.91	0.159	1.93	4.9	53
W596087		107.0	<0.002	0.97	7.21	11.7	1	3.0	213	0.61	0.41	10.90	0.281	1.58	4.8	79
W596088		117.5	<0.002	0.79	3.69	9.5	1	2.9	272	0.58	0.52	11.70	0.252	1.35	4.1	67
W596089		115.5	<0.002	0.55	1.45	10.5	1	3.2	381	0.69	0.31	11.85	0.269	1.12	4.8	72
W596090		94.3	<0.002	0.16	1.18	12.3	1	2.1	398	0.62	0.41	11.65	0.285	0.91	3.9	78
W596091		109.0	<0.002	0.38	1.16	12.0	1	2.9	396	0.61	0.07	14.45	0.292	1.02	4.2	79
W596092		130.5	<0.002	0.88	3.25	11.4	1	3.9	240	0.57	0.36	11.60	0.260	1.42	4.8	74
W596093		128.0	<0.002	0.90	3.25	11.4	1	3.8	242	0.57	0.39	11.15	0.265	1.45	4.6	76
W596094		93.8	0.002	0.89	8.96	10.5	1	3.1	219	0.52	1.07	10.50	0.257	1.06	5.7	71
W596095		102.0	<0.002	0.12	2.79	12.7	<1	2.5	289	0.61	<0.05	12.05	0.295	0.97	3.7	82
W596096		134.5	<0.002	2.36	4.87	10.6	1	4.4	210	0.57	3.45	11.35	0.251	1.57	4.7	70
W596097		103.5	<0.002	0.37	2.15	11.7	1	3.3	361	0.64	0.18	11.60	0.286	1.04	4.3	78
W596098		130.5	<0.002	1.05	1.18	12.8	1	4.5	362	0.59	0.69	12.40	0.283	1.33	4.0	81
W596099		99.6	<0.002	0.30	0.87	11.8	1	2.7	405	0.52	0.32	10.65	0.282	0.95	3.6	77
W596100		18.8	0.016	6.89	46.0	5.5	30	18.1	77.5	0.22	0.33	2.73	0.121	6.38	2.6	73
W596101		113.0	<0.002	0.73	1.37	10.4	1	3.6	373	0.53	0.28	11.20	0.283	1.19	4.2	76
W596102		198.5	<0.002	5.27	2.27	9.7	1	14.4	41.6	0.45	1.52	10.80	0.215	1.98	4.0	70
W596103		105.0	<0.002	0.42	1.69	11.7	1	3.0	379	0.63	0.25	11.60	0.284	1.03	3.9	77
W596104		117.5	<0.002	0.31	4.14	12.2	<1	2.5	228	0.61	0.16	13.40	0.293	1.09	4.1	79
W596105		1.1	<0.002	<0.01	0.08	0.2	1	0.2	83.7	<0.05	<0.05	0.12	0.006	0.02	0.3	1
W596106		98.7	<0.002	0.09	1.51	9.3	<1	2.5	398	0.56	<0.05	11.20	0.281	0.93	3.7	75
W596107		140.0	<0.002	1.67	2.29	9.0	1	6.6	232	0.50	1.14	11.50	0.255	1.40	4.3	70
W596108		104.0	<0.002	0.17	1.92	10.4	<1	2.4	380	0.57	<0.05	11.75	0.294	1.10	4.1	80
W596109		173.5	<0.002	2.14	3.55	9.7	1	9.3	145.0	0.48	0.50	11.25	0.250	1.77	4.1	73
W596110		94.5	<0.002	0.22	1.09	11.3	1	2.3	404	0.62	0.10	10.70	0.281	0.97	3.8	78

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275628

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W596071		1.1	16.1	88	28.7	0.082
W596072		2.0	18.9	46	37.2	0.018
W596073		1.1	16.7	44	37.0	0.006
W596074		4.6	15.6	43	37.3	0.054
W596075		7.5	17.7	44	33.3	0.028
W596076		2.5	17.8	42	37.1	0.006
W596077		1.9	16.4	42	34.3	0.009
W596078		2.0	16.7	40	34.5	<0.005
W596079		1.5	16.9	40	33.0	0.007
W596080		2.0	17.3	37	34.9	0.012
W596081		1.3	17.2	58	29.5	0.023
W596082		1.8	15.8	89	31.4	0.083
W596083		2.2	18.3	148	28.9	0.130
W596084		1.9	16.9	101	27.4	0.048
W596085		1.8	17.3	81	28.2	0.057
W596086		6.1	9.1	3260	20.7	1.800
W596087		1.5	17.2	351	30.1	0.060
W596088		1.1	16.3	255	29.5	0.106
W596089		1.3	18.2	42	35.1	0.218
W596090		0.9	18.3	40	30.1	0.007
W596091		1.1	18.4	47	29.1	0.040
W596092		1.7	17.9	55	27.6	0.032
W596093		1.8	18.0	55	27.4	0.031
W596094		1.6	21.2	41	25.7	0.022
W596095		0.8	17.6	38	29.5	<0.005
W596096		1.9	18.6	36	31.6	0.032
W596097		1.2	18.4	40	29.7	0.018
W596098		1.3	19.8	42	28.7	0.048
W596099		0.8	18.8	36	26.8	0.037
W596100		1.7	10.8	7450	43.9	0.291
W596101		1.0	16.7	46	26.7	0.016
W596102		4.6	13.9	452	24.7	2.20
W596103		1.2	17.8	44	29.8	0.014
W596104		3.5	15.8	40	30.4	0.006
W596105		0.1	2.4	4	1.6	<0.005
W596106		0.7	16.5	35	29.2	<0.005
W596107		2.9	15.5	61	25.8	0.525
W596108		0.9	17.8	45	31.3	0.006
W596109		2.8	13.5	98	24.5	0.934
W596110		0.8	19.0	38	29.0	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275628

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-DEC-2019
Account: ROCKHA

CERTIFICATE WH19275636

Project: Klaza

P.O. No.: 19-131

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275636

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W596111		5.89	0.32	7.26	26.3	2050	1.43	1.73	2.59	0.25	44.8	13.9	10	20.1	41.2	3.35
W596112		6.21	0.13	7.71	8.9	2430	1.58	0.67	2.91	0.18	48.1	6.9	12	11.00	19.7	3.13
W596113		3.17	1.08	7.42	64.0	260	1.43	2.54	2.22	2.19	53.3	8.6	11	11.10	61.9	4.47
W596114		7.04	0.15	7.47	11.4	2230	1.41	0.65	2.02	0.21	46.9	6.8	10	15.05	37.1	2.84
W596115		5.84	0.20	7.43	10.7	2480	1.52	2.09	2.72	0.27	48.9	6.3	10	11.70	33.7	2.80
W596116		4.13	0.15	7.43	9.0	2250	1.43	1.00	2.65	0.34	48.9	5.7	14	11.90	26.8	2.83
W596117		5.22	0.31	6.72	19.2	2240	1.23	0.76	2.74	0.55	42.4	6.1	9	15.25	31.9	2.72
W596118		2.97	0.29	6.90	16.9	1960	1.23	0.78	2.60	0.67	45.0	5.4	9	14.60	31.7	2.72
W596119		4.82	0.48	7.40	30.5	2040	1.60	0.65	2.46	2.99	57.7	9.3	10	13.70	82.4	2.63
W596120		1.90	2.72	6.43	166.5	470	1.16	3.77	1.44	1.65	41.8	7.1	8	8.41	303	5.52
W596121		4.58	0.13	7.30	7.7	2520	1.48	0.51	2.59	0.30	46.5	6.6	10	10.75	23.7	2.80
W596122		5.43	0.64	7.26	12.2	2080	1.54	1.31	2.64	0.57	52.2	5.9	9	13.70	29.7	3.10
W596123		5.49	0.88	8.06	74.7	1900	1.66	1.24	1.60	2.95	57.2	6.4	10	12.70	36.2	3.68
W596124		0.11	17.55	3.28	254	160	0.44	9.56	2.19	45.1	21.3	15.5	45	0.92	2150	8.50
W596125		3.60	1.16	7.48	77.8	2210	1.40	1.74	1.73	3.89	51.5	5.5	8	16.85	77.3	3.62
W596126		5.75	2.22	7.71	118.5	2580	1.60	1.73	1.29	12.70	57.8	7.0	9	18.55	136.0	3.96
W596127		6.03	0.51	7.48	37.7	1980	1.63	1.56	2.32	4.67	50.1	7.6	8	18.80	86.3	3.10
W596128		5.60	0.25	7.81	16.7	2170	1.80	1.83	1.84	1.99	51.9	9.8	9	12.30	20.0	3.44
W596129		6.39	2.06	7.78	29.5	1960	1.60	3.31	1.90	3.42	46.8	6.7	10	15.45	36.6	3.51
W596130		4.95	0.01	0.10	0.5	30	0.06	0.02	34.2	0.02	1.21	0.6	2	0.07	1.9	0.15
W596131		5.06	1.27	7.47	23.0	2060	1.39	2.94	1.83	4.56	26.4	3.2	10	12.20	39.0	2.19
W596132		5.85	0.85	7.97	16.1	2920	1.31	3.86	1.85	0.67	36.3	4.0	11	9.67	23.1	1.67
W596133		4.97	0.29	7.43	12.6	2370	1.43	1.64	2.55	0.42	39.9	7.5	10	10.75	31.4	2.10
W596134		6.21	0.38	7.40	28.2	2300	1.57	2.81	2.72	0.40	54.7	5.8	9	17.00	33.9	2.96
W596135		5.95	0.13	7.95	13.1	4930	1.25	0.89	1.48	0.66	57.9	7.9	9	18.95	18.6	2.89
W596136		4.56	0.16	7.61	11.1	2630	1.65	0.59	2.53	0.17	51.3	6.3	10	9.88	28.6	3.03
W596137		<0.02	0.14	7.66	11.7	2540	1.52	0.61	2.48	0.16	53.1	6.2	12	9.20	28.2	2.98
W596138		5.59	0.50	7.92	14.0	2300	1.70	11.95	2.24	0.34	58.1	8.1	12	8.37	42.9	3.25
W596139		6.44	0.14	7.77	8.1	2240	1.78	0.51	2.63	0.12	54.8	6.6	9	7.63	10.7	2.99
W596140		5.44	0.11	8.12	11.1	2680	1.70	0.74	2.33	0.48	58.2	10.9	10	7.75	22.7	3.37
W596141		5.27	1.28	7.95	82.5	2220	1.80	8.69	1.56	1.39	60.2	29.4	11	12.90	23.0	4.25
W596142		4.80	0.27	7.54	16.0	2480	1.69	1.11	2.53	0.94	51.5	13.5	9	12.45	10.6	2.82
W596143		5.78	0.26	7.30	16.2	2220	1.69	0.65	2.41	1.32	51.2	10.0	9	16.05	14.7	2.52
W596144		0.26	40.3	5.74	2500	70	1.17	37.1	1.70	46.0	35.7	16.1	23	10.60	1180	9.13
W596145		5.43	0.19	7.65	12.8	2150	1.62	0.46	2.72	0.59	50.5	7.7	14	11.00	8.1	3.07
W596146		4.56	0.43	7.47	11.9	2260	1.72	2.06	2.76	0.71	47.8	7.0	13	11.45	21.8	2.70
W596147		5.33	0.30	7.71	17.6	2200	1.66	1.20	2.03	4.54	49.4	12.1	9	13.50	39.4	2.77
W596148		5.64	0.14	7.35	11.1	2040	1.68	0.35	2.63	0.26	49.7	6.2	9	12.25	5.1	2.74
W596149		5.08	0.44	7.61	16.4	2140	1.73	0.77	2.59	2.49	58.0	6.9	9	12.10	21.0	2.88
W596150		2.72	0.23	7.47	12.4	2320	1.67	0.31	2.63	1.07	50.9	7.5	10	11.00	8.6	3.00

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275636

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W596111		15.00	0.07	0.9	0.092	2.74	22.4	16.3	0.70	489	3.33	1.85	7.2	3.0	610	18.3
W596112		15.30	0.07	1.1	0.070	2.60	24.2	9.5	0.86	490	6.52	2.41	7.7	2.7	660	15.4
W596113		14.90	0.07	1.0	0.163	3.01	29.0	11.2	0.76	449	2.69	1.34	6.5	2.6	590	89.9
W596114		15.15	0.07	1.1	0.077	2.70	24.5	15.2	0.42	438	4.80	1.20	8.4	2.4	660	15.4
W596115		14.70	0.08	1.0	0.069	2.62	25.8	10.5	0.78	423	0.34	2.35	7.3	2.6	630	19.3
W596116		14.55	0.10	1.0	0.047	2.56	26.4	13.0	0.80	404	0.34	2.24	6.6	2.4	610	19.2
W596117		13.80	0.06	1.0	0.059	2.32	22.2	34.4	0.64	577	0.34	1.01	6.4	2.3	610	21.5
W596118		13.40	0.09	0.9	0.052	2.36	23.7	37.5	0.67	584	0.37	1.06	6.1	2.3	600	27.0
W596119		14.95	0.13	1.1	0.070	2.82	32.2	21.2	0.73	416	0.92	1.58	6.5	2.7	590	111.5
W596120		12.85	0.06	0.9	0.120	3.16	22.0	6.8	0.72	390	0.84	0.09	3.8	2.3	510	155.0
W596121		14.40	0.09	1.2	0.047	2.68	23.9	12.3	0.77	373	0.49	2.13	6.9	2.4	590	23.4
W596122		14.20	0.10	1.0	0.079	2.78	27.5	14.6	0.68	516	0.85	1.72	6.2	2.3	560	33.3
W596123		15.40	0.10	1.2	0.224	3.25	31.1	13.2	0.62	1320	2.43	1.30	7.2	2.8	650	88.2
W596124		10.60	0.11	1.2	1.775	0.44	11.5	26.7	2.51	496	11.95	0.09	2.6	29.9	400	1020
W596125		14.65	0.09	1.3	0.247	3.52	28.1	18.9	0.53	917	5.03	0.93	6.7	2.4	590	159.0
W596126		14.90	0.10	1.3	0.916	3.71	32.8	14.9	0.44	1300	4.06	0.86	6.1	2.5	580	187.0
W596127		15.40	0.11	1.3	0.225	3.24	26.2	12.9	0.59	785	3.75	1.14	7.1	2.5	610	30.2
W596128		14.55	0.08	1.5	0.152	2.89	27.3	18.7	0.77	462	1.88	1.58	8.1	3.4	630	24.8
W596129		14.75	0.09	1.2	0.458	3.41	25.1	57.1	0.78	1140	2.37	0.75	7.2	2.5	630	907
W596130		0.29	0.08	<0.1	0.006	0.02	1.2	1.1	1.83	125	<0.05	0.04	0.1	0.2	80	1.7
W596131		13.30	0.10	1.1	0.275	3.39	14.1	30.3	0.66	1100	5.17	0.54	6.0	1.5	610	249
W596132		14.20	0.11	1.2	0.136	3.68	19.6	10.4	0.49	431	1.75	1.27	7.2	1.5	720	47.1
W596133		14.15	0.09	1.3	0.109	2.96	20.1	12.1	0.65	495	1.93	1.96	6.7	2.2	640	30.7
W596134		14.65	0.11	1.3	0.176	2.92	27.9	14.1	0.71	646	1.72	1.72	7.0	2.4	600	26.1
W596135		15.20	0.12	1.3	0.079	2.71	31.5	36.3	0.46	577	2.16	0.85	7.8	2.5	620	13.3
W596136		14.75	0.09	1.4	0.073	2.79	26.1	16.4	0.83	549	1.36	2.15	8.1	2.4	620	14.0
W596137		14.40	0.11	1.4	0.075	2.75	28.8	16.1	0.83	533	1.22	2.11	7.2	2.4	590	13.6
W596138		15.00	0.09	1.3	0.114	2.88	30.7	14.3	0.90	570	1.61	2.09	8.3	2.8	640	28.9
W596139		15.10	0.10	1.4	0.056	2.67	29.5	17.7	0.85	562	1.35	2.36	8.1	2.5	620	15.5
W596140		15.70	0.12	1.4	0.101	3.13	30.7	14.4	0.95	524	2.15	2.15	8.6	2.8	670	14.9
W596141		15.55	0.08	1.4	0.180	3.07	34.3	14.2	0.65	511	2.94	1.53	8.1	2.9	610	92.0
W596142		14.50	0.11	1.5	0.078	2.58	27.1	13.3	0.76	581	1.38	1.97	7.9	2.8	640	32.5
W596143		14.45	0.10	1.3	0.103	2.77	26.7	19.3	0.61	639	0.85	1.80	7.3	2.6	610	39.2
W596144		12.60	0.07	0.8	1.575	2.59	18.2	17.0	0.67	2300	16.65	0.06	4.3	14.6	440	1655
W596145		15.55	0.11	1.2	0.076	2.27	26.0	14.2	0.89	628	0.86	2.38	8.3	3.3	670	22.6
W596146		15.15	0.11	1.0	0.103	2.52	22.6	13.8	0.78	639	1.28	2.20	7.7	2.4	650	32.0
W596147		15.05	0.10	1.1	0.155	2.69	25.3	16.3	0.76	626	1.32	1.96	7.3	2.4	630	36.6
W596148		14.70	0.08	1.1	0.067	2.36	24.7	14.2	0.81	625	0.74	2.26	7.8	2.9	610	17.5
W596149		14.35	0.11	1.3	0.132	2.63	32.0	15.5	0.84	713	1.15	2.03	7.4	2.5	600	58.7
W596150		14.65	0.10	1.4	0.061	2.63	25.2	17.8	0.79	631	0.89	2.20	8.2	2.6	600	32.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275636

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W596111		110.5	<0.002	0.85	2.06	9.9	1	3.6	329	0.51	0.27	9.65	0.266	1.29	3.2	72
W596112		95.4	0.002	0.30	1.20	11.0	1	2.4	425	0.56	0.15	10.60	0.288	1.03	3.6	78
W596113		170.5	<0.002	3.09	2.59	10.1	1	7.5	226	0.47	0.50	11.25	0.235	1.80	3.9	68
W596114		113.5	0.002	0.41	3.91	11.4	1	2.6	195.0	0.56	0.20	12.85	0.277	1.34	3.1	73
W596115		99.7	<0.002	0.41	1.38	10.5	1	2.5	389	0.52	0.34	13.85	0.272	1.11	3.6	72
W596116		102.0	<0.002	0.74	1.67	10.7	1	2.3	370	0.47	0.39	15.15	0.260	1.11	3.7	70
W596117		85.7	<0.002	0.87	16.45	9.4	1	2.8	231	0.46	0.26	11.35	0.244	1.27	4.4	65
W596118		86.5	<0.002	0.82	13.90	8.5	1	2.7	232	0.46	0.27	12.35	0.238	1.20	4.3	65
W596119		138.5	<0.002	1.03	6.63	10.1	1	3.8	261	0.51	0.23	14.15	0.247	1.81	4.4	70
W596120		208	0.002	5.40	4.83	7.7	1	10.5	46.4	0.33	0.50	10.70	0.155	2.09	3.7	56
W596121		97.5	<0.002	0.59	1.02	10.0	1	2.1	385	0.54	0.18	14.35	0.248	1.15	3.9	67
W596122		123.5	<0.002	1.21	2.45	9.4	1	2.5	361	0.48	0.31	17.80	0.232	1.50	3.8	64
W596123		179.5	0.002	0.58	3.92	11.5	1	3.6	239	0.56	0.17	13.35	0.270	2.12	3.1	76
W596124		17.4	0.017	6.69	43.0	5.2	28	16.7	71.3	0.21	0.29	2.45	0.113	6.13	2.3	72
W596125		170.5	0.003	0.50	5.17	10.2	1	2.9	174.0	0.56	0.25	14.45	0.240	2.17	3.4	70
W596126		180.0	<0.002	0.48	11.65	10.4	1	3.7	131.5	0.51	0.41	14.25	0.220	2.60	3.8	69
W596127		149.0	0.002	0.45	13.20	10.8	1	2.2	221	0.58	0.49	14.20	0.251	2.09	2.8	70
W596128		114.5	<0.002	0.32	3.14	11.1	1	2.1	275	0.67	0.27	14.60	0.272	1.48	2.9	73
W596129		160.5	0.003	0.97	10.55	11.3	1	3.4	163.0	0.57	0.51	14.35	0.257	2.55	3.5	77
W596130		0.7	<0.002	0.01	0.05	0.3	1	0.2	78.9	<0.05	<0.05	0.11	0.007	0.02	0.1	2
W596131		170.5	0.004	0.64	43.6	8.1	1	2.9	120.0	0.49	0.35	12.65	0.234	2.91	3.4	66
W596132		169.5	<0.002	0.45	27.5	9.7	1	4.0	223	0.58	0.32	14.40	0.268	2.20	2.5	75
W596133		120.0	0.003	0.30	11.40	9.3	<1	2.6	332	0.53	0.08	11.80	0.257	1.75	3.2	71
W596134		123.0	0.002	0.57	3.87	9.5	<1	2.2	307	0.56	0.24	13.00	0.256	1.67	3.9	70
W596135		111.0	<0.002	0.27	19.55	10.7	1	2.0	209	0.60	0.11	16.45	0.263	1.22	3.5	71
W596136		105.5	0.002	0.26	2.50	10.3	1	1.9	369	0.61	0.09	13.85	0.268	1.22	2.7	74
W596137		110.0	0.003	0.24	2.36	10.5	<1	1.8	362	0.59	0.11	14.50	0.261	1.20	2.9	72
W596138		120.0	0.002	0.18	2.60	10.9	<1	2.2	340	0.68	0.19	16.10	0.276	1.31	3.1	74
W596139		105.5	0.002	0.06	1.45	11.0	<1	1.9	386	0.63	0.15	15.45	0.269	1.14	2.9	73
W596140		130.0	0.002	0.20	1.73	11.7	1	2.2	366	0.63	0.27	12.90	0.284	1.49	3.1	78
W596141		151.5	<0.002	0.51	3.98	11.3	1	5.2	271	0.67	5.01	16.30	0.264	1.75	3.5	74
W596142		105.0	0.002	0.36	3.28	10.2	1	2.2	329	0.61	0.22	12.95	0.259	1.34	2.5	70
W596143		105.0	0.002	0.19	4.98	9.6	<1	2.0	294	0.60	0.07	13.05	0.251	1.43	2.4	66
W596144		145.5	0.003	7.84	106.0	7.5	2	10.3	61.3	0.36	0.76	8.57	0.164	2.04	5.2	56
W596145		89.4	<0.002	0.09	2.48	11.2	<1	2.4	389	0.59	0.05	11.85	0.288	1.05	2.7	78
W596146		91.1	0.002	0.13	11.05	11.0	1	2.0	389	0.57	0.05	11.45	0.281	1.28	2.9	75
W596147		122.5	<0.002	0.43	3.80	10.7	1	2.6	291	0.56	0.10	12.80	0.259	1.54	3.3	71
W596148		91.2	0.002	0.17	2.26	10.8	1	2.7	339	0.60	0.05	13.10	0.266	1.05	3.2	70
W596149		111.5	0.002	0.20	2.65	9.8	1	2.1	319	0.65	0.05	14.45	0.254	1.27	5.1	68
W596150		102.0	<0.002	0.06	1.76	10.8	1	1.8	366	0.63	<0.05	12.85	0.263	1.15	3.6	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275636

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W596111		1.2	16.3	43	27.8	0.022
W596112		0.7	17.4	40	30.3	0.007
W596113		2.1	16.1	177	29.2	0.103
W596114		3.7	16.8	37	32.2	0.014
W596115		0.8	16.8	42	28.8	0.017
W596116		0.8	16.4	41	32.3	0.012
W596117		1.7	14.8	50	30.6	0.020
W596118		1.8	14.6	55	27.7	0.019
W596119		1.3	16.1	182	33.8	0.049
W596120		2.9	10.6	133	25.0	0.150
W596121		0.7	15.3	40	33.4	0.018
W596122		1.6	13.8	84	31.2	0.035
W596123		2.8	16.7	214	34.8	0.050
W596124		2.6	9.8	7250	41.6	0.288
W596125		1.8	14.6	348	37.3	0.105
W596126		3.9	14.5	978	36.0	0.163
W596127		2.7	15.3	281	38.1	0.039
W596128		1.6	17.4	539	39.2	0.012
W596129		5.3	13.8	353	33.1	0.106
W596130		<0.1	2.2	5	1.4	<0.005
W596131		4.9	11.2	400	30.8	0.098
W596132		4.1	13.5	69	35.6	0.034
W596133		1.9	13.0	71	36.9	0.027
W596134		1.5	16.4	69	40.2	0.132
W596135		3.2	18.1	95	40.6	0.011
W596136		0.7	17.5	48	40.7	0.017
W596137		0.7	17.4	47	38.9	0.010
W596138		0.9	17.9	93	35.6	0.024
W596139		0.6	17.9	41	39.4	<0.005
W596140		0.8	18.7	95	40.1	0.012
W596141		2.0	15.8	292	40.4	0.150
W596142		0.8	15.6	119	44.3	0.022
W596143		0.9	14.8	172	39.9	0.017
W596144		6.5	9.5	3380	21.7	1.675
W596145		0.7	17.6	85	39.2	<0.005
W596146		1.0	16.4	98	30.1	0.010
W596147		1.5	16.4	304	31.3	0.015
W596148		1.1	17.3	65	34.4	<0.005
W596149		0.9	17.7	258	36.5	0.011
W596150		0.6	17.2	108	41.1	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275636

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19275643

Project: Klaza

P.O. No.: 19-132

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275643

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594721		3.98	0.25	8.41	18.1	3080	1.40	0.97	0.52	0.37	56.6	12.4	10	9.99	25.4	3.61
W594722		5.72	0.22	8.00	13.5	2330	1.62	0.46	1.75	0.27	56.5	7.0	10	13.95	16.3	3.00
W594723		6.60	0.20	7.51	11.0	2300	1.65	0.37	2.58	0.17	52.0	5.9	11	11.15	16.9	2.99
W594724		3.74	0.17	7.79	9.3	2480	1.63	0.47	2.71	0.17	50.9	7.7	11	9.59	15.4	3.14
W594725		2.79	0.88	7.24	62.9	1420	1.61	2.38	2.91	0.59	53.8	8.4	10	9.43	73.6	4.11
W594726		5.74	0.16	7.63	4.8	2400	1.55	1.61	2.73	0.10	49.6	7.7	11	9.07	14.3	2.95
W594727		6.74	0.40	7.69	10.8	2450	1.46	2.11	2.75	0.12	52.0	9.9	10	7.56	60.3	3.11
W594728		5.10	0.18	7.70	10.4	2450	1.60	0.53	2.46	0.15	48.8	15.6	11	6.74	19.5	3.33
W594729		2.56	0.18	7.52	11.0	2500	1.65	0.65	2.53	0.12	51.9	12.6	11	7.26	13.9	3.28
W594730		6.61	0.25	7.82	42.8	2450	1.79	0.38	2.81	0.89	54.5	8.3	12	7.48	16.6	3.19
W594731		6.42	0.22	7.65	17.4	2310	1.77	0.21	2.85	0.68	49.7	8.2	12	6.33	7.9	3.13
W594732		6.87	0.11	7.30	11.3	2360	1.67	0.23	3.16	0.15	46.8	8.1	11	7.80	11.8	3.10
W594733		7.55	0.16	8.03	8.8	2290	1.76	2.97	2.55	0.34	50.1	7.0	13	6.17	38.3	3.28
W594734		0.26	38.0	5.70	2600	70	1.24	37.7	1.73	46.5	37.9	15.9	22	9.92	1160	9.19
W594735		7.12	0.51	7.78	26.7	2140	1.74	3.56	2.17	1.39	53.9	5.8	10	9.59	53.1	3.41
W594736		6.27	5.92	5.97	116.0	640	1.11	12.40	0.05	2.78	43.4	2.2	9	10.15	61.5	3.10
W594737		5.82	3.51	7.87	210	1290	1.41	12.05	0.10	1.21	57.4	3.0	10	20.8	141.5	4.29
W594738		5.14	5.90	8.37	199.0	2610	1.60	25.9	0.10	1.46	54.5	4.6	26	14.65	281	5.01
W594739		5.89	3.23	8.12	91.3	1340	1.80	22.4	0.68	11.00	48.1	13.9	67	18.00	271	4.64
W594740		6.63	0.36	7.84	30.3	1330	1.48	5.45	3.61	0.73	35.8	17.0	253	15.30	101.0	4.78
W594741		0.11	17.45	3.29	263	90	0.46	10.55	2.19	45.8	22.6	17.3	47	0.93	2120	8.61
W594742		4.90	1.98	7.04	98.7	1540	1.51	6.99	4.93	0.65	36.3	11.2	133	14.70	115.0	3.93
W594743		6.09	1.36	7.49	51.7	1520	1.63	5.68	3.62	0.52	44.0	12.9	121	15.70	129.0	3.76
W594744		7.03	3.64	6.62	54.9	1010	1.56	3.99	6.09	2.17	35.1	7.7	77	14.50	89.0	3.40
W594745		5.75	8.41	7.06	34.1	1500	1.55	2.29	3.33	4.18	39.5	10.7	89	15.20	35.6	3.20
W594746		6.20	0.28	7.03	29.5	1540	1.59	2.31	3.25	0.67	37.1	10.1	59	12.30	36.8	3.00
W594747		6.40	6.96	7.72	37.3	870	1.70	4.90	2.26	17.65	42.2	12.0	62	13.60	84.8	3.86
W594748		5.02	0.02	0.10	<0.2	20	0.07	0.03	34.8	0.03	1.15	1.0	<1	0.06	1.9	0.11
W594749		3.69	1.93	7.03	48.4	1230	1.44	11.20	3.04	1.46	35.6	10.0	65	12.45	196.0	3.39
W594750		7.57	0.90	7.01	41.0	1980	1.62	9.68	3.32	0.68	47.8	8.0	78	23.4	222	3.02
W594751		8.12	0.03	6.93	16.4	1290	1.80	0.13	3.24	0.13	58.2	6.1	27	33.6	8.2	2.40
W594752		6.22	0.04	7.14	18.0	1390	1.90	0.13	3.24	0.21	65.7	6.8	28	34.0	8.3	2.42
W594753		4.69	1.68	7.15	41.7	1340	1.81	3.80	3.35	1.20	58.8	7.9	47	26.1	54.5	3.02
W594754		<0.02	1.69	7.34	40.1	1360	1.75	3.78	3.40	1.17	56.9	7.9	47	26.0	55.6	3.07
W594755		6.92	0.36	6.70	22.4	1600	1.39	5.24	3.12	0.09	31.9	12.9	75	15.80	49.1	3.36
W594756		6.32	0.28	7.56	47.6	2000	1.59	9.50	3.31	0.28	45.8	9.8	135	17.80	143.5	4.13
W594757		6.37	1.61	7.45	75.1	440	1.63	10.55	2.89	1.93	41.7	9.9	60	14.20	183.5	4.11
W594758		6.69	1.05	7.61	103.0	120	1.63	10.20	1.56	0.64	40.8	9.8	20	9.90	168.0	5.23
W594759		6.00	0.28	8.38	126.5	1630	1.71	1.88	1.43	2.21	110.5	17.9	102	7.97	101.0	5.48
W594760		5.88	0.81	7.83	111.0	1110	1.75	8.05	1.54	0.55	79.5	12.1	64	7.73	256	4.79

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594721		15.65	0.09	1.0	0.162	3.11	30.9	36.1	0.42	918	1.34	0.10	8.1	3.4	650	26.0
W594722		15.40	0.09	1.0	0.172	2.93	30.7	30.5	0.64	579	1.51	1.14	7.6	2.9	640	18.3
W594723		14.60	0.12	1.0	0.067	2.72	27.7	17.3	0.82	584	2.56	2.15	7.0	2.6	590	17.8
W594724		16.65	0.09	1.2	0.062	2.72	25.9	12.3	0.88	578	2.56	2.26	8.0	2.9	640	19.8
W594725		16.65	0.06	1.2	0.176	2.84	28.0	12.0	0.70	863	2.91	0.91	7.4	3.1	590	35.8
W594726		16.75	0.10	1.1	0.048	2.67	24.5	13.4	0.85	561	4.43	2.29	7.9	2.9	640	18.2
W594727		16.85	0.09	1.2	0.103	2.77	26.2	12.9	0.87	633	3.45	1.92	8.1	3.0	630	18.9
W594728		16.95	0.08	1.3	0.058	2.80	25.0	11.7	0.91	580	3.95	2.11	8.1	3.2	650	17.2
W594729		17.90	0.11	1.2	0.063	2.82	25.6	12.5	0.88	586	2.97	2.17	8.2	3.4	630	17.4
W594730		17.40	0.11	1.3	0.062	2.81	27.2	10.9	0.90	666	2.06	2.32	8.2	3.2	640	37.9
W594731		17.30	0.10	1.4	0.042	2.69	24.3	10.6	0.87	634	3.61	2.37	8.4	3.2	630	45.2
W594732		17.10	0.10	1.3	0.067	2.67	22.6	11.3	0.81	678	4.36	2.20	8.2	3.0	640	16.9
W594733		17.80	0.11	1.3	0.241	2.72	25.2	13.6	0.93	498	1.88	2.30	8.5	4.6	660	19.0
W594734		14.75	<0.05	0.9	1.610	2.63	18.3	16.9	0.68	2300	17.80	0.06	4.9	15.7	440	1670
W594735		17.70	0.07	1.3	0.360	2.79	27.5	16.0	0.81	437	2.84	2.01	8.3	3.9	640	22.5
W594736		15.85	<0.05	1.0	0.254	2.90	23.3	16.2	0.26	140	5.42	0.07	5.2	4.5	300	309
W594737		19.95	0.06	1.3	0.406	3.73	31.3	11.0	0.34	151	3.34	0.06	7.0	3.8	410	107.5
W594738		20.9	0.07	1.4	0.433	4.02	29.2	12.9	0.41	135	14.85	0.09	6.4	4.9	840	504
W594739		20.2	0.06	1.8	0.477	3.57	25.0	15.8	0.68	960	2.93	0.25	8.6	21.0	1090	136.0
W594740		17.40	0.06	2.2	0.498	2.07	17.9	31.7	2.21	805	2.13	0.85	7.1	88.1	760	11.1
W594741		12.35	0.09	1.4	1.805	0.45	11.5	27.2	2.54	498	13.35	0.09	3.0	32.2	390	1050
W594742		16.45	0.05	1.8	0.148	2.48	17.9	32.8	1.23	825	2.22	0.79	7.0	44.4	680	19.4
W594743		17.50	0.08	1.9	0.162	2.54	24.1	42.6	1.34	762	1.73	0.41	6.5	39.1	690	21.0
W594744		13.90	0.08	1.6	0.125	2.69	18.8	14.5	2.13	1180	1.95	0.11	5.7	20.6	560	61.8
W594745		16.65	<0.05	1.8	0.113	2.70	19.8	18.7	1.24	826	2.17	0.68	6.5	31.2	670	175.5
W594746		16.75	0.07	1.9	0.114	2.59	18.4	23.1	1.22	518	2.06	1.07	6.4	22.9	680	19.7
W594747		18.15	0.06	1.9	0.125	3.70	22.7	17.3	1.14	974	1.20	0.05	7.3	25.3	690	216
W594748		0.31	<0.05	0.1	0.006	0.04	1.3	1.0	1.63	123	<0.05	0.03	0.2	<0.2	70	0.8
W594749		16.85	0.06	1.9	0.178	2.59	17.5	42.5	1.23	531	1.03	1.12	6.3	23.8	660	46.7
W594750		18.65	0.09	3.4	0.132	2.57	23.4	29.6	1.12	581	1.48	0.09	9.0	28.4	880	22.6
W594751		19.00	0.08	3.8	0.029	2.83	28.3	25.5	1.04	525	0.79	0.08	11.1	15.0	940	11.7
W594752		19.20	0.10	4.0	0.033	2.74	32.3	34.4	1.11	549	0.77	0.08	10.8	19.4	930	12.8
W594753		17.85	0.08	3.2	0.113	2.81	30.8	16.2	1.25	556	0.82	0.30	8.6	20.2	830	40.0
W594754		17.80	0.11	3.3	0.105	2.84	29.7	16.2	1.28	563	0.80	0.31	8.5	20.1	830	40.0
W594755		16.55	0.09	1.8	0.148	2.20	16.4	39.1	1.42	480	2.02	1.74	6.8	29.8	660	18.2
W594756		17.95	0.08	2.2	0.235	1.78	23.9	51.0	1.66	704	2.03	1.27	8.6	46.2	820	16.8
W594757		16.95	0.09	2.0	0.446	2.99	22.0	16.9	1.35	655	2.20	0.08	8.1	19.7	830	102.5
W594758		18.65	0.06	1.6	0.809	3.69	19.6	7.9	0.88	467	2.14	0.06	8.7	8.9	730	37.2
W594759		19.10	0.09	5.3	0.632	1.74	53.4	40.9	0.79	1520	2.35	0.05	23.2	35.8	2620	29.8
W594760		18.45	0.15	3.4	0.915	2.54	40.5	29.6	0.80	950	1.67	0.06	17.4	19.0	1720	39.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594721		133.5	0.002	0.52	6.45	11.6	1	2.2	72.6	0.59	0.35	16.80	0.279	1.56	3.4	78
W594722		117.5	<0.002	0.20	3.73	11.4	1	2.1	230	0.54	<0.05	17.25	0.274	1.30	2.7	71
W594723		114.5	<0.002	0.21	1.88	11.0	1	2.0	389	0.54	0.06	12.35	0.260	1.13	3.8	68
W594724		102.5	<0.002	0.20	2.03	11.6	1	2.5	427	0.65	0.11	11.60	0.272	1.02	3.9	75
W594725		142.0	<0.002	1.30	6.67	11.0	1	6.1	189.0	0.66	0.30	12.40	0.246	1.49	5.1	70
W594726		95.2	<0.002	0.09	1.73	11.5	1	1.7	415	0.62	0.93	11.00	0.270	0.89	3.4	73
W594727		104.5	<0.002	0.31	2.86	11.7	1	2.3	339	0.70	1.02	12.65	0.271	1.06	4.3	73
W594728		100.5	<0.002	0.36	1.97	11.6	1	2.2	361	0.63	0.13	12.45	0.273	1.03	3.7	76
W594729		99.7	<0.002	0.37	2.07	11.9	1	2.2	373	0.67	0.22	12.90	0.269	1.07	4.0	76
W594730		106.0	<0.002	0.26	3.00	12.0	1	2.3	401	0.70	0.13	14.80	0.276	1.06	4.5	76
W594731		95.6	<0.002	0.11	1.85	12.0	1	1.8	401	0.77	<0.05	12.45	0.277	0.97	4.7	75
W594732		83.6	<0.002	0.12	2.57	11.7	1	2.0	386	0.71	<0.05	12.40	0.276	0.98	4.4	76
W594733		99.7	0.002	0.08	2.12	12.3	1	1.9	399	0.73	0.10	13.90	0.277	1.26	2.8	77
W594734		138.5	0.002	7.92	106.0	8.8	2	11.6	64.7	0.42	0.78	8.72	0.167	2.05	5.5	57
W594735		108.0	<0.002	0.14	5.94	12.1	1	2.0	362	0.73	0.13	15.20	0.266	1.43	3.3	74
W594736		155.0	<0.002	0.19	39.8	8.6	2	15.1	62.8	0.45	0.83	8.00	0.177	1.73	2.2	59
W594737		216	<0.002	0.55	46.9	11.4	1	10.8	95.2	0.66	1.14	11.85	0.224	2.72	2.3	75
W594738		211	0.002	0.50	161.5	13.8	2	7.2	161.0	0.55	2.66	12.85	0.219	2.85	3.9	91
W594739		205	<0.002	1.28	109.5	14.4	2	4.0	119.5	0.66	1.01	10.20	0.273	2.74	4.4	102
W594740		93.1	<0.002	0.19	17.20	18.2	1	1.3	259	0.57	0.11	7.45	0.331	1.48	3.0	129
W594741		17.2	0.015	6.75	44.2	6.3	33	18.8	75.1	0.24	0.31	2.67	0.115	5.93	2.5	72
W594742		76.7	<0.002	0.18	23.9	11.8	1	1.0	285	0.61	0.05	8.08	0.270	1.47	4.1	95
W594743		108.0	<0.002	0.58	33.8	11.6	1	1.2	228	0.57	0.11	9.58	0.239	1.53	3.9	90
W594744		125.0	<0.002	0.86	38.9	8.8	1	1.2	269	0.52	0.23	8.20	0.197	1.77	3.0	74
W594745		132.0	<0.002	1.19	25.5	10.3	1	1.7	265	0.57	0.14	9.10	0.221	1.63	3.7	81
W594746		103.0	<0.002	1.02	15.30	9.2	1	0.8	414	0.58	0.12	8.73	0.207	1.41	4.2	75
W594747		191.5	<0.002	2.27	43.0	10.0	2	2.3	160.5	0.68	0.30	10.10	0.228	2.15	3.8	80
W594748		1.1	<0.002	0.01	0.14	0.2	1	<0.2	83.7	<0.05	<0.05	0.15	0.005	<0.02	0.2	1
W594749		112.5	<0.002	1.38	27.3	9.0	1	1.0	510	0.56	0.28	8.59	0.205	1.46	4.0	76
W594750		75.0	<0.002	0.70	29.1	8.4	1	2.2	208	0.71	0.28	8.74	0.270	1.47	3.6	74
W594751		81.2	<0.002	0.02	8.92	5.6	1	1.6	224	0.79	<0.05	9.92	0.278	1.66	3.6	52
W594752		91.1	<0.002	0.02	9.98	5.9	1	1.6	253	0.79	<0.05	10.85	0.273	1.64	3.8	51
W594753		119.0	<0.002	0.57	24.7	7.6	1	1.5	251	0.66	0.08	10.50	0.244	1.69	4.4	63
W594754		121.5	<0.002	0.59	24.8	7.6	1	1.5	260	0.69	0.06	10.85	0.248	1.65	4.6	64
W594755		65.7	<0.002	0.98	7.60	9.5	1	1.0	617	0.60	0.09	7.80	0.216	1.20	3.4	78
W594756		64.3	<0.002	0.36	15.20	13.2	1	1.1	471	0.68	<0.05	9.05	0.301	1.10	4.3	96
W594757		121.5	<0.002	1.99	25.2	11.7	1	2.7	136.0	0.65	0.42	9.14	0.255	1.91	4.2	86
W594758		162.5	<0.002	4.21	15.05	8.7	2	3.9	63.6	0.72	0.68	9.45	0.222	2.43	3.5	68
W594759		71.8	<0.002	0.77	25.0	12.2	1	2.7	95.6	1.25	0.14	9.24	0.669	1.44	6.9	103
W594760		113.0	<0.002	1.77	20.6	9.9	1	3.0	73.1	0.96	0.47	9.89	0.452	2.16	4.3	81

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275643

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594721		11.4	16.9	71	28.5	0.014
W594722		6.7	16.8	67	31.6	<0.005
W594723		1.0	16.8	57	29.0	0.014
W594724		0.9	18.0	54	33.0	0.006
W594725		2.4	16.2	117	30.8	0.540
W594726		1.0	16.4	48	31.2	<0.005
W594727		1.8	18.2	48	34.0	0.015
W594728		1.2	16.7	49	35.4	0.039
W594729		1.3	17.3	47	32.3	0.020
W594730		1.2	18.3	103	35.7	0.010
W594731		1.0	17.6	87	36.2	0.005
W594732		1.4	16.6	50	36.5	0.006
W594733		0.8	18.5	64	33.7	0.018
W594734		7.7	9.4	3370	24.9	1.725
W594735		0.8	17.5	182	34.9	0.047
W594736		6.8	4.9	240	26.2	0.263
W594737		4.6	7.4	247	33.2	0.389
W594738		2.8	9.6	378	45.5	0.627
W594739		3.2	15.6	385	60.9	0.243
W594740		2.9	13.9	121	72.1	0.025
W594741		1.9	9.8	7230	44.9	0.277
W594742		1.9	11.2	115	59.8	0.041
W594743		2.1	11.7	109	58.7	0.029
W594744		2.1	9.5	221	50.0	0.046
W594745		1.5	10.1	291	58.0	0.033
W594746		1.1	9.9	111	56.7	0.025
W594747		2.5	10.3	720	56.4	0.046
W594748		<0.1	2.2	4	1.6	<0.005
W594749		7.2	9.6	115	54.1	0.034
W594750		4.5	10.9	144	126.5	0.015
W594751		1.9	10.9	89	149.5	<0.005
W594752		2.6	11.7	85	156.5	<0.005
W594753		2.3	10.9	118	121.0	0.026
W594754		2.3	11.3	118	123.0	0.025
W594755		2.5	8.8	47	55.9	0.020
W594756		8.7	12.2	88	71.1	0.030
W594757		4.3	12.9	211	61.4	0.129
W594758		4.8	11.4	149	50.5	0.162
W594759		14.4	23.5	848	226	0.041
W594760		9.2	16.8	215	139.0	0.110

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275643

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275644

Project: Klaza

P.O. No.: 19-133

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275644

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W596151		1.48	0.93	7.23	46.7	1910	1.68	4.99	2.19	1.14	49.4	9.3	9	11.05	53.8	3.45
W596152		4.96	0.13	7.49	12.7	2100	1.96	0.45	2.51	0.73	46.5	9.2	10	10.45	11.6	2.99
W596153		4.41	0.20	7.78	17.0	2330	1.60	1.02	2.81	0.51	50.9	9.6	13	10.45	40.7	3.35
W596154		1.88	0.07	7.21	5.3	2360	1.63	0.10	2.77	0.23	44.1	7.5	10	6.34	4.7	3.01
W596155		1.59	0.46	6.67	19.1	1040	1.50	0.69	2.24	2.83	31.7	13.7	10	9.88	25.5	2.28
W596156		0.11	18.60	3.49	283	110	0.51	10.85	2.32	50.0	23.1	19.2	49	1.03	2250	9.08
W596157		4.17	0.23	7.11	11.8	2100	1.60	0.45	2.74	0.92	40.0	9.7	9	9.98	12.5	2.66
W596158		5.78	0.41	7.48	21.6	2190	1.76	1.29	2.48	1.22	42.4	10.7	12	15.65	28.7	2.76
W596159		5.53	0.73	7.92	31.3	2610	1.62	2.26	1.63	5.00	52.0	18.9	9	16.15	113.0	2.93
W596160		5.14	0.68	7.55	28.7	2320	1.73	2.17	1.98	1.52	54.1	17.9	9	13.85	48.2	2.99
W596161		3.67	0.24	7.46	9.1	2300	1.74	0.93	2.55	0.60	49.5	8.4	11	10.95	22.1	3.00
W596162		3.02	0.18	7.21	9.2	2260	1.65	0.45	2.35	0.36	50.0	8.2	11	10.05	32.7	2.80
W596163		1.58	0.15	7.61	8.7	2160	1.74	0.53	2.42	0.27	52.5	9.2	11	10.15	24.2	2.89
W596164		4.21	1.65	7.06	66.0	1730	1.86	3.32	2.91	0.95	52.8	10.5	9	24.0	57.7	3.30
W596165		5.76	0.44	7.71	42.6	2350	1.60	1.34	2.47	0.42	55.1	9.2	10	12.60	49.2	3.27
W596166		5.25	0.82	7.14	28.4	2790	1.47	1.65	2.16	0.99	57.5	8.5	13	13.70	70.4	2.81
W596167		3.75	0.28	7.71	21.2	2420	1.86	0.82	2.24	0.37	56.5	10.3	10	12.15	28.9	3.10
W596168		5.81	4.32	7.22	125.5	1810	1.89	5.33	2.25	5.42	55.2	11.8	15	21.1	504	2.97
W596169		2.38	9.24	7.97	149.5	2020	2.34	12.35	2.84	3.61	70.4	14.6	24	23.3	668	3.53
W596170		0.26	40.1	5.91	2690	80	1.26	37.1	1.77	48.2	36.0	18.5	24	10.45	1220	9.54
W596171		5.44	0.18	7.45	42.4	1260	2.09	0.22	2.80	4.11	62.3	14.0	24	16.90	57.4	2.95
W596172		5.02	0.10	7.42	36.8	1870	2.25	0.18	2.73	3.13	60.3	10.1	22	15.50	31.3	2.42
W596173		5.91	0.16	7.28	38.8	1430	2.08	0.34	2.32	0.87	58.7	7.0	16	21.7	10.9	2.37
W596174		4.53	0.52	7.08	51.2	1020	2.07	0.40	3.04	1.47	53.7	6.0	5	34.2	6.3	2.68
W596175		4.21	0.58	7.25	36.1	1270	2.34	0.14	3.11	1.65	57.4	6.8	6	35.7	4.7	2.72
W596176		5.36	1.11	7.23	46.2	2660	2.11	1.36	2.69	2.93	60.4	6.9	17	21.3	31.2	2.62
W596177		4.88	0.03	0.30	0.4	30	0.13	0.01	33.8	0.03	1.40	1.3	1	0.12	5.3	0.11
W596178		5.16	0.10	7.25	29.4	2330	1.94	0.21	3.16	0.36	68.2	6.0	21	13.85	5.7	2.40
W596179		1.58	0.38	7.22	31.1	2210	1.79	0.16	2.21	0.57	64.4	7.3	22	12.90	18.2	2.50
W596180		5.83	0.21	7.06	15.5	2050	1.53	0.40	2.78	0.22	38.4	6.7	12	11.05	16.3	3.01
W596181		5.65	0.75	7.35	631	2100	1.58	2.57	2.70	2.34	43.6	8.5	15	9.07	40.3	3.60
W596182		5.74	0.30	7.64	28.0	2140	1.55	1.10	2.78	3.30	43.3	9.0	14	10.75	16.4	3.46
W596183		6.19	0.10	7.66	8.7	2280	1.69	0.14	2.87	0.13	48.8	7.4	12	7.41	5.8	3.10
W596184		<0.02	0.06	7.68	8.7	2280	1.60	0.12	2.86	0.10	50.1	7.5	12	7.50	5.9	3.08
W596185		6.06	0.19	7.26	13.6	2240	1.71	3.67	2.66	0.13	43.0	7.7	16	8.69	28.9	2.92
W596186		5.66	0.27	7.46	33.0	1940	1.85	1.26	2.76	0.21	46.7	7.0	10	14.10	38.1	3.03
W596187		6.21	0.23	7.48	21.7	2280	1.70	0.42	2.92	0.40	49.3	7.7	12	8.67	20.4	3.11
W596188		6.08	0.13	7.56	15.8	2280	1.52	0.34	2.82	0.20	48.7	7.9	12	7.61	15.1	3.22
W596189		6.01	0.27	7.57	36.8	2290	1.63	0.35	2.74	0.40	46.7	7.8	10	9.35	21.7	2.86
W596190		5.00	0.44	7.37	56.7	2460	1.70	1.22	2.26	0.37	57.2	9.5	10	7.75	74.0	2.82

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W596151		15.75	0.14	1.5	0.180	2.82	25.8	18.6	0.83	628	1.04	1.84	8.2	2.7	570	41.9
W596152		16.60	0.17	1.7	0.063	2.70	24.1	16.6	0.82	583	0.65	2.22	8.8	2.8	600	20.7
W596153		17.15	0.17	1.2	0.108	2.66	26.7	14.5	0.89	646	0.67	2.26	8.3	3.2	660	17.0
W596154		16.30	0.16	1.2	0.049	2.39	21.8	12.4	0.89	580	0.93	2.38	7.9	2.8	630	14.4
W596155		15.00	0.15	1.0	0.127	1.44	14.6	14.6	0.65	620	1.28	2.82	7.5	2.5	500	67.3
W596156		13.10	0.18	1.5	2.00	0.48	12.4	30.5	2.68	527	13.85	0.10	3.3	32.8	420	1095
W596157		15.90	0.17	1.2	0.068	2.34	19.7	14.8	0.78	676	2.07	2.40	8.0	2.6	610	37.7
W596158		17.15	0.16	1.2	0.128	2.85	21.4	24.7	0.74	760	1.16	2.14	8.4	2.9	640	30.0
W596159		17.05	0.20	1.4	0.227	3.55	27.2	16.8	0.67	656	1.86	1.54	8.1	3.2	610	82.0
W596160		17.45	0.16	1.4	0.135	3.11	27.6	23.5	0.71	635	1.44	1.76	8.4	2.9	630	56.6
W596161		16.90	0.18	1.4	0.119	2.77	25.6	16.5	0.81	551	2.92	2.09	8.4	2.7	630	23.6
W596162		16.20	0.19	1.3	0.119	2.60	26.4	16.5	0.83	496	2.18	2.18	7.9	2.7	620	17.5
W596163		16.70	0.18	1.3	0.091	2.53	28.3	17.6	0.91	511	2.33	2.27	8.2	3.1	620	17.1
W596164		15.85	0.19	1.3	0.087	2.67	28.9	42.4	0.74	623	1.82	0.69	7.7	2.7	560	94.0
W596165		16.05	0.16	1.2	0.102	3.00	30.6	21.0	0.79	653	2.50	1.91	7.8	2.6	610	24.3
W596166		15.70	0.17	1.1	0.177	3.28	32.2	22.7	0.70	657	6.40	1.75	7.9	2.4	600	52.1
W596167		17.25	0.21	1.3	0.111	3.14	31.3	18.1	0.76	517	4.43	1.93	8.7	3.2	620	24.8
W596168		16.40	0.18	2.5	0.182	2.62	28.3	26.2	0.80	831	12.75	0.75	9.3	5.1	970	248
W596169		21.8	0.17	4.6	0.190	2.69	34.2	34.0	0.92	896	11.00	0.34	13.1	8.5	1550	276
W596170		14.70	0.13	0.9	1.615	2.75	17.7	17.3	0.69	2400	17.20	0.06	5.1	15.2	470	1730
W596171		19.80	0.21	4.9	0.046	2.49	31.0	35.3	0.66	716	1.24	1.14	11.7	8.6	1420	32.8
W596172		19.90	0.19	4.9	0.032	2.66	30.5	34.3	0.61	545	0.68	2.12	11.1	8.9	1120	21.0
W596173		18.90	0.17	3.8	0.031	2.48	29.5	66.1	0.74	826	1.12	0.09	10.0	5.9	1030	16.2
W596174		19.60	0.18	2.3	0.032	2.92	25.7	19.2	0.74	980	1.96	0.07	9.7	2.3	860	78.7
W596175		19.25	0.20	2.4	0.031	2.78	28.6	18.3	0.77	1100	1.77	0.12	9.5	2.6	870	69.0
W596176		19.45	0.16	4.0	0.099	2.31	29.7	42.3	0.87	778	2.75	0.08	10.6	6.9	1130	69.5
W596177		0.93	0.11	0.1	<0.005	0.11	1.3	1.3	1.40	104	0.70	0.14	0.4	3.3	70	3.2
W596178		18.75	0.20	4.6	0.032	2.24	35.0	50.0	1.02	591	0.68	0.06	10.5	7.3	1110	10.2
W596179		19.05	0.17	4.7	0.034	2.13	31.8	50.2	0.84	767	1.68	0.05	11.4	8.6	1190	12.3
W596180		15.80	0.15	1.0	0.103	2.51	18.4	11.6	0.76	673	1.72	2.12	7.7	2.7	600	16.4
W596181		16.70	0.16	1.0	0.193	2.68	21.8	16.6	0.81	629	1.49	1.95	7.9	3.1	630	40.6
W596182		17.15	0.16	1.1	0.087	2.68	21.0	15.4	0.86	682	6.62	2.12	8.4	3.1	680	42.7
W596183		16.10	0.18	1.1	0.046	2.56	25.6	13.1	0.84	624	2.01	2.34	8.1	2.7	620	16.2
W596184		16.45	0.22	1.2	0.047	2.59	25.4	13.5	0.83	620	2.37	2.35	8.1	2.8	610	16.5
W596185		16.85	0.17	1.3	0.085	2.72	20.8	11.5	0.76	562	3.16	2.34	8.5	2.7	590	17.9
W596186		17.60	0.18	1.3	0.095	2.79	24.8	17.2	0.69	788	2.37	2.12	8.4	2.8	550	22.7
W596187		18.20	0.19	1.2	0.089	2.69	25.1	14.1	0.80	807	1.76	2.36	8.3	3.2	620	27.2
W596188		17.60	0.19	1.1	0.065	2.69	25.4	13.3	0.90	741	2.07	2.45	8.3	3.1	640	25.8
W596189		17.50	0.21	1.2	0.070	2.91	24.7	13.8	0.74	640	1.45	2.27	7.8	2.8	580	56.4
W596190		17.15	0.20	1.2	0.178	3.23	30.4	13.6	0.60	601	2.76	1.85	7.2	3.0	560	28.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W596151		125.0	<0.002	1.21	3.97	10.7	1	3.5	273	0.75	0.27	14.60	0.243	1.69	4.9	67
W596152		101.5	<0.002	0.11	2.23	10.6	<1	2.5	337	0.85	<0.05	14.20	0.257	1.28	4.1	72
W596153		108.0	<0.002	0.28	2.86	11.7	1	2.9	380	0.62	0.09	13.90	0.283	1.42	3.6	77
W596154		79.0	0.002	0.02	1.03	10.9	1	2.6	405	0.56	<0.05	11.40	0.275	1.03	2.6	76
W596155		71.9	0.003	0.36	2.94	9.1	<1	5.8	249	0.51	0.10	10.50	0.224	1.18	3.6	51
W596156		19.8	0.019	7.14	46.4	6.6	33	19.3	79.1	0.25	0.30	2.95	0.121	7.36	2.7	76
W596157		78.7	0.005	0.14	2.81	10.2	1	3.7	336	0.64	<0.05	10.90	0.267	1.32	3.5	74
W596158		105.5	0.002	0.31	3.65	11.1	<1	3.7	305	0.64	0.07	11.95	0.281	1.94	3.9	76
W596159		166.5	0.003	0.55	3.70	10.8	1	4.0	201	0.63	0.15	14.90	0.257	2.68	4.2	70
W596160		126.0	0.002	0.53	4.05	11.2	1	3.7	261	0.65	0.12	13.45	0.268	1.88	4.8	74
W596161		113.0	0.004	0.28	1.82	11.5	1	2.9	356	0.69	0.06	13.40	0.262	1.40	3.3	74
W596162		99.5	0.003	0.16	2.57	11.2	1	3.2	330	0.62	0.06	12.20	0.257	1.29	2.9	74
W596163		102.5	0.005	0.14	3.64	11.8	1	3.2	344	0.65	<0.05	13.10	0.260	1.23	3.4	74
W596164		113.5	0.002	0.33	11.85	10.0	1	2.3	196.0	0.62	0.37	12.55	0.244	1.56	4.2	68
W596165		129.0	0.002	0.61	2.94	10.6	1	3.4	332	0.62	0.10	14.45	0.261	1.52	4.1	73
W596166		125.0	0.004	0.50	3.97	10.5	1	3.9	310	0.59	0.33	12.80	0.253	1.76	4.3	71
W596167		133.5	0.003	0.42	3.61	11.5	1	3.2	317	0.73	0.09	16.40	0.267	1.70	3.9	74
W596168		107.5	0.002	0.43	47.3	8.5	1	2.7	242	0.65	0.27	11.40	0.298	1.45	7.3	65
W596169		88.2	0.002	0.31	70.2	7.9	1	2.6	222	0.77	0.62	9.06	0.409	1.39	6.9	75
W596170		149.5	<0.002	8.21	109.5	8.6	2	11.0	64.8	0.42	0.79	9.12	0.173	2.38	5.7	59
W596171		78.2	<0.002	0.02	12.35	6.3	1	1.8	362	0.72	<0.05	8.78	0.374	1.06	3.8	66
W596172		88.8	<0.002	0.01	9.98	5.3	<1	1.7	593	0.76	<0.05	10.10	0.318	1.14	3.9	54
W596173		81.3	<0.002	0.09	13.30	5.2	1	1.4	322	0.69	<0.05	9.50	0.306	1.48	4.0	51
W596174		97.2	<0.002	0.15	5.79	5.4	1	1.4	310	0.69	<0.05	8.31	0.305	1.79	4.3	46
W596175		105.5	<0.002	0.07	6.64	5.5	1	1.3	291	0.67	<0.05	9.33	0.297	1.76	4.6	46
W596176		71.8	<0.002	0.17	11.95	5.7	1	1.9	224	0.70	<0.05	9.17	0.322	1.32	4.3	56
W596177		3.0	<0.002	<0.01	0.48	0.2	2	<0.2	80.2	<0.05	<0.05	0.21	0.005	0.03	0.2	1
W596178		75.5	<0.002	0.04	8.98	5.1	1	1.6	205	0.71	<0.05	10.60	0.311	1.02	4.4	53
W596179		61.2	0.003	0.06	11.55	5.7	<1	1.7	222	0.72	<0.05	9.41	0.333	0.94	7.7	59
W596180		83.6	0.002	0.11	1.85	10.1	1	1.9	371	0.58	0.05	11.15	0.258	1.16	3.6	70
W596181		100.0	<0.002	0.51	2.00	10.9	1	3.2	354	0.58	0.07	11.45	0.266	1.17	3.9	74
W596182		96.8	0.002	0.48	1.81	11.5	1	2.6	368	0.63	0.57	11.90	0.277	1.23	4.0	79
W596183		93.7	<0.002	0.05	1.33	10.9	1	1.7	396	0.64	<0.05	13.15	0.267	0.99	3.9	73
W596184		92.3	<0.002	0.05	1.32	10.9	1	1.7	400	0.65	<0.05	14.35	0.268	1.00	4.1	73
W596185		92.3	0.002	0.17	1.28	10.6	1	2.2	376	0.67	1.80	12.05	0.258	1.18	4.5	70
W596186		116.0	0.003	0.34	3.08	10.1	1	2.2	332	0.74	0.11	16.05	0.240	1.30	5.4	65
W596187		96.6	<0.002	0.15	2.14	11.7	1	1.9	405	0.62	<0.05	13.40	0.262	1.10	4.1	72
W596188		98.0	0.003	0.12	1.59	12.5	1	2.2	397	0.55	0.08	14.35	0.283	1.13	3.7	81
W596189		108.5	<0.002	0.17	2.11	10.6	1	1.9	388	0.55	<0.05	13.85	0.248	1.16	3.9	67
W596190		141.0	0.002	0.43	3.30	10.2	1	2.5	322	0.61	0.09	15.05	0.217	1.97	4.8	65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275644

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W596151		1.3	15.9	112	41.1	0.148
W596152		0.8	17.5	93	44.4	0.005
W596153		1.0	17.3	97	37.0	0.078
W596154		0.5	16.0	50	37.0	<0.005
W596155		2.1	16.9	300	30.3	0.015
W596156		1.9	11.1	7660	48.5	0.279
W596157		1.0	15.0	121	32.9	0.005
W596158		1.9	14.8	211	34.8	0.025
W596159		2.4	16.5	510	40.4	0.038
W596160		1.8	16.3	254	39.9	0.020
W596161		1.0	17.1	122	39.6	0.009
W596162		0.7	15.6	99	38.3	0.013
W596163		0.7	17.2	92	37.4	0.019
W596164		2.3	18.4	270	38.0	0.020
W596165		1.0	15.4	74	34.1	0.055
W596166		1.2	14.7	132	32.3	0.031
W596167		1.5	16.0	106	36.1	0.041
W596168		2.8	13.4	603	97.6	0.064
W596169		2.6	15.0	390	191.5	0.090
W596170		7.3	9.5	3490	26.3	1.710
W596171		1.0	12.5	665	202	<0.005
W596172		1.0	9.4	501	189.5	<0.005
W596173		1.7	10.1	164	138.0	<0.005
W596174		1.3	12.2	240	72.5	0.011
W596175		1.5	12.8	301	73.0	0.012
W596176		2.4	11.1	292	159.0	0.042
W596177		<0.1	2.5	8	3.2	<0.005
W596178		2.4	9.6	87	180.5	<0.005
W596179		2.0	10.2	156	191.0	<0.005
W596180		0.9	14.8	52	27.7	<0.005
W596181		1.1	15.2	268	28.7	0.059
W596182		1.4	15.8	407	29.2	0.025
W596183		0.9	17.2	48	30.5	<0.005
W596184		1.0	17.2	47	31.3	<0.005
W596185		0.9	16.4	45	34.6	0.009
W596186		2.0	16.5	63	36.6	0.008
W596187		1.0	17.6	73	35.2	<0.005
W596188		1.0	18.6	57	31.8	<0.005
W596189		1.1	16.5	68	35.3	<0.005
W596190		1.5	16.3	73	33.5	0.011

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275644

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275645

Project: Klaza

P.O. No.: 19-134

This report is for 29 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275645

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W596191		4.21	0.34	7.64	80.3	1690	1.45	0.70	1.98	0.27	43.9	6.5	8	18.00	47.5	2.40
W596192		3.82	0.48	7.29	52.5	1890	1.78	1.19	2.49	0.31	64.5	5.4	8	16.95	87.9	2.31
W596193		2.31	1.83	7.42	81.0	1550	1.82	3.72	2.52	1.43	60.1	27.0	8	14.70	149.5	2.86
W596194		5.76	0.15	7.64	14.9	1980	1.60	0.64	2.55	0.14	51.1	7.1	11	10.10	9.8	2.77
W596195		5.48	0.12	7.43	12.1	2130	1.68	0.42	2.60	0.11	48.6	6.4	10	9.19	9.6	2.74
W596196		0.12	17.70	3.23	257	90	0.44	10.35	2.18	47.0	22.7	17.6	41	0.93	2110	8.46
W596197		5.75	0.13	7.54	15.6	2230	1.62	0.30	2.68	0.12	46.9	6.3	11	9.37	20.7	2.69
W596198		2.83	0.12	7.75	9.2	2280	1.70	0.24	2.63	0.09	57.9	7.7	10	8.41	14.5	3.03
W596199		2.43	0.33	7.44	11.7	2100	1.83	0.92	2.46	0.21	53.3	7.5	11	8.44	34.1	2.87
W596200		2.76	1.61	7.29	100.5	820	1.70	1.63	3.03	3.20	55.3	6.2	9	14.55	20.2	3.68
W596201		6.23	0.09	7.59	8.4	2210	1.70	0.35	2.65	0.13	55.2	7.2	10	8.30	11.6	2.76
W596202		6.18	0.10	7.39	11.3	1970	1.65	0.29	2.70	0.11	49.4	7.0	10	14.40	8.8	2.67
W596203		4.94	<0.01	0.06	<0.2	20	0.05	<0.01	33.4	<0.02	1.00	0.9	1	<0.05	1.8	0.11
W596204		5.52	0.17	7.09	16.0	2090	1.50	0.38	2.80	0.27	46.5	6.8	9	9.67	11.1	2.81
W596205		5.75	0.23	7.35	17.9	2130	1.69	0.27	2.66	0.62	50.6	7.1	10	12.55	16.8	2.89
W596206		6.33	0.10	7.98	8.4	2320	1.71	0.20	2.90	0.10	61.8	7.8	11	9.26	13.2	3.05
W596207		4.64	0.19	7.51	14.7	2150	1.76	0.57	2.69	0.12	53.3	9.4	9	10.15	35.4	2.78
W596208		4.42	0.21	7.75	12.5	2080	1.68	0.50	2.60	0.11	57.7	7.1	13	10.95	11.5	3.22
W596209		2.23	2.09	7.19	116.0	270	1.51	5.78	1.93	0.25	47.8	18.3	9	13.60	182.5	5.99
W596210		1.27	1.94	7.02	91.0	330	1.55	5.94	1.83	0.25	50.5	11.7	9	12.85	137.0	5.26
W596211		5.99	0.38	7.66	16.9	2300	1.81	1.67	2.18	0.21	53.8	11.7	10	8.40	41.3	3.03
W596212		5.68	0.31	7.57	19.2	2300	1.84	0.90	2.50	0.56	46.5	8.9	12	10.40	30.5	3.26
W596213		6.10	0.15	7.69	9.5	2280	1.61	0.53	2.74	0.10	54.1	9.2	12	7.14	10.2	3.01
W596214		5.55	0.22	7.39	11.9	1950	1.72	0.95	2.38	0.15	53.8	6.0	10	8.35	26.7	2.65
W596215		6.55	0.26	7.91	16.1	2100	1.71	9.60	2.70	0.21	53.1	7.6	14	7.80	40.1	2.92
W596216		7.15	0.13	7.49	9.3	2240	1.60	0.53	2.94	0.25	45.3	7.7	11	8.84	25.8	3.12
W596217		0.26	38.3	5.73	2520	190	1.28	37.1	1.69	47.3	36.6	18.0	21	10.05	1155	9.06
W596218		6.80	0.24	7.27	12.6	1930	1.87	0.88	2.92	0.18	49.1	8.7	12	12.00	20.5	2.73
W596219		3.37	0.20	7.46	10.7	2110	1.73	0.82	2.71	0.11	47.0	7.7	11	8.33	16.4	3.14

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W596191		17.00	0.18	0.9	0.099	2.90	24.2	40.1	0.53	489	3.39	0.87	7.4	2.7	600	20.1
W596192		18.30	0.20	1.3	0.165	3.30	33.4	18.6	0.77	584	1.88	1.10	9.4	3.0	600	25.9
W596193		16.35	0.21	1.2	0.253	3.74	34.3	12.4	0.86	1280	2.35	0.48	7.5	2.8	580	92.9
W596194		16.50	0.21	1.2	0.088	2.86	29.3	14.7	0.75	628	1.79	2.05	7.5	2.6	560	19.2
W596195		16.20	0.20	1.3	0.057	2.83	26.8	19.3	0.78	547	3.73	2.19	7.8	2.7	540	16.7
W596196		12.85	0.19	1.2	1.925	0.45	12.3	28.4	2.47	489	13.65	0.09	3.0	33.6	380	1010
W596197		16.80	0.19	1.2	0.048	2.89	25.0	15.6	0.71	524	3.64	2.23	7.7	2.6	580	16.8
W596198		17.25	0.21	1.2	0.060	2.82	31.3	14.6	0.84	559	8.08	2.38	8.4	2.7	580	16.5
W596199		16.95	0.21	1.2	0.129	2.98	28.8	15.1	0.78	602	2.41	1.93	8.4	2.7	560	24.2
W596200		15.95	0.17	1.2	0.150	3.41	31.4	29.0	0.94	1400	3.41	0.31	7.3	2.7	540	263
W596201		17.05	0.22	1.2	0.065	2.79	30.4	12.7	0.78	528	2.00	2.27	8.1	2.7	570	17.4
W596202		16.35	0.20	1.3	0.047	2.68	26.9	24.3	0.76	580	3.43	1.99	7.8	2.8	550	16.7
W596203		0.27	0.16	<0.1	<0.005	0.01	1.2	1.0	1.89	123	<0.05	0.03	0.1	1.0	60	0.5
W596204		16.55	0.21	1.2	0.068	2.72	24.4	13.0	0.73	615	2.70	2.08	8.0	2.7	550	26.4
W596205		16.80	0.22	1.3	0.060	2.87	26.7	16.6	0.72	664	3.78	2.02	8.4	3.0	590	44.7
W596206		17.95	0.21	1.3	0.056	2.86	35.0	13.3	0.84	595	7.02	2.41	8.6	3.1	610	17.5
W596207		17.75	0.22	1.5	0.078	2.88	28.1	13.2	0.70	505	7.30	2.09	9.1	3.5	590	17.4
W596208		17.00	0.20	1.4	0.097	2.80	32.4	14.7	0.84	614	2.39	1.77	8.2	3.5	620	16.0
W596209		15.55	0.17	1.1	0.241	2.75	27.0	25.5	0.87	735	2.02	0.52	6.8	2.7	570	22.8
W596210		15.55	0.16	1.2	0.247	2.69	28.7	28.2	0.82	712	1.80	0.44	6.5	2.4	540	21.1
W596211		17.80	0.20	1.6	0.103	2.79	29.5	14.4	0.87	598	2.86	2.36	8.8	3.2	600	19.5
W596212		17.85	0.20	1.3	0.170	2.70	24.6	16.9	0.96	654	1.70	2.02	8.4	3.4	650	25.2
W596213		17.35	0.19	1.4	0.063	2.62	29.4	12.4	0.87	596	1.82	2.28	8.2	3.4	630	15.7
W596214		16.55	0.23	1.7	0.078	2.73	30.2	14.4	0.78	505	1.62	2.15	8.1	2.7	540	18.2
W596215		17.60	0.25	1.5	0.106	2.53	28.5	12.7	0.89	559	9.19	2.50	8.6	3.3	600	20.6
W596216		17.40	0.23	1.3	0.081	2.57	23.5	12.1	0.88	621	2.61	2.17	7.9	3.2	640	17.9
W596217		14.90	0.15	0.8	1.645	2.63	19.6	16.8	0.67	2230	17.90	0.06	4.8	16.1	430	1635
W596218		17.00	0.18	1.8	0.056	3.01	25.4	15.1	0.74	606	46.0	1.84	8.6	2.9	540	20.2
W596219		17.25	0.18	1.5	0.061	2.55	24.1	15.9	0.83	581	14.35	1.91	8.4	3.3	640	15.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W596191		120.0	0.004	0.33	4.10	10.2	1	2.1	227	0.53	0.05	12.65	0.252	1.69	4.0	69
W596192		144.5	<0.002	0.35	6.49	10.6	1	3.5	241	0.72	0.37	15.10	0.251	2.21	4.7	67
W596193		214	0.002	1.22	15.30	10.5	1	4.2	147.5	0.64	1.71	16.00	0.222	2.89	6.5	65
W596194		120.5	<0.002	0.24	1.70	10.0	1	2.4	332	0.55	0.28	15.90	0.235	1.35	4.3	64
W596195		115.5	<0.002	0.13	1.46	9.9	1	2.2	341	0.68	0.17	14.85	0.236	1.20	5.1	63
W596196		18.1	0.016	6.62	45.0	6.2	32	18.5	75.4	0.23	0.30	2.73	0.109	6.87	2.7	71
W596197		107.5	0.002	0.15	1.50	10.1	1	2.8	368	0.62	<0.05	14.15	0.240	1.21	4.5	65
W596198		114.0	0.002	0.05	1.26	11.3	1	2.0	385	0.72	<0.05	15.50	0.260	1.18	5.0	73
W596199		136.0	<0.002	0.47	1.90	10.6	1	2.4	315	0.75	0.26	16.70	0.236	1.57	6.2	65
W596200		223	<0.002	1.97	5.17	9.9	1	4.6	121.0	0.61	0.30	14.25	0.225	2.77	5.0	60
W596201		113.0	<0.002	0.15	1.24	10.8	1	2.7	372	0.64	0.06	15.05	0.249	1.15	4.7	67
W596202		103.5	0.002	0.07	1.65	10.4	1	2.6	326	0.59	0.10	15.35	0.242	1.14	4.9	66
W596203		0.4	<0.002	<0.01	0.06	0.2	1	<0.2	79.8	<0.05	<0.05	0.08	0.005	<0.02	0.1	1
W596204		103.5	<0.002	0.24	1.66	10.1	1	2.3	348	0.64	0.07	13.85	0.242	1.23	4.9	67
W596205		111.5	<0.002	0.16	2.16	10.5	1	2.2	337	0.68	0.05	14.50	0.250	1.25	4.6	70
W596206		110.0	0.006	0.07	1.50	11.4	1	2.3	401	0.64	0.05	15.90	0.263	1.13	5.0	71
W596207		118.0	0.002	0.13	5.07	11.1	1	2.2	350	0.77	<0.05	15.85	0.256	1.40	5.4	68
W596208		117.0	0.003	0.12	2.27	11.3	1	3.7	316	0.69	0.06	14.80	0.261	1.44	5.2	72
W596209		153.5	<0.002	3.43	4.11	9.8	1	6.8	98.9	0.55	0.70	10.95	0.227	1.85	6.3	64
W596210		158.5	<0.002	2.70	3.72	9.7	1	7.2	87.7	0.53	0.56	13.95	0.210	1.83	5.8	62
W596211		121.5	<0.002	0.59	1.82	11.4	1	3.4	325	0.80	0.73	15.95	0.253	1.39	5.8	70
W596212		110.0	0.002	0.50	2.02	11.8	1	3.5	338	0.60	0.22	11.65	0.283	1.35	3.6	76
W596213		103.0	<0.002	0.25	1.03	11.6	1	2.8	396	0.65	0.15	14.75	0.266	1.09	5.2	73
W596214		118.0	0.002	0.40	1.73	10.2	1	3.5	308	0.75	0.23	16.90	0.231	1.31	5.9	62
W596215		108.5	0.004	0.40	1.77	11.4	1	4.5	392	0.70	4.44	14.30	0.265	1.25	4.9	70
W596216		93.7	0.003	0.31	1.51	11.5	1	2.9	380	0.60	0.10	11.80	0.273	1.25	4.0	75
W596217		159.5	0.003	7.78	105.5	8.6	2	11.2	65.6	0.40	0.75	9.00	0.159	2.38	5.8	54
W596218		106.0	0.005	0.27	2.61	10.0	1	2.3	299	0.82	0.20	16.35	0.239	1.35	5.3	65
W596219		96.4	0.006	0.17	1.91	11.6	1	2.7	352	0.71	0.13	12.15	0.272	1.19	4.3	74

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275645

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W596191		2.3	11.9	53	27.8	0.008
W596192		1.9	17.2	57	34.9	0.015
W596193		2.8	13.4	142	34.2	0.053
W596194		1.0	16.2	45	36.8	0.007
W596195		0.9	16.2	43	38.0	<0.005
W596196		1.8	10.8	7080	40.8	0.279
W596197		1.0	16.0	48	36.9	<0.005
W596198		0.8	18.6	41	34.1	<0.005
W596199		1.1	17.7	50	33.7	0.011
W596200		3.5	15.9	290	32.2	0.052
W596201		0.8	17.7	42	34.4	<0.005
W596202		1.3	17.0	42	34.3	<0.005
W596203		<0.1	2.1	3	1.5	<0.005
W596204		1.0	16.7	53	34.0	<0.005
W596205		0.9	17.5	94	34.8	<0.005
W596206		0.6	18.9	43	36.2	<0.005
W596207		0.8	19.0	41	38.2	0.007
W596208		1.1	17.5	52	40.3	0.006
W596209		3.2	12.9	66	32.0	0.242
W596210		3.1	12.7	62	36.4	0.232
W596211		1.3	17.8	70	44.7	0.010
W596212		1.2	17.0	107	39.3	0.010
W596213		0.8	18.8	49	40.9	0.010
W596214		1.4	17.5	54	44.1	0.010
W596215		1.1	19.1	52	43.5	0.021
W596216		1.6	16.7	57	40.4	0.010
W596217		7.2	10.3	3310	25.0	1.730
W596218		3.0	17.0	49	50.7	0.014
W596219		2.8	17.4	47	42.7	0.007

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275645

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-23	PUL-31	PUL-QC	SPL-21
WEI-21			

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275646

Project: Klaza

P.O. No.: 19-135

This report is for 39 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275646

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W594761		6.01	0.81	7.39	66.2	640	1.95	7.93	2.50	0.49	41.4	6.3	15	14.50	83.9	3.26
W594762		6.97	0.77	7.47	78.9	1270	1.97	14.05	2.91	0.21	42.5	7.5	15	12.20	118.5	3.02
W594763		7.32	1.20	7.09	58.4	920	2.00	9.88	2.87	0.43	39.5	6.8	15	9.98	72.6	2.99
W594764		7.85	2.25	7.45	166.5	1370	2.04	55.6	2.74	2.59	47.0	6.4	15	12.25	478	2.84
W594765		6.51	0.77	7.66	79.3	1400	1.99	41.9	2.95	0.25	47.6	5.8	16	11.25	258	2.82
W594766		6.90	1.28	7.48	84.4	1330	1.93	26.7	2.44	11.10	40.5	7.9	17	10.25	170.5	2.88
W594767		0.12	17.35	3.37	265	130	0.49	9.85	2.23	49.0	23.1	16.9	47	0.91	2200	8.74
W594768		6.90	0.06	7.47	26.2	2930	1.96	0.47	3.45	0.38	57.1	6.3	15	23.0	15.3	2.79
W594769		6.57	0.16	7.43	27.9	2390	1.78	0.41	3.47	0.70	58.8	6.0	12	24.0	13.9	2.76
W594770		6.68	0.43	7.23	36.3	1270	1.72	0.64	3.30	0.84	52.0	6.1	11	18.25	16.0	2.41
W594771		7.99	0.20	7.24	103.5	700	1.76	0.15	3.12	0.54	58.8	7.1	12	20.9	6.2	2.73
W594772		6.26	0.06	7.28	22.2	2030	2.03	0.16	3.57	0.26	56.7	5.3	10	30.0	16.7	2.62
W594773		5.04	0.01	0.12	0.7	30	0.07	0.03	34.3	0.02	1.26	0.5	1	0.12	1.5	0.18
W594774		6.11	0.07	7.23	23.2	1740	1.81	0.42	3.96	0.23	55.8	4.6	11	34.7	25.6	2.68
W594775		6.35	0.42	7.52	46.2	1900	1.61	0.59	3.13	0.36	60.0	6.5	14	27.1	68.1	2.49
W594776		8.20	0.64	7.57	44.0	1530	1.80	0.39	3.98	0.40	62.5	8.3	24	24.0	12.9	2.98
W594777		3.12	0.64	7.86	53.4	1110	2.12	0.22	2.54	0.68	72.6	5.3	33	18.65	7.3	2.59
W594778		5.97	0.03	7.16	16.5	900	1.61	0.04	1.28	0.05	43.0	1.4	4	8.20	1.0	1.33
W594779		3.20	0.02	7.09	17.8	930	1.63	0.04	1.25	0.07	42.9	1.4	3	8.37	1.0	1.28
W594780		6.59	0.01	6.99	13.6	700	1.72	0.03	1.61	0.04	40.0	1.5	6	10.55	1.0	1.71
W594781		5.45	0.02	6.63	13.6	1360	1.64	0.03	1.85	0.06	36.0	1.4	4	9.82	0.6	1.44
W594782		5.99	0.01	6.92	19.5	760	1.62	0.04	1.47	0.02	39.5	1.4	4	7.73	0.6	1.30
W594783		4.85	0.25	6.83	19.7	1370	1.75	0.08	1.05	0.03	38.7	1.2	4	7.75	0.7	1.28
W594784		2.46	0.35	7.79	15.5	890	2.25	0.48	0.90	0.26	43.4	0.9	4	12.80	1.8	1.25
W594785		5.72	0.34	7.32	22.4	1730	2.34	1.23	3.55	0.56	49.2	7.3	17	29.3	38.9	2.79
W594786		0.26	39.6	5.75	2550	500	1.16	37.6	1.68	46.3	37.8	16.7	21	10.65	1170	8.96
W594787		5.64	0.23	7.54	14.2	1670	2.19	0.31	4.01	0.42	55.0	6.3	14	26.8	18.1	2.85
W594788		6.01	0.04	7.36	13.2	1300	2.13	0.10	3.93	0.54	54.4	6.5	11	31.9	5.6	2.72
W594789		6.65	0.02	7.50	13.0	1380	2.15	0.07	4.20	0.74	62.4	6.0	10	32.7	2.3	2.68
W594790		5.72	0.02	7.13	14.9	1340	1.93	0.08	4.86	1.01	54.6	6.4	11	30.6	2.0	2.83
W594791		6.01	0.03	7.26	13.8	1090	2.02	0.13	4.17	0.63	50.7	6.1	11	30.3	2.8	2.76
W594792		5.53	0.07	6.92	16.7	1160	2.10	0.19	3.60	0.36	45.2	6.4	15	26.3	8.1	2.68
W594793		<0.02	0.07	6.71	17.1	1150	2.06	0.18	3.56	0.36	42.2	6.5	15	26.5	7.6	2.65
W594794		6.00	0.21	7.40	21.8	1690	2.11	0.21	3.79	0.39	50.6	7.7	19	29.4	32.2	2.93
W594795		7.06	1.76	6.92	166.0	1770	1.96	0.83	4.45	12.65	57.8	6.7	22	24.4	40.3	2.61
W594796		5.99	0.14	6.99	25.0	1310	2.08	0.22	3.82	0.48	66.5	4.6	13	27.8	3.2	2.51
W594797		6.35	0.11	6.93	18.4	1130	2.10	0.13	3.51	0.59	59.8	4.7	12	24.8	3.4	2.27
W594798		5.95	0.27	7.44	22.6	2130	2.11	0.20	2.97	0.91	62.9	5.9	18	25.8	17.5	2.78
W594799		2.63	1.63	7.62	44.1	1290	2.35	0.54	3.31	2.15	51.4	8.1	17	27.0	40.4	2.95

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275646

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W594761		18.15	0.16	1.4	0.965	3.19	23.1	25.2	0.96	613	1.30	0.16	9.0	5.2	600	32.7
W594762		18.35	0.17	1.6	0.802	2.91	22.3	61.4	0.97	522	1.74	0.24	9.7	5.2	640	26.2
W594763		15.50	0.07	1.4	0.688	3.00	19.8	39.9	0.97	646	1.35	0.17	9.3	4.3	620	54.5
W594764		17.40	0.10	1.6	0.720	3.23	24.6	53.0	0.98	747	2.09	0.17	10.2	4.4	610	47.9
W594765		16.45	0.10	1.5	0.671	2.88	25.2	68.5	1.02	505	1.72	0.20	10.0	4.0	630	27.9
W594766		15.95	0.07	1.6	0.528	3.31	21.6	37.5	0.94	563	3.04	0.16	9.7	4.1	650	99.9
W594767		11.00	0.12	1.3	1.870	0.46	11.8	25.9	2.58	505	11.80	0.10	2.8	27.7	400	1055
W594768		16.80	0.09	2.8	0.034	1.98	27.6	139.0	1.29	597	0.78	0.25	7.4	6.1	820	10.0
W594769		16.60	0.11	2.4	0.046	2.14	28.9	125.0	1.23	598	0.57	0.22	7.7	4.8	800	16.4
W594770		17.15	0.08	2.4	0.049	1.79	24.1	208	1.16	717	0.86	0.38	9.1	4.1	860	27.5
W594771		17.35	0.10	2.4	0.032	1.75	28.5	250	1.14	821	0.85	0.33	8.9	4.8	810	57.5
W594772		17.00	0.09	2.3	0.033	2.35	27.4	88.2	1.12	561	0.54	0.16	8.5	3.6	840	10.3
W594773		0.33	0.08	<0.1	0.008	0.03	1.3	1.2	1.98	136	0.05	0.05	0.1	0.2	70	0.5
W594774		16.05	0.09	2.3	0.037	2.43	26.8	32.6	1.02	601	0.59	0.13	7.8	3.5	820	15.4
W594775		16.55	0.12	2.7	0.037	2.53	30.3	53.9	1.09	764	1.17	0.11	7.8	5.0	810	13.0
W594776		16.70	0.10	3.3	0.036	2.46	30.5	60.7	1.35	929	0.87	0.12	7.5	9.8	870	17.6
W594777		19.10	0.08	4.0	0.037	2.21	33.8	220	0.90	916	0.32	0.23	12.3	13.4	1070	45.9
W594778		16.45	0.09	2.4	0.015	0.50	21.2	306	0.56	400	0.44	0.44	16.0	1.6	330	15.0
W594779		16.65	0.06	2.4	0.015	0.54	22.0	317	0.56	391	0.40	0.46	15.8	1.4	340	16.6
W594780		16.60	0.06	2.3	0.013	0.89	19.4	224	0.57	477	0.47	0.44	14.9	1.5	330	19.5
W594781		16.00	0.08	2.4	0.015	0.63	17.1	265	0.69	595	0.40	0.46	15.0	1.0	320	50.4
W594782		16.50	0.06	2.4	0.013	0.43	19.3	274	0.58	346	0.34	0.42	14.4	1.1	330	12.1
W594783		15.90	0.07	2.5	0.011	0.57	20.1	316	0.46	257	2.24	0.34	14.3	1.2	320	17.1
W594784		18.00	0.08	3.3	0.027	1.18	22.2	383	0.44	345	2.27	0.24	19.4	0.9	390	22.3
W594785		18.10	0.09	2.9	0.030	2.76	22.1	25.2	1.00	512	0.69	0.12	8.2	6.8	840	13.8
W594786		12.30	0.06	0.8	1.580	2.58	19.4	15.6	0.68	2270	15.25	0.06	4.3	13.2	430	1630
W594787		17.35	0.08	2.7	0.031	2.73	26.0	18.4	0.95	448	0.58	0.44	7.8	5.3	850	22.2
W594788		17.75	0.10	2.4	0.033	2.83	25.7	18.4	0.94	477	0.47	0.64	9.0	4.0	860	21.3
W594789		17.50	0.10	2.4	0.032	2.80	31.2	25.5	1.06	528	0.57	0.17	8.2	4.0	850	23.4
W594790		16.65	0.09	2.3	0.028	2.80	26.3	24.3	1.25	613	0.55	0.22	8.2	4.1	840	23.0
W594791		17.25	0.07	2.4	0.033	2.76	23.6	26.1	1.02	537	0.53	0.78	8.9	4.1	840	23.0
W594792		17.10	0.09	2.7	0.030	2.41	20.9	61.6	0.99	563	0.46	1.26	7.5	5.8	820	20.9
W594793		17.00	0.08	2.6	0.031	2.44	19.3	62.0	0.96	556	0.48	1.27	8.0	5.9	800	20.9
W594794		18.25	0.10	3.2	0.036	2.52	23.5	49.3	1.15	527	0.47	1.48	7.6	8.2	890	18.3
W594795		16.30	0.09	3.0	0.166	2.27	29.3	63.2	0.79	608	3.87	0.20	8.1	11.1	720	329
W594796		16.65	0.10	2.4	0.034	2.37	31.6	25.9	0.74	542	0.59	0.80	11.8	2.8	920	37.8
W594797		16.20	0.07	2.5	0.028	2.41	28.5	33.2	0.65	475	0.87	0.24	11.8	2.6	880	36.8
W594798		17.10	0.09	2.8	0.031	2.47	30.4	64.7	1.04	672	0.57	0.06	10.2	5.4	910	37.7
W594799		19.90	0.11	3.2	0.085	2.46	23.8	78.7	1.06	483	4.14	0.07	8.6	10.9	880	159.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275646

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W594761		154.5	<0.002	1.63	9.34	6.9	1	2.5	142.0	0.69	0.61	10.30	0.199	2.35	4.4	55
W594762		119.5	<0.002	1.47	9.66	7.2	1	1.8	157.0	0.73	0.60	10.50	0.206	2.17	4.6	57
W594763		143.0	<0.002	1.81	6.86	6.6	1	1.8	132.0	0.59	0.41	9.66	0.201	2.05	3.8	55
W594764		177.0	<0.002	1.51	20.2	7.5	1	1.7	136.5	0.64	0.42	10.85	0.214	2.42	3.1	57
W594765		140.5	<0.002	1.28	8.37	7.3	1	1.3	154.5	0.64	0.36	10.95	0.214	2.09	3.2	58
W594766		139.5	<0.002	1.58	13.25	6.9	1	1.5	112.5	0.62	0.39	10.15	0.218	2.29	3.5	57
W594767		18.5	0.016	6.86	42.9	5.6	28	16.9	74.2	0.20	0.28	2.61	0.118	6.01	2.4	74
W594768		70.7	<0.002	0.07	9.63	8.1	<1	1.4	252	0.48	<0.05	8.39	0.318	1.35	3.9	75
W594769		81.6	<0.002	0.13	10.30	7.4	<1	1.3	250	0.50	<0.05	8.63	0.301	1.47	3.4	68
W594770		50.5	<0.002	0.36	10.40	7.4	1	1.4	235	0.53	<0.05	7.72	0.310	1.49	2.9	69
W594771		62.7	<0.002	0.74	9.48	7.5	<1	1.3	201	0.53	<0.05	8.46	0.303	1.86	3.7	69
W594772		81.1	<0.002	0.06	11.80	7.3	1	1.3	239	0.51	<0.05	8.30	0.300	1.47	3.7	69
W594773		0.7	<0.002	0.01	0.09	0.1	1	0.2	80.9	<0.05	<0.05	0.10	0.005	0.02	0.1	1
W594774		80.5	<0.002	0.03	13.20	6.3	<1	1.2	320	0.52	<0.05	8.09	0.301	1.55	3.6	69
W594775		94.6	<0.002	0.27	17.05	7.1	1	1.4	181.5	0.49	<0.05	8.62	0.310	2.13	6.2	71
W594776		94.9	<0.002	0.36	11.15	8.0	1	1.4	258	0.48	<0.05	8.66	0.334	2.44	7.0	81
W594777		79.1	<0.002	0.38	8.89	5.7	1	2.0	267	0.72	<0.05	10.90	0.323	1.88	6.5	57
W594778		20.4	<0.002	0.16	3.21	2.4	<1	1.6	274	1.29	<0.05	8.58	0.135	0.50	4.5	14
W594779		21.7	<0.002	0.15	3.07	2.4	<1	1.6	277	1.28	<0.05	8.47	0.138	0.47	4.3	15
W594780		31.6	<0.002	0.14	1.89	2.4	<1	1.7	238	1.23	<0.05	7.77	0.134	0.72	2.8	15
W594781		19.9	<0.002	0.17	1.85	2.3	<1	1.5	247	1.19	<0.05	7.45	0.131	0.55	2.8	14
W594782		16.2	<0.002	0.27	1.73	2.3	<1	1.6	217	1.29	<0.05	8.05	0.131	0.39	2.7	14
W594783		23.6	<0.002	0.52	3.05	2.2	<1	1.6	265	1.25	<0.05	8.00	0.127	0.49	2.5	13
W594784		48.8	<0.002	0.16	7.05	2.4	1	3.0	224	1.46	<0.05	9.58	0.147	1.01	10.6	13
W594785		79.2	<0.002	0.03	16.50	8.3	<1	1.4	364	0.50	<0.05	6.96	0.327	1.21	3.7	79
W594786		154.5	0.003	7.74	101.5	7.5	2	10.1	62.9	0.33	0.71	9.17	0.164	1.94	5.2	55
W594787		91.1	<0.002	0.03	9.38	7.6	1	1.4	678	0.51	<0.05	8.16	0.314	1.17	4.1	74
W594788		94.9	<0.002	0.02	9.25	7.6	1	1.3	576	0.52	<0.05	8.06	0.313	1.17	3.5	73
W594789		106.5	<0.002	0.02	11.05	7.6	1	1.3	379	0.52	<0.05	9.00	0.303	1.10	3.0	71
W594790		87.8	<0.002	0.02	9.63	7.1	<1	1.2	461	0.50	<0.05	8.06	0.302	1.13	3.0	73
W594791		81.2	<0.002	0.01	8.47	7.0	<1	1.3	633	0.53	<0.05	7.29	0.310	1.10	3.2	72
W594792		76.6	<0.002	0.01	6.13	7.5	1	1.3	822	0.49	<0.05	6.80	0.306	0.98	3.8	74
W594793		68.7	<0.002	0.02	6.18	7.4	1	1.3	816	0.48	<0.05	6.21	0.306	0.97	3.6	72
W594794		89.0	<0.002	0.03	6.56	9.1	1	1.4	970	0.48	<0.05	7.28	0.344	1.03	3.6	84
W594795		96.0	<0.002	0.72	9.06	6.6	1	2.5	494	0.54	0.06	9.58	0.262	1.08	6.1	60
W594796		83.1	<0.002	0.02	4.76	5.8	<1	1.4	790	0.65	<0.05	9.63	0.255	1.00	3.6	50
W594797		71.8	<0.002	0.02	7.32	5.3	1	1.4	564	0.67	<0.05	8.98	0.258	1.05	3.5	50
W594798		79.6	<0.002	0.09	13.00	7.7	<1	1.6	352	0.54	<0.05	8.70	0.311	1.15	3.9	68
W594799		72.5	<0.002	0.40	14.90	8.9	1	1.9	351	0.61	0.06	7.20	0.340	1.25	4.1	82

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275646

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W594761		2.6	11.7	99	44.1	0.095
W594762		2.3	11.6	54	53.5	0.113
W594763		2.4	10.7	62	42.8	0.051
W594764		2.0	12.5	194	52.0	0.105
W594765		1.7	12.2	59	47.0	0.053
W594766		2.1	10.6	732	50.3	0.057
W594767		1.6	10.3	7440	41.6	0.295
W594768		1.4	14.9	101	96.2	<0.005
W594769		1.4	13.6	130	79.8	<0.005
W594770		1.5	13.1	122	76.6	0.008
W594771		1.8	14.2	98	79.2	<0.005
W594772		1.5	13.5	96	73.7	<0.005
W594773		<0.1	2.1	4	1.5	<0.005
W594774		1.5	13.1	98	73.4	<0.005
W594775		4.3	13.7	90	87.9	<0.005
W594776		1.8	14.9	96	121.0	0.009
W594777		1.5	12.7	121	162.0	<0.005
W594778		2.1	13.8	56	55.4	<0.005
W594779		2.1	14.0	62	54.7	<0.005
W594780		1.4	12.9	55	56.5	<0.005
W594781		1.6	13.2	58	58.2	<0.005
W594782		1.3	14.6	47	53.6	<0.005
W594783		1.2	14.3	38	54.2	<0.005
W594784		3.5	16.7	89	89.3	0.014
W594785		1.4	13.9	101	101.5	<0.005
W594786		6.5	9.7	3370	21.7	1.835
W594787		0.9	13.5	103	88.7	<0.005
W594788		0.8	13.6	105	78.3	<0.005
W594789		1.2	14.4	105	75.6	<0.005
W594790		0.9	13.8	123	75.8	<0.005
W594791		0.9	13.1	105	78.7	<0.005
W594792		0.9	12.6	87	90.7	<0.005
W594793		0.9	12.1	87	91.0	<0.005
W594794		0.9	14.5	102	112.5	<0.005
W594795		1.9	12.6	816	111.0	0.756
W594796		1.0	13.2	180	86.6	<0.005
W594797		1.1	12.5	195	84.2	<0.005
W594798		1.2	14.3	139	100.5	0.024
W594799		1.5	13.4	147	114.5	0.317

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275646

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275648

Project: Klaza

P.O. No.: 19-136

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275648

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597001		6.07	2.42	8.17	95.1	1340	2.06	2.09	1.96	33.2	56.4	8.0	19	27.5	36.8	3.18
W597002		5.18	5.42	7.50	169.0	310	1.77	5.51	1.85	60.7	51.6	8.3	11	18.10	113.5	4.69
W597003		4.26	2.01	8.06	94.3	1470	1.88	3.11	0.80	34.4	59.2	7.4	22	22.6	76.9	3.92
W597004		6.08	0.32	7.82	39.0	1090	1.99	0.21	1.73	6.28	57.0	5.9	30	27.7	13.1	2.37
W597005		4.99	0.01	0.09	0.2	50	0.05	0.01	34.3	0.09	1.12	0.8	1	0.11	1.6	0.12
W597006		7.47	0.28	7.05	23.3	2020	2.05	0.10	2.82	1.93	49.6	5.0	18	29.1	8.7	2.22
W597007		6.87	0.45	7.21	37.6	2170	2.14	0.11	2.31	1.95	46.3	5.1	14	25.8	8.4	2.26
W597008		5.90	0.27	8.05	13.7	1560	2.00	0.18	1.65	0.89	75.8	4.7	13	32.3	8.6	2.49
W597009		7.20	0.40	7.71	23.2	1440	1.93	0.22	2.11	1.12	68.1	5.2	13	32.4	7.4	2.62
W597010		7.04	0.62	7.37	15.7	1730	1.49	0.18	2.25	1.31	60.1	4.6	12	28.8	10.4	2.58
W597011		8.26	0.38	7.37	35.7	1350	1.88	0.21	2.55	1.43	51.6	5.3	15	26.6	8.3	2.31
W597012		7.09	0.20	7.21	50.5	2230	2.06	0.10	3.00	0.68	51.4	6.2	20	24.5	13.6	2.37
W597013		0.26	40.0	5.98	2360	100	1.30	36.6	1.74	48.2	36.1	17.0	23	10.65	1240	9.44
W597014		5.71	0.10	7.25	31.8	4330	2.23	0.19	2.67	1.58	60.8	4.5	12	18.35	3.7	2.42
W597015		8.05	0.22	7.34	104.0	1830	1.92	0.28	2.43	1.80	59.1	4.9	9	28.8	5.5	2.53
W597016		8.41	0.14	7.33	72.5	1540	1.98	0.11	3.27	2.22	47.9	4.2	5	26.1	2.9	2.69
W597017		6.94	0.67	7.50	75.2	1530	1.84	0.07	2.37	2.24	51.7	4.4	5	24.1	4.1	2.79
W597018		5.64	0.51	7.22	150.0	1820	2.05	0.07	2.54	3.63	44.6	4.4	5	24.9	5.8	2.94
W597019		0.23	17.50	3.46	262	100	0.45	11.10	2.29	49.0	21.6	16.1	48	0.97	2260	9.02
W597020		4.75	0.83	6.94	238	6970	1.73	0.27	2.11	3.59	44.5	4.5	5	18.60	9.5	2.52
W597021		7.16	0.22	7.81	25.9	2330	1.54	1.60	3.28	0.97	43.2	8.5	10	18.40	22.5	3.14
W597022		6.33	0.35	7.34	33.6	2130	1.56	1.81	2.94	0.24	32.8	8.1	9	18.20	22.4	3.05
W597023		6.24	0.26	7.57	26.9	1900	1.43	0.60	2.82	0.26	39.5	7.6	9	22.1	18.9	2.71
W597024		3.23	0.35	7.60	30.8	2870	1.72	2.42	2.83	0.23	43.5	8.0	11	15.70	33.3	3.22
W597025		5.87	0.15	7.48	13.7	2420	1.64	0.82	2.96	0.17	40.1	6.8	11	12.70	11.4	2.86
W597026		5.96	1.07	7.20	50.3	2170	1.35	3.69	2.96	7.20	43.8	10.0	9	19.75	36.4	3.10
W597027		2.62	1.26	7.12	50.9	2000	1.39	3.51	3.12	3.48	44.8	9.8	13	17.25	35.0	3.11
W597028		5.27	0.13	7.52	13.1	2530	1.68	0.82	2.95	0.13	44.7	6.6	13	13.05	11.0	2.97
W597029		5.76	0.21	7.39	16.8	2350	1.57	0.62	2.76	0.66	43.0	6.9	11	15.65	13.7	3.00
W597030		3.82	0.56	7.43	32.8	2030	1.58	1.92	2.41	0.21	55.7	9.0	10	18.20	59.5	3.29
W597031		4.64	0.16	7.68	10.6	2310	1.71	0.44	2.73	0.19	50.2	7.0	11	13.90	14.0	3.04
W597032		2.56	1.96	7.44	121.5	440	1.34	3.19	2.49	1.18	47.4	7.7	9	16.15	57.3	4.23
W597033		4.30	0.30	7.72	21.9	2550	1.52	1.20	2.72	0.13	50.3	7.3	11	10.40	20.3	3.20
W597034		<0.02	0.29	7.99	19.6	2610	1.66	1.11	2.79	0.13	51.1	7.5	12	10.40	19.9	3.31
W597035		6.39	0.31	7.42	25.3	2610	1.52	0.85	2.94	0.20	42.6	6.7	10	17.45	25.6	3.17
W597036		6.25	0.93	7.18	32.0	1550	1.21	3.41	2.65	0.45	41.9	7.1	10	12.50	38.3	3.53
W597037		6.37	0.23	7.45	14.7	2300	1.22	1.11	3.09	0.11	42.4	6.0	11	8.14	11.9	3.25
W597038		4.98	0.23	6.97	16.9	1930	1.25	1.24	2.12	0.10	47.8	4.4	10	8.99	9.8	2.48
W597039		6.65	0.21	7.26	15.5	2370	1.35	0.73	2.69	0.30	39.5	6.3	11	8.77	14.1	3.13
W597040		5.99	0.15	7.22	12.4	2060	1.17	0.58	2.48	0.16	37.6	5.5	10	11.25	16.6	2.84

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275648

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597001		20.6	0.12	3.3	0.102	2.98	26.3	32.3	0.57	1120	23.8	0.10	8.5	9.4	910	358
W597002		17.30	0.09	1.6	0.823	3.18	26.4	15.8	0.86	2370	76.4	0.04	7.1	5.1	690	932
W597003		18.95	0.09	2.7	0.449	3.50	31.5	13.0	0.61	1800	4.89	0.05	8.5	12.7	690	281
W597004		20.8	0.10	4.2	0.028	3.01	28.4	24.3	0.73	869	1.51	0.06	10.1	21.4	740	74.3
W597005		0.27	0.07	0.1	<0.005	0.03	1.2	1.0	1.76	127	0.09	0.03	0.1	<0.2	70	1.2
W597006		19.50	0.09	2.5	0.037	2.94	23.4	21.8	0.84	601	0.91	0.07	9.8	11.1	830	41.9
W597007		18.45	0.12	2.0	0.036	2.98	21.9	20.9	0.75	543	0.92	0.06	9.0	7.5	820	69.9
W597008		19.25	0.12	2.7	0.032	2.77	38.9	25.4	0.76	593	0.57	0.07	13.7	3.3	960	40.8
W597009		19.40	0.12	2.7	0.033	2.99	33.7	21.5	0.76	751	1.25	0.07	14.3	3.3	940	34.0
W597010		17.45	0.10	2.4	0.032	3.00	29.3	15.7	0.73	786	1.01	0.07	12.8	2.7	900	28.0
W597011		19.20	0.11	2.5	0.033	2.94	23.9	29.7	0.66	630	0.87	0.08	11.2	6.7	890	49.4
W597012		19.25	0.12	2.6	0.031	2.80	24.8	20.3	0.92	598	0.85	0.08	9.4	12.7	780	30.4
W597013		14.70	0.13	0.9	1.670	2.71	18.1	17.3	0.70	2350	17.55	0.06	4.9	15.5	470	1735
W597014		18.85	0.12	2.6	0.030	2.52	29.1	36.0	0.89	666	1.21	0.07	13.0	2.6	920	22.5
W597015		19.05	0.09	2.4	0.039	2.71	28.8	35.1	0.78	672	1.31	0.09	11.6	2.7	890	28.9
W597016		19.55	0.11	2.2	0.039	2.85	22.5	40.0	0.85	643	1.23	0.09	9.8	2.1	890	39.3
W597017		18.90	0.11	2.2	0.038	2.76	24.1	49.8	0.76	886	2.17	0.09	9.3	2.2	890	73.3
W597018		19.25	0.10	2.2	0.038	2.63	19.9	67.0	0.73	906	1.80	0.13	9.4	2.2	890	116.5
W597019		12.40	0.16	1.3	1.920	0.47	11.7	28.3	2.65	520	12.75	0.10	3.1	32.1	420	1080
W597020		18.45	0.11	2.1	0.038	2.61	20.4	72.4	0.55	749	1.87	0.12	9.1	2.2	820	46.7
W597021		17.65	0.10	1.0	0.078	2.75	20.4	28.1	0.78	784	2.02	1.77	8.9	3.0	690	31.1
W597022		16.50	0.10	1.0	0.088	2.73	15.5	31.5	0.75	745	2.07	1.50	8.3	2.8	650	18.1
W597023		16.60	0.09	1.0	0.084	2.73	18.9	28.6	0.89	722	1.52	0.49	8.4	2.4	630	13.9
W597024		17.55	0.11	1.0	0.128	2.94	21.1	14.1	0.78	711	2.59	1.74	8.5	2.9	680	18.8
W597025		16.60	0.11	1.1	0.090	2.87	19.5	10.7	0.74	797	3.05	2.09	8.3	2.6	610	18.1
W597026		16.80	0.10	1.1	0.174	3.12	22.0	24.5	0.98	905	2.53	0.73	8.3	2.7	580	89.8
W597027		15.70	0.10	1.0	0.162	3.06	22.4	22.7	1.05	967	2.44	0.70	7.6	2.6	580	83.2
W597028		17.25	0.10	1.1	0.063	2.84	21.7	10.1	0.72	669	1.77	2.19	8.7	2.7	630	19.2
W597029		16.95	0.11	1.1	0.093	2.80	21.3	19.4	0.72	662	3.38	1.54	8.3	2.7	610	26.1
W597030		17.35	0.11	1.0	0.277	3.37	28.1	21.8	0.76	868	4.45	0.40	8.1	3.3	610	16.4
W597031		17.10	0.11	1.2	0.095	2.90	24.5	20.4	0.77	669	11.10	1.93	8.9	2.8	660	18.6
W597032		16.50	0.09	1.0	0.194	3.23	24.4	18.5	0.84	691	6.30	0.25	7.5	2.6	570	139.0
W597033		17.45	0.10	1.1	0.186	2.93	25.5	11.3	0.78	634	2.46	1.93	8.4	2.7	620	22.7
W597034		17.80	0.11	1.2	0.191	2.99	26.5	12.0	0.81	640	2.96	2.01	8.6	2.9	630	23.1
W597035		16.85	0.10	1.1	0.150	2.85	21.5	18.3	0.87	709	2.04	1.53	8.3	2.6	590	25.4
W597036		15.10	0.07	1.0	0.151	2.88	21.3	11.6	0.77	549	1.68	1.34	6.9	2.3	590	56.2
W597037		14.30	0.07	0.9	0.109	2.63	21.8	12.1	0.94	704	1.83	1.92	6.8	2.1	650	18.3
W597038		12.90	0.07	1.5	0.069	3.50	26.3	12.5	0.59	443	1.77	1.68	6.9	1.6	440	22.6
W597039		15.15	0.07	1.0	0.115	2.72	18.6	9.5	0.81	619	1.44	1.98	7.5	2.2	610	20.4
W597040		14.75	0.06	1.2	0.094	2.93	19.0	20.0	0.65	627	1.30	1.18	7.5	2.0	600	17.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275648

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597001		113.5	0.002	0.14	16.05	9.5	1	1.8	143.5	0.59	<0.05	8.21	0.348	1.81	5.6	88
W597002		193.5	0.002	2.66	23.1	10.8	2	5.4	120.0	0.58	0.36	12.95	0.248	3.12	10.0	78
W597003		184.5	<0.002	1.49	10.65	8.8	1	4.2	87.6	0.67	0.19	13.55	0.271	2.79	5.8	66
W597004		113.0	<0.002	0.05	9.27	6.4	1	1.7	144.5	0.78	<0.05	11.70	0.292	2.02	4.8	55
W597005		1.0	<0.002	<0.01	0.09	0.3	2	<0.2	81.3	<0.05	<0.05	0.10	0.006	<0.02	0.1	2
W597006		94.0	<0.002	0.09	6.88	5.6	1	1.4	301	0.73	<0.05	8.34	0.282	2.11	4.1	51
W597007		104.5	<0.002	0.14	6.01	5.7	1	1.3	258	0.67	<0.05	8.76	0.278	2.25	4.9	51
W597008		116.5	<0.002	0.03	11.40	6.4	1	1.5	228	0.84	<0.05	12.15	0.273	1.99	6.3	53
W597009		106.0	<0.002	0.02	14.55	6.2	1	1.4	199.5	0.83	<0.05	11.00	0.273	2.09	5.0	52
W597010		98.7	<0.002	0.02	13.95	5.7	1	1.4	171.0	0.77	<0.05	9.53	0.264	2.03	4.1	51
W597011		97.0	<0.002	0.05	8.05	5.9	1	1.4	250	0.78	<0.05	9.65	0.286	2.18	5.1	53
W597012		95.8	<0.002	0.14	6.64	5.9	1	1.4	261	0.70	<0.05	9.34	0.279	2.08	4.7	52
W597013		158.5	0.002	8.06	109.5	8.4	2	10.7	64.0	0.39	0.76	9.57	0.169	2.30	5.7	58
W597014		70.1	<0.002	0.09	8.54	5.7	1	1.5	247	0.82	<0.05	9.97	0.261	1.62	5.3	50
W597015		97.6	<0.002	0.06	12.10	5.8	1	1.6	175.0	0.75	<0.05	9.72	0.293	1.91	5.4	49
W597016		93.6	<0.002	0.03	7.61	5.1	1	1.3	247	0.70	<0.05	7.80	0.314	1.96	4.1	48
W597017		99.0	<0.002	0.06	12.80	5.1	<1	1.2	144.0	0.70	<0.05	10.05	0.304	1.91	4.2	47
W597018		80.2	<0.002	0.03	14.05	5.0	1	1.2	142.5	0.67	<0.05	7.10	0.308	1.74	4.5	48
W597019		18.6	0.016	7.03	44.7	6.1	33	17.6	74.0	0.24	0.32	2.66	0.120	6.70	2.6	74
W597020		87.3	<0.002	0.31	17.60	5.1	1	1.5	142.0	0.65	<0.05	7.28	0.293	1.81	4.6	47
W597021		101.0	0.002	0.21	3.90	11.3	1	1.7	383	0.69	0.06	11.65	0.301	1.38	3.7	83
W597022		95.5	0.004	0.41	7.93	10.1	1	1.8	326	0.71	0.13	10.00	0.277	1.48	4.1	73
W597023		108.5	<0.002	0.34	9.92	10.2	1	1.5	209	0.71	0.08	11.35	0.268	1.61	4.3	71
W597024		122.5	0.004	0.82	3.62	11.1	2	1.8	381	0.75	0.36	12.20	0.278	1.52	4.5	78
W597025		108.0	0.008	0.28	2.27	10.3	1	2.3	377	0.80	0.08	11.75	0.268	1.31	4.1	72
W597026		135.5	<0.002	1.00	5.92	10.0	1	1.8	248	0.86	0.35	12.20	0.247	2.13	5.2	69
W597027		139.0	0.002	0.99	5.84	9.6	1	1.8	248	0.81	0.43	13.30	0.240	2.03	5.5	67
W597028		111.0	<0.002	0.20	2.49	10.7	1	1.6	412	0.82	0.08	12.50	0.268	1.22	4.3	72
W597029		105.5	0.003	0.34	5.10	10.2	1	1.6	316	0.68	0.11	12.35	0.259	1.39	4.3	70
W597030		173.5	0.003	1.20	16.25	10.8	2	2.0	153.0	0.64	0.28	14.90	0.246	2.44	5.7	69
W597031		114.0	0.006	0.12	3.55	11.1	1	1.7	349	0.71	0.05	13.70	0.276	1.29	3.7	75
W597032		158.0	0.010	2.90	8.37	10.3	1	4.0	136.0	0.58	0.39	13.55	0.238	2.32	5.4	67
W597033		117.0	<0.002	0.51	2.49	11.0	1	2.1	373	0.65	0.16	14.20	0.263	1.33	4.1	70
W597034		120.5	0.002	0.48	2.47	11.2	1	2.1	386	0.66	0.17	14.20	0.269	1.40	4.0	73
W597035		111.0	<0.002	0.66	4.19	10.3	1	1.9	329	0.67	0.10	11.85	0.266	1.51	3.8	71
W597036		93.5	<0.002	1.65	4.07	8.1	<1	2.7	274	0.57	0.46	11.40	0.245	1.23	4.1	68
W597037		73.9	<0.002	0.61	2.26	8.6	<1	1.6	365	0.52	0.10	9.24	0.276	0.84	2.9	76
W597038		95.9	<0.002	0.66	2.26	5.8	<1	1.5	247	0.73	0.06	19.75	0.185	1.04	5.0	50
W597039		81.2	<0.002	0.35	2.87	8.5	<1	1.7	355	0.60	0.07	9.60	0.264	1.03	3.2	73
W597040		84.0	<0.002	0.16	4.31	8.2	<1	1.5	243	0.66	<0.05	11.10	0.260	1.07	2.9	71

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275648

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597001		1.6	15.0	1780	118.5	0.017
W597002		3.1	13.3	2780	49.6	0.113
W597003		3.1	13.2	2690	100.5	0.064
W597004		1.7	13.0	658	154.5	<0.005
W597005		<0.1	2.3	11	2.0	<0.005
W597006		1.8	11.6	219	81.4	<0.005
W597007		2.3	11.9	205	62.1	<0.005
W597008		1.7	14.4	180	93.6	<0.005
W597009		1.8	14.8	233	97.8	<0.005
W597010		1.5	13.0	239	85.8	<0.005
W597011		1.7	13.2	168	83.0	<0.005
W597012		1.5	12.5	111	86.7	<0.005
W597013		7.1	10.1	3520	24.3	1.780
W597014		1.5	13.1	148	91.2	<0.005
W597015		2.1	14.3	232	82.6	<0.005
W597016		1.3	11.9	245	72.1	<0.005
W597017		1.4	13.2	373	71.1	0.009
W597018		1.5	11.7	576	70.0	0.010
W597019		1.7	10.1	7520	44.8	0.279
W597020		1.7	11.5	394	66.3	0.020
W597021		1.5	17.4	125	25.6	0.012
W597022		1.2	15.3	89	24.2	0.011
W597023		2.8	15.8	116	25.2	0.010
W597024		1.1	16.1	79	26.2	0.016
W597025		1.2	15.9	69	26.6	0.007
W597026		1.6	14.8	711	27.9	0.028
W597027		1.6	15.3	398	25.8	0.034
W597028		0.7	17.0	55	28.0	0.005
W597029		1.1	16.0	99	29.1	0.012
W597030		1.7	17.0	94	27.3	0.029
W597031		1.1	17.5	81	31.9	0.008
W597032		3.1	14.7	140	28.2	0.143
W597033		1.1	16.8	61	30.9	0.033
W597034		1.1	17.1	63	31.1	0.020
W597035		2.1	15.5	78	29.4	0.027
W597036		1.7	13.0	99	27.3	0.064
W597037		1.0	13.9	65	23.1	0.018
W597038		1.2	12.2	45	36.8	0.018
W597039		1.2	13.8	88	27.4	0.010
W597040		1.1	13.1	73	35.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275648

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-DEC-2019
Account: ROCKHA

CERTIFICATE WH19275649

Project: Klaza

P.O. No.: 19-137

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275649

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597041		7.00	0.20	6.53	33.5	1790	1.39	0.22	4.50	0.24	46.7	6.3	9	15.05	11.5	2.74
W597042		3.46	0.78	6.86	54.2	1460	1.47	2.18	3.33	0.28	41.9	7.1	9	20.1	32.3	3.71
W597043		5.36	0.09	7.16	15.5	1970	1.33	0.22	2.71	0.09	36.8	6.5	10	16.55	7.2	3.00
W597044		6.15	0.12	6.95	26.5	1910	1.55	0.17	2.94	0.08	39.7	6.6	10	18.90	7.0	2.75
W597045		5.54	0.14	7.02	26.5	2300	1.32	0.27	2.69	0.09	39.5	5.3	12	12.40	7.0	2.74
W597046		0.11	18.45	3.26	261	110	0.38	9.15	2.24	40.8	20.7	15.0	47	0.83	2140	8.60
W597047		6.07	0.17	7.34	20.1	2090	1.17	0.26	2.92	0.11	37.8	5.9	10	13.05	11.9	2.86
W597048		5.72	0.25	7.18	31.4	1780	1.31	0.54	3.12	0.77	39.7	5.9	9	18.45	24.2	2.82
W597049		5.84	0.43	8.01	104.5	1700	1.35	0.52	2.20	0.17	47.9	7.8	9	21.1	17.6	2.36
W597050		6.66	0.10	7.43	14.2	2310	1.43	0.29	2.53	0.06	39.4	6.4	10	12.70	11.6	3.14
W597051		5.73	0.31	7.34	21.6	1830	0.96	1.12	2.29	0.17	40.3	5.2	9	10.80	25.2	3.00
W597052		5.02	0.01	0.16	<0.2	30	0.12	0.01	34.0	<0.02	1.26	1.0	2	0.15	8.3	0.14
W597053		5.65	0.44	7.37	38.8	1880	1.54	1.79	2.33	0.44	45.6	8.2	8	14.80	48.1	3.00
W597054		6.07	0.30	7.72	40.1	1750	1.69	1.31	2.13	0.25	42.3	6.5	8	18.60	19.8	2.66
W597055		7.10	0.46	8.41	63.1	1960	1.42	0.81	0.99	1.61	35.8	8.2	10	7.99	17.2	1.34
W597056		6.16	0.35	8.08	110.5	3490	1.76	0.53	1.31	1.12	28.5	4.1	11	9.91	10.0	1.17
W597057		5.08	1.22	7.91	196.0	940	1.99	2.07	1.40	2.04	26.3	13.6	10	8.53	41.2	3.36
W597058		<0.02	1.11	7.49	181.0	1320	1.49	1.72	1.43	1.57	22.2	10.8	9	7.39	34.2	3.03
W597059		6.64	0.84	7.29	67.9	2990	1.72	1.20	3.07	0.41	49.1	10.9	11	15.00	133.0	2.79
W597060		6.45	0.15	7.05	20.0	2250	1.59	0.48	2.57	0.10	51.8	12.7	9	15.20	20.9	2.84
W597061		6.48	0.45	7.64	52.3	4120	1.54	0.62	1.86	0.67	45.8	12.3	9	11.45	29.8	2.14
W597062		6.37	0.52	7.76	88.5	2150	1.83	2.81	2.29	0.29	82.8	28.1	10	11.30	52.6	3.73
W597063		6.03	0.33	6.90	31.7	2330	1.59	0.86	2.97	0.29	40.4	9.5	10	10.70	19.0	2.23
W597064		6.43	0.22	7.18	31.3	3020	1.27	0.60	2.48	0.20	41.4	5.4	10	10.60	13.7	3.12
W597065		2.92	0.25	7.00	29.5	3190	1.54	0.57	2.59	0.28	42.6	6.1	11	11.35	17.9	3.05
W597066		6.83	0.26	7.55	33.4	2310	1.44	0.60	2.63	0.36	45.3	7.4	10	11.40	18.8	3.35
W597067		3.72	0.54	7.59	9.2	2190	1.46	0.99	2.25	0.85	45.7	5.6	13	9.56	13.4	2.82
W597068		2.47	1.25	7.31	48.4	1610	1.39	2.20	2.23	2.17	41.6	6.3	9	16.75	37.9	3.30
W597069		4.68	1.70	7.82	58.0	1480	1.59	7.12	1.20	2.91	48.0	10.3	9	16.70	56.3	3.16
W597070		3.40	1.52	7.52	62.7	2290	1.60	3.62	1.97	9.03	44.7	10.1	9	15.65	28.9	3.61
W597071		3.79	0.12	7.45	19.4	1430	1.95	0.21	2.90	0.27	67.4	7.3	32	29.9	9.7	2.60
W597072		0.26	39.0	5.58	2350	370	1.01	34.5	1.63	42.0	34.3	15.9	21	9.09	1125	8.83
W597073		3.47	0.14	7.01	23.3	2290	1.78	0.16	2.81	0.29	57.7	4.9	24	22.3	7.5	2.22
W597074		3.65	0.64	6.57	64.9	2680	1.72	0.37	2.95	3.47	57.6	5.1	25	27.7	17.5	2.20
W597075		3.68	0.35	7.09	89.4	2070	1.73	0.25	2.63	2.18	64.0	6.5	28	29.9	13.9	2.26
W597076		4.18	0.41	6.98	24.0	1690	1.54	3.19	3.25	0.19	35.2	10.1	83	13.50	51.4	2.95
W597077		3.85	0.55	7.03	19.9	2110	1.42	4.95	2.93	0.11	35.4	10.8	63	10.20	57.3	2.94
W597078		3.90	0.58	7.19	21.3	1700	1.31	3.48	2.94	0.16	35.6	10.8	71	10.10	49.0	3.10
W597079		3.84	0.54	7.22	17.6	2430	1.47	3.96	3.13	0.17	36.1	10.4	78	14.75	55.1	3.11
W597080		3.84	0.74	6.49	27.9	1780	1.30	6.23	3.56	0.13	31.5	9.5	93	13.25	133.5	3.00

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275649

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597041		15.40	0.07	1.4	0.058	2.85	23.2	18.9	0.66	1390	1.70	0.91	8.0	2.1	560	27.6
W597042		16.00	0.07	1.1	0.182	2.91	21.8	26.8	0.83	658	2.14	0.18	7.1	2.3	600	50.5
W597043		15.45	0.07	1.2	0.044	2.79	17.9	52.1	0.74	526	1.18	1.05	7.8	2.2	610	15.6
W597044		16.85	0.07	1.5	0.046	2.78	18.9	41.6	0.72	631	1.86	1.41	8.8	2.4	600	15.3
W597045		14.55	0.08	1.3	0.078	2.93	19.8	16.6	0.68	632	1.23	2.11	7.7	2.0	580	12.5
W597046		11.60	0.10	1.4	1.635	0.46	11.2	20.3	2.56	493	12.35	0.10	3.0	27.2	400	1020
W597047		15.10	0.06	1.2	0.051	2.82	19.1	20.7	0.72	539	1.31	1.49	7.4	2.1	620	14.2
W597048		15.50	0.07	1.3	0.051	2.88	19.8	49.6	0.83	722	2.39	0.73	7.7	1.9	610	19.1
W597049		16.20	0.08	1.3	0.050	3.15	24.6	30.2	0.63	443	1.28	0.22	8.0	2.5	640	11.9
W597050		15.10	0.06	1.2	0.065	2.83	19.0	18.0	0.77	524	1.57	1.62	7.9	2.3	630	12.3
W597051		13.80	0.05	1.1	0.131	2.31	20.6	37.2	0.73	735	1.40	0.06	6.7	1.7	640	11.6
W597052		0.45	<0.05	0.1	0.006	0.03	1.3	1.3	1.64	117	<0.05	0.06	0.2	0.9	70	0.6
W597053		17.60	0.05	1.2	0.119	2.88	23.1	26.4	0.71	842	2.80	0.08	8.1	2.8	630	21.1
W597054		17.55	0.08	1.2	0.094	2.96	20.7	29.9	0.73	1210	2.20	0.08	8.3	2.7	650	21.7
W597055		18.75	0.09	1.6	0.121	4.21	18.9	5.9	0.43	334	5.03	0.06	7.1	2.5	630	27.0
W597056		15.35	0.06	1.4	0.074	3.82	13.6	9.2	0.56	404	12.80	0.06	7.5	1.7	680	31.4
W597057		16.40	<0.05	1.8	0.233	3.67	12.4	9.4	0.61	710	2.48	0.08	6.8	2.8	570	97.8
W597058		13.75	0.06	1.7	0.194	3.62	11.7	7.2	0.59	691	2.53	0.08	6.2	1.9	560	79.6
W597059		16.10	0.09	1.4	0.104	3.23	24.6	12.4	0.88	983	1.98	0.23	6.7	2.4	650	29.7
W597060		16.65	0.07	1.7	0.061	2.81	25.4	19.5	0.69	655	1.42	1.06	7.7	2.2	620	14.3
W597061		16.10	0.09	1.6	0.097	3.64	24.5	21.2	0.68	863	2.51	0.08	6.9	2.0	650	29.4
W597062		17.90	0.12	1.5	0.173	3.63	44.8	20.8	0.64	752	2.45	0.21	7.2	3.0	670	20.7
W597063		15.35	0.07	1.5	0.070	2.93	19.3	13.0	0.62	727	3.37	0.86	6.9	2.6	640	25.1
W597064		14.05	0.06	1.2	0.047	2.71	21.0	13.9	0.78	831	2.79	1.07	6.4	1.9	600	15.3
W597065		15.60	0.08	1.4	0.052	2.73	20.7	16.5	0.81	867	3.16	1.10	7.1	2.1	590	16.7
W597066		16.80	0.08	1.4	0.060	2.77	22.9	20.9	0.68	752	5.45	1.28	7.8	2.2	660	21.6
W597067		16.15	0.07	1.2	0.110	2.82	23.6	16.3	0.58	488	2.13	2.18	8.3	2.7	580	16.6
W597068		15.45	0.08	1.0	0.164	2.78	21.4	34.1	0.60	692	2.06	1.39	7.3	2.4	580	130.5
W597069		16.75	0.07	0.9	0.329	2.44	25.6	19.9	0.31	596	1.61	2.17	7.2	3.1	650	49.5
W597070		16.10	0.07	0.8	0.426	2.50	24.7	16.9	0.36	923	1.93	1.90	6.9	3.2	620	191.5
W597071		20.4	0.10	4.3	0.030	2.87	33.5	36.2	1.04	724	0.58	0.07	11.7	17.8	990	12.3
W597072		12.40	0.09	0.8	1.460	2.58	17.5	14.1	0.65	2190	16.45	0.06	4.2	14.7	430	1600
W597073		16.90	0.10	3.1	0.031	2.22	28.5	50.4	0.87	692	0.74	0.06	9.9	12.0	870	16.1
W597074		16.05	0.12	3.5	0.063	2.75	28.2	18.4	0.98	930	1.33	0.06	9.2	12.3	840	142.5
W597075		16.55	0.13	3.9	0.045	2.75	32.7	22.6	0.98	1060	1.90	0.08	9.6	15.5	930	50.4
W597076		15.40	0.12	1.8	0.190	2.31	17.2	36.7	1.38	803	1.80	1.74	7.3	29.9	680	13.9
W597077		15.10	0.12	1.7	0.199	2.56	17.2	29.9	1.42	750	1.88	2.17	7.4	22.5	690	13.8
W597078		15.45	0.12	1.7	0.193	2.54	17.3	26.3	1.43	837	2.00	1.99	6.9	24.3	690	17.4
W597079		15.05	0.12	1.8	0.219	2.50	17.8	31.6	1.45	811	1.78	2.11	7.5	27.6	680	13.8
W597080		13.65	0.10	1.5	0.235	2.35	14.9	24.0	1.50	913	1.90	1.51	6.6	29.5	640	15.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275649

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597041		85.1	<0.002	0.19	4.92	8.1	<1	1.5	226	0.69	<0.05	13.10	0.235	1.23	4.5	66
W597042		101.5	<0.002	1.72	9.60	8.7	1	2.9	128.5	0.57	0.21	10.25	0.251	1.75	3.8	69
W597043		78.5	<0.002	0.13	3.62	8.4	<1	1.6	252	0.60	<0.05	10.55	0.267	1.18	2.9	71
W597044		83.5	<0.002	0.14	3.61	9.2	<1	1.7	284	0.82	<0.05	12.30	0.258	1.52	5.0	72
W597045		88.2	<0.002	0.22	2.52	7.9	<1	2.3	331	0.69	<0.05	11.15	0.254	1.23	3.8	68
W597046		15.6	0.015	6.72	46.3	4.8	32	17.5	70.6	0.22	0.36	2.53	0.115	5.82	2.4	72
W597047		77.4	<0.002	0.10	3.39	8.4	<1	1.7	297	0.55	<0.05	10.90	0.263	1.15	3.3	71
W597048		79.0	0.002	0.33	6.15	8.6	1	1.8	235	0.63	0.05	11.00	0.260	1.53	3.1	71
W597049		96.8	<0.002	0.48	7.49	8.9	<1	1.8	132.5	0.65	<0.05	13.30	0.270	2.10	4.9	74
W597050		81.6	<0.002	0.22	3.57	8.8	1	2.1	298	0.67	0.05	11.25	0.275	1.15	4.1	76
W597051		66.1	<0.002	0.57	11.45	7.6	1	2.1	165.5	0.53	0.14	11.55	0.261	1.17	2.0	69
W597052		1.0	<0.002	<0.01	0.11	0.5	1	<0.2	86.2	<0.05	<0.05	0.11	0.015	0.02	0.1	3
W597053		102.0	0.003	0.44	10.40	11.2	<1	2.5	129.0	0.62	0.10	10.50	0.275	1.60	4.6	73
W597054		97.5	0.003	0.34	7.09	11.1	<1	2.3	117.0	0.67	0.08	10.30	0.285	1.72	2.9	74
W597055		212	<0.002	0.31	22.9	13.0	<1	2.7	36.2	0.60	0.05	15.00	0.248	1.97	6.4	84
W597056		221	<0.002	0.23	23.6	11.6	<1	2.1	63.2	0.57	<0.05	12.30	0.261	2.56	4.4	68
W597057		230	<0.002	1.67	6.83	11.0	<1	5.4	65.7	0.67	0.10	18.55	0.217	2.43	5.6	71
W597058		188.5	0.002	1.49	6.35	8.3	1	4.5	57.3	0.61	0.08	16.25	0.207	2.17	4.8	68
W597059		130.0	<0.002	0.68	8.09	9.3	1	2.2	150.5	0.55	0.28	11.30	0.255	2.14	3.7	77
W597060		91.7	<0.002	0.27	6.76	9.3	1	1.9	224	0.67	0.06	13.05	0.252	1.32	4.0	74
W597061		155.5	<0.002	0.43	10.65	10.2	<1	2.3	113.5	0.59	0.10	14.30	0.239	1.97	4.3	73
W597062		176.5	<0.002	1.25	5.69	11.7	1	5.2	112.0	0.58	0.98	13.60	0.247	2.12	4.3	81
W597063		89.9	<0.002	0.35	5.39	9.5	1	2.2	187.0	0.56	0.24	10.55	0.248	1.58	3.6	78
W597064		74.9	<0.002	0.49	4.49	8.5	<1	1.9	228	0.53	0.20	10.70	0.252	1.07	3.7	75
W597065		81.9	<0.002	0.36	4.99	8.9	1	2.1	231	0.57	0.14	11.75	0.246	1.27	3.8	72
W597066		92.6	0.002	0.39	4.16	10.3	1	2.7	250	0.58	0.13	11.25	0.284	1.22	3.3	79
W597067		103.0	<0.002	0.09	2.46	9.4	1	1.7	323	0.71	0.07	13.85	0.250	1.10	2.4	69
W597068		110.5	<0.002	0.76	5.04	8.9	1	2.7	221	0.56	0.58	12.10	0.241	1.37	3.6	66
W597069		110.5	<0.002	0.48	7.20	9.4	<1	2.6	215	0.59	1.91	12.55	0.258	1.31	3.4	71
W597070		108.0	<0.002	0.85	5.94	9.0	1	2.9	239	0.52	0.60	11.40	0.251	1.41	3.2	69
W597071		97.5	<0.002	0.05	9.47	5.7	<1	1.6	206	0.77	<0.05	10.95	0.297	1.55	4.4	54
W597072		135.5	0.002	7.50	101.5	7.4	1	9.8	59.9	0.35	0.66	7.88	0.156	1.94	4.8	53
W597073		66.9	<0.002	0.07	7.97	4.9	1	1.4	229	0.75	<0.05	9.59	0.257	1.29	4.4	50
W597074		84.4	0.002	0.22	7.49	5.0	1	1.6	199.5	0.68	0.05	9.33	0.252	1.53	5.4	49
W597075		93.7	<0.002	0.27	8.25	5.5	1	1.4	188.0	0.70	0.09	10.55	0.263	1.56	5.4	51
W597076		55.7	<0.002	0.32	7.99	9.6	<1	0.8	415	0.63	<0.05	7.50	0.245	1.05	3.4	81
W597077		62.1	<0.002	0.45	3.50	9.1	1	0.8	407	0.62	<0.05	7.85	0.249	1.04	3.3	78
W597078		64.8	<0.002	0.49	3.69	9.2	1	0.8	387	0.57	0.06	8.01	0.242	1.01	3.5	80
W597079		65.9	<0.002	0.26	4.71	9.3	1	0.8	500	0.64	<0.05	8.25	0.252	1.06	3.6	81
W597080		52.4	<0.002	0.23	11.10	9.0	1	0.8	431	0.54	0.06	6.84	0.239	1.08	3.6	80

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275649

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597041		1.6	17.0	63	40.2	<0.005
W597042		1.8	14.4	81	33.1	0.026
W597043		1.2	12.2	51	36.4	<0.005
W597044		1.6	14.6	48	41.8	0.006
W597045		1.9	13.4	46	35.7	0.018
W597046		1.9	8.8	7200	44.4	0.274
W597047		1.8	13.7	50	36.3	<0.005
W597048		1.7	13.8	98	35.9	0.011
W597049		5.4	13.9	50	38.0	0.021
W597050		1.7	13.8	44	34.6	0.006
W597051		2.0	12.0	63	31.0	0.016
W597052		0.1	2.5	4	2.7	<0.005
W597053		3.6	15.3	73	34.7	0.033
W597054		4.5	14.2	59	34.9	0.015
W597055		8.2	10.6	191	48.3	0.006
W597056		12.0	10.0	133	42.0	0.020
W597057		6.1	10.7	204	53.5	0.079
W597058		5.4	9.1	193	50.9	0.135
W597059		2.4	12.4	90	42.8	0.009
W597060		2.4	13.1	56	48.7	0.006
W597061		4.9	11.7	103	45.7	0.048
W597062		3.7	13.7	68	42.3	0.074
W597063		2.4	11.0	65	42.8	0.005
W597064		1.5	12.1	74	36.4	0.011
W597065		1.7	12.7	83	41.2	0.006
W597066		2.1	15.2	91	42.1	0.011
W597067		6.4	15.5	80	27.3	0.007
W597068		2.4	13.5	306	26.9	0.074
W597069		2.4	14.6	450	23.6	0.114
W597070		2.2	13.7	884	21.8	0.160
W597071		2.4	12.0	86	179.0	0.005
W597072		6.3	8.9	3200	22.1	1.820
W597073		1.4	11.1	89	119.0	<0.005
W597074		1.3	11.0	291	136.0	0.040
W597075		1.1	12.5	322	162.0	0.005
W597076		1.6	9.2	77	54.5	0.009
W597077		1.6	9.3	73	52.5	0.008
W597078		1.5	8.9	82	52.1	0.008
W597079		1.4	10.3	73	52.8	0.007
W597080		1.4	9.4	80	49.8	0.008

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275649

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19275650

Project: Klaza

P.O. No.: 19-138

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275650

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597081		3.81	0.14	6.64	19.9	1640	2.15	0.24	1.85	0.32	51.0	4.9	31	12.65	5.7	1.95
W597082		5.32	0.05	6.91	10.2	1260	2.01	0.06	1.04	0.05	42.0	1.5	3	13.70	1.2	1.04
W597083		3.78	0.02	6.99	6.5	800	1.87	0.04	1.67	0.04	41.7	1.7	3	15.30	0.9	1.47
W597084		4.11	0.02	6.92	8.4	860	1.90	0.03	1.51	0.04	42.4	1.9	3	18.50	0.6	1.41
W597085		3.21	0.02	6.98	6.4	770	1.81	0.09	1.25	0.05	38.9	1.9	3	15.05	0.7	1.23
W597086		5.01	0.01	0.29	0.6	40	0.13	0.01	34.0	0.03	1.45	0.7	2	0.28	2.3	0.13
W597087		3.62	0.06	7.19	5.2	1060	1.74	0.17	0.61	0.02	41.8	1.5	3	15.70	1.1	1.07
W597088		3.78	0.34	6.86	9.4	1010	2.04	0.63	2.01	0.58	42.8	3.1	11	23.7	5.8	1.78
W597089		4.69	1.83	7.38	53.9	860	2.21	3.85	2.71	3.81	52.4	7.7	17	33.9	78.9	2.79
W597090		3.82	0.12	6.91	12.4	1340	1.92	0.15	3.30	0.35	45.0	6.0	13	24.7	14.9	2.54
W597091		2.69	0.03	7.32	10.6	1480	1.95	0.05	3.56	0.52	53.1	6.7	10	30.9	3.3	2.49
W597092		0.26	39.6	5.72	2380	760	1.11	35.1	1.68	43.8	37.8	16.1	21	9.62	1150	9.04
W597093		3.31	0.41	7.55	27.0	1580	1.84	0.13	2.54	0.59	57.9	3.9	5	24.1	3.4	2.61
W597094		4.58	0.70	6.91	20.2	1500	1.94	0.15	3.50	1.06	45.7	4.2	5	25.3	4.1	2.58
W597095		4.10	0.35	6.94	11.1	1460	1.77	0.03	3.13	0.29	50.1	3.9	5	25.2	8.9	2.43
W597096		4.34	1.10	6.35	19.7	3710	1.67	0.07	4.25	1.75	45.4	4.1	5	26.1	8.0	2.15
W597097		4.05	0.98	7.15	29.7	1360	1.99	0.49	3.34	1.17	46.9	4.5	5	26.8	5.7	2.60
W597098		3.18	0.90	7.39	43.0	1590	1.97	4.36	3.26	1.26	51.1	7.0	23	27.2	9.6	3.29
W597099		<0.02	0.90	6.87	42.2	1650	1.82	4.06	3.20	1.30	43.2	6.7	24	24.9	11.7	3.26
W597100		4.05	0.49	7.04	30.7	2260	1.88	1.12	4.15	0.51	45.4	7.9	21	26.1	37.6	2.91
W597101		3.82	0.35	6.97	26.9	1730	1.87	0.22	3.31	0.38	46.3	7.5	15	27.5	11.8	2.72
W597102		3.94	0.33	6.84	14.9	1340	1.78	0.17	3.39	0.37	47.8	6.2	12	29.8	17.1	2.48
W597103		3.83	0.26	6.88	13.8	1760	1.70	0.10	3.39	0.76	52.7	6.4	10	25.7	5.5	2.46
W597104		3.99	0.48	6.98	18.6	1870	1.81	0.09	3.03	0.69	52.3	6.5	10	27.0	4.4	2.42
W597105		0.11	17.05	3.14	245	90	0.47	9.49	2.13	43.1	20.9	16.5	45	0.89	2090	8.31
W597106		3.96	0.26	6.57	20.8	1220	1.75	0.16	3.62	1.25	56.8	4.2	11	28.3	7.0	2.30
W597107		4.05	0.44	7.10	23.0	1040	1.99	0.11	3.23	0.94	57.1	5.8	11	33.0	13.2	2.34
W597108		4.25	0.15	6.84	12.1	1900	2.22	0.09	3.69	1.02	49.6	7.2	11	31.8	6.3	2.53
W597109		3.75	0.08	6.62	19.7	2050	2.10	0.14	3.31	0.67	47.6	6.9	10	31.5	6.5	2.36
W597110		3.96	0.03	6.71	12.6	1330	2.15	0.16	4.16	0.42	45.6	6.8	14	30.2	8.7	2.69
W597111		2.01	0.68	7.93	66.3	2000	1.93	0.58	2.21	1.76	52.4	6.1	9	22.2	93.6	3.04
W597112		2.27	0.40	7.81	28.4	1780	1.71	0.56	2.39	1.78	49.2	5.0	9	20.4	25.4	2.44
W597113		1.24	0.44	7.48	36.8	1630	1.67	0.55	2.40	1.29	53.8	6.3	8	19.75	33.1	2.41
W597114		6.17	0.29	6.80	22.7	1140	2.20	0.05	3.20	1.84	48.5	5.9	16	29.1	4.8	2.21
W597115		5.90	0.37	6.49	20.5	2190	2.18	0.37	3.60	2.42	49.5	4.8	12	15.20	5.4	2.31
W597116		5.97	0.11	7.26	15.1	2000	2.38	0.21	3.85	1.10	68.6	5.2	13	19.55	3.6	2.55
W597117		6.43	0.19	7.09	20.6	2150	2.17	0.19	2.59	1.39	57.1	5.4	15	27.3	5.5	2.43
W597118		6.38	0.15	6.68	21.7	1030	2.31	0.06	3.15	0.94	46.7	5.7	20	24.5	5.9	2.13
W597119		7.32	0.43	7.42	24.0	1450	2.18	0.14	2.69	0.97	60.6	6.5	22	26.3	25.6	2.13
W597120		8.48	0.15	6.98	19.2	1150	2.06	0.24	2.91	0.40	48.6	5.2	24	27.6	10.8	2.23

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275650

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597081		16.85	0.11	3.5	0.030	1.15	23.8	240	0.43	596	1.96	0.38	19.6	10.4	950	16.0
W597082		17.10	0.09	2.5	0.016	1.26	20.8	283	0.41	363	0.55	0.45	14.4	1.4	340	19.2
W597083		17.20	0.11	2.5	0.019	2.37	20.5	47.3	0.50	470	0.41	0.13	15.4	0.9	330	25.0
W597084		17.55	0.12	2.5	0.021	2.45	20.8	38.8	0.50	403	0.38	0.11	15.8	1.0	320	22.7
W597085		17.70	0.11	2.4	0.019	2.39	18.8	59.4	0.38	375	0.32	0.15	15.8	1.0	310	10.8
W597086		0.93	0.23	0.1	0.007	0.06	1.3	1.9	1.72	122	<0.05	0.09	0.7	0.5	80	1.2
W597087		17.45	0.16	2.4	0.016	2.06	20.6	131.0	0.25	325	1.06	0.29	13.8	1.0	310	9.4
W597088		16.50	0.14	2.8	0.035	2.43	20.5	47.0	0.68	491	4.51	0.11	13.0	3.9	520	35.5
W597089		16.90	0.16	2.8	0.117	2.63	25.2	25.2	1.00	565	1.89	0.10	8.0	7.4	750	119.5
W597090		16.25	0.14	2.4	0.032	2.51	20.6	31.5	1.00	510	0.89	0.08	7.5	4.8	790	16.8
W597091		17.40	0.16	2.3	0.029	2.82	25.0	33.0	0.90	553	0.51	0.07	8.3	4.2	840	14.8
W597092		12.95	0.11	0.8	1.525	2.65	18.9	15.6	0.67	2250	16.65	0.06	4.4	14.2	450	1645
W597093		17.30	0.13	2.1	0.042	3.01	27.7	16.7	0.83	609	1.61	0.08	8.6	1.9	870	29.2
W597094		17.25	0.12	2.0	0.060	2.81	20.5	19.5	0.74	721	1.62	0.11	8.5	2.0	850	41.6
W597095		17.05	0.16	1.9	0.038	2.43	23.7	25.5	0.66	506	1.10	0.73	8.3	1.9	830	21.2
W597096		16.45	0.12	1.9	0.041	2.32	20.6	31.1	0.62	716	1.15	0.10	8.1	1.9	790	92.1
W597097		17.40	0.14	2.1	0.069	2.79	21.3	22.2	0.69	835	2.25	0.11	8.7	2.0	860	82.1
W597098		16.65	0.14	1.8	0.351	3.14	25.7	16.4	1.18	1160	2.51	0.08	8.8	5.0	900	68.8
W597099		15.70	0.11	1.8	0.364	3.01	21.2	14.7	1.13	1170	2.47	0.08	8.4	4.9	870	67.7
W597100		16.65	0.14	3.0	0.043	2.64	20.8	27.6	1.28	744	1.27	0.42	7.0	9.2	840	36.8
W597101		17.10	0.13	2.6	0.032	2.57	20.9	17.9	1.03	690	0.85	0.83	7.6	6.7	800	26.2
W597102		16.85	0.15	2.3	0.032	2.70	22.1	19.7	0.95	625	0.55	0.44	8.0	4.5	800	15.1
W597103		16.10	0.13	2.1	0.033	2.92	25.1	16.1	1.11	727	1.45	0.07	7.7	3.6	800	27.4
W597104		16.70	0.14	2.3	0.029	3.01	24.9	16.0	0.95	945	1.02	0.07	8.6	3.8	820	48.4
W597105		11.00	0.15	1.2	1.745	0.44	10.6	25.6	2.43	476	12.45	0.09	2.7	29.5	380	986
W597106		15.90	0.13	2.3	0.024	2.58	26.3	21.6	0.78	567	1.34	0.30	11.4	2.5	830	67.6
W597107		16.60	0.14	2.3	0.029	2.68	27.7	24.1	0.94	736	1.12	0.28	9.3	5.9	850	49.8
W597108		19.00	0.19	2.4	0.031	2.85	24.1	21.0	1.04	793	0.73	0.08	9.0	4.5	820	24.1
W597109		19.05	0.22	2.4	0.030	2.72	22.4	21.6	0.85	512	0.55	0.08	9.0	4.2	780	18.0
W597110		19.05	0.19	2.8	0.028	2.57	21.4	28.8	0.95	561	0.51	0.23	8.4	5.7	780	15.8
W597111		18.55	0.19	1.3	0.178	3.40	27.7	22.3	0.85	730	0.98	0.34	8.7	2.4	640	23.0
W597112		18.10	0.19	1.4	0.081	3.23	24.8	27.2	0.76	641	2.00	0.17	9.5	2.0	650	31.0
W597113		17.60	0.20	1.5	0.089	3.08	28.0	29.6	0.79	650	2.27	0.19	9.6	2.4	590	24.4
W597114		19.85	0.20	2.1	0.029	2.78	23.7	20.4	0.80	726	0.70	0.08	9.5	8.5	820	43.6
W597115		17.60	0.20	2.4	0.029	2.38	23.8	44.3	0.70	581	1.38	0.49	12.0	3.1	880	47.8
W597116		19.60	0.19	2.7	0.028	2.59	35.4	32.6	0.88	624	1.40	0.25	13.0	3.3	900	24.8
W597117		19.75	0.18	2.6	0.033	2.68	27.9	27.6	0.86	724	1.31	0.10	11.7	6.3	860	62.3
W597118		20.3	0.20	2.7	0.027	2.97	22.1	17.0	0.97	770	0.55	0.07	9.9	12.7	760	19.1
W597119		21.4	0.22	3.0	0.027	2.98	31.3	17.2	0.93	884	0.58	0.07	10.2	14.9	770	50.3
W597120		19.80	0.19	3.0	0.026	2.64	23.8	30.6	0.94	805	0.78	0.08	9.6	14.8	740	26.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275650

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597081		35.5	<0.002	0.05	7.50	4.7	<1	2.1	211	1.43	<0.05	6.92	0.281	0.76	7.2	35
W597082		47.1	<0.002	0.06	1.93	2.5	1	1.5	184.0	1.49	<0.05	7.98	0.133	0.73	3.2	14
W597083		83.8	<0.002	0.09	1.49	2.5	1	1.6	127.0	1.38	<0.05	7.88	0.133	1.10	3.0	14
W597084		91.0	<0.002	0.16	1.65	2.6	1	1.8	136.0	1.42	<0.05	7.89	0.131	1.10	2.7	14
W597085		83.5	<0.002	0.16	1.26	2.4	<1	1.7	105.0	1.49	<0.05	7.91	0.132	1.09	2.3	14
W597086		1.9	<0.002	<0.01	0.13	0.2	1	0.5	79.6	0.06	<0.05	0.40	0.007	0.02	0.3	1
W597087		69.8	<0.002	0.09	1.82	2.4	1	1.8	132.0	1.46	<0.05	7.98	0.134	1.01	2.6	15
W597088		84.1	<0.002	0.07	4.71	5.1	1	1.5	218	1.05	<0.05	7.23	0.209	1.21	3.4	42
W597089		102.0	<0.002	0.55	14.75	7.8	1	2.3	229	0.61	0.13	7.43	0.289	1.29	5.6	73
W597090		66.5	<0.002	0.03	11.05	6.8	1	1.2	238	0.56	<0.05	6.58	0.293	1.20	3.2	70
W597091		86.3	<0.002	0.03	11.35	7.0	1	1.1	226	0.60	<0.05	7.71	0.295	1.33	2.5	69
W597092		140.0	0.003	7.70	103.0	7.8	2	10.4	63.4	0.37	0.68	8.32	0.161	1.98	4.9	55
W597093		102.0	<0.002	0.17	14.45	5.1	<1	1.5	221	0.64	<0.05	8.38	0.294	1.69	4.7	46
W597094		80.8	<0.002	0.11	17.85	4.7	<1	1.3	285	0.63	<0.05	6.81	0.285	1.61	4.8	47
W597095		85.4	<0.002	0.03	11.90	4.6	1	1.1	441	0.61	<0.05	7.38	0.272	1.41	4.5	44
W597096		70.7	<0.002	0.12	18.20	4.3	1	0.9	244	0.62	<0.05	6.91	0.259	1.83	4.7	42
W597097		81.8	<0.002	0.12	17.55	4.7	1	1.2	253	0.66	<0.05	7.19	0.295	1.60	4.4	47
W597098		144.0	<0.002	0.62	11.85	8.1	1	1.5	293	0.65	0.17	8.95	0.273	2.09	4.5	66
W597099		119.5	<0.002	0.65	11.20	7.7	1	1.4	281	0.62	0.20	7.58	0.267	2.02	4.1	66
W597100		71.4	<0.002	0.19	8.99	8.2	1	1.3	460	0.52	<0.05	6.45	0.329	1.49	3.8	85
W597101		76.5	<0.002	0.08	8.53	7.6	<1	1.2	499	0.54	<0.05	6.59	0.297	1.39	3.3	72
W597102		81.0	<0.002	0.03	12.60	6.9	<1	1.2	354	0.57	<0.05	7.02	0.285	1.52	3.4	67
W597103		91.3	<0.002	0.09	8.75	6.7	<1	1.1	232	0.56	<0.05	7.40	0.278	1.63	4.0	66
W597104		87.6	<0.002	0.26	12.70	6.5	<1	1.2	174.0	0.60	<0.05	7.71	0.278	2.36	4.1	65
W597105		16.3	0.015	6.42	43.3	5.6	28	16.9	70.2	0.21	0.32	2.43	0.109	5.99	2.2	69
W597106		71.3	<0.002	0.05	8.91	5.1	1	1.3	350	0.72	<0.05	7.99	0.239	1.48	3.9	47
W597107		82.3	<0.002	0.14	10.75	6.4	<1	1.3	313	0.64	<0.05	8.36	0.270	1.66	3.8	59
W597108		95.8	<0.002	0.09	10.85	7.6	1	1.3	275	0.60	<0.05	7.56	0.293	1.67	3.0	69
W597109		86.7	<0.002	0.06	10.85	7.4	1	1.3	257	0.62	<0.05	7.19	0.288	1.62	3.1	67
W597110		77.7	<0.002	0.02	9.03	7.9	1	1.3	409	0.57	<0.05	7.32	0.302	1.53	3.6	71
W597111		163.0	0.002	0.42	10.20	12.6	1	2.4	170.0	0.75	0.06	14.85	0.271	2.29	6.7	77
W597112		124.5	<0.002	0.25	5.06	11.5	2	2.4	174.5	0.78	0.08	14.10	0.279	2.02	5.2	75
W597113		131.0	0.002	0.34	4.90	11.2	1	3.4	160.0	0.81	0.08	17.55	0.253	2.14	6.1	68
W597114		94.5	<0.002	0.10	5.05	5.9	1	1.4	405	0.66	<0.05	8.25	0.277	1.38	4.2	49
W597115		63.5	<0.002	0.08	5.89	5.5	1	1.6	674	0.75	<0.05	8.28	0.258	1.27	4.6	50
W597116		89.6	<0.002	0.03	6.02	6.5	1	1.6	532	0.82	<0.05	10.55	0.265	1.41	5.0	51
W597117		84.5	<0.002	0.09	7.90	6.2	1	1.6	313	0.77	<0.05	9.05	0.273	1.61	4.3	52
W597118		94.6	<0.002	0.15	5.44	6.0	1	1.5	382	0.71	<0.05	8.28	0.279	1.89	3.7	50
W597119		119.5	<0.002	0.22	7.36	6.7	2	1.7	279	0.73	<0.05	10.55	0.279	2.02	4.5	53
W597120		79.7	<0.002	0.14	8.19	6.2	1	1.6	226	0.70	<0.05	9.06	0.280	1.75	3.6	52

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19275650

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597081		3.0	16.2	123	115.5	<0.005
W597082		1.5	14.3	50	56.3	<0.005
W597083		1.8	16.2	57	63.5	<0.005
W597084		1.7	16.3	52	64.7	<0.005
W597085		1.5	16.1	50	58.0	<0.005
W597086		<0.1	2.5	5	2.5	<0.005
W597087		0.9	13.8	37	53.1	<0.005
W597088		2.2	14.2	85	87.5	<0.005
W597089		2.2	13.6	309	101.5	0.119
W597090		1.5	11.8	78	78.4	<0.005
W597091		1.3	13.1	92	76.9	<0.005
W597092		6.6	9.3	3310	23.3	1.805
W597093		0.9	12.6	105	66.2	<0.005
W597094		1.1	11.1	158	65.2	0.011
W597095		0.9	10.9	97	63.4	<0.005
W597096		1.1	11.2	220	60.7	0.016
W597097		1.0	11.1	179	67.0	0.040
W597098		1.7	13.5	158	62.7	0.021
W597099		1.6	12.4	167	57.5	0.024
W597100		1.0	13.3	97	111.5	0.013
W597101		0.9	12.7	81	93.7	<0.005
W597102		1.0	12.2	89	78.2	<0.005
W597103		1.4	12.9	110	69.5	0.005
W597104		1.4	12.5	135	75.5	<0.005
W597105		1.6	9.6	6940	40.3	0.278
W597106		1.1	11.6	260	80.9	<0.005
W597107		1.4	12.4	171	78.7	<0.005
W597108		1.5	12.5	112	80.9	<0.005
W597109		1.5	12.7	94	80.6	<0.005
W597110		1.0	13.2	101	94.6	<0.005
W597111		2.6	17.1	305	36.5	0.024
W597112		1.9	16.2	220	40.1	0.017
W597113		2.7	17.9	168	42.1	0.018
W597114		1.2	10.7	166	65.4	<0.005
W597115		1.1	11.2	194	85.6	<0.005
W597116		1.2	14.2	124	94.3	<0.005
W597117		1.2	12.7	207	87.4	<0.005
W597118		1.2	11.6	121	90.1	<0.005
W597119		1.6	13.4	137	102.0	0.006
W597120		1.5	11.2	93	105.0	0.006

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19275650

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19279919

Project: Klaza

P.O. No.: 19-139

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279919

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597121		8.22	0.58	7.34	31.6	870	2.16	0.67	2.25	1.24	52.2	5.8	30	26.9	19.9	2.17
W597122		5.12	0.41	7.22	20.2	1920	2.19	0.72	3.01	0.86	58.4	5.6	13	23.9	8.9	2.56
W597123		6.22	0.27	7.43	12.8	1790	2.10	0.18	2.86	0.93	61.4	6.4	22	29.7	7.6	2.45
W597124		6.78	0.56	7.71	30.6	1550	2.01	0.62	2.10	1.34	58.7	7.5	25	26.7	21.7	2.49
W597125		<0.02	0.52	7.55	28.7	1530	1.98	0.60	2.08	1.22	56.3	7.2	25	26.1	20.3	2.45
W597126		4.97	0.25	7.54	12.5	1580	2.07	0.36	2.01	1.17	59.9	6.0	29	31.6	8.6	2.26
W597127		4.45	0.89	7.58	40.5	1570	2.49	1.63	1.97	1.32	70.6	8.5	33	35.0	16.9	2.34
W597128		4.40	1.22	7.35	65.0	1620	2.30	1.62	2.51	4.23	51.9	5.6	12	30.6	57.9	3.29
W597129		5.75	1.43	7.13	107.5	1420	1.81	3.93	2.23	4.14	52.7	7.2	9	25.2	118.5	3.71
W597130		5.31	0.36	7.44	17.5	2320	1.71	1.83	1.99	0.93	48.4	7.2	9	13.05	40.2	3.15
W597131		5.20	0.15	7.54	5.7	2310	1.83	0.55	2.47	0.46	50.1	6.8	10	14.45	7.8	2.91
W597132		0.26	37.6	5.59	2530	80	1.16	34.3	1.68	44.0	34.2	16.7	21	10.15	1165	8.97
W597133		6.87	0.28	7.02	8.7	2240	1.72	0.27	2.55	0.68	42.7	7.4	9	10.80	14.6	2.98
W597134		5.28	0.14	7.23	6.3	2130	1.72	0.20	2.37	0.39	44.1	6.8	9	17.35	4.9	2.96
W597135		5.48	0.25	6.86	12.2	2280	1.53	0.28	2.64	1.10	42.1	6.5	8	17.35	8.4	2.75
W597136		6.70	0.48	7.47	8.9	2200	1.61	0.19	2.58	1.50	47.0	8.0	9	19.90	11.2	3.04
W597137		6.13	0.35	6.66	17.6	2210	1.83	0.98	2.70	1.30	40.9	7.6	9	20.2	12.7	2.97
W597138		5.65	1.78	6.52	17.7	2880	1.69	0.26	3.20	0.58	50.6	8.5	8	23.2	6.7	2.88
W597139		6.47	0.33	7.19	18.5	2190	1.79	0.12	2.74	0.29	45.0	7.3	11	14.60	5.1	2.88
W597140		2.82	0.43	6.80	19.9	1990	1.77	0.17	2.59	0.36	39.3	6.7	9	17.15	7.2	2.77
W597141		5.79	3.52	7.40	269	2200	1.78	0.71	2.62	1.71	44.9	7.8	9	11.95	10.4	2.96
W597142		6.12	0.14	7.51	30.5	2290	2.02	0.49	2.24	0.31	49.5	5.5	8	10.55	22.2	3.16
W597143		5.77	0.65	7.38	58.2	2320	1.59	1.79	1.94	1.36	47.3	6.9	10	13.55	87.4	3.36
W597144		4.64	1.39	7.54	96.3	1140	1.43	1.42	1.99	4.06	50.0	3.7	7	18.55	87.6	3.05
W597145		4.37	0.82	7.39	101.5	1810	1.66	1.10	1.94	2.21	50.9	6.1	8	24.0	25.3	2.90
W597146		5.49	0.72	7.38	40.6	2050	1.63	0.75	2.93	1.62	43.6	6.6	9	17.15	46.9	3.09
W597147		6.25	0.34	7.57	7.9	2450	1.64	0.60	2.77	0.13	46.0	7.0	11	9.16	76.3	3.16
W597148		5.03	<0.01	0.12	0.4	30	0.10	0.02	33.8	0.02	1.14	0.5	1	0.08	2.7	0.13
W597149		6.25	0.26	7.21	13.5	2350	1.57	0.65	2.94	0.31	43.6	6.8	14	9.72	50.3	3.10
W597150		6.23	0.28	7.52	11.4	2690	1.51	0.39	2.76	0.17	48.5	6.6	11	11.40	107.0	2.92
W597151		6.00	0.22	7.26	11.9	2310	1.59	1.82	2.79	0.14	43.0	6.9	12	12.40	95.0	2.82
W597152		6.61	0.42	7.12	25.9	2480	1.58	5.01	2.54	0.12	39.8	6.9	8	17.15	164.0	2.87
W597153		5.56	0.13	7.31	14.6	2340	1.68	1.60	2.69	0.12	42.0	6.6	10	13.05	19.3	2.93
W597154		0.11	16.55	3.34	267	90	0.52	9.76	2.21	43.6	21.6	17.1	46	0.91	2150	8.75
W597155		6.21	0.15	7.65	10.5	2230	1.66	1.95	2.29	0.27	48.5	6.3	9	10.25	26.1	3.15
W597156		5.65	0.27	7.57	24.0	2380	1.57	2.36	2.18	0.49	46.7	7.0	9	9.55	48.2	3.29
W597157		5.33	0.44	7.29	17.9	2130	1.27	1.77	2.14	0.27	38.1	8.8	8	12.05	119.5	2.84
W597158		5.55	0.08	8.56	10.3	2170	1.22	0.23	0.95	0.12	56.3	6.6	9	22.2	8.3	3.09
W597159		4.36	0.33	7.16	22.0	1480	1.21	1.42	2.24	0.43	44.3	6.5	8	17.40	24.2	2.83
W597160		3.13	1.64	6.18	224	290	1.61	1.25	4.99	1.65	41.6	6.8	8	18.50	30.2	4.97

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279919

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597121		19.60	0.15	4.0	0.049	2.81	25.8	22.0	0.83	697	1.40	0.09	9.5	19.3	650	63.6
W597122		19.95	0.23	2.8	0.032	2.73	28.3	53.7	0.49	585	0.99	1.46	13.3	3.4	920	48.4
W597123		21.0	0.21	3.3	0.032	2.79	31.1	38.3	0.85	698	0.93	0.07	11.4	13.3	800	39.6
W597124		20.9	0.19	3.5	0.078	2.60	30.5	49.4	0.78	661	1.48	0.05	10.1	18.5	690	56.2
W597125		19.95	0.21	3.4	0.073	2.56	29.5	51.4	0.76	655	1.53	0.05	9.6	17.9	680	55.0
W597126		20.3	0.19	3.7	0.039	2.86	31.8	40.9	0.76	684	1.15	0.05	9.9	19.1	710	46.3
W597127		21.3	0.20	4.8	0.058	2.98	36.7	31.2	0.74	721	2.25	0.06	11.9	20.3	950	69.9
W597128		18.25	0.19	1.8	0.099	2.96	26.1	66.5	0.95	1320	3.33	0.77	8.9	7.3	670	231
W597129		16.95	0.19	1.2	0.216	3.57	27.8	29.1	0.87	1220	1.80	0.23	7.7	3.3	600	90.0
W597130		17.65	0.19	1.3	0.133	2.90	24.2	29.3	0.58	704	2.86	0.80	8.8	2.9	630	26.0
W597131		17.95	0.23	1.2	0.066	2.72	25.7	22.6	0.72	480	0.89	1.85	8.6	2.7	610	17.2
W597132		13.85	0.15	0.8	1.460	2.58	16.9	16.5	0.66	2250	16.40	0.06	4.8	14.7	430	1640
W597133		16.95	0.20	1.2	0.068	2.68	21.0	24.9	0.84	858	0.94	1.72	8.5	2.5	610	68.6
W597134		16.90	0.20	1.2	0.043	2.53	21.8	23.5	0.74	513	1.57	1.64	8.5	2.5	620	17.0
W597135		16.55	0.21	1.2	0.056	2.81	20.5	28.4	0.67	906	1.18	0.74	8.0	2.4	560	23.6
W597136		18.05	0.21	1.2	0.054	2.66	24.2	18.1	0.58	727	1.23	1.52	8.8	2.7	650	119.5
W597137		17.45	0.20	1.2	0.069	2.60	19.8	25.6	0.64	673	1.49	1.04	8.2	2.9	590	18.0
W597138		15.75	0.21	1.1	0.053	2.39	25.9	58.7	0.88	697	0.97	0.36	7.6	2.8	560	21.0
W597139		17.15	0.21	1.2	0.044	2.65	21.9	22.1	0.71	564	2.86	2.06	8.5	2.7	620	15.9
W597140		16.50	0.20	1.2	0.045	2.57	19.6	41.7	0.60	537	1.29	1.69	8.2	2.4	600	16.1
W597141		17.55	0.22	1.2	0.056	2.70	22.2	17.8	0.70	593	11.30	1.91	8.5	2.7	600	47.0
W597142		16.50	0.22	1.5	0.088	2.87	26.0	22.7	0.78	507	0.65	1.62	9.1	2.5	600	14.3
W597143		16.60	0.19	1.1	0.157	3.15	25.7	28.9	0.63	635	1.06	0.24	7.4	2.8	620	45.2
W597144		15.20	0.10	0.9	0.175	3.33	28.8	18.1	0.79	992	1.93	0.05	6.6	4.1	570	146.0
W597145		15.30	0.11	1.0	0.077	2.75	28.4	24.2	0.72	857	2.16	0.05	7.3	2.8	590	62.7
W597146		14.90	0.11	1.1	0.112	2.97	22.3	17.0	0.79	906	6.25	1.01	7.3	2.6	620	304
W597147		15.60	0.12	1.1	0.086	2.77	24.0	13.8	0.89	553	0.74	2.16	7.7	2.8	630	15.2
W597148		0.42	0.08	0.1	0.006	0.02	1.2	1.0	1.96	135	<0.05	0.06	0.2	0.5	70	0.7
W597149		15.90	0.11	1.1	0.099	2.74	21.3	11.5	0.84	707	0.69	2.02	7.7	2.7	610	23.1
W597150		16.20	0.12	1.1	0.110	2.62	25.5	18.2	0.82	559	0.91	1.72	7.9	2.6	610	16.1
W597151		15.95	0.11	1.1	0.144	2.77	21.8	11.2	0.79	518	4.39	2.16	8.0	2.7	620	15.0
W597152		15.20	0.08	1.0	0.178	3.07	21.1	13.5	0.60	456	6.78	1.52	6.9	2.4	600	16.7
W597153		15.75	0.09	1.1	0.118	2.93	21.3	12.3	0.79	466	0.53	1.72	7.5	2.6	640	15.5
W597154		11.70	0.13	1.2	1.680	0.46	11.9	26.1	2.58	506	12.30	0.10	2.9	30.2	400	1055
W597155		15.00	0.10	1.1	0.130	2.83	25.9	15.9	0.89	479	0.66	1.74	7.4	2.4	630	20.0
W597156		15.05	0.09	1.1	0.144	3.35	24.8	15.6	0.82	496	1.76	1.41	6.9	2.3	620	27.6
W597157		14.25	0.08	1.2	0.153	2.61	19.5	24.2	0.44	631	1.21	0.49	7.0	2.5	610	17.6
W597158		16.90	0.09	1.4	0.056	2.70	30.6	43.3	0.41	648	1.60	0.10	8.5	2.5	720	13.4
W597159		15.70	0.09	1.3	0.093	2.18	22.3	57.5	0.67	906	5.43	0.06	7.8	2.4	610	16.9
W597160		13.30	0.08	1.1	0.111	2.79	23.6	12.8	1.71	3560	2.06	0.03	6.1	2.4	450	173.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279919

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597121		94.6	<0.002	0.26	7.33	6.1	1	1.8	167.0	0.71	<0.05	10.40	0.279	1.78	3.9	53
W597122		94.4	<0.002	0.03	7.88	6.4	1	1.5	738	0.86	<0.05	9.58	0.270	1.43	3.7	55
W597123		99.9	<0.002	0.09	11.05	6.7	1	1.7	346	0.77	<0.05	10.55	0.285	1.63	4.2	54
W597124		114.0	<0.002	0.08	13.90	8.1	1	2.2	343	0.75	<0.05	12.10	0.276	1.64	4.6	60
W597125		109.5	<0.002	0.07	13.55	7.9	1	2.1	336	0.72	0.05	11.50	0.270	1.55	4.4	59
W597126		121.0	<0.002	0.06	11.70	7.0	1	1.8	226	0.73	<0.05	11.75	0.273	1.69	4.4	54
W597127		130.0	<0.002	0.07	15.55	6.6	1	2.5	220	0.81	<0.05	12.50	0.295	2.12	6.1	56
W597128		128.0	<0.002	0.46	15.40	10.6	2	2.7	273	0.65	0.09	11.05	0.265	1.95	4.4	71
W597129		181.0	<0.002	1.50	18.05	10.8	1	3.7	184.5	0.58	0.46	12.25	0.234	2.58	4.6	67
W597130		123.0	<0.002	0.33	10.80	11.2	1	2.2	195.0	0.67	0.08	12.45	0.266	1.61	3.3	72
W597131		111.0	<0.002	0.12	3.01	11.3	1	1.8	330	0.65	<0.05	12.65	0.263	1.23	3.1	72
W597132		146.0	0.002	7.77	103.5	8.1	2	10.2	61.6	0.37	0.74	8.65	0.161	2.17	5.1	55
W597133		104.0	<0.002	0.10	2.85	11.3	1	1.8	307	0.63	<0.05	10.80	0.260	1.17	2.0	71
W597134		101.0	<0.002	0.08	3.36	11.2	1	1.7	310	0.63	<0.05	11.15	0.272	1.17	2.0	74
W597135		105.0	<0.002	0.18	8.45	10.2	1	1.7	191.0	0.61	<0.05	10.75	0.245	1.41	2.5	66
W597136		107.0	<0.002	0.07	5.26	11.9	1	1.8	293	0.62	<0.05	12.35	0.277	1.20	2.7	76
W597137		101.0	<0.002	0.28	9.95	10.4	1	2.0	213	0.59	0.15	11.10	0.246	1.37	2.7	69
W597138		96.5	<0.002	0.18	14.15	10.1	1	1.6	186.0	0.61	<0.05	12.25	0.231	1.25	5.7	66
W597139		100.5	<0.002	0.04	7.95	10.9	1	1.6	369	0.61	<0.05	11.95	0.264	1.05	2.8	72
W597140		92.4	<0.002	0.05	9.58	10.4	1	1.8	318	0.62	<0.05	11.45	0.254	1.17	2.7	70
W597141		109.5	<0.002	0.17	18.35	11.1	1	1.9	339	0.66	0.07	12.35	0.262	1.24	3.3	71
W597142		123.0	0.002	0.18	2.82	10.9	1	1.8	284	0.83	0.06	13.75	0.260	1.49	3.2	70
W597143		145.0	0.002	1.11	20.4	10.3	1	2.2	131.0	0.55	0.30	11.60	0.244	2.13	3.9	68
W597144		184.0	<0.002	0.88	18.85	9.5	1	2.1	93.4	0.49	0.16	12.55	0.239	2.60	3.3	68
W597145		146.0	<0.002	0.87	12.05	10.3	1	1.8	92.4	0.53	0.06	12.30	0.246	2.44	2.8	68
W597146		111.0	<0.002	0.79	12.75	9.7	1	1.8	246	0.56	0.13	10.75	0.266	1.64	4.5	74
W597147		97.1	<0.002	0.28	2.31	10.1	1	1.8	379	0.60	0.17	12.20	0.276	1.16	3.7	74
W597148		0.7	<0.002	<0.01	0.10	0.3	1	<0.2	76.5	<0.05	<0.05	0.11	0.008	<0.02	0.1	3
W597149		91.1	<0.002	0.25	2.76	9.6	1	1.8	371	0.58	0.20	11.40	0.265	1.20	3.4	73
W597150		102.0	<0.002	0.16	5.67	10.4	1	1.8	337	0.58	0.08	12.65	0.260	1.22	3.4	72
W597151		97.8	<0.002	0.27	3.02	9.9	<1	2.0	377	0.62	0.12	10.60	0.265	1.28	3.2	72
W597152		100.5	<0.002	0.70	7.40	9.1	1	2.7	288	0.53	0.92	10.35	0.254	1.46	3.2	71
W597153		95.4	<0.002	0.33	3.01	10.1	1	2.2	314	0.55	0.12	10.60	0.272	1.45	3.2	74
W597154		16.9	0.014	6.85	41.6	5.9	32	16.8	71.1	0.21	0.30	2.59	0.116	5.94	2.4	73
W597155		105.5	<0.002	0.27	2.23	10.2	1	2.2	298	0.55	0.12	13.50	0.271	1.29	2.6	73
W597156		110.0	<0.002	0.53	3.22	9.7	<1	2.6	260	0.50	0.10	12.25	0.266	1.48	2.7	74
W597157		81.0	<0.002	0.28	13.35	8.5	1	2.0	116.5	0.57	0.05	10.30	0.259	1.16	5.0	68
W597158		109.5	<0.002	0.08	19.55	11.5	1	1.7	90.1	0.65	<0.05	14.05	0.298	1.19	3.3	80
W597159		67.5	0.002	0.26	25.5	9.6	1	1.8	130.0	0.61	0.14	10.70	0.257	1.28	3.5	70
W597160		164.5	<0.002	2.73	15.35	8.0	1	2.5	99.8	0.48	0.14	10.35	0.191	2.69	6.6	55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279919

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
W597121		1.3	12.8	138	149.0	0.069
W597122		1.4	13.4	162	97.2	<0.005
W597123		1.8	13.6	156	120.0	<0.005
W597124		2.1	15.4	176	133.0	0.014
W597125		2.0	14.9	172	127.0	0.014
W597126		2.0	13.4	168	141.0	<0.005
W597127		2.2	13.0	182	188.0	0.007
W597128		2.8	16.8	287	58.1	0.048
W597129		3.3	15.1	322	35.6	0.220
W597130		2.2	17.8	108	36.2	0.021
W597131		0.9	16.8	61	31.3	0.007
W597132		6.5	8.7	3310	23.4	1.805
W597133		0.9	17.1	103	33.3	0.007
W597134		0.9	16.0	64	31.0	<0.005
W597135		2.4	15.7	117	31.4	0.009
W597136		1.4	16.9	133	33.7	<0.005
W597137		1.0	14.6	117	33.5	0.009
W597138		1.4	16.9	93	29.7	0.008
W597139		0.7	16.8	60	32.6	<0.005
W597140		0.8	14.8	66	31.3	<0.005
W597141		1.3	17.3	165	32.7	0.026
W597142		0.9	18.7	134	39.0	0.008
W597143		2.0	15.0	293	31.4	0.035
W597144		2.8	13.6	537	27.1	0.049
W597145		4.7	14.3	501	29.1	0.152
W597146		1.4	13.9	167	32.5	0.025
W597147		1.1	16.2	41	32.9	0.025
W597148		0.1	2.2	4	1.6	<0.005
W597149		0.8	15.6	54	31.9	0.010
W597150		1.1	16.6	41	34.7	0.010
W597151		1.1	14.9	35	32.8	0.018
W597152		1.3	13.4	36	30.9	0.038
W597153		1.4	14.3	45	32.1	0.008
W597154		1.6	9.8	7350	40.8	0.288
W597155		0.9	15.1	60	33.3	0.007
W597156		1.0	15.0	85	31.9	0.020
W597157		3.5	13.4	61	35.1	0.073
W597158		8.0	16.8	48	41.2	<0.005
W597159		7.1	14.1	73	38.0	0.064
W597160		6.4	12.8	176	29.3	0.415

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279919

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE WH19279929

Project: Klaza

P.O. No.: 19-140

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279929

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597161		5.11	0.29	7.33	22.9	1880	1.34	1.58	2.09	0.22	44.1	6.8	8	23.0	19.4	3.10
W597162		4.98	0.09	7.15	5.3	2270	1.65	0.23	2.70	0.10	36.8	6.1	9	9.52	10.0	2.94
W597163		6.11	0.25	7.24	17.8	2230	1.63	1.31	2.68	0.16	44.5	7.8	9	11.30	34.3	3.11
W597164		6.07	0.12	8.02	6.3	2280	1.67	0.25	2.60	0.14	49.5	6.7	9	13.95	11.2	3.13
W597165		4.17	0.12	7.38	7.7	2400	1.69	1.10	2.58	0.11	43.3	7.3	9	9.88	18.4	2.93
W597166		2.15	0.10	7.53	8.6	2580	1.59	0.67	2.51	0.11	41.4	7.2	10	9.09	15.3	3.08
W597167		5.75	0.10	7.35	7.2	2500	1.73	0.67	2.35	0.75	47.9	6.7	9	11.60	17.2	2.94
W597168		4.98	0.07	7.62	6.9	2350	1.66	0.21	2.80	0.10	41.6	6.6	10	8.06	6.9	3.18
W597169		5.52	0.23	8.29	15.0	2360	1.45	1.41	1.39	0.11	53.5	7.2	8	11.05	16.4	3.13
W597170		6.55	0.21	7.71	11.3	2150	1.79	0.48	2.63	0.15	47.2	6.8	10	13.65	11.9	3.23
W597171		5.97	0.12	8.00	8.1	2210	1.81	0.46	2.45	0.19	52.3	6.6	10	10.95	7.8	3.16
W597172		5.64	0.10	7.32	20.7	1010	1.94	0.09	2.61	0.17	51.2	4.1	4	24.3	3.3	2.65
W597173		5.00	<0.01	0.07	0.3	30	0.05	0.01	34.4	<0.02	1.11	0.5	<1	0.08	1.0	0.13
W597174		5.61	0.48	7.71	22.7	1420	2.13	0.07	2.46	0.88	62.2	4.3	4	26.6	11.6	2.87
W597175		5.20	0.67	7.60	33.6	1040	1.98	0.11	2.46	1.54	53.7	4.2	4	23.7	5.8	2.82
W597176		5.97	0.71	7.73	44.8	1040	2.14	0.13	2.47	2.17	60.5	4.4	4	28.0	8.3	2.91
W597177		3.34	0.34	7.17	26.9	2190	1.84	0.07	2.71	0.98	52.1	3.6	4	26.9	2.1	2.60
W597178		0.11	17.85	3.44	276	80	0.61	10.50	2.26	46.7	23.7	18.3	48	1.01	2220	9.00
W597179		5.54	0.21	8.34	14.5	2570	1.72	1.01	1.75	0.23	47.7	4.7	8	11.70	22.7	2.40
W597180		7.91	1.06	7.27	75.2	1360	1.56	5.62	1.64	0.16	55.8	5.6	7	18.30	224	3.09
W597181		8.28	0.59	7.29	56.8	1710	1.63	1.68	2.22	0.15	46.5	6.4	8	25.8	93.1	3.37
W597182		8.45	0.23	6.32	21.4	1740	1.64	1.14	3.22	0.08	48.6	7.3	8	19.15	30.0	2.38
W597183		6.94	0.14	6.83	10.9	2010	1.49	0.94	3.23	0.07	42.2	6.4	8	9.83	14.5	2.95
W597184		5.48	0.47	7.23	30.2	2080	1.79	1.36	2.75	0.16	50.3	7.8	9	11.40	34.8	3.10
W597185		5.77	0.17	7.25	15.3	2260	1.75	0.88	2.46	0.12	49.1	7.4	11	11.85	35.0	2.89
W597186		<0.02	0.17	7.44	13.2	2330	1.63	0.80	2.53	0.09	46.7	6.4	10	9.82	31.2	3.01
W597187		6.14	0.12	7.24	15.3	2220	1.85	0.52	2.53	0.08	46.7	8.1	11	9.69	16.7	2.90
W597188		5.93	0.17	7.36	23.7	2250	1.77	0.95	2.62	0.09	50.6	7.2	10	11.60	25.5	3.17
W597189		4.34	0.21	7.75	27.9	2020	1.49	0.70	1.41	0.10	60.7	8.7	10	14.70	29.9	3.15
W597190		3.63	1.06	7.49	848	1940	1.67	0.43	1.81	4.12	51.5	6.3	9	13.50	20.0	2.98
W597191		5.41	0.27	7.33	33.3	2140	1.56	1.21	2.78	0.12	43.4	8.0	11	12.15	34.2	3.39
W597192		3.81	0.12	7.39	16.5	2560	1.46	0.37	2.84	0.11	42.9	6.9	20	11.20	11.6	3.21
W597193		2.31	3.01	7.48	124.5	370	1.79	3.18	1.49	6.98	56.3	7.1	9	17.65	96.2	5.37
W597194		0.26	40.0	5.74	2570	470	1.16	33.0	1.71	41.8	36.4	16.4	22	10.50	1160	9.05
W597195		3.89	0.32	7.52	28.0	2210	1.72	1.42	2.76	0.15	55.5	7.2	10	9.21	30.4	3.28
W597196		4.00	0.74	7.00	62.9	2230	1.65	2.73	2.77	0.51	44.7	7.9	11	16.90	16.6	3.35
W597197		6.27	0.21	6.99	16.6	2020	1.65	0.76	2.70	0.32	42.4	6.8	9	13.45	7.4	2.93
W597198		5.98	0.13	7.74	15.1	2080	1.63	0.69	1.84	0.10	51.2	6.6	10	16.15	11.8	3.18
W597199		6.69	0.20	7.42	9.9	2130	1.73	0.33	2.41	0.33	48.4	7.6	10	19.35	10.2	2.91
W597200		5.97	0.20	7.40	21.1	1770	1.57	0.39	1.37	0.53	53.6	7.3	11	20.1	14.0	2.68

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279929

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597161		15.60	0.09	1.3	0.131	2.72	22.4	45.0	0.57	721	1.45	0.22	8.1	2.3	610	23.3
W597162		14.45	0.09	1.1	0.055	2.77	18.5	14.8	0.78	564	1.38	2.24	7.5	2.4	600	15.0
W597163		15.25	0.10	1.2	0.153	2.74	23.0	17.2	0.81	546	1.37	2.05	7.6	2.5	620	17.6
W597164		15.35	0.10	1.1	0.060	2.78	27.5	19.3	0.82	540	1.33	2.01	7.6	2.6	650	15.4
W597165		15.75	0.11	1.1	0.097	2.88	22.1	15.3	0.75	484	7.28	2.10	7.7	2.5	620	15.5
W597166		15.65	0.10	1.0	0.098	3.03	21.6	14.6	0.77	485	2.52	2.18	7.5	2.6	620	15.6
W597167		15.80	0.13	1.1	0.088	2.78	25.7	17.6	0.74	433	4.84	1.97	7.8	2.6	610	24.7
W597168		14.95	0.11	1.1	0.048	2.73	21.1	13.9	0.86	542	1.32	2.29	7.0	2.6	640	13.8
W597169		16.80	0.10	1.1	0.095	2.91	29.3	38.0	0.54	596	0.47	0.16	8.0	2.7	680	14.5
W597170		15.80	0.12	1.1	0.056	2.72	24.4	13.6	0.72	557	0.46	2.13	7.9	2.7	650	21.9
W597171		16.35	0.11	1.1	0.074	2.87	28.8	21.8	0.79	476	0.46	1.92	7.8	2.5	630	17.1
W597172		16.15	0.10	1.7	0.025	2.65	26.0	43.8	0.71	866	1.40	0.06	7.6	1.7	840	12.9
W597173		0.27	0.10	<0.1	<0.005	0.02	1.2	1.1	1.86	128	0.05	0.03	0.1	0.4	50	<0.5
W597174		17.80	0.16	2.0	0.041	2.71	32.7	39.5	0.85	973	1.13	0.06	8.6	1.8	870	76.5
W597175		16.30	0.13	1.8	0.040	2.74	27.9	34.6	0.77	1050	1.01	0.06	7.6	1.6	880	105.0
W597176		18.65	0.13	2.1	0.044	2.82	31.8	37.5	0.85	1080	1.23	0.06	8.9	2.0	890	99.7
W597177		16.00	0.12	1.8	0.030	2.88	26.7	29.3	0.85	965	1.25	0.06	7.9	1.6	840	56.1
W597178		12.60	0.13	1.3	1.840	0.47	13.0	29.8	2.65	519	13.50	0.10	3.1	33.6	420	1085
W597179		17.40	0.11	1.6	0.190	3.50	25.2	35.5	0.39	428	1.24	0.10	8.7	1.7	660	17.9
W597180		14.95	0.08	1.4	0.490	3.23	29.5	26.2	0.53	446	1.01	0.09	6.6	2.5	550	24.4
W597181		15.30	0.07	1.0	0.141	2.89	23.2	21.4	0.57	431	3.07	0.69	7.3	2.0	620	28.0
W597182		14.65	0.08	1.0	0.173	2.69	22.9	22.3	0.56	526	1.43	0.58	6.7	1.9	570	12.6
W597183		14.25	0.08	1.0	0.121	2.80	20.9	17.0	0.76	537	4.61	1.10	7.1	2.2	580	14.4
W597184		15.95	0.07	1.1	0.122	2.90	24.7	15.7	0.75	610	4.03	1.78	7.9	2.5	590	39.7
W597185		15.60	0.08	1.1	0.154	2.99	24.8	13.7	0.73	448	2.33	2.08	7.8	2.4	570	16.0
W597186		13.90	0.06	1.0	0.135	3.00	23.2	12.6	0.75	456	2.06	2.13	6.8	2.1	580	13.9
W597187		15.35	0.07	1.0	0.091	2.86	23.0	12.9	0.73	461	1.61	2.03	7.5	2.6	570	14.9
W597188		16.10	0.08	1.0	0.195	3.04	26.8	17.1	0.75	430	1.70	1.77	7.6	2.5	590	15.8
W597189		16.45	0.07	0.9	0.146	3.16	32.5	19.8	0.58	547	3.41	0.70	7.5	2.7	610	20.7
W597190		17.00	0.07	1.0	0.177	3.06	26.8	18.8	0.58	531	2.10	1.19	8.3	2.4	570	418
W597191		16.30	0.08	0.7	0.184	2.88	22.3	18.4	0.81	503	1.50	1.78	7.4	2.8	610	18.2
W597192		15.75	0.07	0.7	0.181	2.89	21.0	12.7	0.82	526	3.75	2.11	7.2	3.0	630	18.3
W597193		17.20	0.09	0.8	0.225	3.34	29.5	28.4	0.76	1090	1.71	0.25	7.2	2.9	600	315
W597194		12.85	0.08	0.7	1.500	2.63	18.5	16.3	0.68	2280	15.95	0.06	4.2	14.6	440	1650
W597195		15.25	0.07	0.9	0.148	2.85	29.8	13.9	0.80	522	1.30	1.77	7.3	2.5	600	24.8
W597196		16.40	0.09	1.0	0.127	2.75	21.1	23.4	0.74	627	1.32	1.18	8.1	2.7	630	86.7
W597197		15.35	0.06	1.0	0.105	2.71	20.8	22.6	0.63	567	1.24	1.18	7.4	2.3	600	30.1
W597198		15.80	0.08	0.9	0.124	2.62	25.6	30.4	0.58	709	1.84	0.15	7.7	2.3	680	12.8
W597199		15.75	0.08	1.1	0.058	2.81	25.4	21.3	0.68	491	1.39	1.55	8.0	2.7	610	42.0
W597200		16.00	0.08	1.1	0.063	2.33	27.6	40.5	0.53	595	1.12	0.18	8.0	2.4	600	23.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279929

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597161		93.2	<0.002	0.49	18.15	9.7	<1	2.2	120.0	0.74	0.08	12.85	0.256	1.43	4.0	71
W597162		78.5	<0.002	0.03	1.20	8.5	<1	1.5	380	0.63	<0.05	9.62	0.261	1.00	2.8	70
W597163		98.6	<0.002	0.30	1.61	10.0	1	2.0	347	0.58	0.06	11.80	0.263	1.22	3.3	73
W597164		97.8	<0.002	0.02	2.40	10.3	1	1.5	364	0.58	<0.05	12.55	0.280	1.02	3.1	77
W597165		96.9	<0.002	0.13	1.98	9.8	1	1.8	360	0.58	<0.05	10.35	0.267	1.22	3.0	73
W597166		97.5	<0.002	0.20	1.96	9.6	1	1.8	370	0.57	0.05	10.50	0.271	1.23	2.9	73
W597167		103.0	<0.002	0.16	1.60	10.3	1	1.7	341	0.58	<0.05	12.55	0.262	1.25	3.4	71
W597168		88.9	<0.002	0.06	1.18	9.8	<1	1.4	400	0.49	<0.05	10.00	0.282	0.99	2.8	76
W597169		109.5	<0.002	0.16	6.31	10.8	1	1.9	93.9	0.60	<0.05	13.90	0.289	1.27	2.8	74
W597170		103.0	<0.002	0.05	3.02	11.0	1	1.7	349	0.58	<0.05	11.45	0.287	1.18	3.0	78
W597171		109.5	<0.002	0.06	2.79	10.6	1	1.7	336	0.60	<0.05	14.60	0.275	1.27	3.3	74
W597172		86.9	<0.002	0.05	11.60	4.5	1	1.1	149.0	0.53	<0.05	7.64	0.292	1.41	5.3	46
W597173		0.6	<0.002	<0.01	0.07	0.2	2	<0.2	74.6	<0.05	<0.05	0.10	0.005	<0.02	0.1	1
W597174		105.0	<0.002	0.08	14.05	5.0	1	1.2	149.0	0.60	<0.05	9.02	0.298	1.47	6.5	47
W597175		94.7	<0.002	0.13	9.37	4.5	<1	0.9	113.5	0.52	<0.05	7.77	0.294	1.30	4.5	47
W597176		106.5	<0.002	0.16	9.41	5.3	1	1.3	131.5	0.62	<0.05	9.04	0.303	1.51	5.1	49
W597177		98.7	<0.002	0.14	6.93	4.7	1	1.0	217	0.53	<0.05	7.64	0.276	1.44	3.2	46
W597178		18.0	0.017	7.00	45.7	6.3	33	18.3	76.5	0.23	0.36	2.79	0.119	6.48	2.5	75
W597179		150.0	<0.002	0.35	8.87	11.1	1	2.4	96.3	0.68	0.06	15.35	0.277	2.02	4.2	74
W597180		165.0	<0.002	1.33	12.15	9.4	<1	4.7	85.4	0.62	0.19	15.55	0.222	1.97	3.7	63
W597181		122.5	<0.002	1.21	5.47	10.3	1	3.6	175.5	0.61	0.16	12.80	0.249	1.52	5.4	70
W597182		98.6	<0.002	0.36	7.68	9.3	<1	2.1	166.5	0.56	0.13	12.05	0.233	1.75	6.4	67
W597183		95.5	<0.002	0.23	3.62	9.3	<1	2.1	250	0.63	0.06	11.65	0.241	1.40	4.4	67
W597184		124.5	<0.002	0.43	3.30	10.7	<1	2.3	323	0.65	0.10	13.40	0.256	1.55	4.2	69
W597185		118.0	<0.002	0.35	2.90	10.3	1	2.2	347	0.69	0.08	13.95	0.242	1.47	4.4	67
W597186		99.1	<0.002	0.34	2.45	9.1	1	1.9	357	0.60	0.05	12.50	0.259	1.29	3.9	70
W597187		107.0	<0.002	0.22	2.51	10.2	1	1.9	346	0.67	0.06	14.45	0.249	1.23	4.1	68
W597188		125.0	<0.002	0.43	3.68	10.7	<1	2.8	314	0.65	0.07	14.85	0.252	1.62	4.1	69
W597189		144.5	<0.002	0.52	8.87	11.4	<1	3.4	150.0	0.51	0.06	18.60	0.262	1.63	5.2	73
W597190		134.5	<0.002	0.63	19.70	10.7	<1	2.1	202	0.65	<0.05	18.30	0.248	1.53	3.6	66
W597191		116.0	<0.002	0.48	10.00	11.4	<1	2.9	343	0.48	0.10	14.80	0.254	1.62	2.8	71
W597192		97.4	<0.002	0.19	1.91	11.3	1	2.0	405	0.42	<0.05	12.30	0.272	1.48	1.9	74
W597193		198.0	<0.002	2.41	15.80	12.3	<1	7.2	92.6	0.46	0.12	13.20	0.242	2.63	3.5	69
W597194		155.0	0.002	7.84	97.8	7.9	1	9.7	64.7	0.33	0.74	8.82	0.162	2.12	5.1	56
W597195		108.0	<0.002	0.53	2.81	10.4	1	2.5	333	0.57	0.07	14.95	0.257	1.30	4.1	71
W597196		103.0	<0.002	0.62	7.64	11.4	1	2.6	249	0.66	0.13	11.80	0.270	1.47	3.6	75
W597197		88.3	<0.002	0.44	4.17	9.8	1	1.9	249	0.70	0.08	11.70	0.255	1.26	3.7	70
W597198		102.5	<0.002	0.24	9.15	12.0	<1	2.0	93.4	0.64	0.07	11.75	0.282	1.25	4.0	81
W597199		112.0	<0.002	0.08	4.63	11.2	1	1.7	290	0.67	<0.05	14.90	0.264	1.15	4.1	72
W597200		101.0	<0.002	0.20	14.45	11.5	1	1.8	91.9	0.71	<0.05	14.80	0.252	1.20	3.7	67

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279929

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597161		5.1	15.3	55	35.0	0.016
W597162		0.7	14.2	41	32.7	<0.005
W597163		1.0	15.1	47	34.4	0.026
W597164		1.2	16.6	46	35.3	<0.005
W597165		0.9	15.2	37	31.9	0.006
W597166		1.1	14.9	37	30.0	0.008
W597167		2.8	16.7	79	32.2	0.007
W597168		0.6	15.1	39	32.3	<0.005
W597169		11.4	17.3	40	33.2	0.008
W597170		1.8	17.0	42	31.5	<0.005
W597171		2.1	17.1	42	33.4	<0.005
W597172		1.6	12.0	100	58.9	<0.005
W597173		0.1	2.0	4	1.4	<0.005
W597174		1.6	12.8	161	65.0	0.023
W597175		1.3	11.3	261	59.0	0.026
W597176		1.5	13.3	273	69.0	0.028
W597177		1.2	11.5	165	58.8	0.011
W597178		1.8	10.6	7470	43.2	0.283
W597179		4.0	16.0	63	45.4	0.035
W597180		3.2	14.8	45	39.3	0.124
W597181		4.8	14.4	40	30.0	0.082
W597182		2.5	15.7	31	29.8	0.010
W597183		4.6	16.5	41	30.0	0.018
W597184		1.5	17.5	42	32.8	0.046
W597185		1.6	17.1	37	29.7	0.016
W597186		1.8	15.7	37	26.3	0.071
W597187		2.5	16.4	36	27.1	0.007
W597188		2.0	17.2	37	26.3	0.014
W597189		2.7	17.3	44	24.9	0.057
W597190		4.1	16.4	354	26.3	0.007
W597191		1.9	16.2	43	21.1	0.088
W597192		1.3	16.0	44	20.1	0.005
W597193		3.6	13.4	596	19.9	0.040
W597194		6.4	9.6	3330	22.6	1.695
W597195		1.2	17.2	45	23.1	0.011
W597196		3.3	17.2	82	25.3	0.039
W597197		3.3	15.7	64	25.6	0.005
W597198		4.1	19.0	48	25.3	0.009
W597199		2.8	17.6	62	29.5	<0.005
W597200		8.0	17.1	83	28.3	0.018

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279929

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19279933

Project: Klaza

P.O. No.: 19-141

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279933

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597201		4.21	1.56	7.52	95.3	900	1.42	15.75	2.41	0.34	47.8	11.2	16	15.25	129.0	3.87
W597202		6.02	0.11	8.21	22.3	2240	1.69	0.37	2.08	0.10	52.2	8.8	13	14.05	13.4	3.43
W597203		2.23	0.76	8.01	82.9	480	1.68	8.86	1.00	0.13	55.4	9.3	13	12.90	55.2	4.93
W597204		5.08	0.01	0.10	<0.2	20	0.06	0.05	33.3	<0.02	1.47	0.6	4	0.09	2.5	0.14
W597205		6.11	2.52	7.41	1315	500	1.56	1.42	2.38	7.98	53.7	7.9	12	15.05	71.5	4.10
W597206		5.45	0.66	6.97	44.6	2040	1.53	0.90	2.98	0.77	40.7	8.7	13	16.15	26.0	3.01
W597207		5.66	0.22	7.70	178.0	2250	1.51	1.27	2.47	0.13	53.5	8.9	12	11.10	18.4	3.21
W597208		7.01	6.61	7.95	523	640	1.61	7.53	1.56	1.08	53.1	8.9	11	12.75	241	4.06
W597209		5.97	0.24	7.88	27.4	1640	1.55	3.52	1.60	0.10	50.7	8.2	10	17.75	29.6	2.84
W597210		<0.02	0.27	8.07	28.2	1720	1.54	4.31	1.66	0.11	55.0	8.2	11	18.60	32.2	2.94
W597211		6.65	0.78	7.34	41.6	1930	1.70	2.09	3.08	0.53	44.5	8.8	13	13.45	62.4	3.32
W597212		5.75	0.68	7.41	457	2130	1.60	1.13	2.80	1.00	50.1	9.6	13	8.74	46.0	3.52
W597213		6.09	0.20	7.39	292	2260	1.67	0.40	2.87	0.52	44.6	9.5	14	10.35	11.3	3.24
W597214		6.10	0.08	7.44	15.1	2410	1.56	0.29	2.74	0.09	49.7	8.5	14	8.42	12.2	3.01
W597215		5.65	0.17	7.60	32.9	2100	1.71	0.59	2.80	0.74	53.8	8.0	12	11.15	14.7	2.88
W597216		4.08	0.16	7.43	10.3	2390	1.67	0.68	3.06	0.10	39.6	8.9	15	9.35	14.6	3.31
W597217		4.26	0.30	7.48	20.1	2210	1.54	1.27	2.71	0.21	48.7	8.4	11	10.80	39.2	3.25
W597218		0.26	41.0	5.80	2570	210	1.15	37.1	1.72	46.1	34.4	18.7	23	10.20	1200	9.17
W597219		6.54	0.37	7.88	23.4	2680	1.83	1.15	2.63	2.57	46.6	12.2	11	13.60	25.5	3.18
W597220		5.61	0.59	7.44	88.4	3930	2.43	1.44	2.83	0.66	42.5	9.4	10	29.9	30.4	2.61
W597221		6.12	0.36	6.61	76.2	4130	1.91	0.33	4.40	2.57	59.0	10.7	22	20.4	86.9	2.91
W597222		6.08	0.02	7.17	29.3	1320	2.07	0.13	2.98	0.90	60.5	6.4	20	14.70	6.2	2.30
W597223		5.83	0.03	7.07	30.7	1840	2.21	0.12	3.09	0.45	61.1	7.0	21	14.75	8.0	2.38
W597224		3.09	0.03	6.88	32.0	1700	2.16	0.11	3.01	0.38	58.6	6.8	20	15.20	7.9	2.32
W597225		6.07	0.02	6.79	29.2	1160	2.29	0.10	2.68	0.72	61.3	6.9	19	15.60	11.0	2.21
W597226		5.78	0.29	6.94	36.4	1260	2.27	0.14	2.66	2.31	62.9	7.8	20	14.75	33.0	2.16
W597227		5.88	0.09	6.65	30.8	1640	2.15	0.12	2.71	1.42	59.7	7.6	19	14.30	15.6	2.23
W597228		6.46	0.03	7.00	27.9	1110	2.29	0.12	2.63	0.55	66.5	7.1	20	14.20	6.0	2.42
W597229		6.81	0.19	7.00	42.2	1990	2.09	0.12	2.74	1.13	64.5	7.0	19	13.20	24.4	2.44
W597230		4.33	0.06	6.92	32.1	1410	2.21	0.10	2.71	0.38	59.7	6.3	19	13.20	12.9	2.33
W597231		4.06	0.03	7.44	38.9	1220	2.49	0.11	2.59	0.64	66.5	7.0	19	13.95	12.5	2.64
W597232		0.11	18.05	3.48	277	120	0.55	10.25	2.31	51.3	23.2	17.3	45	0.98	2280	9.14
W597233		5.49	0.16	8.00	17.5	2450	1.95	3.79	2.51	0.18	62.9	13.4	11	8.35	22.9	3.35
W597234		7.06	0.17	7.97	18.5	2310	1.81	2.85	2.47	0.15	54.2	6.0	11	6.08	24.2	3.13
W597235		6.39	0.25	8.28	21.6	2290	1.88	16.70	2.75	0.13	58.9	7.3	12	6.01	58.6	3.82
W597236		6.21	0.08	8.15	12.3	2310	1.75	0.34	2.85	0.10	59.5	7.1	12	4.67	10.4	3.34
W597237		6.40	0.09	7.70	12.4	2180	1.65	0.50	2.85	0.10	53.7	7.3	11	6.75	10.4	3.11
W597238		6.20	0.07	7.73	6.4	2330	1.78	0.41	2.81	0.10	51.4	7.6	11	4.39	6.8	3.01
W597239		5.61	0.16	7.57	24.8	970	1.57	1.54	2.43	0.15	66.1	27.6	12	5.27	5.9	3.83
W597240		6.27	0.16	7.65	10.4	2370	1.69	0.57	2.78	0.13	60.4	7.0	12	4.54	18.4	3.06

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279933

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597201		17.55	0.13	1.2	0.113	2.56	23.4	38.6	0.55	758	1.36	0.07	9.0	2.6	640	27.7
W597202		17.75	0.12	1.3	0.064	2.91	26.7	29.5	0.76	484	1.51	0.74	9.3	3.0	650	17.8
W597203		18.15	0.12	1.1	0.106	3.10	27.7	25.4	0.64	648	1.37	0.06	8.2	3.2	620	17.2
W597204		0.30	<0.05	<0.1	<0.005	0.03	1.4	1.0	2.02	137	0.09	0.03	0.2	0.4	80	0.5
W597205		16.55	0.11	1.1	0.344	3.09	28.3	19.8	0.89	1020	1.10	0.05	7.7	2.5	570	262
W597206		16.30	0.12	1.1	0.107	2.73	18.9	23.2	0.73	581	1.32	1.21	8.8	2.8	600	41.7
W597207		17.55	0.11	1.1	0.071	2.75	26.3	13.8	0.69	593	1.18	1.55	8.6	3.0	640	26.8
W597208		18.40	0.12	1.3	0.176	2.88	26.8	20.9	0.55	613	1.52	0.55	9.5	3.9	620	522
W597209		17.25	0.11	1.2	0.135	2.58	25.2	38.4	0.54	571	1.67	0.07	9.3	2.5	630	14.9
W597210		17.55	0.12	1.3	0.138	2.63	27.0	38.8	0.56	592	2.07	0.07	9.5	2.5	650	15.6
W597211		16.75	0.13	1.3	0.116	2.90	21.4	14.2	0.69	811	1.00	1.35	8.8	2.9	580	47.0
W597212		17.00	0.12	1.2	0.112	2.84	24.6	13.6	0.83	652	1.40	2.06	9.0	2.7	590	57.7
W597213		17.35	0.12	1.1	0.071	2.69	21.4	13.6	0.82	609	1.79	2.15	9.1	3.0	630	41.1
W597214		17.05	0.13	1.1	0.049	2.72	25.2	14.5	0.84	550	1.11	2.31	8.5	2.8	610	17.8
W597215		16.75	0.11	1.3	0.074	2.78	27.7	18.4	0.80	541	1.26	2.14	8.8	2.5	590	25.0
W597216		17.20	0.11	1.1	0.079	2.52	18.6	14.6	0.96	644	1.29	2.40	8.9	3.0	650	20.8
W597217		16.85	0.13	1.0	0.089	2.64	24.5	12.2	0.79	557	1.09	1.95	8.5	2.8	630	22.2
W597218		14.30	0.10	0.9	1.590	2.66	17.0	16.6	0.68	2310	18.40	0.06	5.2	15.3	440	1650
W597219		18.00	0.14	1.2	0.078	2.86	23.3	15.5	0.69	686	1.84	2.10	9.3	3.2	680	55.6
W597220		17.50	0.13	1.0	0.119	3.45	20.1	42.9	0.59	542	6.72	1.04	8.9	3.2	700	56.1
W597221		19.25	0.15	4.7	0.150	2.48	27.3	17.3	0.81	813	3.42	1.26	11.8	8.8	1320	34.9
W597222		18.90	0.16	4.9	0.034	2.53	29.1	19.7	0.67	358	0.75	1.21	10.0	8.4	1170	19.2
W597223		19.50	0.19	4.7	0.026	2.49	29.2	23.4	0.73	453	0.71	1.30	10.0	8.9	1130	18.6
W597224		19.05	0.19	4.8	0.026	2.48	28.0	22.7	0.72	446	0.56	1.31	10.0	8.7	1100	18.7
W597225		19.70	0.18	4.9	0.027	2.41	28.9	27.4	0.64	391	0.93	1.50	10.5	8.5	1130	18.0
W597226		19.75	0.18	5.0	0.023	2.41	29.7	25.5	0.61	344	12.80	1.43	10.6	8.4	1150	21.6
W597227		19.20	0.18	4.8	0.029	2.35	28.5	20.8	0.56	300	1.47	1.27	10.1	8.7	1090	19.4
W597228		19.55	0.17	4.8	0.026	2.41	31.9	23.5	0.79	464	0.52	1.70	10.4	8.6	1140	15.2
W597229		18.75	0.18	4.7	0.021	2.34	31.7	24.8	0.84	470	1.25	1.98	10.0	8.3	1110	16.4
W597230		18.35	0.21	4.3	0.025	2.40	29.1	29.9	0.82	438	0.54	1.62	9.4	7.9	1080	15.7
W597231		19.20	0.17	4.5	0.029	2.53	33.4	36.3	0.75	421	1.41	1.59	9.9	8.0	1100	17.2
W597232		12.80	0.16	1.3	1.905	0.48	10.7	29.7	2.68	521	14.50	0.10	3.0	33.0	420	1090
W597233		17.40	0.14	1.2	0.185	3.20	33.7	17.6	0.82	387	11.50	2.28	7.7	3.3	630	18.6
W597234		17.15	0.17	1.1	0.174	3.05	28.1	14.1	0.85	383	12.50	2.46	7.9	3.1	640	16.9
W597235		17.95	0.16	1.3	0.231	2.95	30.7	13.0	1.13	518	1.46	2.50	8.6	3.9	810	16.3
W597236		16.80	0.19	1.3	0.084	2.83	31.5	10.5	0.98	528	1.94	2.59	7.9	3.2	680	15.1
W597237		16.45	0.16	1.1	0.087	2.79	27.7	12.8	0.82	467	2.72	2.41	7.6	2.8	620	14.8
W597238		16.75	0.15	1.3	0.065	2.73	27.6	9.6	0.88	499	3.32	2.49	7.6	2.9	620	15.1
W597239		15.40	0.17	1.2	0.067	3.17	38.5	7.9	0.84	419	6.33	1.93	7.2	3.0	600	17.3
W597240		16.85	0.17	1.1	0.082	2.62	32.2	9.2	0.88	533	1.77	2.38	7.6	3.0	620	16.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279933

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597201		102.5	<0.002	1.61	50.7	11.6	1	4.5	97.8	0.74	0.11	15.05	0.265	1.47	4.6	69
W597202		104.5	<0.002	0.19	10.70	11.8	<1	2.6	185.0	0.73	<0.05	17.05	0.281	1.29	3.8	75
W597203		169.5	<0.002	2.21	32.4	12.5	1	6.7	48.3	0.63	0.17	14.90	0.246	2.08	4.3	78
W597204		1.2	<0.002	<0.01	0.09	0.2	1	<0.2	80.9	<0.05	<0.05	0.15	0.006	0.02	0.2	1
W597205		194.0	<0.002	2.16	79.8	10.4	1	5.3	74.4	0.62	0.09	14.40	0.230	2.44	5.8	66
W597206		96.6	<0.002	0.45	26.5	10.7	<1	2.3	254	0.71	0.10	11.60	0.263	1.52	4.6	72
W597207		102.5	<0.002	0.40	8.19	12.0	<1	1.9	285	0.65	0.09	14.70	0.277	1.26	4.2	76
W597208		140.0	<0.002	2.01	72.6	12.0	1	6.2	140.5	0.76	0.28	15.50	0.265	1.70	4.7	69
W597209		106.5	<0.002	0.41	21.7	11.6	1	2.6	82.4	0.80	0.22	16.55	0.265	1.69	5.4	72
W597210		112.5	<0.002	0.42	23.3	11.8	<1	2.6	83.3	0.81	0.31	17.15	0.265	1.78	5.3	73
W597211		115.5	<0.002	0.69	15.60	10.5	1	3.0	279	0.76	0.12	15.20	0.246	1.66	5.1	67
W597212		109.5	<0.002	0.80	8.09	11.2	<1	2.5	355	0.61	0.14	16.00	0.259	1.37	3.9	70
W597213		101.5	<0.002	0.29	4.06	12.0	<1	2.2	381	0.66	<0.05	13.25	0.270	1.27	4.2	74
W597214		95.2	<0.002	0.07	1.66	11.4	<1	1.9	409	0.60	<0.05	14.00	0.265	1.14	3.8	73
W597215		104.0	<0.002	0.23	2.20	11.1	<1	2.1	352	0.70	0.12	16.20	0.251	1.27	4.5	69
W597216		86.3	<0.002	0.09	1.36	12.4	<1	2.1	427	0.62	0.10	11.60	0.289	1.21	3.6	82
W597217		111.0	<0.002	0.37	1.87	12.3	<1	3.1	340	0.59	0.17	13.40	0.270	1.44	4.0	76
W597218		148.0	0.002	7.81	105.0	8.6	2	11.2	61.7	0.40	0.76	9.60	0.166	2.37	5.9	55
W597219		97.4	<0.002	0.22	4.92	12.6	<1	2.1	381	0.66	0.40	13.15	0.291	1.41	2.4	79
W597220		110.0	0.004	0.25	10.65	11.8	<1	2.9	268	0.59	0.15	10.75	0.298	2.43	2.5	80
W597221		73.3	<0.002	0.15	21.1	6.8	1	2.6	469	0.69	<0.05	8.43	0.360	1.03	5.5	66
W597222		81.3	<0.002	0.03	14.65	5.0	1	1.7	394	0.71	<0.05	9.58	0.326	0.77	3.8	55
W597223		84.7	<0.002	0.04	15.90	5.1	1	1.8	388	0.68	<0.05	9.72	0.317	0.81	4.2	55
W597224		79.8	<0.002	0.04	15.75	4.9	1	1.8	386	0.68	<0.05	9.49	0.315	0.85	4.0	53
W597225		81.3	<0.002	0.02	13.15	5.1	<1	1.8	382	0.70	<0.05	9.62	0.317	0.79	4.2	52
W597226		83.1	<0.002	0.03	18.15	5.2	1	1.8	347	0.69	<0.05	9.50	0.321	0.78	5.1	55
W597227		84.5	<0.002	0.04	18.70	5.0	1	1.6	332	0.65	<0.05	9.42	0.310	0.80	4.6	52
W597228		91.8	<0.002	0.02	14.15	5.2	1	1.7	420	0.69	<0.05	10.10	0.318	0.85	3.7	53
W597229		84.4	<0.002	0.04	13.85	5.0	<1	1.7	463	0.66	<0.05	10.45	0.312	0.77	5.7	52
W597230		83.2	<0.002	0.03	15.50	4.6	1	1.8	437	0.61	<0.05	9.40	0.296	0.75	3.5	50
W597231		91.0	<0.002	0.02	14.40	4.8	<1	1.8	413	0.69	<0.05	10.85	0.307	0.76	3.9	51
W597232		18.0	0.020	6.96	49.4	6.1	34	20.6	78.0	0.23	0.32	2.69	0.120	6.47	2.5	76
W597233		142.5	<0.002	0.53	1.50	11.2	1	3.5	362	0.60	0.14	15.05	0.267	1.66	4.6	76
W597234		135.0	<0.002	0.29	1.36	10.9	1	3.3	409	0.63	0.11	14.00	0.273	1.57	4.4	77
W597235		150.0	<0.002	0.31	2.53	12.8	1	3.9	420	0.67	0.11	13.75	0.315	1.72	4.1	93
W597236		119.0	<0.002	0.06	1.26	11.0	1	1.9	433	0.64	<0.05	15.85	0.285	1.22	4.6	79
W597237		115.5	<0.002	0.15	1.18	10.2	1	1.9	396	0.64	0.06	14.30	0.262	1.24	4.8	73
W597238		109.5	<0.002	0.12	0.73	10.4	1	2.1	410	0.60	0.07	13.55	0.267	1.05	4.4	73
W597239		128.0	<0.002	1.48	0.91	10.1	1	2.9	323	0.57	0.71	14.30	0.247	1.37	4.4	69
W597240		107.0	<0.002	0.14	1.17	10.6	1	2.0	413	0.62	<0.05	14.25	0.262	1.06	4.7	73

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279933

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597201		7.0	16.1	114	28.8	0.643
W597202		2.3	17.6	55	31.3	<0.005
W597203		4.8	16.4	49	28.9	0.497
W597204		<0.1	2.6	4	2.7	<0.005
W597205		3.2	15.7	701	27.1	0.047
W597206		1.8	15.8	97	28.2	0.038
W597207		2.5	17.9	46	28.5	0.011
W597208		10.0	16.9	124	32.5	0.116
W597209		2.9	17.3	49	29.4	0.022
W597210		3.1	17.7	51	31.3	0.018
W597211		1.5	17.4	82	32.6	0.066
W597212		1.3	18.3	120	31.5	0.029
W597213		1.2	17.6	75	27.7	0.007
W597214		1.1	17.2	44	26.7	<0.005
W597215		0.9	18.0	63	31.4	0.008
W597216		0.9	18.0	47	27.5	<0.005
W597217		1.5	17.1	54	25.2	0.036
W597218		7.5	10.0	3410	24.2	1.700
W597219		0.9	17.4	287	27.6	0.014
W597220		1.4	14.3	122	27.0	0.014
W597221		1.6	13.0	296	180.5	0.017
W597222		1.6	8.5	179	190.0	<0.005
W597223		1.6	8.5	133	189.0	<0.005
W597224		1.6	8.4	126	186.0	<0.005
W597225		1.5	8.8	158	193.5	<0.005
W597226		1.5	9.0	212	192.5	<0.005
W597227		1.4	8.8	221	183.0	<0.005
W597228		1.1	9.1	130	190.0	<0.005
W597229		0.9	8.7	140	180.5	<0.005
W597230		0.9	7.9	114	170.0	<0.005
W597231		1.0	9.0	191	177.0	<0.005
W597232		3.9	9.9	7610	45.4	0.297
W597233		1.0	17.5	42	31.9	0.096
W597234		2.7	18.8	37	32.3	0.057
W597235		2.0	22.4	45	33.6	0.100
W597236		3.3	19.4	38	35.7	<0.005
W597237		3.1	17.8	36	32.5	0.013
W597238		1.2	18.1	37	34.4	<0.005
W597239		1.0	17.0	43	29.7	0.009
W597240		1.8	18.3	45	30.4	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279933

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19279937

Project: Klaza

P.O. No.: 19-142

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279937

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597241		6.54	0.32	7.91	29.9	2310	1.67	1.40	2.90	0.42	53.7	7.3	11	5.87	22.9	3.36
W597242		5.91	0.21	7.55	10.5	2330	1.74	0.54	3.01	0.34	50.9	7.9	11	6.10	25.5	3.14
W597243		6.28	0.35	7.45	22.0	2290	1.66	0.36	2.72	1.12	55.6	7.8	11	6.08	14.8	2.93
W597244		6.01	0.43	7.97	16.9	2390	1.91	0.54	2.75	1.17	59.6	7.3	11	5.76	12.5	3.13
W597245		6.60	0.10	7.53	10.3	2290	1.60	0.19	3.05	0.12	48.9	7.4	11	5.37	7.6	3.12
W597246		6.24	0.12	7.63	9.7	2430	1.65	0.31	3.04	0.18	49.9	8.0	13	4.66	8.5	3.19
W597247		0.11	17.70	3.46	277	110	0.61	10.30	2.31	51.0	24.0	17.2	47	0.97	2260	9.13
W597248		6.41	0.13	7.78	11.2	2500	1.71	0.30	3.03	0.52	50.2	9.0	13	4.55	8.9	3.21
W597249		6.15	0.25	7.57	16.1	2500	1.58	0.33	2.88	1.08	49.7	8.5	12	5.40	8.1	3.19
W597250		6.68	0.85	8.04	708	2270	1.58	1.20	2.78	2.17	55.2	9.8	11	6.67	35.4	3.70
W597251		5.72	0.48	7.74	197.0	2260	1.81	0.57	2.81	1.07	55.0	8.2	12	6.62	13.8	3.16
W597252		5.07	0.33	7.52	23.7	2260	1.62	3.61	2.52	0.58	56.9	7.8	11	6.47	38.7	3.19
W597253		5.17	0.01	0.10	0.5	20	0.06	0.02	34.3	<0.02	0.96	0.5	1	0.05	1.2	0.10
W597254		5.90	0.24	7.44	11.5	2070	1.68	1.26	2.89	0.24	51.6	13.6	9	10.90	17.4	3.05
W597255		5.70	0.16	7.44	8.0	2020	1.74	0.64	2.82	0.17	49.4	8.0	11	8.97	17.6	2.65
W597256		5.07	0.25	7.52	13.4	2120	1.34	0.95	1.45	0.78	40.3	13.4	11	6.12	7.6	1.63
W597257		6.19	0.14	8.29	12.3	2130	1.66	0.40	1.57	0.28	51.8	6.0	11	8.53	10.8	1.81
W597258		6.14	0.39	7.76	12.1	2050	1.65	1.32	1.46	0.28	59.5	10.9	10	10.45	61.1	2.96
W597259		9.03	0.41	7.32	34.9	1250	2.55	2.30	1.38	0.24	44.1	3.0	5	21.9	51.8	2.40
W597260		0.26	38.6	5.82	2490	330	1.27	38.8	1.69	48.0	37.9	16.3	22	9.56	1180	9.29
W597261		5.65	0.06	7.23	7.7	900	2.14	0.06	0.94	0.09	40.9	1.8	3	21.2	4.5	1.35
W597262		6.33	0.02	6.29	8.1	1110	2.12	0.05	1.99	0.04	29.6	1.5	3	23.5	3.5	1.21
W597263		5.84	0.02	6.57	7.2	1050	2.31	0.04	1.91	0.08	33.3	1.5	3	26.1	1.3	1.36
W597264		5.70	0.02	6.20	6.7	730	2.01	0.06	1.93	0.05	26.5	1.4	3	22.5	1.1	1.22
W597265		5.51	0.09	7.00	6.2	770	2.03	1.41	1.27	0.12	36.7	1.5	3	20.9	4.0	1.43
W597266		3.19	0.17	7.07	6.3	740	2.10	1.46	1.35	0.11	37.9	1.7	3	21.1	4.2	1.48
W597267		3.58	0.18	6.32	13.7	1140	2.56	0.66	1.48	0.39	34.9	1.3	3	18.30	3.3	1.14
W597268		6.99	3.99	7.45	156.5	970	2.10	12.00	2.24	1.88	50.4	12.9	23	19.20	112.5	4.64
W597269		6.53	0.71	7.01	36.3	1940	1.61	1.77	3.38	0.32	40.2	11.1	112	16.35	33.7	3.71
W597270		6.41	0.33	6.57	24.7	1970	1.51	0.76	2.97	0.08	37.5	10.0	64	13.55	13.8	2.87
W597271		3.34	0.41	7.14	28.2	2350	1.43	0.98	2.85	0.49	40.4	9.5	62	11.15	11.4	3.09
W597272		6.27	0.60	7.21	51.3	2860	1.50	0.96	3.61	0.89	42.2	9.5	65	15.55	9.9	3.12
W597273		<0.02	0.57	7.04	48.0	2750	1.44	0.91	3.48	0.69	40.6	9.0	63	14.95	9.2	3.04
W597274		6.24	1.20	6.70	24.4	2150	1.56	2.10	3.09	0.30	38.1	9.4	88	17.25	56.2	3.42
W597275		4.54	1.04	7.04	48.7	2090	1.55	3.32	3.17	0.27	38.8	9.1	76	23.9	110.0	3.85
W597276		5.16	6.38	7.05	36.2	1640	2.08	0.28	3.41	2.12	57.9	4.4	5	31.7	9.9	2.62
W597277		4.11	0.43	7.15	12.4	1230	1.98	0.06	3.59	0.33	55.6	4.0	5	30.6	4.6	2.63
W597278		5.72	0.95	6.98	30.6	1380	1.92	0.16	3.11	1.88	54.9	4.3	5	30.5	8.9	2.63
W597279		5.62	1.54	6.85	44.7	1270	1.89	0.28	3.65	3.37	51.9	4.4	5	31.5	17.4	2.62
W597280		6.40	7.38	7.18	171.5	1010	1.78	5.08	2.88	6.85	53.4	4.8	7	29.2	102.5	3.53

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279937

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597241		16.95	0.16	1.2	0.103	2.86	27.4	10.2	0.91	573	1.74	2.33	7.8	2.9	650	34.4
W597242		16.65	0.14	1.2	0.077	2.64	25.8	10.4	0.92	622	0.83	2.35	7.8	3.1	640	26.9
W597243		16.75	0.16	1.2	0.061	2.67	28.1	9.4	0.86	598	0.66	2.20	7.5	2.9	600	57.9
W597244		17.60	0.15	1.3	0.075	2.77	31.3	8.7	0.92	603	0.65	2.42	7.9	3.1	640	53.7
W597245		16.65	0.14	1.1	0.048	2.51	24.2	10.9	0.90	627	0.83	2.44	7.7	3.1	660	14.7
W597246		17.35	0.16	1.2	0.052	2.47	25.4	9.2	0.96	641	1.20	2.43	7.6	3.3	680	19.3
W597247		12.70	0.16	1.4	1.850	0.47	10.8	29.1	2.70	524	14.05	0.10	3.1	33.8	420	1095
W597248		17.35	0.13	1.2	0.055	2.54	25.8	9.7	0.95	649	1.21	2.50	7.8	3.2	680	35.7
W597249		16.90	0.15	1.4	0.056	2.49	25.2	9.5	0.96	641	0.86	2.39	7.5	3.1	670	61.7
W597250		16.85	0.14	1.4	0.212	2.75	29.5	9.6	0.94	702	1.19	1.96	7.3	3.2	670	189.5
W597251		17.20	0.16	1.4	0.073	2.65	28.0	10.2	0.91	643	1.61	2.32	7.7	3.2	640	124.0
W597252		16.20	0.14	1.2	0.078	2.95	30.2	10.6	0.81	538	1.48	1.97	7.2	2.9	590	38.2
W597253		0.35	0.10	<0.1	<0.005	0.03	1.1	1.1	1.93	115	<0.05	0.04	0.1	0.4	60	0.6
W597254		16.60	0.17	1.1	0.066	2.66	26.0	13.3	0.77	582	2.04	2.09	7.7	3.3	610	24.5
W597255		16.65	0.21	1.3	0.046	2.37	26.1	11.8	0.79	549	1.20	2.29	7.8	2.9	610	17.1
W597256		14.95	0.18	1.1	0.031	3.27	21.5	11.6	0.37	260	2.86	1.21	6.4	2.3	570	32.3
W597257		17.60	0.18	1.4	0.036	3.33	26.8	11.2	0.58	419	1.51	1.49	8.1	2.9	730	15.8
W597258		16.25	0.14	1.4	0.057	2.77	34.6	26.6	0.64	526	1.48	0.84	8.4	3.2	620	25.0
W597259		17.50	0.11	2.3	0.139	2.58	22.7	21.9	0.30	815	2.15	0.52	12.6	1.6	450	24.7
W597260		13.85	0.08	0.8	1.655	2.64	19.4	16.5	0.69	2270	17.50	0.06	4.6	15.0	440	1655
W597261		19.20	0.09	2.8	0.015	2.81	20.9	13.6	0.17	410	0.63	0.08	14.7	0.9	330	27.0
W597262		17.45	0.08	2.7	0.022	2.86	12.8	9.4	0.22	386	0.37	0.06	14.1	0.8	310	27.8
W597263		18.50	0.12	2.8	0.018	3.03	14.6	9.5	0.25	404	0.37	0.05	15.6	0.8	320	29.2
W597264		17.45	0.09	2.6	0.013	2.93	10.9	10.8	0.21	363	0.35	0.05	14.3	0.7	310	24.1
W597265		17.70	0.10	2.8	0.015	2.81	19.2	13.0	0.27	461	1.69	0.06	14.5	0.8	320	32.8
W597266		18.05	0.11	2.8	0.019	2.89	19.1	13.2	0.28	487	1.61	0.06	14.1	0.8	310	34.0
W597267		16.60	0.13	2.6	0.111	2.53	17.6	21.3	0.37	457	1.18	0.07	14.2	0.8	280	38.9
W597268		17.40	0.10	1.6	0.440	2.70	26.3	44.0	0.81	1380	5.58	0.37	8.3	11.8	630	132.5
W597269		16.00	0.10	1.8	0.264	3.13	21.8	32.4	1.65	1360	2.25	0.74	6.3	41.5	650	29.0
W597270		15.85	0.12	1.7	0.142	2.76	20.0	53.8	1.36	938	1.72	1.50	5.7	24.6	650	19.6
W597271		15.75	0.11	1.8	0.123	2.96	21.2	31.0	1.33	938	1.45	1.75	6.5	22.7	670	33.0
W597272		15.95	0.10	1.8	0.148	3.35	24.0	32.9	1.37	1390	1.96	0.51	6.3	23.4	690	41.8
W597273		15.25	0.10	1.7	0.139	3.22	22.9	32.3	1.33	1340	1.82	0.52	6.1	22.3	680	38.4
W597274		16.15	0.14	1.8	0.258	2.65	20.9	27.9	1.55	1350	1.00	1.46	7.0	36.3	640	56.7
W597275		15.65	0.10	1.7	0.462	2.94	20.7	34.1	1.28	1400	1.12	0.94	6.7	27.4	680	19.8
W597276		18.25	0.12	2.2	0.046	2.81	29.4	18.9	0.82	938	1.94	0.56	8.8	2.2	850	197.5
W597277		17.65	0.13	2.2	0.044	2.66	27.9	19.8	0.79	700	1.00	0.71	8.5	2.1	860	26.5
W597278		18.10	0.11	2.3	0.046	2.65	27.6	36.8	0.73	896	1.40	0.58	8.9	2.1	850	147.0
W597279		17.95	0.13	2.3	0.058	2.79	25.4	40.4	0.71	1180	1.73	0.19	8.7	2.1	850	205
W597280		16.70	0.14	1.6	0.241	2.66	28.0	26.3	0.88	1560	3.78	0.32	7.5	2.5	690	327

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279937

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597241		123.0	<0.002	0.39	1.97	11.0	1	3.0	391	0.61	0.12	13.70	0.275	1.31	4.5	77
W597242		113.0	<0.002	0.16	1.44	11.5	1	2.1	395	0.60	0.08	12.00	0.273	1.10	4.8	78
W597243		117.5	<0.002	0.22	1.63	10.4	1	2.3	378	0.62	<0.05	12.70	0.251	1.20	3.6	70
W597244		122.5	<0.002	0.22	1.47	11.1	1	2.3	413	0.64	0.06	15.35	0.273	1.18	3.8	75
W597245		96.6	<0.002	0.09	1.30	10.9	<1	1.9	423	0.57	<0.05	11.00	0.284	0.92	4.3	78
W597246		95.5	<0.002	0.11	1.09	12.0	1	2.1	445	0.50	0.07	12.15	0.287	1.00	2.6	80
W597247		18.1	0.011	6.97	47.1	6.2	34	19.9	76.9	0.22	0.31	2.82	0.119	6.51	2.5	76
W597248		94.4	<0.002	0.12	1.17	11.3	1	2.0	455	0.59	0.06	12.00	0.286	0.92	3.1	79
W597249		90.7	<0.002	0.22	1.82	11.4	1	1.8	445	0.53	0.06	11.55	0.279	0.93	2.6	78
W597250		125.5	<0.002	0.81	20.6	11.1	1	3.2	367	0.48	0.46	13.20	0.278	1.25	2.8	79
W597251		112.5	<0.002	0.24	5.26	11.5	1	2.3	397	0.64	0.08	14.05	0.269	1.10	3.7	75
W597252		128.5	<0.002	0.46	11.25	10.1	1	2.9	330	0.58	0.61	15.20	0.245	1.32	4.4	69
W597253		0.9	<0.002	<0.01	0.11	0.1	2	<0.2	79.5	<0.05	<0.05	0.09	0.006	0.02	0.1	1
W597254		107.5	<0.002	0.37	2.56	10.2	1	2.1	369	0.58	0.13	14.25	0.266	1.10	4.3	72
W597255		101.0	<0.002	0.19	2.24	10.4	1	2.5	387	0.62	0.11	14.60	0.261	1.04	4.9	73
W597256		161.0	<0.002	0.96	39.5	9.7	2	2.5	177.5	0.50	0.30	13.80	0.215	1.69	5.2	71
W597257		153.0	<0.002	0.20	11.60	11.8	1	2.5	244	0.62	0.07	14.30	0.294	1.50	4.4	83
W597258		115.5	<0.002	0.45	6.35	10.3	<1	2.9	176.0	0.74	0.63	15.35	0.264	1.50	4.8	72
W597259		112.0	<0.002	0.25	5.41	6.3	<1	3.3	141.5	1.02	0.64	10.60	0.184	1.48	4.2	42
W597260		156.5	0.003	7.77	108.0	8.0	1	11.4	64.6	0.35	0.75	9.32	0.164	2.44	5.2	56
W597261		110.5	<0.002	0.03	1.79	2.6	<1	2.3	78.2	1.42	<0.05	8.78	0.135	1.37	2.4	15
W597262		118.0	<0.002	0.01	2.68	2.2	<1	3.2	116.5	1.28	<0.05	6.70	0.122	1.44	1.9	14
W597263		138.5	<0.002	<0.01	3.15	2.4	<1	3.7	99.7	1.34	<0.05	7.19	0.125	1.67	1.6	15
W597264		119.0	<0.002	<0.01	3.01	2.2	<1	2.0	122.0	1.40	<0.05	6.40	0.121	1.56	1.6	14
W597265		116.0	<0.002	0.01	2.47	2.3	<1	2.9	108.5	1.36	<0.05	8.09	0.125	1.49	2.8	14
W597266		115.5	<0.002	0.01	2.52	2.3	<1	3.3	105.5	1.36	<0.05	7.78	0.128	1.40	2.7	14
W597267		99.7	<0.002	0.03	2.96	2.2	1	4.7	117.5	1.35	<0.05	7.12	0.119	1.43	7.5	13
W597268		153.5	0.003	1.11	11.50	8.8	2	5.8	162.0	0.68	1.15	11.55	0.214	2.24	5.2	79
W597269		172.0	<0.002	0.26	7.11	10.5	<1	0.8	407	0.46	<0.05	9.12	0.222	2.57	3.7	84
W597270		111.5	<0.002	0.37	4.98	8.5	<1	0.8	518	0.41	<0.05	8.70	0.186	1.95	3.7	73
W597271		103.5	<0.002	0.58	6.28	8.7	1	0.8	568	0.53	0.06	9.35	0.218	1.88	4.0	76
W597272		165.5	<0.002	0.67	8.05	9.0	<1	0.9	371	0.50	0.10	9.92	0.211	2.76	4.9	75
W597273		159.0	<0.002	0.64	7.73	8.6	1	0.9	366	0.50	0.07	9.56	0.206	2.59	4.8	74
W597274		103.5	<0.002	0.15	6.35	9.9	1	1.0	549	0.55	<0.05	8.74	0.237	1.90	4.2	79
W597275		144.0	<0.002	0.65	8.40	9.2	<1	1.5	502	0.50	0.09	9.52	0.237	2.21	4.2	78
W597276		117.5	<0.002	0.11	4.35	5.2	1	1.5	422	0.60	<0.05	8.78	0.294	2.00	4.5	46
W597277		105.0	<0.002	0.04	3.53	5.0	1	1.4	503	0.60	<0.05	8.47	0.293	1.59	3.9	46
W597278		102.5	<0.002	0.11	5.02	5.0	<1	1.4	434	0.63	<0.05	8.88	0.292	1.86	4.5	44
W597279		105.0	<0.002	0.17	4.20	4.9	<1	2.3	435	0.60	<0.05	8.28	0.294	2.07	4.2	46
W597280		154.0	<0.002	0.62	11.05	8.6	<1	10.4	286	0.53	0.13	11.40	0.248	2.44	4.3	60

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279937

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597241		1.0	18.0	105	34.1	0.020
W597242		1.3	19.1	67	32.8	0.012
W597243		2.3	17.9	133	32.9	0.007
W597244		1.2	19.5	136	35.3	0.007
W597245		1.3	17.4	51	31.7	<0.005
W597246		0.9	18.4	58	29.8	0.009
W597247		1.9	9.9	7630	45.4	0.283
W597248		1.5	18.2	90	33.8	0.006
W597249		1.0	17.7	119	38.8	0.005
W597250		1.6	17.5	204	41.1	0.027
W597251		2.2	19.4	117	37.8	0.008
W597252		1.8	16.6	82	35.5	0.046
W597253		0.1	2.0	3	1.5	<0.005
W597254		1.9	17.0	56	32.3	0.013
W597255		2.0	17.3	55	36.2	0.005
W597256		8.6	11.2	68	32.0	<0.005
W597257		3.7	15.8	54	36.9	<0.005
W597258		3.8	16.6	59	37.1	0.023
W597259		3.5	16.4	70	56.2	0.005
W597260		7.3	9.1	3380	22.3	1.750
W597261		1.5	14.3	62	66.9	<0.005
W597262		1.8	12.1	53	63.6	<0.005
W597263		2.1	13.7	55	67.1	<0.005
W597264		1.7	12.0	54	61.3	<0.005
W597265		1.3	15.2	66	63.7	<0.005
W597266		1.3	15.4	65	64.9	<0.005
W597267		1.3	15.7	97	58.3	<0.005
W597268		2.9	13.7	349	45.1	0.066
W597269		1.5	10.6	131	59.5	0.011
W597270		1.3	9.8	88	53.7	<0.005
W597271		1.3	9.3	134	53.7	0.006
W597272		2.1	10.1	165	53.5	0.029
W597273		2.0	9.7	150	53.6	0.031
W597274		2.0	10.0	124	56.2	0.005
W597275		2.0	11.5	116	53.0	0.008
W597276		1.3	11.6	265	71.0	0.028
W597277		0.9	11.4	102	68.2	<0.005
W597278		1.5	11.3	251	68.3	0.032
W597279		1.5	11.2	385	68.6	0.053
W597280		3.2	14.9	681	47.6	0.312

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279937

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19279938

Project: Klaza

P.O. No.: 19-143

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279938

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597281		6.16	7.87	7.12	215	920	1.82	3.66	2.15	4.74	43.6	4.0	8	24.4	153.0	4.10
W597282		5.71	2.26	7.87	72.8	1580	1.97	0.58	2.34	1.69	63.3	5.2	7	32.9	12.9	2.92
W597283		5.38	0.20	7.61	45.6	1580	1.93	0.21	1.92	1.80	62.5	5.1	6	22.5	42.1	2.87
W597284		4.96	0.09	8.19	29.6	810	1.60	0.07	1.13	0.55	136.0	13.0	138	3.27	15.9	5.33
W597285		7.59	0.11	7.54	22.7	1490	2.01	0.17	2.86	0.22	75.2	9.0	46	28.2	11.1	3.34
W597286		0.26	37.8	5.63	2450	900	1.20	37.1	1.66	46.5	38.3	15.7	22	9.21	1140	8.94
W597287		6.27	0.10	6.85	28.8	1290	2.02	0.21	3.78	0.49	54.2	6.7	16	30.5	12.4	2.58
W597288		6.13	0.19	6.76	123.5	1890	2.05	0.26	4.44	1.48	58.3	6.7	10	40.7	16.1	2.35
W597289		6.68	0.06	7.02	26.9	1030	2.06	0.12	3.66	0.50	57.6	6.3	12	33.7	6.9	2.59
W597290		6.37	0.11	7.55	17.2	2210	2.20	0.24	3.06	0.43	67.2	8.4	14	23.4	9.4	2.58
W597291		3.95	0.07	7.44	21.0	1410	2.58	0.26	4.31	0.21	71.0	5.3	14	15.20	6.0	2.82
W597292		5.41	0.11	6.86	21.7	2370	1.97	0.40	4.33	0.36	52.5	8.2	20	31.5	9.0	2.64
W597293		4.45	2.66	7.74	62.0	1000	2.10	3.01	1.98	8.36	46.1	9.4	35	18.30	42.3	4.55
W597294		2.13	6.49	7.25	83.8	930	1.88	4.77	2.16	12.50	39.7	9.1	32	19.30	74.6	4.60
W597295		6.82	4.91	6.99	255	460	1.58	7.91	0.96	17.00	33.9	12.3	33	10.25	41.8	6.02
W597296		6.46	0.46	6.75	53.2	1000	2.07	0.27	3.36	0.77	49.4	5.8	28	28.2	13.1	2.05
W597297		6.07	0.22	6.82	40.7	1310	2.18	0.12	4.34	1.43	56.6	5.2	22	34.7	11.6	2.23
W597298		5.72	0.04	6.66	18.4	1550	1.98	0.07	3.33	0.17	46.9	4.9	21	31.6	5.5	2.05
W597299		5.01	0.01	0.17	<0.2	30	0.09	0.02	32.2	0.02	1.23	0.6	1	0.22	1.5	0.14
W597300		5.87	0.02	6.85	14.9	1310	2.05	0.05	2.59	0.14	49.7	4.9	19	28.5	6.0	2.09
W597301		5.71	0.05	6.77	20.1	1790	1.88	0.13	3.78	0.15	55.8	5.8	25	38.1	8.0	2.36
W597302		3.15	0.09	7.48	20.0	1310	1.61	0.15	2.01	0.11	55.2	5.4	28	24.8	10.4	2.13
W597303		3.41	0.32	7.16	35.1	1180	1.46	0.29	0.68	0.16	58.1	6.9	31	22.1	14.1	2.10
W597304		4.58	0.70	7.65	38.0	2700	1.64	1.65	1.51	0.57	44.0	7.4	10	21.1	85.0	3.33
W597305		0.11	19.35	3.47	286	100	0.50	11.35	2.32	51.6	23.6	19.1	46	1.05	2270	9.12
W597306		4.67	0.39	7.38	28.2	2780	1.50	0.98	1.48	0.58	44.5	3.0	9	13.95	26.3	3.45
W597307		5.34	0.37	7.34	42.4	1520	1.44	0.71	2.95	0.37	42.0	3.4	9	16.85	39.6	3.28
W597308		6.32	0.29	6.94	45.3	1930	1.54	0.48	3.45	0.32	45.0	2.8	8	23.2	20.9	3.08
W597309		6.67	0.39	6.89	71.1	2230	1.94	0.27	3.54	3.13	56.6	7.0	17	21.5	13.2	2.81
W597310		6.80	0.52	6.98	193.5	1350	1.86	0.13	3.74	0.15	59.6	6.9	17	19.35	11.2	2.59
W597311		5.77	1.41	7.37	46.8	2300	1.49	2.51	2.61	0.17	49.3	6.8	12	10.50	410	3.75
W597312		6.81	1.01	7.67	26.5	2460	1.49	2.29	2.84	0.17	51.2	7.1	15	7.69	273	4.01
W597313		<0.02	0.99	7.61	24.8	2450	1.41	2.22	2.84	0.15	48.9	6.8	14	7.47	270	3.95
W597314		5.71	0.76	7.17	42.3	2130	1.38	1.90	2.75	0.45	55.2	5.6	12	10.05	156.5	3.64
W597315		6.00	0.18	7.52	16.5	2510	1.48	0.58	2.70	0.14	46.9	8.2	15	11.45	25.7	3.36
W597316		4.44	0.39	7.20	20.0	2360	1.47	0.83	2.60	0.19	41.3	5.8	14	10.65	101.5	3.20
W597317		5.93	0.69	7.45	53.6	2280	1.50	1.65	2.65	0.12	46.0	5.6	15	11.60	207	3.84
W597318		4.27	0.25	7.27	10.3	2290	1.45	0.69	2.70	0.09	42.5	5.4	12	9.08	35.3	3.27
W597319		4.14	0.03	6.93	35.6	1250	2.06	0.11	2.82	0.24	59.4	6.1	20	15.20	7.2	2.28
W597320		6.10	0.02	6.94	37.3	1310	2.06	0.11	2.78	0.22	52.4	6.2	20	14.60	3.9	2.36

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279938

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597281		15.20	0.09	1.2	0.395	2.96	22.5	18.4	0.91	1730	7.86	0.57	6.2	2.5	540	436
W597282		18.80	0.12	2.5	0.060	2.96	33.8	83.3	0.90	1240	5.94	0.08	9.8	2.7	920	117.0
W597283		18.15	0.09	2.4	0.039	2.10	32.6	101.5	0.79	892	2.37	0.07	9.5	2.8	900	35.9
W597284		19.70	0.19	6.6	0.074	0.15	69.3	78.5	1.12	1060	2.04	0.02	30.7	35.7	3260	14.2
W597285		18.30	0.11	4.1	0.046	1.86	38.5	39.0	1.15	687	1.05	0.08	12.2	14.6	1390	11.2
W597286		13.30	0.08	0.9	1.560	2.54	19.1	16.1	0.68	2240	17.00	0.06	4.5	14.8	440	1605
W597287		18.20	0.10	2.9	0.027	2.44	26.4	17.4	1.05	489	0.79	0.68	8.1	6.4	820	18.0
W597288		17.35	0.15	2.4	0.034	2.66	30.4	17.4	1.16	528	0.70	0.19	8.3	4.7	780	21.9
W597289		17.75	0.14	2.4	0.033	2.62	30.0	21.6	1.05	501	0.61	0.19	8.2	4.6	800	16.7
W597290		18.80	0.10	2.8	0.033	2.55	35.8	34.3	0.97	554	1.11	0.14	10.3	4.4	890	19.2
W597291		18.00	0.14	2.7	0.036	2.52	37.2	30.5	0.93	670	1.33	0.50	11.1	3.5	940	15.5
W597292		17.75	0.14	3.2	0.040	2.57	25.8	16.0	1.20	550	0.56	0.51	7.1	10.0	820	14.3
W597293		17.20	0.10	2.2	0.616	3.67	25.8	9.9	1.38	2840	2.25	0.08	9.1	7.9	880	302
W597294		15.85	0.11	1.9	0.522	3.27	22.0	9.6	1.38	2610	2.41	0.12	8.1	8.3	840	355
W597295		17.90	0.11	2.1	0.382	3.27	17.8	7.6	0.62	888	6.33	0.06	6.4	9.5	810	320
W597296		18.10	0.12	3.9	0.026	2.47	26.4	23.2	0.86	548	2.45	0.08	8.8	18.2	690	33.8
W597297		18.25	0.14	2.9	0.029	2.60	30.9	19.2	1.00	531	0.71	0.10	8.6	15.0	730	77.0
W597298		17.50	0.12	2.6	0.030	2.69	23.9	26.0	0.86	447	0.35	0.09	8.3	12.7	750	12.2
W597299		0.53	0.16	0.1	0.005	0.07	1.3	1.0	1.98	124	0.06	0.06	0.3	0.6	60	0.6
W597300		18.80	0.20	2.7	0.032	2.74	26.3	31.5	0.77	435	0.36	0.07	9.3	11.9	790	11.1
W597301		19.25	0.21	3.2	0.031	2.50	29.4	46.3	1.11	590	0.46	0.13	9.1	16.4	740	12.7
W597302		19.25	0.16	3.6	0.026	2.00	31.1	265	0.90	577	0.84	0.30	8.9	17.6	750	14.2
W597303		19.15	0.13	4.4	0.030	1.74	33.5	263	0.53	451	1.21	0.31	9.6	21.4	640	43.1
W597304		16.45	0.12	1.6	0.202	2.96	24.6	33.0	0.65	1040	3.98	0.07	7.5	2.6	660	24.7
W597305		13.25	0.16	1.5	2.01	0.47	12.8	27.4	2.69	522	13.75	0.10	3.3	34.3	420	1080
W597306		16.15	0.11	1.6	0.205	2.82	23.8	30.3	0.60	1020	1.47	0.07	7.3	2.3	640	24.4
W597307		14.20	0.10	1.4	0.125	2.69	23.0	30.2	1.05	1100	1.20	0.07	6.8	1.9	600	21.1
W597308		14.45	0.11	1.5	0.099	2.69	25.6	13.6	1.10	1140	1.12	0.07	6.9	2.1	590	19.4
W597309		19.00	0.16	3.9	0.052	3.26	30.3	13.6	0.93	901	1.82	0.05	11.2	6.6	1060	79.9
W597310		18.55	0.14	3.8	0.033	3.31	31.9	14.9	1.04	1040	1.71	0.05	11.0	6.6	1060	20.5
W597311		17.10	0.14	1.5	0.309	3.08	26.8	12.8	0.89	984	8.14	1.50	7.7	2.8	630	21.4
W597312		16.75	0.13	1.4	0.245	2.66	27.5	12.5	1.07	1060	3.01	2.06	7.9	3.5	760	20.5
W597313		16.45	0.12	1.4	0.237	2.61	25.9	11.9	1.06	1060	2.88	2.04	7.5	3.3	750	19.3
W597314		16.10	0.12	1.3	0.289	2.68	31.3	21.2	0.92	1080	10.90	1.23	7.1	2.8	610	21.2
W597315		15.95	0.13	1.5	0.117	2.96	25.5	11.1	0.85	760	4.00	1.66	7.9	2.9	650	16.3
W597316		15.20	0.13	1.1	0.121	2.67	21.7	11.5	0.81	736	4.12	1.76	7.3	2.6	640	19.3
W597317		16.15	0.12	1.3	0.205	2.76	24.6	11.2	0.95	943	2.54	1.70	7.3	3.1	630	23.2
W597318		15.60	0.13	1.2	0.105	2.53	22.8	10.7	0.87	811	2.41	2.01	7.4	2.9	630	16.9
W597319		19.50	0.13	4.6	0.030	2.41	31.5	28.1	0.82	461	0.36	1.68	11.1	8.0	1070	15.3
W597320		19.50	0.12	4.7	0.029	2.45	27.9	29.1	0.82	453	0.34	1.96	11.1	8.0	1080	14.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279938

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597281		191.5	0.003	1.18	19.75	9.1	1	12.3	211	0.52	0.18	13.20	0.211	2.91	5.1	64
W597282		126.5	<0.002	0.34	14.85	5.7	1	2.1	209	0.66	<0.05	10.05	0.334	2.10	6.5	48
W597283		93.7	<0.002	0.08	19.55	5.3	1	1.7	161.0	0.62	<0.05	9.50	0.319	1.59	4.9	46
W597284		7.9	<0.002	0.06	23.2	13.5	<1	2.1	74.2	1.25	<0.05	7.89	0.828	0.23	16.3	113
W597285		75.7	<0.002	0.07	13.75	9.8	1	1.6	194.5	0.67	<0.05	8.13	0.442	1.31	4.0	89
W597286		148.5	<0.002	7.54	102.5	7.5	1	11.1	62.9	0.35	0.80	8.87	0.160	2.27	4.9	54
W597287		84.5	<0.002	0.02	11.05	7.8	<1	1.4	384	0.53	0.05	7.99	0.306	1.28	3.9	72
W597288		103.5	<0.002	0.04	10.55	7.0	<1	1.4	278	0.52	<0.05	8.26	0.274	1.28	4.4	70
W597289		99.3	<0.002	0.01	9.90	7.2	1	1.4	254	0.54	<0.05	8.42	0.284	1.31	3.2	67
W597290		94.7	<0.002	0.05	8.44	7.1	<1	1.8	318	0.66	<0.05	10.10	0.291	1.39	5.9	63
W597291		86.3	<0.002	0.02	6.11	6.3	<1	1.7	510	0.69	<0.05	10.25	0.280	1.25	6.6	57
W597292		98.5	<0.002	0.10	5.83	8.8	<1	1.5	400	0.47	<0.05	7.21	0.320	1.46	4.2	82
W597293		241	<0.002	1.43	10.10	10.3	<1	2.8	122.5	0.62	0.33	9.43	0.259	3.30	4.1	82
W597294		203	<0.002	1.75	11.55	9.3	1	2.8	152.5	0.57	0.46	8.18	0.246	2.81	3.8	80
W597295		164.0	<0.002	5.42	8.74	10.9	2	9.3	80.9	0.49	1.06	8.79	0.200	2.48	3.3	76
W597296		78.3	<0.002	0.19	8.15	5.5	<1	1.8	289	0.66	0.05	9.50	0.261	1.57	7.4	50
W597297		95.1	<0.002	0.07	5.51	5.8	1	1.5	437	0.63	<0.05	9.39	0.266	1.55	5.5	49
W597298		84.3	<0.002	0.04	5.08	5.3	1	1.4	250	0.64	<0.05	7.92	0.265	1.58	2.7	48
W597299		2.1	<0.002	<0.01	0.13	0.2	1	0.2	77.5	<0.05	<0.05	0.16	0.006	0.03	0.2	1
W597300		95.8	<0.002	0.03	5.39	5.6	1	1.5	200	0.66	<0.05	8.89	0.266	1.72	2.7	49
W597301		91.0	<0.002	0.03	7.13	6.0	1	1.6	266	0.68	<0.05	9.40	0.268	1.68	3.2	52
W597302		71.4	<0.002	0.17	5.27	5.9	1	1.6	229	0.68	<0.05	10.15	0.283	1.44	3.6	56
W597303		72.3	<0.002	0.18	7.60	5.7	1	1.9	186.5	0.72	<0.05	11.45	0.264	1.26	5.5	48
W597304		125.5	<0.002	0.34	10.60	12.1	1	2.4	135.5	0.58	0.11	12.05	0.266	2.05	2.9	78
W597305		20.2	0.018	6.96	50.9	6.5	38	19.5	79.2	0.25	0.33	2.82	0.120	7.58	2.7	77
W597306		112.0	<0.002	0.26	8.16	11.4	<1	2.4	117.0	0.59	0.07	12.40	0.245	1.97	2.6	72
W597307		106.5	<0.002	0.43	9.70	9.9	1	2.2	195.0	0.54	0.06	11.80	0.253	1.91	2.8	71
W597308		111.0	<0.002	0.34	6.28	10.4	1	1.7	172.5	0.57	<0.05	11.70	0.248	2.32	3.6	69
W597309		148.5	<0.002	0.70	7.39	7.3	1	1.6	181.0	0.72	<0.05	9.12	0.289	3.75	6.1	63
W597310		149.5	<0.002	0.86	7.98	6.9	1	1.7	205	0.72	<0.05	9.02	0.293	3.38	5.7	62
W597311		146.0	0.003	0.90	3.19	12.5	1	2.5	265	0.62	0.34	13.10	0.267	2.00	4.7	77
W597312		104.5	<0.002	0.53	2.44	13.8	1	2.2	371	0.61	0.18	13.75	0.302	1.36	4.3	93
W597313		101.5	<0.002	0.50	2.45	13.5	1	2.2	369	0.58	0.19	13.20	0.295	1.37	4.3	91
W597314		129.5	0.004	0.79	5.22	12.0	1	2.6	246	0.59	0.19	14.35	0.250	1.65	5.7	73
W597315		114.5	0.002	0.24	4.00	11.4	1	2.0	323	0.66	0.09	13.80	0.278	1.45	4.8	77
W597316		96.8	<0.002	0.25	5.71	10.8	1	1.5	337	0.55	0.14	10.80	0.267	1.36	3.3	75
W597317		119.0	<0.002	0.70	6.60	12.2	1	1.7	300	0.60	0.24	11.00	0.278	1.65	4.0	85
W597318		89.1	<0.002	0.11	3.00	11.5	1	1.6	374	0.59	0.05	11.70	0.272	1.16	3.3	78
W597319		81.7	<0.002	0.03	14.85	5.0	<1	1.6	439	0.72	<0.05	9.72	0.306	0.83	3.8	51
W597320		75.9	<0.002	0.03	13.60	4.6	1	1.7	449	0.70	<0.05	8.85	0.308	0.84	3.6	51

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279938

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597281		2.3	13.8	516	35.6	0.239
W597282		2.4	13.3	257	75.7	0.010
W597283		2.2	12.8	272	71.9	<0.005
W597284		19.8	25.7	154	280	<0.005
W597285		5.8	18.2	82	156.0	<0.005
W597286		7.4	8.9	3310	22.0	1.140
W597287		1.4	12.8	70	97.7	<0.005
W597288		1.1	12.7	87	75.5	0.011
W597289		1.2	12.7	78	81.7	<0.005
W597290		2.1	13.3	81	95.3	<0.005
W597291		1.2	13.6	70	93.7	<0.005
W597292		1.0	14.0	101	115.0	0.009
W597293		2.8	11.1	593	73.0	0.035
W597294		2.8	10.6	893	66.9	0.055
W597295		7.2	7.2	1200	73.8	0.183
W597296		1.2	11.5	98	145.0	0.007
W597297		1.1	11.9	115	97.2	<0.005
W597298		1.2	10.6	76	89.6	<0.005
W597299		<0.1	2.2	3	2.5	<0.005
W597300		1.6	11.0	73	85.3	<0.005
W597301		1.4	12.6	75	111.0	<0.005
W597302		1.3	12.0	67	133.5	<0.005
W597303		2.2	11.2	71	169.5	0.019
W597304		3.3	15.4	114	44.0	0.029
W597305		2.1	10.9	7610	48.6	0.289
W597306		3.1	14.2	109	47.7	0.016
W597307		2.2	15.0	94	40.4	0.017
W597308		2.1	15.4	80	41.3	0.013
W597309		2.4	13.8	266	145.5	0.030
W597310		3.4	13.2	57	147.5	0.062
W597311		1.7	16.4	70	40.8	0.047
W597312		1.7	18.1	80	39.8	0.057
W597313		1.5	17.2	79	40.0	0.051
W597314		1.7	16.0	99	38.1	0.024
W597315		2.3	15.8	64	42.3	0.007
W597316		1.7	14.3	61	31.5	0.012
W597317		3.7	15.3	74	33.6	0.018
W597318		2.6	14.6	60	31.3	0.007
W597319		1.0	8.3	95	179.0	<0.005
W597320		1.0	7.4	90	178.5	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279938

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19279942

Project: Klaza

P.O. No.: 19-144

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279942

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597321		6.32	0.02	6.65	32.1	1610	2.09	0.11	2.73	0.27	53.7	6.2	20	12.60	2.7	2.35
W597322		6.17	0.02	6.85	33.7	1570	2.06	0.14	2.59	0.29	57.8	6.4	20	12.65	3.8	2.31
W597323		6.27	0.01	6.64	35.1	1040	1.97	0.10	2.46	0.27	54.3	7.0	19	13.15	2.9	2.20
W597324		6.65	0.01	6.84	37.6	990	2.05	0.13	2.50	0.22	59.7	6.4	20	13.85	3.0	2.27
W597325		6.38	0.04	7.01	38.0	1130	2.02	0.13	2.37	0.27	61.2	7.0	20	13.90	8.0	2.11
W597326		0.12	19.50	3.41	265	130	0.47	10.45	2.17	51.2	22.9	18.4	48	0.97	2250	8.88
W597327		5.41	0.05	7.24	34.2	1470	2.09	0.11	2.59	0.36	64.5	7.2	21	14.40	8.8	2.16
W597328		5.91	0.07	6.84	32.8	2220	2.10	0.11	2.31	0.34	60.7	6.7	20	14.25	12.6	2.06
W597329		5.99	0.03	6.69	31.0	1440	2.07	0.10	2.59	0.25	58.2	6.5	19	13.60	6.7	2.39
W597330		6.46	0.02	6.73	26.5	2070	2.03	0.09	3.05	0.24	61.4	6.6	21	17.10	5.1	2.30
W597331		5.53	0.01	6.55	24.2	1010	1.99	0.10	2.92	0.12	58.6	6.7	20	15.85	3.8	2.21
W597332		6.30	0.06	6.88	25.9	900	1.92	0.15	2.83	0.18	61.6	6.7	22	15.15	10.1	2.28
W597333		<0.02	0.04	6.77	27.7	900	2.13	0.12	2.86	0.16	58.4	6.8	21	15.05	10.3	2.31
W597334		4.40	0.02	6.26	31.1	980	1.91	0.15	2.70	0.16	52.6	6.5	33	14.15	6.4	2.33
W597335		5.06	0.05	7.22	28.7	1360	1.85	0.17	2.93	0.17	64.4	6.8	24	15.15	10.2	2.89
W597336		6.84	0.63	7.07	49.6	3810	1.66	1.44	2.78	0.98	60.2	11.9	14	23.9	66.4	2.98
W597337		6.69	0.65	7.14	30.6	2980	1.31	1.72	2.83	1.99	54.3	10.6	10	12.00	51.0	2.97
W597338		6.48	0.49	6.60	38.4	1150	1.40	0.63	2.69	2.04	46.6	7.2	9	25.8	48.2	2.78
W597339		6.82	0.32	8.08	21.8	2060	1.37	0.70	1.28	0.69	54.2	8.0	12	21.7	90.7	3.29
W597340		0.26	41.1	5.73	2520	470	1.06	38.5	1.62	48.0	35.2	16.7	23	9.89	1180	9.07
W597341		5.97	1.62	7.24	87.6	1080	1.34	1.03	1.61	4.08	46.6	9.2	11	18.00	347	3.36
W597342		5.46	0.87	7.21	34.5	2520	1.27	0.35	1.79	0.97	41.9	9.1	10	23.2	302	3.16
W597343		6.04	0.36	7.33	13.3	2270	1.43	0.49	2.74	0.20	50.6	7.4	11	16.05	88.8	3.15
W597344		6.18	2.00	7.04	91.8	1900	1.25	2.16	1.83	0.65	47.3	9.1	10	23.2	482	3.25
W597345		6.11	0.75	7.07	27.3	2390	1.30	3.44	2.31	0.66	43.7	7.1	12	13.35	205	3.09
W597346		6.57	0.97	6.95	22.0	2230	1.49	1.28	2.59	0.41	43.7	8.4	11	13.25	160.0	2.97
W597347		2.74	0.95	7.41	22.4	2370	1.59	0.91	2.70	0.46	52.6	9.7	13	14.60	179.5	3.18
W597348		6.26	1.71	7.18	35.2	2250	1.43	1.26	2.70	0.49	48.2	9.1	12	18.50	168.5	3.29
W597349		6.49	1.83	6.97	52.0	2520	1.39	5.39	2.08	2.05	45.7	8.0	12	24.6	135.0	3.19
W597350		6.18	2.88	6.85	74.6	2180	1.72	1.29	2.64	6.22	50.6	7.5	9	29.4	87.6	3.40
W597351		6.60	3.03	6.39	65.6	2800	1.31	1.21	2.32	10.35	46.6	5.0	8	17.20	71.8	2.99
W597352		6.35	2.96	7.23	57.8	3430	1.52	1.61	3.08	5.91	56.9	5.7	8	25.1	68.2	3.29
W597353		5.71	1.11	7.30	11.8	2220	1.57	0.93	2.20	0.26	59.1	5.0	12	11.20	307	2.98
W597354		5.03	0.01	0.19	<0.2	30	0.14	0.01	32.2	0.02	1.19	0.6	1	0.11	3.2	0.15
W597355		7.06	0.40	7.44	6.0	2220	1.60	1.12	2.39	0.12	45.2	5.6	11	15.95	75.3	2.81
W597356		4.07	0.81	7.52	5.9	2190	1.53	0.32	2.44	0.20	51.7	8.6	10	9.00	207	3.03
W597357		6.08	0.53	7.60	12.8	1990	1.53	0.59	2.42	4.44	54.6	6.8	12	13.40	108.5	2.95
W597358		7.29	0.26	7.33	9.2	2180	1.49	0.35	2.52	0.19	47.7	7.2	11	13.35	71.4	2.72
W597359		5.83	0.29	7.48	7.2	2290	1.47	0.41	2.60	0.13	46.5	8.6	12	10.60	75.9	2.83
W597360		7.49	0.24	7.65	4.8	2150	1.73	0.31	2.88	0.88	52.9	8.5	15	11.60	33.2	3.23

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597321		19.00	0.17	4.0	0.026	2.67	26.4	39.7	0.83	459	0.39	1.73	10.4	8.5	1100	15.8
W597322		19.30	0.19	4.2	0.026	2.71	28.2	38.1	0.82	453	0.38	1.76	10.4	8.4	1080	15.6
W597323		19.55	0.16	3.9	0.025	2.36	27.0	36.8	0.75	401	0.37	1.80	10.4	8.4	1030	14.0
W597324		20.0	0.18	4.3	0.025	2.46	30.4	32.5	0.78	410	0.32	1.73	10.8	8.3	1080	14.4
W597325		19.40	0.18	4.1	0.029	2.33	31.1	36.5	0.75	412	0.32	1.68	10.5	8.2	1080	14.9
W597326		12.90	0.19	1.2	1.985	0.47	11.2	28.9	2.61	517	13.15	0.10	3.1	34.4	420	1065
W597327		20.7	0.20	4.3	0.028	2.42	33.6	34.2	0.77	352	0.35	1.55	10.8	8.3	1110	16.7
W597328		20.5	0.20	4.3	0.028	2.38	30.5	33.1	0.78	417	0.39	1.43	10.9	8.9	1080	15.5
W597329		18.90	0.19	4.1	0.029	2.31	30.2	29.6	0.81	420	0.35	1.51	10.2	8.4	1060	17.2
W597330		19.55	0.17	4.3	0.027	2.37	29.7	39.5	0.82	423	0.45	0.51	10.9	8.3	1140	16.7
W597331		19.15	0.17	4.3	0.024	2.40	29.6	22.1	0.78	386	0.53	1.18	10.5	8.6	1060	15.9
W597332		19.20	0.17	4.5	0.027	2.50	31.8	26.5	0.76	373	0.42	1.16	10.7	9.1	1100	18.9
W597333		19.85	0.19	4.5	0.028	2.50	28.5	27.2	0.76	377	0.42	1.19	11.0	9.0	1080	19.2
W597334		18.70	0.16	4.3	0.028	2.31	26.1	20.3	0.71	388	0.45	1.46	10.3	14.9	1060	17.8
W597335		19.35	0.20	4.5	0.034	2.59	33.0	28.2	0.91	516	0.82	0.97	11.2	9.2	1370	19.1
W597336		18.25	0.18	2.2	0.146	2.73	31.5	34.9	0.79	601	5.72	0.53	8.8	5.3	900	59.0
W597337		16.80	0.18	1.1	0.152	3.80	29.0	20.9	0.74	536	1.46	0.89	6.8	2.6	630	92.5
W597338		16.00	0.16	1.2	0.087	2.45	23.6	42.7	0.77	966	2.44	0.08	7.6	2.4	580	35.5
W597339		18.25	0.16	1.2	0.138	2.78	27.8	38.5	0.48	505	3.35	0.24	8.8	2.4	700	16.4
W597340		14.00	0.15	0.7	1.630	2.62	18.6	16.2	0.68	2290	16.45	0.06	4.5	15.4	430	1665
W597341		16.20	0.14	1.0	0.239	1.99	24.3	81.0	0.58	852	4.13	0.05	7.7	2.9	670	147.0
W597342		17.00	0.13	0.9	0.107	2.22	21.2	37.3	0.59	632	7.14	0.38	7.8	2.9	620	25.6
W597343		17.30	0.18	1.0	0.076	2.51	27.2	15.3	0.80	570	3.17	2.11	8.0	2.9	670	17.5
W597344		16.35	0.14	0.9	0.188	2.26	24.1	38.6	0.63	605	2.66	0.66	7.4	2.6	640	22.6
W597345		16.30	0.20	0.9	0.134	2.74	22.3	19.7	0.69	494	3.62	1.49	7.5	2.5	630	23.5
W597346		15.45	0.17	0.8	0.130	2.54	22.5	15.4	0.77	572	4.13	2.09	7.3	2.9	620	21.7
W597347		17.20	0.20	0.9	0.150	2.65	27.5	17.1	0.82	596	4.48	2.17	8.1	3.1	650	25.5
W597348		16.15	0.19	0.9	0.105	2.44	25.5	15.2	0.80	657	3.01	2.10	7.7	2.9	620	38.4
W597349		16.50	0.16	0.9	0.283	2.64	23.3	47.8	0.70	696	4.98	0.51	7.3	2.7	600	124.0
W597350		15.95	0.16	1.2	0.154	2.56	25.7	25.1	0.97	1050	2.05	0.09	7.5	2.6	670	253
W597351		15.30	0.16	1.4	0.151	2.50	25.5	17.8	0.95	1000	2.11	0.07	7.0	2.3	650	373
W597352		16.85	0.19	1.3	0.146	2.82	31.3	14.7	1.15	1060	2.15	0.07	7.6	2.5	670	258
W597353		16.65	0.19	1.0	0.161	2.92	31.5	12.8	0.76	409	5.94	2.23	8.2	2.9	590	19.3
W597354		0.65	0.10	0.1	<0.005	0.04	1.2	1.2	1.71	124	0.09	0.06	0.2	0.7	70	1.8
W597355		15.85	0.18	1.0	0.127	2.97	24.0	11.2	0.79	401	0.88	2.06	7.8	2.5	560	15.7
W597356		17.05	0.16	1.1	0.121	2.78	26.9	12.8	0.88	461	1.51	2.28	8.5	2.8	630	14.6
W597357		16.30	0.15	1.1	0.100	2.84	29.9	13.1	0.82	435	0.96	1.86	8.0	2.9	600	24.8
W597358		16.55	0.16	1.1	0.071	2.84	25.3	11.4	0.73	419	0.95	1.95	8.0	2.7	590	17.5
W597359		16.40	0.15	1.0	0.081	2.87	24.0	10.5	0.79	473	1.03	2.18	7.7	2.9	610	16.1
W597360		17.80	0.17	1.3	0.091	2.71	26.5	11.3	0.86	606	0.73	2.18	9.0	3.2	660	27.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597321		73.8	<0.002	0.02	13.65	4.8	<1	1.8	444	0.69	<0.05	8.38	0.307	0.91	3.3	50
W597322		77.5	<0.002	0.02	14.55	4.9	<1	1.8	452	0.69	<0.05	9.07	0.305	1.04	3.3	50
W597323		72.5	<0.002	0.02	16.40	4.8	1	1.7	424	0.66	<0.05	8.49	0.290	0.85	3.3	49
W597324		75.4	<0.002	0.02	18.55	5.0	1	1.8	433	0.71	<0.05	9.37	0.306	0.86	3.3	50
W597325		75.9	<0.002	0.03	19.45	5.0	<1	1.8	422	0.69	<0.05	9.53	0.301	0.84	3.6	50
W597326		16.7	0.014	7.01	49.6	6.4	31	20.6	77.3	0.22	0.35	2.59	0.116	7.03	2.3	74
W597327		81.0	<0.002	0.05	20.7	5.1	1	1.9	394	0.68	<0.05	9.95	0.314	0.81	3.7	52
W597328		77.6	<0.002	0.06	26.1	5.3	1	1.8	340	0.70	<0.05	9.28	0.304	0.84	3.9	51
W597329		72.8	<0.002	0.04	21.4	4.9	<1	1.8	387	0.63	<0.05	9.20	0.295	0.77	3.2	50
W597330		72.8	<0.002	0.05	20.1	5.4	1	1.8	318	0.69	<0.05	8.97	0.320	0.84	3.6	54
W597331		75.8	<0.002	0.02	16.40	5.3	<1	1.7	352	0.69	<0.05	9.12	0.307	0.90	3.7	51
W597332		78.9	<0.002	0.02	20.9	5.3	1	1.8	417	0.72	<0.05	9.71	0.314	0.95	3.8	52
W597333		77.6	<0.002	0.02	21.1	5.4	<1	1.9	421	0.72	<0.05	9.37	0.317	0.97	4.0	53
W597334		68.2	<0.002	0.02	14.85	5.1	1	1.8	442	0.64	<0.05	8.24	0.306	0.81	3.2	51
W597335		79.3	<0.002	0.02	14.50	6.2	1	1.7	430	0.66	<0.05	8.43	0.365	0.89	4.6	63
W597336		104.5	<0.002	0.84	28.1	9.7	<1	2.9	229	0.54	0.40	10.30	0.294	1.66	4.9	72
W597337		151.5	<0.002	1.02	5.84	11.6	1	4.5	212	0.49	0.44	14.20	0.243	2.54	4.0	73
W597338		95.9	<0.002	0.29	25.2	10.5	1	2.2	110.5	0.59	0.10	12.00	0.240	1.81	3.5	65
W597339		120.5	<0.002	0.27	21.3	12.2	1	2.5	116.5	0.62	0.14	14.05	0.299	1.76	3.1	77
W597340		141.5	0.004	7.91	108.5	8.3	2	11.6	62.4	0.34	0.70	8.21	0.159	2.26	4.8	55
W597341		81.8	<0.002	0.40	116.0	11.3	1	2.4	112.5	0.51	0.09	10.75	0.275	1.53	2.9	77
W597342		89.9	<0.002	0.18	45.0	11.4	1	3.0	136.0	0.53	0.05	10.60	0.268	1.40	3.2	73
W597343		105.0	0.002	0.18	4.58	12.3	<1	2.4	384	0.54	0.14	11.50	0.281	1.40	2.9	77
W597344		99.7	<0.002	0.53	125.0	11.1	1	3.4	194.0	0.50	1.12	10.80	0.263	1.44	2.8	72
W597345		105.5	<0.002	0.40	6.25	11.3	<1	2.8	279	0.51	1.53	10.80	0.272	1.70	2.7	73
W597346		99.6	<0.002	0.21	2.66	10.5	1	2.2	381	0.52	0.36	10.00	0.263	1.48	2.7	72
W597347		110.0	<0.002	0.27	2.54	11.8	1	2.5	397	0.54	0.21	11.75	0.278	1.54	3.2	76
W597348		99.1	<0.002	0.41	3.51	11.6	1	2.4	412	0.54	0.07	10.85	0.280	1.49	3.4	77
W597349		114.5	<0.002	0.59	37.6	10.9	1	3.0	167.0	0.56	0.13	10.75	0.255	1.73	3.9	71
W597350		98.5	<0.002	0.37	27.6	9.3	1	4.5	129.5	0.52	0.08	10.55	0.268	1.73	3.9	64
W597351		102.5	<0.002	0.36	17.00	6.0	1	6.3	97.2	0.50	0.09	8.17	0.235	1.65	4.4	43
W597352		124.0	<0.002	0.30	17.00	9.0	1	5.8	127.0	0.50	0.27	10.90	0.267	1.92	3.3	61
W597353		121.5	<0.002	0.31	2.32	10.8	<1	4.0	352	0.63	0.06	13.35	0.255	1.60	4.3	69
W597354		1.1	<0.002	<0.01	0.10	0.2	1	<0.2	80.3	<0.05	<0.05	0.13	0.005	<0.02	0.2	1
W597355		115.5	<0.002	0.16	2.46	10.0	<1	2.1	348	0.65	0.09	13.85	0.248	1.39	4.2	66
W597356		109.5	<0.002	0.11	1.92	11.7	1	2.1	390	0.67	0.05	13.95	0.265	1.23	4.0	71
W597357		120.5	<0.002	0.29	2.40	10.9	1	2.1	309	0.65	0.08	14.45	0.257	1.35	5.0	68
W597358		111.0	<0.002	0.17	2.12	10.9	1	2.0	330	0.63	0.06	12.60	0.250	1.22	4.0	67
W597359		110.0	<0.002	0.17	1.14	11.0	<1	1.7	380	0.54	0.12	10.35	0.254	1.20	3.5	70
W597360		110.5	<0.002	0.08	1.31	12.4	1	2.0	374	0.72	0.06	14.35	0.282	1.24	4.5	76

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597321		0.9	8.0	85	171.0	<0.005
W597322		0.9	8.3	93	169.0	<0.005
W597323		1.0	8.3	100	168.5	<0.005
W597324		1.2	8.8	80	178.5	<0.005
W597325		1.2	8.8	85	176.0	<0.005
W597326		1.8	10.0	7430	44.5	0.280
W597327		1.1	9.2	122	182.5	<0.005
W597328		1.2	9.1	101	181.0	<0.005
W597329		1.2	8.4	89	175.5	<0.005
W597330		1.4	9.0	89	184.5	<0.005
W597331		1.3	8.9	77	183.0	<0.005
W597332		1.4	9.2	82	187.0	<0.005
W597333		1.3	9.1	83	189.5	<0.005
W597334		1.2	8.5	79	177.5	<0.005
W597335		1.1	10.8	92	197.5	<0.005
W597336		1.7	17.0	125	84.4	0.018
W597337		2.3	18.1	220	26.9	0.028
W597338		3.3	16.2	258	32.9	0.090
W597339		4.9	16.8	112	36.0	0.017
W597340		6.8	9.1	3420	22.0	1.660
W597341		6.7	16.4	380	27.2	0.045
W597342		6.3	15.1	103	26.5	0.025
W597343		1.3	17.4	54	26.4	0.014
W597344		7.5	16.0	95	21.8	0.055
W597345		2.0	16.0	69	22.7	0.033
W597346		1.2	15.3	65	21.8	0.028
W597347		1.1	17.6	70	23.1	0.036
W597348		1.4	17.2	85	20.5	0.040
W597349		4.4	15.9	222	25.3	0.067
W597350		2.9	14.8	594	36.7	0.118
W597351		3.4	10.4	931	47.1	0.141
W597352		2.5	15.6	578	38.4	0.079
W597353		1.0	17.7	51	26.7	0.109
W597354		<0.1	2.8	6	2.2	<0.005
W597355		1.2	16.8	41	25.8	0.029
W597356		1.0	18.3	42	29.3	0.059
W597357		1.2	16.4	331	27.1	0.034
W597358		1.0	15.7	43	29.0	0.012
W597359		0.8	16.4	38	26.4	0.024
W597360		1.1	20.0	113	32.1	0.018

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279942

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE WH19279948

Project: Klaza

P.O. No.: 19-145

This report is for 32 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279948

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
W597361		5.39	0.28	7.14	8.4	2250	1.48	0.49	2.80	1.76	38.0	7.4	12	9.95	20.3	2.98
W597362		6.56	0.67	7.12	61.3	1570	1.51	2.00	2.19	1.25	48.5	8.0	10	14.75	55.8	3.48
W597363		4.90	0.17	7.22	10.0	2210	1.49	1.09	2.66	0.11	41.1	15.7	9	11.15	41.7	3.01
W597364		6.02	0.37	7.21	38.0	2160	1.45	1.52	2.43	4.71	49.5	7.9	9	11.95	30.2	2.97
W597365		<0.02	0.33	7.48	35.5	2210	1.51	1.53	2.45	4.29	52.9	7.5	9	12.20	30.6	3.00
W597366		4.54	0.32	6.72	15.6	1830	1.40	1.16	2.82	0.19	38.4	18.3	8	19.00	94.8	2.58
W597367		7.11	0.22	7.16	5.9	2090	1.57	0.78	2.83	0.12	49.0	7.2	9	17.05	80.3	2.92
W597368		6.69	0.24	7.49	13.5	2120	1.57	0.51	2.40	0.20	64.5	7.0	10	15.05	36.6	2.91
W597369		5.29	0.10	7.09	5.3	2130	1.66	0.31	2.78	0.14	42.1	7.4	10	11.90	16.0	3.09
W597370		0.26	41.7	5.98	2670	120	1.29	37.6	1.77	48.4	35.7	19.6	25	10.55	1250	9.50
W597371		5.70	0.11	7.66	7.1	2290	1.70	0.53	2.81	0.18	49.4	7.6	13	6.91	10.6	3.06
W597372		3.08	0.86	7.17	22.3	1920	1.63	1.52	2.74	2.60	52.7	7.9	12	18.00	26.9	3.66
W597373		6.30	0.13	7.34	8.4	2350	1.87	0.43	2.81	0.22	40.2	7.5	12	8.67	11.4	3.10
W597374		4.60	0.15	7.27	13.5	2200	1.82	0.80	2.48	0.14	40.5	7.6	9	17.20	19.1	3.07
W597375		4.97	<0.01	0.12	0.6	40	0.10	0.01	33.3	<0.02	1.07	0.6	1	0.06	1.4	0.13
W597376		6.81	0.10	7.39	6.6	2580	1.91	0.34	2.71	0.14	43.7	7.4	11	7.80	15.7	3.12
W597377		6.25	0.12	7.57	6.9	2470	1.88	0.27	2.82	0.22	43.2	8.1	11	7.00	14.3	3.13
W597378		6.60	0.08	7.57	6.0	2390	1.92	0.22	2.74	0.17	49.0	7.9	11	4.18	14.8	3.00
W597379		4.80	0.15	7.31	16.6	2180	1.89	0.64	2.50	0.11	43.1	18.2	10	12.20	9.9	3.33
W597380		2.15	0.10	7.50	14.6	2270	1.84	0.53	2.50	0.12	49.7	16.9	10	11.45	8.2	3.17
W597381		6.55	0.09	7.48	7.9	2510	1.86	0.43	2.58	0.23	43.8	8.0	11	10.95	10.1	3.15
W597382		7.01	0.06	7.56	6.5	2370	1.92	0.24	2.89	0.13	42.2	7.5	10	11.00	8.1	3.28
W597383		5.05	0.06	7.44	7.1	2410	1.96	0.19	2.87	0.14	42.0	7.7	11	11.95	8.7	3.14
W597384		5.70	0.09	7.76	6.8	2520	1.96	0.26	2.89	0.14	42.5	7.8	15	14.40	11.0	3.38
W597385		0.11	16.80	3.35	276	110	0.53	9.62	2.29	46.6	21.5	17.6	46	0.90	2170	8.84
W597386		5.02	0.32	7.65	12.7	2410	1.69	0.58	2.47	0.37	42.6	12.0	15	10.45	50.9	3.38
W597387		6.86	0.17	7.58	9.6	2390	1.73	0.40	2.74	0.39	44.2	8.1	10	9.39	15.5	3.09
W597388		5.75	0.50	7.64	16.0	2550	1.80	0.63	2.76	0.52	44.9	9.3	12	9.14	20.0	3.27
W597389		6.88	0.47	7.62	29.4	2170	1.72	4.66	2.74	0.27	42.3	9.1	11	9.78	69.5	3.66
W597390		6.53	0.35	7.60	54.6	2350	1.67	1.77	2.68	0.21	43.3	7.9	11	10.95	48.6	3.60
W597391		5.35	0.32	7.55	18.2	2510	1.59	0.51	3.03	0.20	41.5	9.0	11	11.10	25.1	3.28
W597392		3.37	0.68	7.31	13.9	2360	1.65	1.05	2.95	0.29	40.9	9.8	10	16.80	34.6	3.27

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279948

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W597361		15.30	0.11	1.0	0.068	2.77	19.4	8.9	0.77	582	2.44	2.21	7.3	2.5	600	80.4
W597362		17.70	0.12	1.1	0.160	3.27	26.8	11.1	0.76	464	1.82	1.36	7.4	2.8	600	66.6
W597363		15.80	0.12	1.1	0.108	2.78	22.3	11.1	0.75	428	1.07	2.05	7.6	2.8	610	15.5
W597364		16.10	0.13	1.1	0.111	2.96	28.0	10.6	0.72	411	0.73	1.94	7.4	2.6	580	33.1
W597365		16.40	0.15	1.1	0.116	3.04	30.5	10.8	0.75	416	0.70	1.99	7.4	2.6	570	31.4
W597366		15.25	0.12	1.0	0.101	2.78	20.3	12.8	0.61	428	1.11	1.21	7.1	2.7	550	18.7
W597367		16.50	0.14	1.2	0.094	2.69	27.2	10.2	0.68	432	0.42	2.06	8.1	2.5	600	15.2
W597368		17.15	0.15	1.2	0.064	2.91	37.0	14.1	0.70	434	2.63	1.93	8.2	2.5	620	21.5
W597369		16.55	0.14	1.2	0.067	2.64	21.4	10.5	0.76	551	0.62	2.33	8.3	2.7	620	16.5
W597370		14.70	0.12	1.0	1.635	2.74	17.7	17.2	0.70	2350	18.90	0.06	5.4	15.7	460	1710
W597371		16.75	0.11	1.2	0.086	2.83	24.3	11.9	0.88	475	5.23	2.37	9.2	2.8	630	20.2
W597372		16.95	0.13	1.1	0.217	2.80	25.2	15.1	0.80	675	10.15	1.39	8.6	2.7	610	61.8
W597373		15.80	0.13	1.0	0.068	2.71	20.6	12.7	0.87	538	3.79	2.33	8.6	2.9	650	17.2
W597374		15.35	0.11	0.9	0.080	2.68	21.2	20.7	0.64	511	5.65	1.14	8.0	2.4	630	14.9
W597375		0.37	0.15	<0.1	<0.005	0.04	1.2	1.2	1.87	128	<0.05	0.06	0.1	0.6	70	0.5
W597376		15.45	0.15	1.0	0.054	2.59	22.5	12.5	0.90	510	11.15	2.31	8.2	2.7	650	15.1
W597377		16.20	0.13	1.0	0.057	2.72	22.8	13.6	0.94	520	2.31	2.36	8.3	2.8	640	20.2
W597378		15.75	0.14	1.0	0.051	2.77	25.4	11.7	0.91	513	1.07	2.36	8.5	2.7	620	15.4
W597379		15.55	0.14	1.0	0.047	2.68	23.3	13.9	0.78	431	1.51	1.90	8.2	2.8	620	13.6
W597380		15.40	0.14	1.0	0.047	2.79	26.7	12.9	0.79	422	1.80	1.97	7.9	2.6	620	13.0
W597381		15.60	0.12	1.0	0.055	2.67	23.7	18.8	0.85	487	0.61	2.29	8.0	2.7	620	15.0
W597382		16.15	0.13	1.1	0.049	2.63	21.6	17.9	0.93	567	2.83	2.42	9.1	2.7	760	14.2
W597383		16.00	0.12	1.1	0.042	2.71	21.7	17.0	0.84	607	3.92	2.29	8.7	2.8	640	15.7
W597384		16.20	0.11	0.9	0.053	2.67	21.6	17.1	0.92	628	0.90	2.21	9.0	2.8	680	13.4
W597385		11.45	0.14	1.3	1.770	0.47	11.7	29.4	2.62	505	12.55	0.10	2.8	28.9	410	1065
W597386		16.10	0.12	0.8	0.078	2.68	22.6	14.6	0.95	373	20.7	2.18	7.6	2.7	660	25.0
W597387		15.40	0.13	0.8	0.071	2.65	23.1	14.9	0.93	438	16.40	2.24	8.1	2.5	650	23.7
W597388		16.95	0.13	0.9	0.108	2.69	22.4	13.7	0.95	527	2.92	2.35	8.6	2.6	670	55.7
W597389		16.85	0.12	0.8	0.136	2.55	22.1	17.1	0.99	458	2.09	2.07	8.4	2.7	720	36.9
W597390		16.20	0.12	0.8	0.103	2.83	23.2	13.4	0.85	426	0.48	1.80	7.5	2.6	670	31.1
W597391		16.40	0.12	0.8	0.066	2.56	22.0	13.8	0.87	477	0.79	2.31	8.3	2.7	670	35.4
W597392		15.90	0.14	0.8	0.085	2.53	21.7	14.8	0.77	516	1.39	2.11	8.1	2.7	640	44.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279948

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W597361		94.2	<0.002	0.22	1.21	9.4	1	1.9	373	0.60	0.09	10.55	0.259	1.22	3.7	71
W597362		152.5	<0.002	1.58	3.32	11.0	1	6.7	227	0.59	0.26	12.25	0.241	2.02	4.4	71
W597363		98.9	<0.002	0.37	2.62	9.7	1	2.1	340	0.63	0.27	10.90	0.264	1.36	3.7	72
W597364		116.0	<0.002	0.50	2.57	9.7	1	2.3	318	0.54	0.25	11.80	0.243	1.37	3.4	65
W597365		124.5	<0.002	0.48	2.64	10.0	1	2.4	323	0.57	0.23	12.50	0.252	1.43	3.6	67
W597366		104.0	<0.002	0.63	3.83	9.4	1	2.3	224	0.55	0.31	11.30	0.240	1.50	4.6	66
W597367		104.5	<0.002	0.21	2.51	10.5	1	2.3	346	0.65	0.08	13.10	0.256	1.24	3.4	72
W597368		117.5	<0.002	0.24	3.53	12.0	1	3.0	311	0.65	0.06	16.65	0.262	1.34	3.9	72
W597369		95.4	<0.002	0.06	2.12	11.8	1	2.3	369	0.63	<0.05	10.90	0.268	1.18	3.7	76
W597370		151.5	0.003	8.07	108.5	8.9	2	11.8	65.0	0.41	0.86	9.85	0.170	2.50	6.1	58
W597371		97.6	<0.002	0.09	0.99	11.2	1	2.1	421	0.75	<0.05	16.45	0.273	1.30	5.2	73
W597372		104.0	0.002	0.36	3.12	10.8	<1	4.7	266	0.72	0.07	15.15	0.255	1.66	5.3	71
W597373		98.0	<0.002	0.11	1.22	11.4	1	2.0	391	0.63	0.12	10.80	0.272	1.14	3.4	76
W597374		102.0	<0.002	0.48	6.88	11.0	1	2.6	220	0.58	0.18	10.10	0.270	1.28	3.2	73
W597375		0.9	<0.002	0.01	0.08	0.2	1	<0.2	80.3	<0.05	<0.05	0.11	0.005	0.02	1.2	1
W597376		92.9	0.002	0.18	1.23	11.4	<1	2.1	417	0.61	0.06	11.20	0.271	1.03	3.7	74
W597377		95.0	<0.002	0.08	0.94	11.5	<1	1.9	430	0.58	<0.05	11.00	0.275	1.01	3.2	75
W597378		95.3	<0.002	0.09	0.76	11.2	1	1.8	414	0.64	<0.05	12.85	0.267	0.96	3.9	72
W597379		110.0	<0.002	0.89	2.68	11.3	1	2.4	326	0.63	0.22	12.65	0.253	1.16	3.8	72
W597380		115.0	<0.002	0.76	2.49	10.9	1	2.4	336	0.62	0.14	13.55	0.254	1.21	3.9	71
W597381		101.0	<0.002	0.42	2.37	11.1	1	2.2	383	0.62	0.09	11.35	0.269	1.16	3.3	73
W597382		92.0	<0.002	0.10	1.38	11.4	1	1.9	415	0.66	<0.05	11.15	0.295	1.04	3.6	79
W597383		89.1	0.002	0.12	2.57	11.3	<1	1.6	413	0.66	<0.05	11.55	0.277	1.01	3.7	75
W597384		99.5	<0.002	0.08	2.65	11.8	1	2.0	412	0.65	<0.05	10.55	0.292	1.21	3.3	79
W597385		18.0	0.015	6.88	44.4	5.8	32	17.2	74.8	0.23	0.32	2.68	0.119	6.15	2.4	75
W597386		101.0	0.002	1.12	2.51	11.2	1	2.8	367	0.50	0.12	10.05	0.264	1.20	3.1	75
W597387		96.0	<0.002	0.49	1.49	11.3	1	2.1	387	0.57	<0.05	10.70	0.273	1.11	3.2	77
W597388		92.2	<0.002	0.30	1.37	11.7	1	2.4	425	0.61	0.06	10.70	0.276	1.16	3.3	78
W597389		96.0	<0.002	1.05	1.78	11.9	1	3.6	354	0.55	0.20	10.10	0.294	1.34	3.2	83
W597390		108.0	<0.002	1.18	1.61	11.8	1	3.1	338	0.51	0.14	9.96	0.273	1.30	3.1	77
W597391		90.5	<0.002	0.41	1.36	11.8	1	2.3	423	0.51	0.06	8.89	0.286	1.08	2.6	78
W597392		94.2	<0.002	0.60	1.56	11.1	1	2.3	400	0.54	0.19	9.63	0.277	1.33	3.3	75

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19279948

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.1	2	0.5	0.005
W597361		0.8	14.6	150	25.4	0.007
W597362		2.9	15.8	114	27.6	0.112
W597363		1.0	14.7	38	26.7	0.036
W597364		1.4	14.3	334	29.6	0.019
W597365		1.6	14.8	305	30.9	0.015
W597366		1.9	16.9	43	27.1	0.047
W597367		1.7	15.4	40	31.1	0.019
W597368		4.2	16.0	45	31.5	0.011
W597369		2.7	16.0	43	29.7	<0.005
W597370		7.9	10.6	3490	24.2	1.805
W597371		1.9	18.3	43	27.6	0.006
W597372		7.3	16.1	237	24.6	0.023
W597373		2.1	17.0	50	24.6	0.005
W597374		2.1	14.8	50	22.5	0.012
W597375		<0.1	2.3	3	1.2	<0.005
W597376		1.8	17.3	41	23.7	0.008
W597377		1.4	16.7	41	24.0	0.005
W597378		1.0	17.2	37	25.1	0.009
W597379		1.6	17.0	36	26.3	0.066
W597380		1.4	17.2	36	25.4	0.024
W597381		1.3	17.1	43	25.3	0.008
W597382		2.4	17.9	41	26.7	<0.005
W597383		1.4	17.3	43	25.9	<0.005
W597384		1.2	17.7	49	21.9	0.007
W597385		1.7	9.9	7280	40.7	0.290
W597386		8.9	16.3	45	19.6	0.051
W597387		6.2	16.4	49	19.7	0.009
W597388		1.1	17.3	67	20.9	0.017
W597389		1.5	17.4	58	20.0	0.107
W597390		1.3	17.0	52	19.6	0.074
W597391		1.0	16.8	52	19.2	0.052
W597392		1.0	15.2	77	20.5	0.042

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19279948

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-06	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-31	PUL-31d
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE WH19283115

Project: ROCKHA_WH19245885

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

Project: ROCKHA_WH19245885

CERTIFICATE OF ANALYSIS WH19283115

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
K294651		<0.005
K294652		0.005
K294653		1.475
K294654		<0.005
K294655		0.009
K294656		0.010
K294657		<0.005
K294658		0.008
K294659		0.008
K294660		0.009
K294661		0.024
K294662		0.077
K294663		0.005
K294664		<0.005
K294665		<0.005
K294666		1.495
K294667		<0.005
K294668		0.010
K294669		<0.005
K294670		<0.005
K294671		<0.005
K294672		0.011
K294673		<0.005
K294674		<0.005
K294675		0.011
K294676		<0.005
K294677		<0.005
K294678		<0.005
K294679		<0.005
K294680		0.015
W593641		0.006
W593642		<0.005
W593643		0.016
W593644		0.007
W593645		0.007
W593646		0.035
W593647		0.039
W593648		0.007
W593649		<0.005
W593650		<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_WH19245885

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19283115

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE WH19283121

Project: ROCKHA_ WH19242452

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

Project: ROCKHA_ WH19242452

CERTIFICATE OF ANALYSIS WH19283121

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
W593240		<0.005
W593241		0.005
W593242		<0.005
W593243		<0.005
W593244		1.285
W593245		0.009
W593246		0.096
W593247		<0.005
W593248		<0.005
W593249		0.006
W593250		0.006
W593251		1.315
W593252		<0.005
W593253		<0.005
W593254		0.011
W593255		0.124
W593256		0.009
W593257		0.125
W593258		0.188
W593259		0.028
W593260		0.258
W593261		0.238
W593262		0.029
W593263		<0.005
W593264		0.026
W593265		<0.005
W593266		<0.005
W593267		0.005
W593268		0.018
W593269		0.011
W593270		0.089
W593271		0.008
W593272		0.019
W593273		0.008
W593274		0.525
W593275		0.260
W593276		0.006
W593277		0.008
W593278		0.022
W593279		0.022

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19242452

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19283121

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24 FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE WH19283123

Project: ROCKHA_ WH19247976

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

Project: ROCKHA_ WH19247976

CERTIFICATE OF ANALYSIS WH19283123

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
W593732		<0.005
W593733		0.160
W593734		<0.005
W593735		<0.005
W593736		0.064
W593737		0.033
W593738		0.164
W593739		0.205
W593740		<0.005
W593741		0.049
W593742		0.315
W593743		0.042
W593744		<0.005
W593745		0.663
W593746		0.073
W593747		<0.005
W593748		0.008
W593749		<0.005
W593750		0.009
W593751		0.164
W593752		1.710
W593753		0.202
W593754		0.024
W593755		2.65
W593756		0.123
W593757		0.023
W593758		1.665
W593759		0.051
W593760		0.441
W593761		0.520
W593762		0.514
W593763		0.151
W593764		0.006
W593765		<0.005
W593766		<0.005
W593767		0.105
W593768		<0.005
W593769		0.009
W593770		<0.005
W593771		0.287

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19247976

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19283123

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-AA24	FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE WH19283132

Project: ROCKHA_ WH19245878

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 21-NOV-2019
Account: ROCKHA

Project: ROCKHA_ WH19245878

CERTIFICATE OF ANALYSIS WH19283132

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
W603402		<0.005
W603403		<0.005
W603404		<0.005
W603405		1.805
W603406		<0.005
W603407		<0.005
W603408		2.75
W603409		0.005
W603410		0.026
W603411		<0.005
W603412		0.009
W603413		0.802
W603414		0.039
W603415		<0.005
W603416		<0.005
W603417		0.019
W603418		<0.005
W603419		0.007
W603420		<0.005
W603421		<0.005
W603422		<0.005
W603423		<0.005
W603424		1.480
W603425		<0.005
W603426		<0.005
W603427		0.008
W603428		<0.005
W603429		<0.005
W603430		0.112
W603431		<0.005
W603432		0.008
W603433		0.005
W603434		<0.005
W603435		<0.005
W603436		5.08
W603437		<0.005
W603438		0.040
W603439		<0.005
W603440		0.172
W603441		<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19245878

Finalized Date: 21-NOV-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19283132

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24 FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300068

Project: ROKHA_WH19254218

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROKHA_WH19254218

CERTIFICATE OF ANALYSIS WH19300068

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
K295961		1.545
K295962		0.199
K295963		1.110
K295964		0.071
K295965		0.112
K295966		<0.005
K295967		0.382
K295968		0.121
K295969		0.034
K295970		0.109
K295971		0.133
K295972		0.048
K295973		0.044
K295974		0.060
K295975		0.145
K295976		0.062
K295977		0.086
K295978		0.024
K295979		0.016
K295980		1.680
K295981		0.043
K295982		0.215
K295983		0.293
K295984		0.073
K295985		0.066
K295986		0.090
K295987		0.038
K295988		0.033
K295989		0.042
K295990		0.034
K295991		0.120
K295992		0.057
K295993		0.037
K295994		0.276
K295995		0.061
K295996		0.022
K295997		0.033
K295998		0.028
K295999		0.021
K296000		0.013

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROKHA_WH19254218

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300068

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24 FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300083

Project: ROCKHA_WH19255822

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_WH19255822

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300083

Sample Description	Method Analyte Units LOD	Au-GRA22 Au ppm 0.05	Au-AA24 Au ppm 0.005
W602621			0.028
W602622			0.023
W602623			0.126
W602624			0.063
W602625			0.058
W602626			0.141
W602627			0.282
W602628			0.048
W602629			0.019
W602630			0.214
W602631			0.318
W602632			0.041
W602633			0.069
W602634			0.375
W602635			0.009
W602636			0.014
W602637			0.009
W602638			0.754
W602639			0.040
W602640			<0.005
W602641			0.045
W602642			0.043
W602643			0.059
W602644			0.049
W602645		19.40	>10.0
W602646			0.288
W602647			0.296
W602648			0.236
W602649			0.022
W602650			0.118
W602651			0.017
W602652			0.039
W602653			0.036
W602654			0.049
W602655			0.296
W602656			0.061
W602657			0.077
W602658			0.011
W602659			0.197
W602660			0.017

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_WH19255822

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300083

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24 Au-GRA22 FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300238

Project: ROCKHA_ WH19255807

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
Pb-OG62	Ore Grade Pb - Four Acid	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255807

CERTIFICATE OF ANALYSIS WH19300238

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
W602781		0.79	7.49	21.4	2160	1.74	1.05	2.57	0.24	56.0	7.9	10	13.40	54.6	3.47	17.10
W602782		0.23	7.52	9.0	2240	1.74	0.66	2.63	0.26	53.9	6.8	12	7.52	71.4	3.18	16.15
W602783		0.14	7.61	7.7	2270	1.87	0.45	2.64	0.22	57.1	7.4	12	8.06	33.2	3.25	17.80
W602784		0.43	7.68	8.2	2230	1.72	0.74	2.70	0.55	59.0	6.6	11	8.78	109.0	3.24	16.55
W602785		0.49	7.16	6.9	2090	1.75	0.51	2.48	0.27	56.5	6.0	11	10.50	239	3.14	16.10
W602786		0.33	7.37	8.0	2180	1.63	1.49	2.89	0.23	53.6	5.7	10	12.80	66.3	3.22	16.20
W602787		38.3	5.64	2490	1270	1.23	32.6	1.68	42.2	36.3	15.7	23	9.94	1140	8.97	13.40
W602788		0.24	7.38	7.2	1960	1.56	0.61	2.57	0.41	46.5	6.2	9	13.55	31.2	2.88	17.05
W602789		0.25	7.35	10.5	2220	1.60	0.78	2.49	0.43	50.5	6.0	10	10.95	40.7	3.16	15.95
W602790		0.34	7.66	14.2	2160	1.89	1.30	2.74	0.36	55.5	6.7	10	17.40	66.0	3.19	17.30
W602791		0.44	7.28	44.2	1940	1.71	0.65	2.61	0.54	50.3	6.3	10	13.25	68.9	3.44	15.65
W602792		0.50	6.70	16.7	2410	1.38	1.44	3.65	0.50	44.7	4.9	12	17.30	44.8	2.96	13.65
W602793		0.58	7.25	6.9	2080	1.84	0.90	2.62	0.42	55.6	6.8	11	11.65	100.0	3.14	17.15
W602794		0.55	7.55	6.4	2130	1.64	0.99	2.64	0.33	54.3	6.3	10	11.55	95.8	3.17	16.25
W602795		23.8	6.13	130.5	220	1.39	49.5	2.51	0.55	45.0	15.6	8	15.90	288	8.66	14.70
W602796		0.80	7.45	12.0	2170	1.70	1.95	2.66	0.70	56.3	8.6	10	11.00	53.7	3.42	15.90
W602797		0.95	7.29	11.6	2150	1.66	1.73	2.26	1.12	52.6	6.3	13	11.50	198.0	3.26	16.05
W602798		0.42	7.06	10.5	2650	1.82	1.13	1.80	0.27	56.1	6.2	9	16.90	88.0	3.04	15.85
W602799		0.55	6.84	6.2	1980	1.67	0.82	2.12	0.67	48.0	4.7	9	12.50	101.5	2.65	14.70
W602800		0.86	7.12	14.0	2380	1.73	1.07	2.30	0.38	50.8	10.3	9	12.75	170.0	2.92	16.30
W602801		0.43	7.36	11.7	2500	1.66	0.99	2.60	0.35	53.3	9.0	12	10.45	111.0	3.01	15.95
W602802		0.45	7.19	11.3	2480	1.66	1.02	2.54	0.33	55.9	8.8	10	10.65	106.5	2.95	16.30
W602803		0.32	7.66	10.6	2290	1.79	0.82	2.08	0.22	58.8	5.2	10	8.21	90.8	2.98	16.00
W602804		0.39	7.53	12.5	2300	1.68	1.29	2.21	0.29	59.3	5.7	10	8.01	79.3	2.82	16.15
W602805		3.18	7.17	16.4	2180	1.68	3.20	2.22	1.19	54.8	6.9	10	10.60	275	2.99	16.70
W602806		0.75	7.38	27.5	1890	1.69	2.26	2.22	1.21	51.9	6.1	10	11.90	186.0	3.30	16.15
W602807		0.92	7.32	47.8	330	1.67	2.95	2.37	1.25	51.4	5.7	11	13.70	137.5	4.06	17.20
W602808		0.62	7.47	17.6	2690	1.57	2.01	2.55	0.46	52.9	11.9	12	14.15	171.0	3.32	16.70
W602809		>100	5.43	244	600	0.69	4.87	1.47	23.3	18.85	11.5	62	0.94	6130	5.73	11.80
W602810		0.47	7.60	22.6	2600	1.42	0.76	2.05	0.34	47.7	9.5	10	13.45	139.5	3.07	17.30
W602811		1.08	8.27	34.5	2360	1.43	2.99	0.84	0.54	57.5	8.3	11	17.90	230	3.59	17.80
W602812		0.92	7.35	40.3	630	1.50	3.68	2.29	0.25	53.1	9.2	11	15.65	71.5	3.81	15.75
W602813		1.28	7.83	29.0	2650	1.53	3.81	2.35	2.16	55.3	8.7	11	14.90	180.0	3.36	16.90
W602814		0.71	7.59	29.7	2390	1.60	1.47	2.32	0.35	55.0	12.1	11	11.35	232	3.49	16.95
W602815		0.01	0.09	0.2	30	0.07	0.04	34.3	0.02	1.28	0.5	1	0.06	4.3	0.14	0.34
W602816		0.74	7.88	14.7	2360	1.54	1.10	2.38	0.32	53.5	5.1	11	11.60	350	3.35	17.25
W602817		0.60	7.42	15.4	1850	1.46	3.20	2.42	0.48	46.5	6.4	10	13.15	128.5	3.08	15.90
W602818		0.30	7.79	11.4	2360	1.63	1.08	3.04	0.32	50.4	7.0	10	17.65	77.0	3.04	16.75
W602819		0.36	7.79	13.4	2020	1.71	1.45	2.73	0.32	50.6	7.3	10	14.65	80.8	3.17	17.00
W602820		0.42	7.69	9.4	2420	1.81	0.72	2.64	0.27	47.8	7.8	11	14.20	110.5	3.26	17.05

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255807

CERTIFICATE OF ANALYSIS WH19300238

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
W602781		0.12	1.1	0.088	2.84	29.6	15.4	0.80	486	4.80	2.01	8.6	12.4	630	32.2	130.0
W602782		0.12	1.1	0.074	2.65	28.6	12.5	0.92	513	3.74	2.44	8.1	4.2	650	21.6	109.5
W602783		0.15	1.3	0.075	2.71	30.0	12.8	0.95	496	4.44	2.41	9.0	3.5	630	19.2	116.5
W602784		0.15	1.2	0.150	2.67	31.8	13.6	0.92	557	3.01	2.29	8.2	2.6	620	26.7	116.0
W602785		0.14	1.3	0.140	2.61	29.1	15.1	0.90	493	2.29	2.28	8.5	2.8	600	18.6	115.5
W602786		0.13	1.2	0.141	2.68	28.5	14.9	0.90	552	2.85	2.16	8.2	2.6	630	17.4	129.0
W602787		0.11	0.8	1.440	2.57	18.1	16.5	0.68	2280	15.55	0.06	4.4	13.4	430	1615	140.0
W602788		0.16	1.2	0.080	2.72	24.7	21.4	0.73	459	3.01	1.69	8.0	2.6	590	24.4	110.0
W602789		0.13	1.2	0.087	2.77	27.2	12.1	0.85	451	2.25	2.20	7.7	2.6	590	24.0	115.5
W602790		0.15	1.2	0.164	2.83	30.1	13.8	0.78	497	2.52	2.05	8.6	2.6	620	23.8	128.5
W602791		0.12	1.2	0.136	3.03	25.2	12.4	0.83	1840	1.21	1.64	7.9	2.4	610	29.3	128.5
W602792		0.13	1.0	0.255	3.38	23.1	15.0	0.63	1400	5.16	0.37	6.7	2.7	560	22.4	135.5
W602793		0.13	1.3	0.122	2.71	29.1	10.6	0.80	539	1.56	2.21	8.9	2.8	600	27.8	115.5
W602794		0.15	1.2	0.138	2.82	29.3	10.0	0.80	537	1.28	2.21	8.2	2.5	600	25.4	112.5
W602795		0.11	1.0	0.421	2.66	22.7	10.5	0.85	1170	1.21	0.60	6.6	2.9	480	279	145.5
W602796		0.13	1.2	0.140	2.81	30.8	13.1	0.85	616	4.91	2.16	8.3	2.5	630	36.6	115.0
W602797		0.14	1.2	0.190	2.95	28.4	15.5	0.82	533	3.97	1.85	8.2	3.0	590	48.9	129.5
W602798		0.12	1.3	0.102	2.54	29.7	20.5	0.80	481	14.45	1.93	8.2	2.7	570	21.1	109.5
W602799		0.13	1.2	0.102	2.68	25.8	14.2	0.66	471	6.36	2.12	7.3	2.0	500	31.3	108.5
W602800		0.14	1.3	0.248	3.03	26.2	11.5	0.74	531	2.74	2.15	8.4	2.6	550	26.2	135.0
W602801		0.13	1.1	0.128	2.82	28.6	11.8	0.81	504	2.27	2.26	8.1	2.4	580	21.2	126.5
W602802		0.15	1.2	0.128	2.80	29.6	12.2	0.79	498	2.88	2.22	8.1	2.4	570	21.3	127.0
W602803		0.14	1.4	0.137	2.92	32.1	9.9	0.85	424	2.65	2.47	8.2	2.3	570	17.9	130.5
W602804		0.14	1.3	0.113	2.96	31.8	10.9	0.83	481	8.04	2.47	8.1	2.2	580	21.4	126.0
W602805		0.13	1.4	0.259	2.81	29.3	12.6	0.87	541	2.22	2.34	8.4	2.4	570	48.5	125.5
W602806		0.12	1.1	0.218	2.80	27.4	10.6	0.87	500	4.37	2.26	7.5	2.4	610	44.4	125.0
W602807		0.12	0.8	0.364	2.81	25.8	11.2	0.96	521	8.85	1.36	7.2	2.6	650	66.1	152.0
W602808		0.13	0.9	0.198	2.57	28.6	13.4	0.98	513	3.92	2.05	7.6	2.7	670	26.5	117.5
W602809		0.09	1.3	0.407	1.12	8.9	13.4	1.11	1720	19.05	1.62	3.2	26.7	450	>10000	28.2
W602810		0.14	0.9	0.111	2.66	25.8	15.9	0.87	444	3.00	1.91	7.9	2.7	660	18.2	109.5
W602811		0.11	0.9	0.248	2.89	31.5	21.8	0.41	557	2.38	0.58	8.3	2.9	720	40.4	139.5
W602812		0.13	0.8	0.357	2.88	28.4	11.5	0.88	485	1.00	2.11	7.4	2.7	650	30.0	131.5
W602813		0.14	0.9	0.336	2.89	31.2	14.5	0.89	495	1.23	2.36	7.9	2.5	660	47.1	127.5
W602814		0.13	0.9	0.180	2.69	30.5	16.6	0.99	448	0.93	2.29	8.0	2.6	650	21.6	114.5
W602815		0.12	0.1	0.005	0.03	1.3	1.0	1.95	124	0.06	0.04	0.2	0.4	60	0.5	1.0
W602816		0.14	0.9	0.199	2.79	28.9	17.6	1.08	451	1.34	2.41	8.3	2.5	690	18.4	120.0
W602817		0.14	1.0	0.257	2.86	26.0	17.1	0.84	372	0.87	2.29	7.4	2.8	620	22.6	116.0
W602818		0.15	1.1	0.085	2.58	27.5	17.4	0.91	416	0.81	1.90	8.0	2.7	640	19.6	118.5
W602819		0.15	1.1	0.131	2.74	28.1	16.0	0.89	463	1.00	2.09	8.3	2.7	660	23.9	125.0
W602820		0.14	1.1	0.085	2.79	26.2	14.0	0.88	509	1.03	2.22	8.5	2.9	670	21.4	114.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255807

CERTIFICATE OF ANALYSIS WH19300238

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
W602781		0.002	0.55	3.95	11.1	1	3.9	315	0.67	0.42	14.85	0.273	1.47	4.4	73	1.5
W602782		<0.002	0.07	1.48	10.9	1	2.8	388	0.66	0.13	14.70	0.285	1.19	4.6	75	0.7
W602783		<0.002	0.07	1.21	11.9	1	2.7	402	0.73	0.12	15.75	0.272	1.25	4.7	72	0.6
W602784		<0.002	0.18	1.85	10.8	1	2.8	374	0.70	0.19	15.80	0.266	1.35	5.3	73	0.7
W602785		<0.002	0.08	1.91	10.9	1	2.7	348	0.71	0.07	14.15	0.263	1.39	4.7	70	0.7
W602786		0.003	0.20	2.68	11.1	1	3.3	305	0.65	0.16	14.30	0.273	1.48	4.0	72	1.3
W602787		0.002	7.67	99.0	7.6	1	9.9	61.9	0.36	0.87	8.45	0.161	2.05	5.6	55	6.5
W602788		<0.002	0.12	3.21	10.5	<1	2.7	288	0.64	0.07	12.90	0.254	1.38	4.9	69	0.9
W602789		<0.002	0.43	2.15	10.1	1	2.5	349	0.65	0.26	14.95	0.260	1.32	4.8	70	0.8
W602790		<0.002	0.51	4.79	11.0	1	2.9	320	0.73	0.50	16.05	0.270	1.55	5.1	72	0.9
W602791		<0.002	0.45	3.68	10.1	1	2.8	292	0.67	<0.05	13.70	0.260	1.78	4.7	70	1.5
W602792		0.003	0.92	7.87	8.7	1	2.9	157.5	0.57	0.22	12.30	0.242	2.26	6.1	67	1.7
W602793		<0.002	0.17	2.27	11.3	1	2.6	359	0.74	0.20	15.15	0.265	1.39	4.6	70	0.6
W602794		<0.002	0.21	2.07	10.5	1	2.5	358	0.69	0.19	15.25	0.262	1.37	4.3	71	0.6
W602795		<0.002	7.69	10.15	8.9	2	5.6	102.0	0.57	3.42	12.30	0.193	2.05	5.6	57	2.8
W602796		0.002	0.47	1.90	10.8	1	2.7	350	0.68	0.39	14.90	0.274	1.40	4.4	75	1.0
W602797		0.012	0.31	3.95	10.3	1	3.3	269	0.72	0.37	14.85	0.255	1.62	4.5	68	2.0
W602798		0.020	0.12	6.44	10.1	1	3.7	232	0.69	0.08	15.20	0.247	1.49	4.2	66	2.9
W602799		0.010	0.07	3.01	8.4	1	3.1	311	0.64	0.05	14.10	0.218	1.39	4.3	57	2.3
W602800		<0.002	0.38	2.29	9.8	1	2.8	309	0.76	0.21	15.65	0.239	1.80	5.6	63	0.8
W602801		<0.002	0.32	1.89	10.2	1	3.3	371	0.66	0.18	15.55	0.257	1.47	5.0	69	0.9
W602802		<0.002	0.30	1.90	10.4	1	3.4	365	0.66	0.19	16.00	0.253	1.48	5.0	67	0.9
W602803		<0.002	0.71	1.42	9.9	1	2.9	365	0.76	0.17	17.20	0.250	1.53	5.9	66	1.0
W602804		<0.002	0.31	1.40	9.7	1	2.5	374	0.73	0.14	16.25	0.247	1.43	5.4	67	1.3
W602805		<0.002	0.60	1.75	10.6	1	2.9	314	0.76	0.61	17.15	0.246	1.60	5.6	67	1.3
W602806		<0.002	1.63	1.68	10.4	1	3.5	257	0.59	0.76	13.95	0.249	1.76	4.9	70	1.5
W602807		<0.002	2.86	2.18	11.8	1	5.7	208	0.52	0.74	10.80	0.258	2.11	3.7	76	2.7
W602808		<0.002	1.11	1.87	11.7	1	3.0	338	0.50	0.67	10.45	0.288	1.56	3.2	79	1.4
W602809		0.008	2.29	451	11.4	2	1.8	187.5	0.22	1.24	1.90	0.244	0.50	1.3	79	0.6
W602810		<0.002	0.47	3.18	11.9	1	2.6	379	0.52	0.18	9.87	0.275	1.46	3.1	77	1.5
W602811		<0.002	1.34	8.42	12.3	1	3.8	90.3	0.55	0.40	11.75	0.307	1.89	3.4	81	2.6
W602812		<0.002	2.13	2.23	12.0	2	3.6	230	0.45	0.84	8.28	0.281	1.81	2.9	75	1.8
W602813		<0.002	1.06	2.31	11.6	1	3.2	289	0.50	0.63	11.80	0.282	1.80	3.1	75	1.4
W602814		<0.002	0.88	1.87	11.4	1	2.7	359	0.50	0.39	12.40	0.278	1.50	3.2	75	1.1
W602815		<0.002	<0.01	0.07	0.2	2	<0.2	78.4	<0.05	<0.05	0.12	0.005	<0.02	0.1	1	0.1
W602816		<0.002	0.74	1.88	11.3	1	2.8	346	0.59	0.36	12.70	0.303	1.47	3.2	80	1.1
W602817		<0.002	1.44	2.02	10.5	1	3.1	294	0.54	1.51	12.50	0.258	1.59	3.7	73	1.1
W602818		<0.002	1.13	2.24	12.2	1	2.8	310	0.60	0.23	13.40	0.273	1.49	5.6	80	2.1
W602819		<0.002	1.15	2.58	11.5	2	3.0	316	0.68	0.46	13.30	0.270	1.58	4.3	75	1.3
W602820		<0.002	0.50	1.86	11.6	1	2.4	387	0.69	0.15	13.25	0.276	1.37	4.3	77	1.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255807

CERTIFICATE OF ANALYSIS WH19300238

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	%
	LOD	0.1	2	0.5	1	0.001
W602781		17.1	61	33.7		
W602782		17.8	48	34.1		
W602783		20.3	42	38.9		
W602784		18.6	66	37.6		
W602785		18.4	53	39.1		
W602786		18.1	63	35.5		
W602787		9.3	3280	22.2		
W602788		16.6	60	34.0		
W602789		16.9	54	36.7		
W602790		18.0	63	37.8		
W602791		16.6	91	35.6		
W602792		15.6	114	30.8		
W602793		19.0	68	38.2		
W602794		17.6	68	37.0		
W602795		13.5	88	30.3		
W602796		18.3	97	37.2		
W602797		15.9	123	34.8		
W602798		16.1	89	37.3		
W602799		13.6	75	34.2		
W602800		16.5	79	37.3		
W602801		17.7	54	32.9		
W602802		18.5	53	33.1		
W602803		18.3	48	38.3		
W602804		17.3	52	37.7		
W602805		18.1	112	39.8		
W602806		16.8	114	35.2		
W602807		17.9	130	24.7		
W602808		17.4	78	27.8		
W602809		13.5	5080	49.2	101	1.010
W602810		17.1	57	25.9		
W602811		18.0	82	28.2		
W602812		16.7	65	23.9		
W602813		18.0	158	27.9		
W602814		17.6	61	25.5		
W602815		2.1	4	1.9		
W602816		17.6	70	25.4		
W602817		16.4	73	25.9		
W602818		17.5	75	28.7		
W602819		17.4	64	27.1		
W602820		18.4	56	29.4		

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19255807

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300238

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	FND-02	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300240

Project: ROCKHA_ WH19255824

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
Pb-OG62	Ore Grade Pb - Four Acid	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255824

CERTIFICATE OF ANALYSIS WH19300240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
W602581		0.86	5.99	15.4	260	1.12	2.38	0.18	0.56	39.5	6.5	10	2.84	16.9	4.05	10.75
W602582		0.69	7.72	57.0	710	1.63	2.42	1.70	0.55	47.9	8.2	10	14.35	92.1	4.94	17.55
W602583		0.85	7.78	70.5	570	1.45	2.67	1.57	0.95	51.5	6.9	11	10.35	51.4	5.10	17.50
W602584		1.67	7.03	115.5	230	1.20	8.04	0.36	0.62	42.6	7.3	10	5.55	37.5	6.79	16.55
W602585		0.55	7.51	39.9	830	1.43	1.87	2.11	0.80	49.8	8.7	10	15.95	113.0	4.12	15.95
W602586		0.50	7.61	36.4	840	1.41	1.79	2.14	0.77	51.0	8.1	9	15.35	106.0	4.01	15.80
W602587		0.35	7.05	18.6	320	1.38	2.39	1.76	0.20	48.5	6.5	8	13.80	47.8	4.79	16.30
W602588		0.32	7.23	6.2	2230	1.71	1.34	2.38	0.40	46.6	5.5	11	11.90	63.7	3.10	16.25
W602589		0.40	7.37	9.7	2000	1.66	1.32	2.33	0.42	49.0	7.2	10	11.45	112.0	3.27	16.00
W602590		0.35	7.79	26.1	1810	1.45	1.16	1.55	0.28	50.2	8.5	9	12.85	111.0	3.78	16.75
W602591		0.29	7.45	9.5	1180	1.52	0.87	2.42	0.27	47.0	15.2	9	11.30	63.7	3.45	16.00
W602592		0.45	7.72	6.1	2380	1.66	1.10	2.38	0.41	54.4	7.3	10	9.71	121.0	3.24	16.90
W602593		0.49	7.36	8.1	1860	1.55	2.60	2.44	0.53	43.9	9.0	10	11.80	63.8	3.34	16.75
W602594		>100	5.55	249	610	0.72	5.26	1.45	23.7	17.65	11.6	62	0.89	5940	5.76	11.60
W602595		1.29	7.42	8.7	2430	1.58	0.75	2.70	0.39	47.3	7.2	10	15.30	34.0	3.33	16.60
W602596		0.32	7.88	12.2	1630	1.66	1.14	2.30	0.38	54.3	15.8	12	17.65	26.5	4.04	16.90
W602597		3.14	7.14	120.0	530	1.53	3.04	2.25	13.30	48.0	9.0	7	22.6	220	5.40	14.95
W602598		1.54	7.59	125.5	870	1.61	2.63	1.66	1.65	49.7	8.4	9	18.05	357	4.18	17.85
W602599		0.28	8.30	10.4	2190	1.60	0.43	1.35	0.34	53.1	7.4	8	15.65	63.9	3.26	17.85
W602600		41.8	5.89	2610	1350	1.18	39.3	1.72	46.3	36.6	17.8	23	10.70	1175	9.22	14.40
W602601		0.24	7.69	8.6	2080	1.54	0.51	2.01	0.40	50.5	7.9	8	13.05	42.4	3.18	17.15
W602602		0.43	7.55	19.9	1790	1.47	0.87	1.84	0.54	50.9	7.4	8	10.40	107.5	3.66	16.45
W602603		0.45	8.35	9.1	2370	1.47	1.00	1.91	0.28	51.6	9.1	12	14.65	59.4	3.88	18.70
W602604		2.80	8.01	80.9	1080	1.74	4.70	1.56	0.76	60.0	9.2	9	17.95	770	4.56	17.60
W602605		2.61	6.96	232	710	1.42	4.19	2.09	2.83	51.9	7.3	8	15.40	666	4.01	17.40
W602606		0.01	0.09	0.3	30	0.06	0.03	33.0	0.02	0.94	0.5	1	0.08	2.2	0.12	0.25
W602607		3.93	5.78	214	530	1.09	9.96	0.88	7.48	28.3	6.7	8	6.68	471	6.76	19.60
W602608		0.84	7.16	68.3	1130	1.30	3.29	2.06	0.58	49.1	8.1	8	22.6	144.0	3.61	16.50
W602609		0.58	7.29	27.7	2290	1.30	2.82	2.31	0.57	38.9	7.7	9	15.80	121.0	3.32	16.50
W602610		1.30	7.50	91.1	1170	1.28	4.29	2.17	1.00	49.7	8.1	9	16.05	362	4.20	18.40
W602611		1.14	7.22	41.8	1980	1.49	1.94	2.44	0.36	46.5	7.5	8	20.9	263	3.44	17.30
W602612		0.97	7.51	38.9	2150	1.34	1.74	2.24	0.33	45.2	7.4	8	19.50	224	3.35	17.40
W602613		2.05	7.29	49.2	1810	1.48	4.57	2.48	0.59	48.5	8.5	8	18.60	635	3.32	17.20
W602614		1.41	7.35	86.3	500	1.40	2.64	2.29	2.90	46.1	7.7	8	20.6	41.9	5.00	17.15
W602615		1.15	7.49	34.8	2370	1.41	2.15	2.43	0.80	50.3	7.4	17	16.35	293	3.60	18.10
W602616		4.18	7.83	200	680	1.76	6.59	1.97	3.70	59.3	7.7	8	22.2	161.5	4.88	17.65
W602617		0.46	8.59	16.0	2140	1.19	0.94	1.10	0.59	57.3	7.0	8	11.45	137.5	3.52	18.20
W602618		0.92	7.35	46.6	1170	1.44	2.79	1.75	1.24	129.5	12.1	7	14.20	204	3.80	17.65
W602619		0.74	7.96	10.0	2860	1.41	1.88	2.58	0.34	39.5	7.5	10	12.05	150.0	3.03	18.00
W602620		0.40	7.45	9.6	2380	1.40	0.98	2.55	0.69	49.3	6.9	10	13.70	50.4	3.59	16.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255824

CERTIFICATE OF ANALYSIS WH19300240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
W602581		0.11	1.7	0.036	2.82	22.5	6.2	0.28	68	2.02	0.07	4.6	1.2	180	32.1	115.5
W602582		0.13	0.7	0.220	3.68	27.5	7.0	0.90	855	1.31	0.05	4.4	2.1	570	22.0	184.5
W602583		0.13	0.9	0.200	3.72	29.3	7.1	0.88	825	2.83	0.05	4.1	2.4	610	26.0	182.5
W602584		0.12	0.9	0.128	3.45	22.6	6.4	0.45	230	1.36	0.07	2.4	2.4	500	52.5	170.5
W602585		0.13	0.9	0.126	3.59	29.2	15.3	0.82	590	2.55	0.27	4.4	2.3	560	32.6	166.5
W602586		0.14	0.9	0.126	3.64	29.5	14.7	0.82	592	1.47	0.30	4.5	2.0	560	29.5	164.5
W602587		0.12	1.0	0.125	3.31	27.3	10.8	0.73	372	1.22	0.64	5.6	2.1	550	20.0	146.5
W602588		0.15	1.1	0.077	2.85	25.5	13.4	0.80	396	1.56	1.95	7.5	2.1	560	26.7	114.0
W602589		0.15	1.0	0.089	3.09	27.5	15.1	0.81	363	2.14	1.65	7.0	2.2	540	24.5	129.0
W602590		0.14	1.1	0.096	2.64	28.3	49.6	0.63	529	1.56	0.53	7.0	2.4	630	23.4	117.5
W602591		0.14	1.0	0.066	3.05	25.4	16.6	0.82	391	1.45	1.69	6.7	2.3	600	22.9	122.5
W602592		0.16	0.9	0.067	2.83	31.0	18.3	0.87	393	0.91	2.09	7.3	2.4	610	31.7	116.0
W602593		0.13	0.8	0.075	2.94	24.2	16.6	0.81	439	1.05	1.96	6.6	2.5	610	38.8	110.5
W602594		0.10	1.4	0.421	1.12	8.8	13.3	1.13	1700	19.75	1.65	3.1	27.2	460	>10000	27.5
W602595		0.14	0.9	0.085	2.89	26.7	15.8	0.81	438	1.61	1.66	6.8	2.7	600	34.1	113.0
W602596		0.15	0.9	0.103	3.43	31.2	19.0	0.76	486	2.51	0.80	7.2	2.7	670	25.6	141.0
W602597		0.13	0.8	0.149	3.29	26.8	11.8	0.89	1200	1.34	0.07	5.8	2.6	570	373	148.5
W602598		0.13	0.9	0.256	3.55	27.0	16.6	0.73	936	1.45	0.07	5.9	2.3	550	63.5	176.5
W602599		0.15	1.2	0.069	3.00	28.6	33.1	0.57	545	1.17	0.35	8.8	2.0	610	24.6	126.5
W602600		0.12	0.9	1.620	2.68	20.5	17.2	0.69	2360	17.70	0.06	4.6	14.8	450	1670	157.0
W602601		0.14	1.1	0.087	2.94	27.6	15.9	0.50	391	1.22	1.01	8.2	2.1	610	35.3	112.0
W602602		0.14	0.9	0.092	3.02	28.4	15.3	0.64	412	1.08	0.85	7.0	2.1	580	27.5	127.0
W602603		0.14	1.2	0.102	3.02	27.4	27.5	0.56	550	0.96	0.31	9.0	2.9	730	27.7	116.0
W602604		0.14	1.0	0.274	3.44	34.7	15.7	0.78	655	1.24	0.08	7.9	2.7	630	25.6	144.0
W602605		0.14	0.8	0.245	2.83	29.9	16.8	0.88	1480	1.29	0.05	5.6	2.2	520	62.9	150.5
W602606		0.12	<0.1	0.006	0.02	1.1	1.0	1.66	120	<0.05	0.03	0.1	0.3	70	0.6	0.7
W602607		0.12	0.7	0.178	2.78	15.0	15.8	0.49	387	3.36	0.05	3.9	2.5	450	150.0	139.5
W602608		0.11	0.9	0.098	2.87	26.6	19.4	0.74	726	0.96	0.06	7.3	2.2	600	31.2	115.0
W602609		0.11	0.8	0.090	2.84	21.1	21.7	0.68	430	1.03	0.89	6.6	2.1	570	33.5	113.5
W602610		0.13	0.9	0.191	3.28	27.3	16.5	1.01	554	1.04	0.38	6.5	2.5	610	55.2	179.0
W602611		0.12	1.0	0.143	2.84	24.7	18.9	0.81	496	0.70	0.84	7.8	2.2	640	32.9	118.0
W602612		0.14	1.0	0.130	2.90	24.6	20.4	0.77	462	0.78	0.85	7.5	2.3	640	33.8	123.0
W602613		0.13	0.9	0.152	3.00	24.5	13.7	0.78	451	2.10	1.46	6.8	2.9	600	35.2	123.5
W602614		0.12	0.8	0.143	3.21	23.7	18.7	1.02	606	1.31	0.11	6.2	2.4	600	76.6	150.0
W602615		0.13	0.9	0.138	3.17	25.9	12.7	0.84	518	1.35	1.40	7.2	2.4	600	48.4	141.5
W602616		0.13	0.8	0.168	3.33	32.2	19.4	0.93	1500	1.35	0.12	7.1	2.6	590	896	157.5
W602617		0.13	0.9	0.090	2.78	30.0	31.1	0.52	647	1.33	0.11	8.6	1.9	700	24.8	109.0
W602618		0.17	0.9	0.107	3.43	77.2	23.9	0.72	617	1.09	0.11	6.0	2.5	530	45.9	149.5
W602619		0.15	0.9	0.061	2.91	20.3	19.4	0.79	436	0.85	1.54	7.6	2.2	610	28.6	108.5
W602620		0.13	0.8	0.081	2.85	25.5	14.8	0.87	527	1.04	1.90	7.7	2.5	620	37.1	111.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255824

CERTIFICATE OF ANALYSIS WH19300240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
W602581		<0.002	4.36	2.28	3.4	2	9.3	11.3	0.93	0.32	27.5	0.045	1.16	6.4	22	12.1
W602582		<0.002	3.55	17.50	9.6	1	10.3	58.4	0.35	0.31	12.25	0.164	2.91	5.5	64	7.9
W602583		<0.002	4.37	8.67	10.5	1	13.1	46.0	0.34	0.39	13.00	0.166	2.79	6.2	70	10.2
W602584		<0.002	7.08	3.81	9.0	2	13.2	15.1	0.21	0.78	13.40	0.102	2.03	3.9	61	12.9
W602585		<0.002	2.91	15.55	9.1	1	5.0	101.0	0.39	0.29	15.00	0.169	2.63	5.1	64	6.2
W602586		<0.002	2.80	14.00	8.7	1	4.9	100.5	0.38	0.29	13.90	0.171	2.60	4.9	64	6.1
W602587		<0.002	3.45	1.92	9.7	2	8.4	141.0	0.48	0.51	14.40	0.180	2.02	5.5	62	12.2
W602588		<0.002	0.57	1.06	9.9	1	4.6	340	0.67	0.23	15.20	0.235	1.54	4.8	65	1.9
W602589		<0.002	1.41	0.84	9.9	1	3.9	299	0.64	0.18	14.80	0.218	1.62	5.3	65	4.6
W602590		<0.002	1.55	34.8	11.3	2	4.3	204	0.61	0.24	15.65	0.238	1.64	6.0	74	5.0
W602591		<0.002	1.68	1.00	10.8	1	4.3	679	0.57	0.18	13.75	0.236	1.55	4.9	71	3.8
W602592		<0.002	1.23	0.82	11.1	1	4.3	660	0.60	0.22	13.75	0.241	1.45	4.9	71	2.9
W602593		<0.002	1.44	1.36	10.5	1	4.6	387	0.50	0.28	11.30	0.236	1.60	4.7	71	2.2
W602594		0.009	2.33	457	11.5	2	1.8	191.5	0.20	1.25	2.03	0.240	0.52	1.4	80	0.6
W602595		<0.002	1.12	3.44	10.6	1	4.0	330	0.55	0.15	12.70	0.241	1.60	4.3	71	5.4
W602596		<0.002	1.66	4.37	11.9	1	4.6	224	0.55	0.17	12.60	0.248	2.03	5.1	78	3.2
W602597		<0.002	4.46	9.38	9.6	5	7.3	73.7	0.44	1.51	13.90	0.203	2.57	4.4	62	7.1
W602598		<0.002	2.55	69.1	9.9	1	8.0	68.3	0.44	0.41	13.95	0.199	2.69	6.8	64	8.2
W602599		<0.002	0.52	12.45	11.0	1	3.0	109.5	0.79	0.08	16.20	0.264	1.70	5.0	70	6.6
W602600		0.003	8.01	109.5	8.3	2	11.1	66.1	0.39	0.76	9.22	0.165	2.30	5.9	57	7.2
W602601		<0.002	0.69	6.72	10.5	1	4.1	193.5	0.70	0.07	16.95	0.258	1.54	5.7	71	3.7
W602602		<0.002	1.62	8.06	10.1	1	5.2	196.5	0.61	0.14	14.95	0.233	1.70	4.5	68	3.8
W602603		<0.002	0.90	8.17	12.7	1	4.6	131.0	0.77	0.31	15.70	0.301	1.67	4.9	86	7.4
W602604		<0.002	2.40	27.7	11.5	2	6.9	72.2	0.66	1.61	16.05	0.257	2.20	7.3	77	5.7
W602605		<0.002	2.94	114.0	9.0	1	5.2	50.6	0.45	0.98	12.20	0.197	2.39	5.2	60	11.6
W602606		<0.002	0.01	0.22	0.2	1	<0.2	76.4	<0.05	<0.05	0.10	0.005	<0.02	0.3	1	0.1
W602607		0.002	7.04	108.5	7.9	2	8.1	19.6	0.35	1.63	8.96	0.143	1.80	3.6	55	17.2
W602608		<0.002	1.87	38.0	10.3	1	3.7	75.4	0.61	0.34	13.00	0.245	2.02	7.3	71	6.8
W602609		<0.002	1.34	15.55	9.7	1	3.9	253	0.51	0.19	9.09	0.238	1.63	4.5	67	5.0
W602610		<0.002	2.00	34.9	10.8	1	6.9	148.0	0.49	0.16	10.80	0.230	2.24	4.0	71	6.4
W602611		<0.002	1.28	6.75	11.4	1	4.8	230	0.60	0.40	12.15	0.258	1.71	4.3	74	5.7
W602612		<0.002	1.29	6.33	11.1	1	6.1	235	0.61	0.35	12.50	0.255	1.72	4.3	72	6.3
W602613		<0.002	1.40	8.81	10.2	1	4.7	341	0.50	0.54	12.05	0.233	1.75	4.3	70	9.0
W602614		<0.002	3.05	10.20	10.4	1	6.8	105.0	0.44	0.38	10.60	0.217	1.96	3.8	70	7.7
W602615		<0.002	1.22	3.65	10.5	<1	4.3	311	0.54	0.18	12.15	0.241	1.89	4.2	71	4.3
W602616		<0.002	2.77	19.25	10.4	1	7.8	80.6	0.54	0.28	13.65	0.239	2.89	5.6	69	8.2
W602617		<0.002	0.68	19.40	12.3	1	3.4	81.3	0.66	0.19	14.80	0.295	1.52	2.3	82	5.6
W602618		<0.002	2.17	63.6	9.4	1	4.1	90.5	0.44	0.48	25.7	0.195	2.14	6.6	61	8.1
W602619		<0.002	0.59	7.65	10.7	1	2.9	335	0.51	0.20	9.46	0.270	1.53	3.6	71	3.1
W602620		<0.002	0.59	1.64	10.9	1	4.6	364	0.53	0.14	10.85	0.263	1.62	3.6	72	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255824

CERTIFICATE OF ANALYSIS WH19300240

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	%
	LOD	0.1	2	0.5	1	0.001
W602581		7.9	36	40.4		
W602582		11.3	107	18.7		
W602583		9.9	101	20.1		
W602584		9.5	64	23.3		
W602585		12.3	112	23.4		
W602586		12.1	106	21.6		
W602587		13.2	54	25.2		
W602588		15.1	72	26.6		
W602589		15.3	71	25.3		
W602590		15.9	83	24.3		
W602591		16.4	72	25.3		
W602592		16.4	84	21.3		
W602593		15.4	96	20.2		
W602594		13.0	5040	47.9	103	1.015
W602595		14.5	82	22.5		
W602596		16.9	90	23.9		
W602597		13.5	1060	21.7		
W602598		13.3	211	25.4		
W602599		17.8	75	29.9		
W602600		9.8	3390	24.0		
W602601		17.3	74	27.0		
W602602		15.1	92	23.1		
W602603		18.4	65	29.3		
W602604		15.4	106	24.9		
W602605		12.2	203	20.5		
W602606		2.0	4	1.2		
W602607		10.1	301	16.7		
W602608		13.6	102	22.3		
W602609		13.1	93	20.8		
W602610		13.5	155	21.1		
W602611		13.8	78	24.1		
W602612		13.5	75	24.2		
W602613		13.9	100	20.2		
W602614		12.6	303	19.6		
W602615		14.4	115	20.8		
W602616		13.7	374	20.5		
W602617		18.3	98	22.1		
W602618		15.4	140	21.3		
W602619		15.6	71	21.5		
W602620		16.0	112	19.9		

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19255824

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300240

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	FND-02	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300245

Project: ROCKHA_ WH19255791

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255791

CERTIFICATE OF ANALYSIS WH19300245

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
W593114		0.07	7.49	18.7	2020	1.74	0.17	3.18	0.12	67.7	7.6	18	23.5	9.2	2.81	18.25
W593115		0.26	7.44	38.5	2940	1.56	0.21	3.35	0.37	56.7	9.1	7	21.1	20.3	2.86	16.30
W593116		0.15	7.43	15.6	2290	1.46	0.57	2.85	0.09	49.9	24.6	9	16.50	6.5	3.13	16.00
W593117		32.4	7.66	144.5	470	0.58	9.79	6.28	35.2	32.5	91.3	114	1.90	6860	9.88	12.55
W593118		0.12	8.67	9.2	2540	1.62	0.95	2.21	0.12	59.2	7.5	8	18.00	7.0	3.15	19.50
W593119		0.10	7.73	8.5	2250	1.43	0.47	1.95	0.11	51.0	11.7	7	14.25	4.2	3.15	17.70
W593120		0.08	7.91	7.7	4000	1.25	0.32	1.61	0.14	48.2	9.3	8	13.60	5.8	3.24	18.40
W593121		0.07	7.67	9.9	2230	1.65	0.37	2.32	0.11	48.9	5.6	8	21.1	5.3	2.69	17.90
W593122		0.08	7.88	8.6	2350	1.43	0.35	1.53	0.09	52.7	7.4	8	22.9	4.1	2.99	17.15
W593123		0.20	7.65	62.0	1840	1.34	0.37	1.99	0.15	52.5	19.3	8	15.95	8.3	3.16	16.00
W593124		0.09	7.83	11.6	1820	1.59	0.18	2.06	0.13	49.9	6.6	8	22.0	13.2	2.85	17.25
W593125		<0.01	0.14	<0.2	30	0.07	0.05	33.3	<0.02	1.36	0.5	1	0.12	1.6	0.14	0.47
W593126		0.11	7.67	7.5	2210	1.41	0.19	2.78	0.11	50.3	6.8	12	29.3	24.4	3.09	16.95
W593127		0.08	7.41	9.1	2410	1.34	0.23	2.81	0.10	48.5	8.2	10	26.0	4.3	2.95	16.75
W593128		0.11	7.48	18.3	2140	1.58	0.26	2.32	0.09	52.2	9.5	17	22.0	6.1	3.01	17.40
W593129		0.08	7.96	11.0	1660	1.58	0.31	1.97	0.12	52.2	7.1	8	34.6	10.8	2.95	17.25
W593130		0.06	7.26	7.4	2150	1.46	0.14	2.65	0.13	45.6	7.0	9	28.9	9.5	2.81	16.85
W593131		0.41	3.27	21.3	790	0.86	0.20	1.45	0.38	22.5	3.6	13	12.55	19.4	1.73	7.38
W593132		0.16	7.49	15.1	2010	1.55	0.11	2.25	0.43	52.5	7.4	11	30.1	19.6	2.84	17.20
W593133		0.13	7.40	11.3	2030	1.50	0.10	2.17	0.36	48.5	7.2	9	29.8	18.4	2.83	16.75
W593134		0.06	7.38	7.9	2170	1.45	0.13	2.74	0.09	51.5	6.6	9	11.80	5.6	2.72	16.35
W593135		0.05	7.10	7.5	2180	1.45	0.21	2.80	0.09	50.4	5.3	10	14.10	7.0	2.54	15.95
W593136		0.06	7.75	8.9	2270	1.60	0.14	2.69	0.11	54.3	6.5	11	12.70	6.8	2.86	17.30
W593137		0.09	7.36	11.5	2180	1.40	0.15	3.37	0.12	52.9	5.9	10	19.75	4.2	2.81	15.75
W593138		40.5	5.75	2530	730	1.08	35.2	1.68	44.3	36.7	16.1	22	10.45	1160	9.07	14.20
W593139		0.08	7.16	13.2	2520	1.44	0.24	3.21	0.11	45.8	7.4	10	16.35	3.7	2.88	18.75
W593140		0.10	7.71	10.7	2530	1.54	0.26	2.52	0.16	54.0	7.7	13	9.56	6.0	2.97	17.45
W593141		0.09	7.56	7.2	2400	1.47	0.15	2.62	0.12	50.2	7.3	13	9.67	18.8	2.91	16.70
W593142		0.19	7.38	8.3	2320	1.59	0.23	2.46	0.15	49.3	9.3	11	10.90	62.1	2.81	15.50
W593143		0.11	7.58	5.3	2330	1.55	0.17	2.59	0.13	48.5	6.7	12	11.05	27.5	2.90	15.25
W593144		0.10	7.72	4.7	2340	1.60	0.22	2.59	0.13	46.7	6.8	12	14.05	19.0	2.92	15.10
W593145		0.09	7.38	5.6	2480	1.60	0.24	3.35	0.12	48.0	9.6	10	9.86	15.7	3.06	15.35
W593146		0.10	7.71	6.9	2560	1.63	0.27	2.67	0.09	52.1	11.6	11	9.88	17.6	2.92	16.00
W593147		0.12	7.47	5.1	2400	1.67	0.29	2.68	0.12	46.5	6.5	12	12.95	25.1	2.89	15.70
W593148		0.14	7.08	8.7	2350	1.64	0.66	3.16	0.09	42.2	13.6	11	7.91	20.6	2.84	15.30
W593149		0.13	7.03	7.4	2750	1.50	0.29	2.35	0.15	41.9	6.6	11	10.90	37.3	2.83	15.55
W593150		0.10	7.14	5.3	2120	1.76	0.29	2.38	0.12	46.2	6.5	12	15.35	17.0	2.72	15.35
W594251		0.08	6.89	6.3	1900	1.53	0.28	2.76	0.10	53.0	6.7	10	10.35	6.7	2.48	14.20
W594252		0.06	7.24	4.2	2240	1.70	0.24	2.60	0.10	47.4	7.0	11	12.90	11.5	2.73	15.25
W594253		0.12	6.63	7.0	2250	1.49	0.34	3.00	0.11	37.6	7.1	10	11.35	17.9	2.94	15.65

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255791

CERTIFICATE OF ANALYSIS WH19300245

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
W593114		0.13	4.0	0.035	1.62	35.3	178.0	0.95	654	1.68	0.07	11.8	6.0	1250	16.9	68.5
W593115		0.14	1.5	0.049	3.07	30.8	46.6	0.95	1400	3.24	0.64	7.8	3.0	610	26.5	138.5
W593116		0.14	1.3	0.057	2.77	25.9	17.1	0.66	624	0.44	2.12	7.9	2.3	580	16.6	123.5
W593117		0.12	0.9	2.62	1.08	17.8	8.8	2.33	916	59.4	0.87	2.9	388	700	8910	47.4
W593118		0.14	1.6	0.111	2.51	29.1	27.0	0.75	713	0.36	2.11	8.9	2.2	640	19.8	124.5
W593119		0.14	1.5	0.073	2.41	26.5	25.8	0.68	758	0.43	1.60	8.6	2.2	600	14.8	109.5
W593120		0.13	1.6	0.059	2.79	23.5	33.8	0.51	764	0.96	0.10	9.0	2.3	630	17.1	115.0
W593121		0.13	1.8	0.054	2.69	23.9	47.8	0.59	569	0.72	1.51	9.3	2.2	620	21.0	113.0
W593122		0.13	1.7	0.046	3.06	27.5	24.3	0.54	511	0.56	1.24	8.7	2.2	610	18.2	130.5
W593123		0.14	1.4	0.045	3.03	26.8	64.2	0.72	1120	0.49	0.24	8.2	2.4	590	18.4	131.0
W593124		0.12	1.6	0.044	3.22	25.6	170.0	0.65	734	0.79	0.72	8.5	2.2	620	16.7	136.5
W593125		0.15	<0.1	0.005	0.03	1.4	1.5	2.30	142	0.05	0.05	0.2	0.3	70	0.7	1.1
W593126		0.16	1.6	0.039	3.00	25.6	16.3	0.86	648	1.66	2.44	8.1	2.5	630	15.7	121.0
W593127		0.15	1.5	0.040	3.13	24.2	21.1	0.74	569	1.14	2.19	8.0	2.2	590	17.4	133.0
W593128		0.15	1.5	0.043	3.15	26.9	175.5	0.70	663	0.91	1.01	8.3	2.3	610	13.9	149.5
W593129		0.14	1.7	0.041	3.27	27.4	219	0.64	659	0.87	0.41	8.4	2.1	610	16.5	142.5
W593130		0.13	1.7	0.040	3.03	22.5	75.6	0.70	761	1.02	1.38	8.6	2.1	550	16.7	124.0
W593131		0.10	0.6	0.016	1.07	12.2	141.0	0.46	1360	1.18	0.03	3.3	1.5	190	74.1	49.9
W593132		0.13	1.6	0.037	3.01	27.2	88.1	0.63	1080	1.08	1.07	8.7	2.3	560	26.8	142.0
W593133		0.14	1.6	0.038	3.04	24.8	85.9	0.62	1040	1.05	1.09	8.5	2.3	570	21.9	133.5
W593134		0.14	1.5	0.038	2.73	26.3	17.9	0.72	610	0.98	2.17	8.0	2.2	570	16.3	111.0
W593135		0.14	1.5	0.056	2.49	26.4	23.2	0.74	583	0.56	2.02	8.0	2.2	560	17.0	108.0
W593136		0.14	1.7	0.042	2.88	28.5	17.0	0.77	624	0.72	2.32	8.6	2.4	590	20.5	119.5
W593137		0.16	1.5	0.041	3.08	28.3	69.2	1.01	882	0.63	0.40	7.8	2.3	550	17.3	135.5
W593138		0.11	0.8	1.515	2.63	18.9	15.9	0.67	2290	17.45	0.06	4.6	14.0	450	1655	150.0
W593139		0.13	1.4	0.074	3.17	23.4	19.8	0.65	587	0.51	1.60	7.3	2.2	520	14.3	141.0
W593140		0.17	1.6	0.046	3.14	28.5	17.4	0.78	521	0.94	2.40	8.5	2.4	590	21.5	134.5
W593141		0.15	1.4	0.043	2.87	25.6	13.5	0.80	680	1.53	2.50	8.0	2.3	580	17.1	116.0
W593142		0.14	1.4	0.048	2.94	25.2	13.5	0.64	643	1.51	2.34	7.6	2.5	580	18.1	121.0
W593143		0.13	1.3	0.045	2.84	25.1	14.6	0.78	682	1.08	2.49	7.5	2.2	580	16.6	112.5
W593144		0.15	1.3	0.042	2.83	24.8	14.0	0.74	652	1.39	2.45	7.3	2.2	590	17.2	107.5
W593145		0.14	1.3	0.044	2.96	24.6	13.7	0.81	785	1.24	2.17	7.5	2.2	570	16.7	119.0
W593146		0.15	1.3	0.045	3.10	27.5	13.4	0.74	696	1.47	2.22	7.6	2.4	590	15.1	137.0
W593147		0.15	1.4	0.044	2.90	23.9	13.7	0.75	634	1.29	2.42	7.6	2.3	570	16.7	112.5
W593148		0.14	1.4	0.078	3.20	22.0	14.6	0.69	814	1.62	1.69	7.2	2.3	560	13.5	132.0
W593149		0.12	1.3	0.047	2.90	20.5	18.7	0.50	678	1.40	1.47	7.5	2.2	550	20.8	112.0
W593150		0.13	1.6	0.041	2.82	23.1	14.5	0.70	571	1.86	2.40	8.1	2.2	530	19.6	116.5
W594251		0.16	1.6	0.057	3.11	28.9	14.3	0.42	667	3.74	1.42	7.3	2.0	450	14.3	134.0
W594252		0.14	1.4	0.041	2.66	24.4	15.8	0.61	633	1.27	2.05	7.5	2.2	550	16.9	103.5
W594253		0.13	1.4	0.041	2.71	17.6	20.0	0.45	775	1.69	1.33	7.7	2.3	560	19.6	98.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255791

CERTIFICATE OF ANALYSIS WH19300245

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
W593114		<0.002	0.07	16.90	8.4	<1	1.4	371	0.73	<0.05	10.55	0.349	1.22	5.8	75	2.4
W593115		0.002	0.28	14.70	10.1	<1	2.2	286	0.63	<0.05	14.35	0.251	1.82	4.1	68	1.7
W593116		<0.002	0.44	5.53	10.1	<1	2.4	282	0.64	<0.05	13.40	0.251	1.47	3.4	67	2.9
W593117		0.018	6.58	34.7	13.2	13	7.2	161.0	0.20	0.73	3.77	0.206	2.48	6.5	407	6.5
W593118		<0.002	0.11	14.25	11.9	1	4.4	208	0.74	0.06	16.25	0.269	1.42	3.9	77	3.4
W593119		<0.002	0.13	13.25	11.1	1	1.9	148.0	0.70	<0.05	14.75	0.257	1.27	3.2	73	4.8
W593120		<0.002	0.10	23.2	11.5	1	2.3	117.5	0.73	<0.05	14.10	0.279	1.26	2.3	79	5.7
W593121		<0.002	0.05	14.40	11.1	<1	2.0	180.0	0.79	<0.05	14.40	0.266	1.32	4.7	71	2.7
W593122		<0.002	0.03	11.50	10.6	<1	1.7	167.5	0.72	<0.05	14.80	0.252	1.37	3.0	68	3.0
W593123		<0.002	0.63	18.20	10.3	<1	2.1	155.5	0.64	<0.05	13.90	0.253	1.84	4.6	69	4.2
W593124		<0.002	0.14	17.75	10.7	<1	1.7	196.5	0.69	<0.05	15.05	0.267	1.75	4.1	72	2.6
W593125		<0.002	<0.01	0.15	0.2	1	<0.2	81.2	<0.05	<0.05	0.12	0.006	<0.02	0.2	2	<0.1
W593126		<0.002	0.01	3.48	11.1	1	1.6	407	0.64	<0.05	13.10	0.276	1.26	3.1	76	2.0
W593127		<0.002	0.05	5.58	10.1	<1	1.5	349	0.65	<0.05	13.50	0.256	1.44	3.9	68	2.0
W593128		<0.002	0.13	19.95	11.1	1	1.9	218	0.64	<0.05	13.50	0.261	1.64	3.2	70	3.5
W593129		<0.002	0.04	30.1	10.5	1	1.6	207	0.70	<0.05	14.35	0.261	1.65	3.5	71	5.8
W593130		<0.002	0.04	12.30	10.1	1	2.1	277	0.77	<0.05	13.15	0.248	1.51	4.7	67	2.7
W593131		<0.002	0.10	136.0	4.7	<1	2.4	109.5	0.26	<0.05	6.06	0.104	0.80	7.4	43	2.2
W593132		<0.002	0.09	20.2	10.3	<1	2.0	231	0.75	<0.05	14.10	0.245	1.60	5.2	66	2.5
W593133		<0.002	0.07	19.90	10.1	1	1.7	233	0.73	<0.05	13.40	0.243	1.51	4.3	67	2.4
W593134		<0.002	0.05	3.49	10.3	<1	1.6	359	0.63	<0.05	13.35	0.244	1.05	4.2	67	1.3
W593135		<0.002	0.02	7.34	9.8	1	1.8	325	0.65	<0.05	13.55	0.248	1.14	3.6	63	2.0
W593136		<0.002	0.02	4.23	10.9	<1	1.6	370	0.69	<0.05	14.65	0.256	1.23	5.5	70	1.7
W593137		<0.002	0.24	12.30	9.9	<1	1.5	177.5	0.67	<0.05	14.05	0.239	1.94	6.0	63	2.2
W593138		0.004	7.82	106.0	8.1	1	10.6	62.7	0.37	0.78	8.44	0.158	2.15	5.2	55	6.7
W593139		<0.002	0.14	7.47	9.5	1	2.0	252	0.60	<0.05	12.15	0.230	1.68	5.7	75	2.0
W593140		<0.002	0.04	4.35	11.0	<1	2.1	363	0.65	<0.05	14.10	0.258	1.28	4.7	68	1.7
W593141		<0.002	0.01	2.26	10.3	<1	2.2	421	0.62	<0.05	14.00	0.256	1.11	4.4	70	1.7
W593142		<0.002	0.02	4.08	10.9	<1	2.4	359	0.63	<0.05	13.80	0.249	1.22	4.3	69	1.6
W593143		<0.002	0.01	1.37	10.8	1	2.1	395	0.64	<0.05	13.85	0.259	1.08	4.6	71	1.4
W593144		<0.002	0.01	1.60	10.3	<1	1.8	422	0.61	<0.05	13.90	0.255	1.08	4.3	70	1.5
W593145		<0.002	0.03	2.65	10.6	1	1.8	375	0.62	<0.05	12.85	0.252	1.24	5.0	70	1.9
W593146		<0.002	0.04	3.30	11.3	1	1.8	344	0.62	<0.05	13.95	0.257	1.31	4.6	71	2.2
W593147		<0.002	0.01	1.56	10.5	<1	1.8	398	0.63	<0.05	13.00	0.255	1.15	3.6	69	1.8
W593148		0.002	0.04	2.48	10.2	1	1.7	236	0.63	<0.05	12.85	0.248	1.43	6.2	68	3.5
W593149		<0.002	0.03	9.51	10.0	1	1.7	255	0.66	<0.05	12.00	0.244	1.26	3.9	68	3.2
W593150		<0.002	0.01	1.90	10.3	<1	1.6	373	0.74	<0.05	15.25	0.235	1.13	5.0	65	2.0
W594251		<0.002	0.04	6.16	8.9	1	1.6	225	0.75	<0.05	19.40	0.204	1.44	5.8	56	1.8
W594252		<0.002	0.01	5.66	10.1	<1	1.6	347	0.62	<0.05	13.40	0.248	1.02	4.2	66	1.1
W594253		<0.002	0.02	11.75	10.3	1	1.7	251	0.66	<0.05	11.20	0.253	1.19	3.4	70	3.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19255791

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300245

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
W593114		15.5	69	160.5
W593115		18.0	74	47.7
W593116		17.7	46	40.0
W593117		14.4	8160	30.0
W593118		18.4	51	46.6
W593119		17.9	47	43.2
W593120		18.0	54	45.3
W593121		18.3	44	52.2
W593122		17.9	44	51.3
W593123		16.6	52	42.6
W593124		16.7	50	44.7
W593125		2.4	4	1.7
W593126		18.9	51	45.7
W593127		17.4	44	44.7
W593128		17.2	48	45.9
W593129		18.1	52	49.1
W593130		18.0	55	46.5
W593131		12.9	43	21.1
W593132		18.5	78	44.7
W593133		17.6	75	45.4
W593134		17.7	50	42.2
W593135		17.7	47	44.5
W593136		19.2	51	47.5
W593137		18.8	44	44.5
W593138		9.8	3300	22.0
W593139		17.3	36	43.0
W593140		18.7	42	49.2
W593141		18.2	53	39.0
W593142		16.8	51	39.9
W593143		16.4	54	36.8
W593144		16.1	54	36.9
W593145		18.0	51	37.5
W593146		17.1	48	39.9
W593147		16.4	49	38.4
W593148		15.3	44	36.5
W593149		16.0	47	38.0
W593150		17.3	48	43.0
W594251		14.9	41	43.1
W594252		16.0	52	38.7
W594253		15.6	52	38.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19255791

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300245

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02 ME-MS61

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE WH19300252

Project: ROCKHA_ WH19255805

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-NOV-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
Pb-OG62	Ore Grade Pb - Four Acid	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255805

CERTIFICATE OF ANALYSIS WH19300252

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
W594334		0.43	7.13	101.0	2090	1.60	0.63	2.57	3.43	48.9	10.3	13	12.60	25.6	3.02	15.90
W594335		1.77	7.49	94.6	2020	1.50	0.57	2.30	2.88	47.5	7.8	11	16.10	35.0	3.05	15.75
W594336		0.56	7.16	67.5	2250	1.58	0.88	2.56	0.77	45.4	8.5	15	6.61	27.4	3.02	15.35
W594337		5.19	7.46	717	1930	1.61	0.96	2.41	3.24	48.0	7.3	13	13.45	59.9	3.48	15.70
W594338		0.01	0.09	0.5	30	<0.05	0.04	33.3	0.02	1.13	0.7	1	0.06	2.4	0.13	0.27
W594339		2.84	7.31	822	1570	1.43	0.85	2.53	8.52	53.1	22.7	18	9.69	42.3	3.27	15.50
W594340		1.03	7.26	113.5	2270	1.31	1.11	2.66	0.35	48.0	11.5	14	7.68	95.3	3.01	15.50
W594341		49.1	7.04	4630	580	1.28	1.20	2.18	10.30	60.5	12.5	11	13.60	380	4.58	15.65
W594342		0.53	7.22	99.0	2380	1.49	0.73	2.49	0.90	47.0	10.1	15	8.03	51.8	2.88	15.40
W594343		1.29	7.77	1485	2060	1.55	1.64	2.10	1.32	66.3	28.8	14	11.45	144.0	3.46	17.75
W594344		1.02	7.46	825	2180	1.54	1.66	2.09	0.89	57.2	31.7	12	11.35	125.0	3.32	16.80
W594345		2.37	7.37	1785	750	1.50	2.17	2.03	1.93	52.5	21.5	12	13.75	126.5	4.45	15.75
W594346		1.60	7.29	228	1580	1.25	1.73	2.03	2.91	45.6	24.5	13	7.59	297	3.37	14.85
W594347		0.48	7.19	35.8	2620	1.43	1.01	2.46	0.45	46.8	14.2	14	7.40	102.0	3.18	15.80
W594348		1.30	7.76	106.0	1930	1.44	2.00	2.29	0.28	45.1	41.9	11	11.35	274	3.26	16.50
W594349		0.90	7.40	75.7	2080	1.40	1.17	2.33	1.63	55.9	16.5	12	7.38	135.5	3.23	15.70
W594350		0.44	7.49	33.8	2440	1.34	1.08	2.45	0.36	40.3	12.5	14	6.98	78.1	2.17	15.00
W594351		0.47	7.32	18.1	2700	1.49	1.22	2.37	0.12	51.1	13.5	12	5.44	220	3.31	15.75
W594352		0.49	7.81	23.9	2560	1.59	0.94	2.55	0.23	51.4	8.8	16	9.11	106.0	3.30	16.50
W594353		0.21	7.42	12.3	3190	1.64	0.67	2.35	0.63	43.2	5.4	12	8.95	17.7	2.29	15.55
W594354		100.0	5.47	241	610	0.62	5.15	1.44	24.9	19.10	12.0	62	0.92	5940	5.67	11.80
W594355		0.24	7.53	14.1	3070	1.54	0.84	2.57	0.12	56.6	7.2	14	10.20	33.4	2.98	15.50
W594356		0.35	6.98	20.6	2320	1.59	0.68	2.83	0.10	43.2	6.9	12	15.40	12.7	3.31	14.70
W594357		0.76	7.21	28.2	1870	1.36	1.16	2.58	0.35	46.9	6.8	12	14.85	34.1	2.94	15.55
W594358		0.11	7.82	5.4	2280	1.75	0.26	2.70	0.09	45.0	6.0	15	6.08	10.7	3.23	17.85
W594359		0.76	7.76	19.9	2140	1.53	2.88	2.91	0.16	47.4	10.7	15	7.69	45.4	3.76	17.05
W594360		1.40	7.81	21.8	2030	1.66	8.66	2.66	0.13	49.9	8.4	15	9.18	79.2	3.22	17.95
W594361		3.45	7.57	730	690	1.58	6.82	2.38	2.71	55.9	9.1	11	15.50	33.5	4.14	16.75
W594362		0.35	7.59	19.6	1640	1.63	1.43	2.47	0.28	48.5	8.5	13	8.19	18.2	3.26	16.90
W594363		2.12	7.41	74.4	160	1.03	6.76	0.26	0.24	24.8	8.8	11	5.39	16.0	6.96	19.55
W594364		2.54	7.51	74.9	610	1.14	7.54	0.33	0.17	13.30	9.3	13	5.57	15.4	7.02	20.6
W594365		3.15	7.79	91.7	530	1.50	6.63	1.74	1.12	50.0	6.6	12	12.00	32.4	5.90	18.50
W594366		2.07	7.49	61.3	720	1.46	9.57	2.03	0.64	47.1	6.5	11	12.45	17.2	5.61	16.95
W594367		38.5	5.99	2690	1150	1.28	40.7	1.75	45.3	35.3	15.7	23	9.11	1195	9.42	13.35
W594368		0.83	7.67	36.8	1590	1.53	2.18	2.40	0.35	45.8	5.7	13	14.80	82.9	3.02	16.45
W594369		2.21	7.39	55.1	1200	1.78	3.69	2.66	0.58	42.5	6.1	11	22.3	102.0	3.31	17.40
W594370		0.27	7.94	10.4	2440	1.70	2.60	2.66	0.09	46.4	6.7	15	9.21	71.9	3.35	17.85
W594371		2.75	7.45	37.0	1830	1.55	2.81	2.82	1.34	47.1	7.0	12	14.60	113.5	4.13	16.85
W594372		0.21	8.10	8.2	2230	1.65	0.73	2.75	0.12	54.0	6.3	15	7.58	17.4	3.75	17.50
W594373		0.42	7.35	29.1	2130	1.52	1.02	2.88	0.31	43.2	6.0	13	10.80	59.7	3.10	16.90

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255805

CERTIFICATE OF ANALYSIS WH19300252

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
W594334		0.14	1.2	0.107	2.99	25.1	14.4	0.73	518	0.54	1.96	7.7	3.0	590	40.8	120.0
W594335		0.13	1.2	0.140	3.04	24.6	18.6	0.75	455	0.85	1.09	7.4	2.6	620	177.5	131.5
W594336		0.15	1.2	0.103	2.84	22.4	13.1	0.78	427	0.76	2.17	7.4	2.8	590	55.7	106.5
W594337		0.13	1.1	0.127	3.45	26.3	11.6	0.75	821	0.48	1.09	7.3	2.8	590	816	170.0
W594338		0.15	<0.1	0.005	0.02	1.3	1.1	1.96	131	<0.05	0.03	0.1	0.3	80	0.9	0.6
W594339		0.17	1.2	0.187	2.97	28.4	9.7	0.80	860	1.14	1.60	7.2	2.9	590	378	162.5
W594340		0.15	1.2	0.133	2.97	25.3	12.4	0.83	479	0.72	2.01	7.4	2.8	590	76.3	126.0
W594341		0.13	1.0	0.291	3.57	33.9	10.2	0.85	526	2.01	0.76	6.4	2.7	550	8030	220
W594342		0.13	1.1	0.095	2.96	24.5	11.3	0.74	365	0.71	2.02	7.2	2.7	570	82.3	111.5
W594343		0.14	1.2	0.167	3.62	36.4	15.8	0.78	446	0.95	1.38	7.7	3.0	630	90.9	196.5
W594344		0.12	1.2	0.155	3.49	30.7	12.5	0.74	443	1.03	1.60	7.2	3.0	590	62.2	181.5
W594345		0.11	1.1	0.156	3.16	29.2	13.1	0.74	388	0.75	1.21	7.2	3.2	580	115.5	164.0
W594346		0.12	0.9	0.179	3.44	24.3	9.9	0.73	344	2.32	1.74	6.2	2.9	580	89.8	158.5
W594347		0.12	1.0	0.120	2.83	23.4	11.6	0.82	346	0.86	1.91	7.4	2.8	610	26.2	109.5
W594348		0.15	1.1	0.136	3.21	24.2	14.5	0.72	389	23.2	1.13	7.0	3.6	610	39.6	179.5
W594349		0.15	1.1	0.162	3.07	31.8	13.8	0.80	473	3.48	1.59	6.7	3.1	590	39.4	160.0
W594350		0.13	1.1	0.084	3.22	21.7	8.8	0.58	268	3.22	1.29	6.3	3.0	600	67.4	153.0
W594351		0.13	1.2	0.164	2.89	27.5	12.3	0.84	328	0.69	1.79	6.9	2.8	590	13.4	112.0
W594352		0.14	1.1	0.099	2.85	27.1	14.1	0.89	338	1.22	2.04	8.0	3.0	620	16.4	106.5
W594353		0.14	1.2	0.148	3.19	22.5	11.4	0.71	404	0.65	1.83	7.4	2.6	610	34.7	124.5
W594354		0.08	1.4	0.437	1.12	9.0	12.7	1.11	1690	21.3	1.62	3.1	28.2	450	>10000	29.0
W594355		0.13	1.2	0.152	3.01	30.7	11.4	0.82	428	0.68	1.82	7.3	3.1	610	22.7	121.0
W594356		0.13	1.1	0.096	2.84	21.4	10.0	0.79	605	1.00	1.48	7.4	3.0	590	19.7	108.0
W594357		0.14	1.1	0.139	2.88	24.5	16.6	0.82	706	1.47	1.15	7.4	2.7	610	40.3	130.5
W594358		0.18	1.2	0.066	2.85	21.0	16.4	0.90	479	1.41	2.46	8.5	4.3	640	20.1	97.7
W594359		0.17	1.1	0.082	2.72	22.8	15.7	0.89	466	0.68	2.11	8.0	3.4	670	22.2	109.5
W594360		0.17	1.2	0.130	3.17	24.9	12.9	0.92	349	0.70	1.67	7.7	3.2	650	29.3	135.0
W594361		0.17	1.1	0.102	3.51	29.5	11.2	1.02	638	0.50	0.06	6.0	2.9	610	340	234
W594362		0.16	1.0	0.098	3.39	24.3	13.6	0.81	546	0.53	1.44	6.6	2.9	630	22.0	148.5
W594363		0.11	1.0	0.137	3.52	9.4	5.3	0.35	172	1.38	0.06	5.5	3.0	590	36.1	140.5
W594364		0.13	1.0	0.145	3.63	5.4	5.8	0.37	213	1.15	0.06	5.7	3.3	580	34.5	143.0
W594365		0.13	1.0	0.236	3.70	26.0	6.2	0.80	1780	0.52	0.04	6.0	3.0	600	48.5	204
W594366		0.14	1.0	0.212	3.65	24.6	9.8	0.84	979	0.51	0.19	5.8	2.9	600	38.5	208
W594367		0.13	0.9	1.420	2.74	16.8	16.7	0.71	2380	16.95	0.06	4.4	14.5	460	1705	149.0
W594368		0.14	1.0	0.152	3.05	23.5	18.6	0.82	1410	0.49	0.93	7.2	2.7	620	26.3	127.5
W594369		0.10	1.1	0.158	3.12	20.7	20.9	0.87	1540	0.96	0.21	7.6	3.2	630	56.7	109.5
W594370		0.15	1.1	0.174	2.92	23.0	12.3	0.88	383	0.48	2.00	7.9	3.3	630	16.0	121.0
W594371		0.16	1.0	0.210	3.25	23.5	20.9	0.99	1000	0.65	0.82	7.0	3.1	620	58.8	149.0
W594372		0.18	1.2	0.111	3.09	26.7	14.6	0.95	612	0.48	2.15	7.9	3.3	650	18.7	117.5
W594373		0.17	1.0	0.124	2.90	21.9	13.7	0.73	405	0.74	1.80	7.5	3.0	600	28.8	109.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255805

CERTIFICATE OF ANALYSIS WH19300252

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
W594334		<0.002	0.43	19.00	11.1	1	2.2	349	0.64	0.11	13.60	0.248	1.43	5.2	70	1.0
W594335		<0.002	0.71	29.5	11.0	1	2.9	218	0.62	0.06	14.55	0.255	1.63	4.6	73	2.1
W594336		<0.002	0.41	7.54	10.8	<1	2.4	367	0.63	0.18	12.25	0.249	1.40	4.5	71	1.4
W594337		<0.002	1.38	30.4	10.6	1	5.4	246	0.60	0.15	13.35	0.251	2.10	4.5	70	2.4
W594338		<0.002	<0.01	0.09	0.2	1	<0.2	82.2	<0.05	<0.05	0.10	0.006	<0.02	0.1	2	<0.1
W594339		<0.002	1.07	21.3	10.5	1	4.3	280	0.65	0.08	14.80	0.248	2.14	4.9	70	2.1
W594340		<0.002	0.58	13.85	10.7	1	2.3	348	0.62	0.08	13.40	0.252	1.56	4.6	71	1.2
W594341		<0.002	3.27	248	9.9	1	13.1	173.5	0.53	0.24	15.55	0.222	2.34	5.3	64	3.4
W594342		<0.002	0.48	4.57	10.2	1	2.0	368	0.63	0.09	13.00	0.245	1.43	3.9	68	0.7
W594343		<0.002	1.53	11.05	12.1	<1	7.6	241	0.65	0.34	17.65	0.255	2.20	5.7	75	2.7
W594344		<0.002	1.34	8.95	11.8	<1	6.4	243	0.62	0.40	16.55	0.242	2.13	5.4	73	2.4
W594345		<0.002	2.55	11.15	11.0	1	4.8	246	0.60	0.60	13.95	0.246	2.01	4.5	69	2.3
W594346		<0.002	1.69	7.28	10.0	1	3.3	243	0.52	0.66	12.45	0.228	1.96	4.2	69	1.9
W594347		<0.002	0.79	4.27	11.2	1	2.5	359	0.58	0.32	12.40	0.255	1.48	3.7	73	1.2
W594348		<0.002	1.70	9.60	11.2	1	2.5	160.0	0.59	0.35	13.95	0.243	2.25	5.0	73	2.2
W594349		<0.002	1.26	8.40	10.9	1	3.1	241	0.58	0.25	14.40	0.236	1.90	4.5	71	2.2
W594350		<0.002	1.21	21.1	10.5	1	3.2	225	0.52	0.22	13.30	0.221	1.94	5.1	69	5.3
W594351		<0.002	1.16	2.58	10.9	1	2.9	360	0.59	0.29	13.00	0.243	1.54	4.5	71	1.7
W594352		<0.002	0.51	4.88	11.7	1	2.3	389	0.65	0.21	14.90	0.266	1.41	4.9	75	0.9
W594353		<0.002	0.64	3.14	11.6	1	2.6	309	0.63	0.12	14.00	0.251	1.93	4.5	75	2.4
W594354		0.010	2.29	443	12.0	2	1.9	190.0	0.21	1.27	1.85	0.240	0.49	1.3	80	0.6
W594355		<0.002	0.76	4.17	11.1	1	2.4	352	0.61	0.22	14.60	0.253	1.62	5.1	73	1.7
W594356		<0.002	0.83	3.53	10.5	1	2.8	311	0.63	0.16	12.10	0.254	1.51	4.7	71	1.3
W594357		<0.002	0.75	6.57	10.8	1	2.8	234	0.65	0.27	13.50	0.250	1.96	6.2	71	2.2
W594358		<0.002	0.05	2.24	11.3	1	2.2	429	0.70	0.05	12.80	0.275	1.33	4.0	76	0.6
W594359		0.002	0.99	2.10	11.8	1	2.6	355	0.61	0.30	12.10	0.268	1.48	3.7	77	0.7
W594360		0.002	1.13	2.41	11.7	<1	3.8	304	0.57	2.33	13.05	0.263	2.29	3.6	76	1.3
W594361		<0.002	3.24	9.06	10.4	1	5.1	125.5	0.45	1.83	13.45	0.216	3.26	4.4	66	4.2
W594362		<0.002	1.74	2.71	10.3	<1	3.4	307	0.48	0.36	11.55	0.234	2.21	3.5	70	3.3
W594363		<0.002	7.46	1.96	11.3	1	14.0	10.6	0.40	0.78	9.59	0.201	2.15	3.6	77	12.6
W594364		<0.002	7.56	2.14	11.4	1	14.0	11.8	0.39	0.83	9.56	0.203	2.12	2.8	75	12.3
W594365		<0.002	4.96	7.09	11.0	1	9.1	48.8	0.44	1.10	13.25	0.220	3.07	4.5	69	7.4
W594366		<0.002	4.41	4.79	10.2	1	6.9	115.5	0.44	1.21	11.90	0.210	2.94	3.7	67	4.8
W594367		0.003	8.15	107.0	8.1	1	11.0	64.3	0.36	0.77	8.83	0.173	2.25	5.1	58	7.5
W594368		<0.002	0.85	9.98	10.6	<1	2.7	222	0.53	0.24	11.85	0.261	2.53	3.6	72	4.3
W594369		0.002	1.07	24.3	10.4	1	3.3	134.0	0.59	0.38	10.95	0.262	2.70	3.9	74	1.8
W594370		<0.002	0.52	3.16	11.5	1	2.8	374	0.60	0.52	12.90	0.270	1.86	3.8	75	0.8
W594371		<0.002	0.96	7.78	10.4	1	3.9	217	0.55	1.40	12.10	0.244	2.50	4.0	71	3.1
W594372		<0.002	0.29	2.09	11.2	<1	2.6	382	0.65	0.08	14.45	0.272	1.68	4.2	76	1.4
W594373		<0.002	0.54	4.59	10.4	1	2.4	349	0.56	0.36	11.15	0.260	1.65	3.7	71	1.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 9-DEC-2019
Account: ROCKHA

Project: ROCKHA_ WH19255805

CERTIFICATE OF ANALYSIS WH19300252

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62
	Analyte	Y	Zn	Zr	Ag	Pb
	Units	ppm	ppm	ppm	ppm	%
	LOD	0.1	2	0.5	1	0.001
W594334		15.6	178	30.5		
W594335		15.4	154	29.4		
W594336		14.9	61	28.9		
W594337		13.5	197	28.2		
W594338		2.3	4	1.3		
W594339		15.0	354	28.3		
W594340		15.0	49	27.5		
W594341		13.0	402	26.6		
W594342		14.3	61	26.8		
W594343		15.4	79	31.5		
W594344		14.9	63	30.2		
W594345		14.2	113	27.9		
W594346		12.6	148	24.1		
W594347		14.8	46	26.0		
W594348		14.7	53	28.7		
W594349		13.9	92	27.1		
W594350		12.1	33	28.6		
W594351		15.1	38	29.7		
W594352		16.7	39	29.3		
W594353		14.3	81	30.3		
W594354		13.6	4960	47.0	104	1.025
W594355		16.2	41	29.5		
W594356		13.9	40	27.0		
W594357		14.8	56	27.9		
W594358		17.9	38	29.8		
W594359		17.1	42	25.3		
W594360		14.1	33	30.9		
W594361		12.2	157	25.1		
W594362		11.9	42	24.8		
W594363		5.3	23	22.9		
W594364		4.9	20	24.3		
W594365		9.9	106	23.2		
W594366		11.0	67	23.4		
W594367		8.6	3410	21.2		
W594368		12.9	44	24.4		
W594369		12.4	85	26.0		
W594370		15.5	31	24.2		
W594371		12.9	142	22.5		
W594372		17.0	42	28.0		
W594373		13.5	40	24.5		

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_ WH19255805

Finalized Date: 9-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19300252

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	FND-02	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2019
Account: ROCKHA

CERTIFICATE WH19312105

Project: ROCKHA_WH19255805

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-DEC-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2019
Account: ROCKHA

Project: ROCKHA_WH19255805

CERTIFICATE OF ANALYSIS WH19312105

Sample Description	Method Analyte Units LOD	Au-AA24 Au ppm 0.005
W594334		0.027
W594335		0.097
W594336		0.053
W594337		0.309
W594338		<0.005
W594339		0.116
W594340		0.051
W594341		2.74
W594342		0.034
W594343		0.308
W594344		0.199
W594345		0.613
W594346		0.188
W594347		0.037
W594348		0.110
W594349		0.083
W594350		0.044
W594351		0.175
W594352		0.035
W594353		0.011
W594354		0.245
W594355		0.017
W594356		0.015
W594357		0.026
W594358		<0.005
W594359		0.081
W594360		0.105
W594361		0.461
W594362		0.058
W594363		0.130
W594364		2.79
W594365		0.177
W594366		0.140
W594367		1.755
W594368		0.071
W594369		0.076
W594370		0.074
W594371		0.131
W594372		0.019
W594373		0.044

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: ROCKHA_WH19255805

Finalized Date: 16-DEC-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19312105

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24 FND-02

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE WH19231869

Project: Klaza

P.O. No.: 19-001

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19231869

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W603751		3.69			0.88	7.37	44.0	3220	2.05	0.19	2.05	0.70	50.9	4.6	6	22.0
W603752		3.83			1.49	7.15	43.0	1640	1.68	0.14	2.07	0.75	54.9	4.1	5	19.20
W603753		3.39			15.05	8.09	424	990	1.94	9.90	0.44	31.7	59.5	2.7	9	27.9
W603754		5.08			0.06	0.10	1.3	50	0.05	0.05	21.3	0.10	1.31	0.6	1	0.28
W603755		2.39			26.1	5.06	437	1100	1.28	3.16	2.37	57.6	29.7	5.6	9	11.00
W603756		3.56			12.80	7.83	245	1240	1.52	7.50	0.51	35.9	12.40	5.1	9	10.25
W603757		4.59			0.80	8.17	59.4	1710	1.70	1.58	1.43	34.0	71.7	7.3	9	16.75
W603758		4.82			0.18	7.53	12.2	1760	1.82	0.44	2.46	1.54	42.9	5.1	10	19.35
W603759		4.41			0.18	7.56	18.5	1680	1.67	0.51	2.44	1.88	45.2	5.2	12	9.09
W603760		2.67			0.28	7.73	23.4	2210	1.61	0.92	2.60	2.09	52.1	6.2	12	11.90
W603761		1.09			6.32	7.69	289	530	1.43	11.85	0.74	3.63	44.0	6.5	9	8.95
W603762		1.27			2.68	7.68	249	1410	1.52	7.06	0.80	4.08	45.0	6.5	10	10.50
W603763		4.47			0.76	7.70	60.1	1850	1.80	1.35	2.07	2.99	50.4	9.0	12	8.79
W603764		3.17			0.18	7.64	14.5	2260	1.71	0.45	2.45	0.60	51.7	6.6	14	9.00
W603765		1.93			0.30	6.41	65.3	990	2.11	0.53	0.88	14.05	51.2	3.1	6	7.54
W603766		5.43			0.45	7.28	19.3	2060	1.85	2.79	2.35	0.74	39.2	6.7	11	7.24
W603767		5.75			0.31	7.59	17.6	2110	1.86	0.90	2.44	0.71	43.6	5.4	11	7.58
W603768		4.86			0.13	7.10	8.1	2010	1.75	0.52	2.45	0.24	44.0	5.6	12	5.69
W603769		5.13			0.25	7.60	19.7	2060	1.88	1.17	2.46	0.92	43.2	5.9	11	7.58
W603770		4.53			0.15	7.35	9.5	1880	1.72	0.62	2.75	0.25	41.7	5.3	11	5.92
W603771		5.02			1.68	7.27	120.0	940	1.69	4.79	1.87	1.52	49.8	9.1	10	9.80
W603772		4.51			0.14	7.41	13.2	1970	1.81	0.70	2.54	0.21	44.4	5.9	11	8.70
W603773		5.02			0.17	7.39	16.5	2110	1.86	0.88	2.54	0.20	46.4	7.5	12	9.95
W603774		2.82			5.71	7.50	119.5	1410	1.71	8.91	1.86	3.36	68.4	6.4	11	10.25
W603775		1.40			72.8	6.52	765	430	1.46	115.0	0.46	9.40	31.9	11.1	8	4.78
W603776		<0.02			87.4	6.62	841	220	1.45	139.0	0.48	9.58	29.6	11.3	9	4.84
W603777		4.70			2.76	7.89	79.5	720	1.92	5.95	1.97	6.71	51.4	10.7	11	15.35
W603778		2.76			2.80	7.53	49.1	2350	1.78	3.89	1.44	8.27	14.55	5.9	11	10.00
W603779		4.46			0.41	7.41	61.8	1760	2.40	0.38	3.02	2.36	59.9	8.2	22	14.55
W603780		0.26	103	1.005	>100	5.59	251	480	0.79	5.15	1.45	23.9	19.65	12.5	66	0.88
W603781		4.52			0.05	7.10	37.7	1110	2.14	0.16	3.39	2.01	53.0	7.0	22	13.75
W603782		1.89			0.04	7.02	35.7	960	2.32	0.18	3.14	0.65	54.3	8.0	23	13.65
W603783		3.07			1.00	6.15	73.7	2140	1.55	3.42	0.55	0.85	24.6	3.1	10	12.10
W603784		3.43			1.52	5.11	63.1	1580	1.08	2.64	1.11	1.02	12.45	7.3	15	4.70
W603785		2.70			3.66	5.62	131.0	500	1.33	4.98	0.50	11.45	14.80	3.3	11	4.21
W603786		3.64			2.93	7.65	280	1490	1.81	4.42	0.08	1.42	20.4	6.6	14	5.24
W603876		4.99			0.26	7.94	12.0	2440	1.99	0.40	2.02	0.83	55.3	7.2	11	8.38
W603788		0.26			40.2	5.94	2650	450	1.32	38.4	1.71	46.6	37.4	17.8	23	10.35
W603789		3.43			3.08	7.64	98.0	1370	1.82	4.31	0.67	3.86	92.7	12.3	10	9.46
W603790		4.64			0.31	7.40	68.4	2370	2.03	2.84	2.51	0.51	75.8	5.4	11	13.35

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W603751		5.6	2.58	18.05	0.15	2.0	0.041	2.02	23.8	120.5	0.58	1070	1.45	0.24	9.4	2.3
W603752		8.6	2.52	17.35	0.14	2.0	0.053	1.63	26.6	217	0.64	1160	1.84	0.30	8.5	2.3
W603753		149.0	3.33	19.35	0.13	1.9	1.755	2.65	32.2	90.6	0.39	968	4.98	0.13	8.6	1.4
W603754		2.2	0.48	0.33	0.12	<0.1	0.009	0.03	0.6	2.6	12.85	206	0.13	0.01	0.2	1.4
W603755		162.0	3.99	11.60	0.09	1.4	1.160	2.16	16.0	18.5	0.95	3320	22.7	0.03	4.9	4.2
W603756		177.0	3.20	16.40	0.12	1.2	0.433	3.77	6.3	6.8	0.42	1140	19.75	0.05	5.7	1.7
W603757		113.0	3.09	17.05	0.18	1.2	0.265	3.29	37.5	20.0	0.58	1260	3.23	0.34	6.7	2.8
W603758		14.7	2.54	16.15	0.14	1.4	0.092	2.14	21.9	11.5	0.56	507	2.25	2.57	7.9	2.5
W603759		12.7	2.37	15.85	0.15	1.3	0.110	1.91	22.2	8.8	0.74	618	1.65	3.05	7.6	2.5
W603760		22.4	2.84	15.95	0.16	1.4	0.152	2.61	27.6	11.1	0.74	813	2.22	2.37	7.6	2.9
W603761		160.0	4.45	17.90	0.11	1.1	0.363	3.28	22.3	9.7	0.44	573	2.07	0.84	6.6	2.2
W603762		158.0	3.56	17.70	0.15	1.2	0.371	3.14	22.6	17.6	0.40	539	2.05	1.07	7.0	2.3
W603763		89.0	3.65	16.00	0.16	1.5	0.314	2.96	26.2	10.3	0.71	901	2.94	1.95	7.6	2.8
W603764		21.6	3.13	16.15	0.16	1.3	0.202	2.80	26.5	12.0	0.82	695	2.33	2.02	7.7	3.0
W603765		207	2.13	11.55	0.16	2.4	0.246	3.04	29.4	10.1	0.35	753	3.11	1.31	6.8	1.2
W603766		33.7	2.77	15.90	0.14	1.8	0.144	2.72	18.2	12.9	0.70	596	3.02	2.26	8.2	2.5
W603767		35.9	2.82	16.35	0.17	1.3	0.184	2.71	21.4	11.8	0.74	696	4.55	2.41	8.0	2.4
W603768		14.5	2.82	15.40	0.18	1.3	0.098	2.51	21.9	9.7	0.84	629	5.81	2.49	7.9	2.6
W603769		41.2	3.01	16.60	0.17	1.4	0.147	2.70	22.1	14.1	0.84	651	4.18	2.42	8.0	2.8
W603770		15.5	2.72	15.90	0.14	1.2	0.100	2.24	20.1	11.2	0.85	725	14.95	2.67	7.4	2.5
W603771		121.0	4.06	16.15	0.15	1.2	0.309	3.01	25.4	12.3	0.71	1150	43.5	0.91	7.0	2.4
W603772		9.3	2.56	16.20	0.12	1.5	0.108	2.45	21.5	9.5	0.82	614	6.45	2.77	8.3	3.0
W603773		16.1	2.74	16.30	0.13	1.5	0.105	2.65	22.9	9.7	0.82	589	6.60	2.45	8.3	2.9
W603774		179.0	3.38	19.25	0.13	1.2	0.257	3.28	33.9	8.9	0.75	909	13.80	1.30	7.5	2.7
W603775		1525	8.73	17.20	0.11	1.2	0.486	3.23	14.9	5.0	0.41	341	2.35	0.05	5.2	2.4
W603776		1615	9.30	16.95	0.12	1.2	0.501	3.27	13.7	5.0	0.42	357	2.03	0.05	5.1	2.4
W603777		96.0	4.03	18.00	0.14	1.4	0.348	3.69	27.0	13.1	0.88	1420	5.16	0.07	6.5	2.6
W603778		47.4	2.60	14.10	0.10	1.3	0.338	3.37	6.7	8.5	0.67	1150	15.75	0.08	6.0	1.7
W603779		36.4	2.76	20.6	0.16	4.6	0.049	2.50	29.1	25.9	0.78	824	2.87	0.98	11.7	9.3
W603780		6330	5.80	12.05	0.11	1.4	0.460	1.13	9.4	14.4	1.12	1760	19.85	1.64	3.2	28.0
W603781		5.6	2.61	20.4	0.09	4.5	0.028	2.38	25.8	27.3	0.74	628	0.42	0.68	12.0	8.3
W603782		7.0	2.39	20.4	0.13	4.6	0.036	2.31	25.8	57.4	0.62	918	0.33	0.05	11.5	8.5
W603783		98.7	1.27	13.95	0.09	1.5	0.240	2.82	12.7	13.2	0.35	414	30.7	0.04	6.0	1.8
W603784		77.4	1.70	8.62	0.09	0.8	0.360	2.47	6.5	7.6	0.46	991	13.90	0.04	3.7	1.1
W603785		189.5	2.72	10.60	0.08	0.8	0.410	2.75	7.4	6.6	0.34	1000	10.50	0.04	4.3	1.1
W603786		84.5	2.76	14.15	0.09	1.3	0.368	3.68	10.1	6.7	0.29	141	17.15	0.06	6.7	1.4
W603876		48.8	2.86	17.00	0.16	1.5	0.095	2.92	30.0	12.1	0.82	577	2.09	2.28	8.9	12.7
W603788		1220	9.29	14.05	0.14	0.9	1.640	2.66	19.6	16.8	0.69	2370	16.80	0.06	4.7	14.6
W603789		45.4	2.82	15.80	0.17	1.1	0.342	3.75	48.8	8.0	0.49	1180	18.70	0.05	6.6	2.8
W603790		85.3	2.47	17.70	0.17	1.2	0.317	3.59	36.7	14.8	0.69	528	3.14	1.07	7.3	3.9

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19231869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W603751		920	20.9	61.4	<0.002	0.14	6.15	5.2	<1	2.3	338	0.64	<0.05	7.61	0.323	1.25
W603752		830	38.7	55.8	<0.002	0.16	7.29	4.9	<1	2.4	270	0.60	<0.05	8.27	0.295	1.27
W603753		780	2030	149.0	<0.002	0.48	25.7	7.0	1	8.1	210	0.67	0.16	11.15	0.296	2.68
W603754		190	5.6	1.3	<0.002	<0.01	0.16	0.2	1	<0.2	51.5	<0.05	<0.05	0.12	<0.005	0.02
W603755		530	1330	137.0	0.005	1.26	31.6	5.2	<1	5.1	86.5	0.39	0.16	7.12	0.167	2.34
W603756		510	1025	238	0.006	1.65	17.00	9.3	<1	9.7	22.9	0.47	0.58	13.25	0.198	2.89
W603757		640	132.5	166.5	0.006	0.25	5.37	10.5	<1	3.1	99.4	0.52	0.08	12.65	0.247	2.41
W603758		570	20.0	74.9	0.004	0.06	3.23	10.3	<1	5.2	322	0.66	<0.05	12.00	0.265	0.92
W603759		570	16.2	68.0	0.003	0.09	2.16	10.9	<1	6.1	372	0.61	0.06	12.00	0.263	0.84
W603760		650	17.6	94.5	0.002	0.21	5.00	10.7	<1	5.4	359	0.57	0.06	11.90	0.268	1.21
W603761		430	115.5	180.5	0.002	2.99	7.10	9.8	<1	14.9	102.5	0.51	0.39	11.05	0.236	2.25
W603762		490	88.6	164.0	0.003	1.65	6.03	9.5	<1	12.1	132.5	0.56	0.32	12.85	0.234	2.02
W603763		580	40.6	126.5	<0.002	0.97	3.28	10.1	1	5.3	277	0.72	0.22	15.95	0.232	1.45
W603764		610	17.9	106.5	0.002	0.16	2.02	10.7	<1	3.0	333	0.61	<0.05	13.45	0.255	1.19
W603765		130	36.7	152.0	<0.002	0.08	3.54	2.6	<1	1.8	87.4	1.40	0.08	34.3	0.059	1.61
W603766		540	21.1	94.4	0.003	0.37	2.81	9.1	<1	3.0	327	0.77	0.39	14.05	0.228	1.09
W603767		570	19.7	104.5	0.003	0.36	2.52	10.1	1	3.3	336	0.78	0.18	14.50	0.240	1.15
W603768		520	15.0	82.8	0.005	0.26	1.82	9.6	<1	3.0	356	0.79	0.13	13.25	0.234	0.87
W603769		560	15.6	98.6	0.002	0.25	2.33	10.1	<1	2.9	359	0.79	0.16	13.85	0.241	1.07
W603770		540	14.9	74.8	0.010	0.07	1.92	10.2	<1	3.8	376	0.59	0.09	11.85	0.250	0.84
W603771		430	87.0	172.0	0.010	2.08	4.02	10.8	1	9.2	164.0	0.64	0.73	13.55	0.218	2.08
W603772		540	17.2	92.9	0.005	0.30	1.83	10.2	<1	3.4	364	0.86	0.17	16.45	0.242	0.90
W603773		580	16.9	100.5	0.005	0.27	1.84	10.7	<1	2.6	358	0.79	0.18	15.35	0.245	1.11
W603774		630	288	183.0	0.005	1.57	9.54	11.8	1	5.9	208	0.59	0.54	13.00	0.236	2.02
W603775		480	2460	202	0.003	9.33	39.1	9.1	1	11.9	21.0	0.57	4.08	11.65	0.179	2.11
W603776		490	2940	197.5	0.002	9.96	41.1	9.6	2	11.9	21.0	0.58	4.66	12.80	0.182	2.09
W603777		640	438	217	0.003	1.90	7.44	11.3	1	4.8	93.2	0.58	1.12	15.10	0.228	2.65
W603778		520	267	178.0	0.006	0.98	24.3	8.9	1	4.1	72.2	0.47	0.90	15.95	0.188	2.58
W603779		1280	28.9	78.4	0.002	0.07	9.28	6.0	<1	1.7	487	0.72	0.05	9.53	0.341	0.97
W603780		470	>10000	29.1	0.010	2.34	472	12.7	2	1.9	196.5	0.22	1.19	2.04	0.243	0.48
W603781		1170	15.6	62.6	<0.002	0.02	5.16	4.7	<1	1.6	375	0.73	<0.05	9.06	0.325	0.85
W603782		1270	16.8	64.9	<0.002	0.02	7.55	5.3	<1	1.7	290	0.72	<0.05	8.35	0.342	0.85
W603783		640	39.9	159.5	0.007	0.24	39.0	9.4	1	3.3	45.6	0.48	0.14	11.65	0.191	1.69
W603784		550	68.6	161.5	0.009	0.77	53.3	7.5	<1	2.5	42.2	0.28	0.38	8.64	0.129	2.15
W603785		490	244	184.5	0.017	2.00	26.0	8.3	<1	5.2	15.1	0.39	0.57	10.75	0.147	2.05
W603786		620	78.1	218	0.011	1.62	32.7	10.5	1	7.6	29.4	0.70	0.95	16.90	0.203	2.68
W603876		650	27.9	122.0	0.002	0.06	2.10	11.7	<1	2.0	348	0.67	0.05	15.90	0.265	1.29
W603788		470	1710	156.0	0.002	8.04	111.5	8.8	1	10.5	64.1	0.40	0.78	9.24	0.171	2.12
W603789		440	104.5	225	0.016	1.44	8.99	10.7	1	8.0	39.0	0.52	1.73	13.25	0.217	2.87
W603790		650	22.3	152.0	0.007	0.64	7.96	11.8	<1	3.9	233	0.56	0.35	11.70	0.242	2.15

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231869

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W603751		4.1	50	6.0	10.8	134	68.8	0.007
W603752		3.4	45	4.2	10.7	218	65.8	<0.005
W603753		4.1	64	9.2	9.2	2290	67.6	1.990
W603754		0.6	3	0.1	0.8	22	0.7	<0.005
W603755		3.0	47	36.0	7.5	3890	51.8	1.380
W603756		2.7	68	14.0	6.4	1400	37.8	0.200
W603757		3.5	75	1.9	16.4	2480	37.8	0.024
W603758		2.5	69	1.2	16.3	421	42.3	0.009
W603759		2.9	72	1.0	18.5	280	40.8	0.008
W603760		3.0	75	1.1	18.2	326	44.1	0.016
W603761		2.9	63	3.9	10.5	347	35.5	0.249
W603762		3.1	62	3.2	11.2	400	37.8	0.157
W603763		4.5	68	1.4	18.8	276	43.5	0.047
W603764		3.5	73	1.4	17.8	111	42.7	0.021
W603765		5.1	15	1.3	11.8	846	51.9	0.005
W603766		5.2	64	1.5	16.7	90	48.3	0.016
W603767		4.5	66	1.5	18.5	95	40.0	0.018
W603768		4.4	66	1.2	18.7	57	38.5	0.013
W603769		4.0	69	1.2	18.3	116	38.1	0.018
W603770		2.6	70	1.1	16.9	60	35.6	0.039
W603771		4.6	66	2.8	15.3	206	33.3	0.104
W603772		4.8	67	1.5	17.5	53	40.6	0.012
W603773		4.3	69	1.3	16.6	53	41.6	0.013
W603774		3.8	72	2.7	15.3	355	36.3	0.044
W603775		3.7	62	7.5	7.6	747	35.8	5.26
W603776		3.7	64	7.7	7.4	788	35.4	4.96
W603777		4.5	80	5.4	13.1	600	40.5	0.044
W603778		4.0	61	3.4	11.0	723	38.0	0.041
W603779		7.0	62	1.2	10.9	313	202	<0.005
W603780		1.3	82	0.6	14.2	5220	50.3	0.267
W603781		4.3	55	1.2	9.3	327	195.0	<0.005
W603782		5.3	60	1.5	10.1	223	205	<0.005
W603783		3.3	67	4.2	9.4	104	53.1	0.039
W603784		2.6	43	3.4	7.3	159	24.6	0.029
W603785		2.8	50	5.1	6.0	699	24.4	0.069
W603786		4.3	60	8.5	5.5	163	36.7	0.096
W603876		2.4	74	179.0	19.0	97	47.1	0.016
W603788		5.6	58	7.1	10.3	3500	26.8	1.790
W603789		3.6	60	6.0	9.9	295	32.4	0.083
W603790		3.2	79	1.8	16.0	126	38.2	0.041

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19231869

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE WH19231872

Project: Klaza

P.O. No.: 19-002

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16-SEP-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	MATT DUMALA	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-06	Double Bagging Coarse Rejects
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231872

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W603791		4.09				0.14	7.45	12.7	2420	1.74	1.25	2.31	0.15	52.3	6.0	11
W603792		4.74				0.23	7.43	26.9	2240	2.00	0.78	2.59	0.13	45.5	9.5	14
W603793		4.31				0.44	7.54	23.3	2010	1.79	4.15	2.18	0.16	50.6	6.7	11
W603794		2.56				0.29	7.62	18.8	1980	1.84	2.36	2.68	0.28	46.2	4.9	12
W603795		1.60				3.25	7.67	264	200	1.75	5.32	1.64	23.3	51.5	6.1	10
W603796		5.03				0.01	0.08	0.7	20	0.07	0.05	34.5	0.04	1.14	0.6	1
W603797		4.37				1.07	7.88	43.8	1970	1.42	1.18	2.22	13.00	52.4	6.3	12
W603798		4.67				0.42	7.10	29.7	1880	1.34	0.91	2.30	0.68	42.3	5.3	10
W603799		5.01				0.97	7.38	384	1840	1.50	0.33	2.08	4.10	52.2	5.5	11
W603800		4.61				0.39	7.11	34.6	1730	1.69	0.52	2.01	1.37	65.8	6.0	13
W603801		3.84				0.13	7.63	10.9	2580	1.58	0.59	2.78	0.10	49.6	7.1	11
W603802		3.06				0.36	8.25	34.2	2570	1.79	1.02	2.74	0.17	50.3	13.5	13
W603803		2.64				0.23	7.45	29.3	2290	1.54	0.77	2.62	0.32	49.8	10.2	12
W603804		4.84				0.14	7.91	19.5	2430	1.90	0.39	2.49	0.15	53.9	7.6	12
W603805		2.04				1.57	7.97	198.5	2070	1.67	3.54	1.79	10.20	129.5	10.0	11
W603806		2.26				1.14	8.22	90.9	1960	1.81	3.19	1.76	1.00	159.0	10.8	10
W603807		4.81				0.63	7.14	34.3	2230	1.64	2.18	2.96	0.36	44.0	7.2	11
W603808		3.97				0.17	7.55	12.0	2220	1.98	0.39	2.67	0.17	56.6	7.4	12
W603809		1.66				19.00	6.81	751	210	1.82	4.58	1.75	29.0	44.3	10.5	10
W603810		5.44				0.17	7.47	19.2	2580	1.89	0.38	2.88	0.66	44.9	6.7	11
W603811		4.43				0.58	7.58	49.4	2310	1.84	1.20	2.81	0.66	44.6	7.3	13
W603812		4.45				0.12	7.92	11.0	2570	1.92	0.32	2.76	0.12	49.9	7.9	16
W603813		3.42				0.27	8.09	24.1	2520	1.95	0.65	2.83	0.18	51.8	8.6	14
W603814		3.03				0.51	7.83	34.6	2280	1.97	0.81	2.78	0.32	48.1	7.8	13
W603815		1.25	11.50			90.4	6.43	386	50	1.54	172.0	1.66	8.12	36.5	10.8	9
W603816		0.28				38.9	5.64	2570	90	1.29	36.2	1.62	45.5	32.7	16.7	24
W603817		4.71				0.45	7.64	21.1	2200	1.81	2.75	2.80	0.28	47.5	7.3	13
W603818		2.84				4.35	7.05	37.6	110	1.54	22.0	3.03	0.35	40.2	9.3	10
W603819		4.72				0.14	7.40	12.1	2280	1.80	10.05	2.75	0.10	45.3	6.7	16
W603820		4.86				0.91	7.73	14.1	2090	1.75	2.36	2.66	0.14	47.8	6.6	14
W603821		0.26		102	1.000	>100	5.54	253	550	0.80	5.32	1.43	24.9	19.40	12.8	65
W603822		4.17				0.32	7.57	16.1	2510	1.85	1.48	2.45	0.11	44.1	9.5	11
W603823		2.72				0.55	8.06	29.3	1900	1.76	1.03	1.71	3.56	52.8	6.4	12
W603824		2.95				1.40	7.51	104.0	1000	2.04	2.44	3.63	5.92	64.9	5.8	9
W603825		3.13				0.63	7.06	47.0	460	1.89	5.29	1.98	0.30	73.8	15.9	11
W603826		<0.02				0.58	7.23	47.2	630	1.88	5.18	2.03	0.31	66.3	14.6	11
W603827		4.25				0.48	7.84	28.3	1310	1.92	3.37	1.45	0.18	55.3	6.0	11
W603828		5.36				0.16	7.70	16.9	2380	1.98	1.47	2.65	0.11	50.4	6.6	13
W603829		4.96				0.20	7.54	28.2	2340	1.88	1.46	2.74	0.12	46.2	6.3	13
W603830		4.99				0.12	8.20	11.9	2640	1.93	0.77	3.06	0.11	51.4	8.2	14

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W603791		8.09	19.9	2.99	16.35	0.14	1.2	0.106	2.69	27.1	11.7	0.78	543	6.73	2.39	7.9
W603792		8.85	14.6	3.22	16.40	0.13	1.6	0.095	2.84	22.7	15.3	0.83	619	1.34	2.16	8.6
W603793		9.99	42.6	3.42	17.25	0.14	1.1	0.180	2.63	25.5	18.7	0.85	666	4.86	1.63	8.0
W603794		8.79	27.1	3.39	16.45	0.13	1.1	0.131	2.40	23.1	13.4	0.92	721	4.21	2.12	8.6
W603795		16.35	105.5	4.97	17.85	0.14	1.4	0.697	3.62	26.9	10.9	0.60	1020	3.09	0.42	8.1
W603796		0.07	1.5	0.16	0.26	0.11	<0.1	0.006	0.02	1.2	0.8	2.66	140	0.06	0.03	0.1
W603797		10.75	47.6	3.49	16.60	0.15	1.4	0.993	2.84	27.2	12.0	0.74	618	3.27	1.88	8.3
W603798		9.31	20.0	2.47	14.80	0.15	1.5	0.106	3.07	22.8	9.8	0.57	540	2.33	1.84	7.6
W603799		9.22	22.5	2.36	15.55	0.15	1.7	0.159	3.44	27.7	9.3	0.57	592	5.74	1.90	8.3
W603800		7.86	15.5	2.27	15.00	0.17	1.7	0.097	3.36	35.6	13.3	0.55	509	2.52	1.81	7.9
W603801		14.20	13.4	3.04	16.55	0.16	1.4	0.081	2.81	24.6	10.7	0.76	529	9.47	2.23	8.4
W603802		7.53	39.6	3.58	18.00	0.17	1.4	0.112	2.95	26.2	10.9	0.94	729	1.80	2.31	8.6
W603803		8.64	25.4	3.31	18.25	0.13	1.5	0.079	2.73	26.1	14.3	0.85	628	4.41	1.95	8.6
W603804		6.25	12.8	2.95	17.00	0.15	1.5	0.065	3.05	29.2	10.3	0.90	619	4.43	2.49	8.7
W603805		9.53	28.1	3.83	18.50	0.19	1.4	0.618	2.87	83.3	18.3	0.70	777	32.6	1.17	8.1
W603806		10.00	33.3	3.66	19.60	0.18	1.4	0.238	2.94	101.0	18.0	0.67	808	36.9	1.20	8.5
W603807		9.66	26.9	3.40	15.95	0.13	1.2	0.136	2.63	21.8	16.8	0.91	795	9.63	1.68	8.0
W603808		8.80	11.0	3.05	17.20	0.13	1.5	0.068	2.86	29.8	14.2	0.86	632	6.43	2.25	8.4
W603809		14.55	92.6	4.86	17.10	0.12	1.1	0.777	3.32	22.7	7.3	0.69	1340	6.25	0.06	7.2
W603810		12.50	8.0	2.82	16.70	0.14	1.3	0.083	2.77	22.8	21.1	0.75	599	4.56	2.01	8.7
W603811		8.64	116.5	3.33	16.60	0.14	1.4	0.082	2.80	22.6	15.6	0.86	722	1.01	2.13	8.2
W603812		7.86	5.9	3.16	17.20	0.14	1.4	0.052	2.88	26.4	16.0	0.95	634	2.35	2.42	8.8
W603813		7.91	20.1	3.44	17.75	0.14	1.3	0.078	2.91	27.7	15.1	0.93	658	10.10	2.32	8.8
W603814		8.15	34.7	3.48	17.45	0.15	1.3	0.107	2.92	24.4	13.8	0.90	717	10.90	2.07	8.8
W603815		18.45	831	10.30	13.65	0.11	1.0	0.635	2.78	18.0	12.9	0.66	1700	3.87	0.19	6.4
W603816		10.00	1180	8.94	13.65	0.10	0.9	1.540	2.57	17.5	16.3	0.65	2280	16.10	0.06	4.5
W603817		7.97	49.4	3.36	17.35	0.12	1.3	0.110	2.83	24.2	11.7	0.87	636	2.93	2.03	8.2
W603818		10.85	35.7	5.43	15.15	0.13	1.3	0.082	3.02	20.8	14.8	0.81	996	4.47	1.08	6.4
W603819		8.21	17.3	2.81	16.25	0.12	1.4	0.067	2.79	23.5	12.0	0.83	560	5.10	2.31	8.2
W603820		6.58	39.3	3.12	16.80	0.13	1.3	0.114	2.46	24.6	13.3	0.94	605	6.93	2.46	8.5
W603821		0.89	6290	5.72	12.05	0.11	1.4	0.461	1.12	9.5	14.0	1.10	1740	22.3	1.62	3.2
W603822		12.10	24.0	2.98	17.00	0.13	1.4	0.101	2.87	22.6	18.5	0.68	479	15.35	1.81	8.8
W603823		17.50	40.1	2.88	17.60	0.13	1.5	0.168	3.00	27.8	34.8	0.60	882	8.34	0.36	9.0
W603824		22.6	124.5	3.57	16.80	0.14	1.4	0.374	3.13	38.5	19.4	1.14	1740	1.89	0.04	6.8
W603825		12.85	18.8	3.49	19.20	0.14	1.3	0.330	2.70	37.2	24.3	0.64	652	0.81	0.05	7.5
W603826		12.90	17.7	3.50	19.15	0.12	1.3	0.329	2.84	34.3	24.7	0.66	667	0.57	0.05	7.5
W603827		10.35	46.9	2.95	17.35	0.13	1.4	0.207	2.87	30.4	15.5	0.57	411	1.24	1.14	7.9
W603828		10.20	25.9	2.95	16.60	0.14	1.4	0.144	2.98	27.6	10.2	0.77	453	226	2.19	8.4
W603829		10.85	52.1	3.09	18.20	0.12	1.4	0.195	2.99	23.4	11.9	0.83	531	5.11	2.21	8.4
W603830		7.56	15.7	3.21	17.60	0.14	1.4	0.060	2.72	26.9	12.7	0.94	593	3.08	2.48	9.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W603791		3.0	610	16.1	99.8	0.006	0.26	3.31	10.8	<1	3.1	366	0.64	0.08	13.65	0.250
W603792		2.8	630	17.7	95.9	0.002	0.32	2.50	11.0	<1	2.4	367	0.70	0.20	13.80	0.263
W603793		3.3	610	17.7	111.0	0.007	0.97	4.12	11.4	1	4.4	261	0.62	0.38	13.30	0.250
W603794		2.8	600	16.8	97.9	0.008	0.40	2.86	12.1	<1	3.5	355	0.62	0.17	13.05	0.279
W603795		3.0	650	169.5	184.5	0.003	4.01	5.91	11.8	1	9.7	106.5	0.63	0.25	14.35	0.256
W603796		0.3	90	0.9	0.7	<0.002	0.01	0.07	0.2	1	<0.2	85.2	<0.05	<0.05	0.11	0.005
W603797		2.7	630	124.5	118.0	0.006	0.71	2.99	11.2	<1	3.3	297	0.68	0.12	15.35	0.259
W603798		2.0	450	32.3	116.5	0.005	0.27	3.45	7.6	<1	2.2	265	0.73	0.09	17.45	0.193
W603799		2.2	440	281	138.0	0.014	0.36	7.95	7.7	<1	2.1	264	0.81	0.08	20.1	0.185
W603800		2.1	410	90.9	145.5	0.005	0.37	3.44	7.9	<1	2.1	238	0.86	0.08	20.1	0.176
W603801		2.7	710	15.1	94.4	0.030	0.23	3.10	12.3	<1	3.1	381	0.66	0.07	12.50	0.294
W603802		3.0	720	23.9	125.0	0.002	0.68	2.31	12.7	1	3.3	395	0.61	0.30	12.45	0.298
W603803		3.3	680	21.1	93.9	0.003	0.52	2.57	11.3	<1	2.9	340	0.63	0.29	12.50	0.271
W603804		2.7	640	16.1	111.0	0.006	0.20	1.84	11.6	<1	2.7	402	0.72	0.11	16.95	0.263
W603805		3.8	770	409	129.5	0.096	1.27	6.91	12.3	1	4.4	188.0	0.67	1.21	16.95	0.257
W603806		3.6	790	86.7	134.5	0.084	1.06	7.09	12.5	1	4.6	187.0	0.66	0.61	16.05	0.274
W603807		2.7	650	18.0	94.2	0.021	0.72	3.74	10.8	1	3.4	317	0.62	1.03	11.05	0.265
W603808		2.7	620	16.3	92.5	0.010	0.14	3.01	12.3	<1	2.7	379	0.68	0.05	13.50	0.277
W603809		2.9	720	1045	204	0.014	3.83	55.0	10.2	1	9.6	58.9	0.53	0.67	11.30	0.227
W603810		2.5	660	20.3	89.7	0.007	0.17	4.94	11.5	<1	2.8	370	0.64	0.05	11.40	0.272
W603811		2.7	670	33.1	95.2	<0.002	0.29	3.26	11.7	<1	3.3	382	0.65	0.05	12.10	0.277
W603812		2.9	670	15.8	96.2	0.002	0.11	1.20	12.5	<1	2.0	438	0.66	0.06	13.15	0.272
W603813		3.1	690	18.0	105.0	0.002	0.33	1.55	12.6	<1	3.5	420	0.63	0.12	12.65	0.289
W603814		2.9	680	24.9	109.0	0.005	0.36	1.73	12.4	<1	3.9	366	0.63	0.06	12.90	0.281
W603815		2.5	520	673	136.5	0.002	7.86	8.41	9.6	1	5.3	69.8	0.49	0.75	9.66	0.209
W603816		13.7	440	1625	144.5	0.003	7.66	104.0	8.2	1	10.3	61.3	0.39	0.71	8.08	0.164
W603817		2.6	660	22.1	101.5	0.002	0.51	1.54	11.5	<1	3.3	373	0.62	0.21	11.90	0.270
W603818		2.5	600	74.9	142.5	0.003	4.49	2.89	10.1	2	4.6	275	0.54	0.85	11.50	0.218
W603819		2.7	640	15.5	88.2	0.008	0.19	1.19	11.2	1	3.2	391	0.65	5.66	12.85	0.260
W603820		2.8	630	33.4	88.7	0.014	0.20	1.34	12.0	<1	4.7	381	0.62	0.09	12.25	0.273
W603821		27.4	470	>10000	28.5	0.010	2.33	459	12.4	2	2.0	193.5	0.21	1.21	1.89	0.240
W603822		2.8	650	21.1	94.9	0.033	0.48	6.12	11.4	1	3.6	314	0.67	0.35	11.80	0.272
W603823		2.7	670	50.5	112.0	0.016	0.34	13.50	12.1	<1	3.9	120.5	0.71	0.21	14.15	0.273
W603824		2.9	590	172.5	158.5	0.003	1.20	26.9	11.1	1	5.4	60.4	0.52	0.87	14.20	0.231
W603825		3.4	640	30.5	102.0	<0.002	2.11	14.05	11.8	1	5.3	66.1	0.60	2.75	11.90	0.240
W603826		3.2	670	31.2	101.5	<0.002	2.11	13.85	11.3	1	5.4	67.0	0.60	2.48	11.95	0.247
W603827		2.4	600	23.2	138.5	<0.002	1.57	14.25	11.6	1	4.7	133.5	0.63	1.59	16.60	0.233
W603828		2.4	640	14.0	118.0	0.021	1.10	2.16	11.3	1	3.8	331	0.68	0.53	14.25	0.258
W603829		2.9	640	14.2	106.0	0.003	0.88	2.64	11.2	1	3.5	343	0.66	0.49	13.60	0.260
W603830		2.8	690	15.8	95.4	0.002	0.25	1.27	12.6	<1	2.3	461	0.71	0.31	13.60	0.284

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-OCT-2019
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH19231872

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W603791		1.10	3.5	74	1.2	16.1	46	37.1	0.012
W603792		1.05	4.0	74	0.9	17.1	68	48.2	0.010
W603793		1.38	3.5	72	2.2	15.6	61	34.1	0.043
W603794		1.20	3.2	78	1.5	17.6	67	33.1	0.028
W603795		2.24	3.7	75	4.4	13.5	1960	40.5	0.317
W603796		0.02	0.1	1	0.1	2.2	7	1.9	<0.005
W603797		1.21	3.6	72	1.5	17.4	1480	43.4	0.072
W603798		1.08	4.3	52	1.0	14.7	113	41.1	0.020
W603799		1.24	5.0	50	1.1	15.3	364	46.7	0.008
W603800		1.29	6.1	49	1.1	15.0	159	46.2	0.007
W603801		1.05	4.1	87	2.0	17.5	44	44.4	0.008
W603802		1.32	4.6	83	1.0	17.7	69	44.6	0.023
W603803		1.02	3.7	78	1.0	16.6	64	46.5	0.082
W603804		0.99	4.8	75	0.8	19.1	50	44.3	0.035
W603805		1.41	5.0	83	2.6	19.2	938	42.0	0.040
W603806		1.51	5.7	89	2.7	19.0	133	43.0	0.028
W603807		1.21	3.5	77	1.8	16.4	65	38.4	0.012
W603808		1.06	4.0	81	0.9	17.5	49	42.6	0.005
W603809		2.69	5.4	68	4.0	11.3	1470	33.5	0.083
W603810		1.03	3.8	77	1.1	16.8	72	39.7	0.005
W603811		1.05	3.5	78	1.4	16.7	95	38.8	0.016
W603812		0.98	4.0	78	0.6	18.6	47	42.0	0.005
W603813		1.12	3.9	81	1.0	18.5	54	38.8	0.026
W603814		1.22	3.8	80	1.2	17.7	73	39.0	0.033
W603815		2.16	6.2	61	2.5	12.9	618	31.9	>10.0
W603816		2.11	5.3	55	7.2	9.4	3310	24.4	1.585
W603817		1.25	3.7	77	0.9	16.3	62	39.1	0.043
W603818		1.74	4.6	62	2.5	14.3	56	36.6	0.574
W603819		1.01	4.1	74	0.8	17.1	41	41.4	0.097
W603820		1.05	4.0	77	1.1	17.5	47	39.1	0.020
W603821		0.47	1.3	82	0.6	14.1	5200	51.4	0.309
W603822		1.18	3.5	74	3.2	16.2	45	44.0	0.030
W603823		1.61	6.7	74	2.7	17.0	359	44.9	0.017
W603824		2.68	4.6	73	2.7	19.6	539	38.3	0.099
W603825		2.15	3.9	75	2.3	17.4	54	38.1	0.089
W603826		2.25	4.0	77	2.3	16.5	58	38.4	0.089
W603827		2.04	5.4	73	1.7	16.8	52	38.4	0.061
W603828		1.45	4.8	74	1.2	17.4	42	42.7	0.026
W603829		1.41	4.8	73	1.1	16.8	48	42.5	0.038
W603830		0.98	4.3	80	0.9	19.2	42	39.8	0.008

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-OCT-2019
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH19231872

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

BAG-06	CRU-31	CRU-QC	LOG-21
LOG-21d	LOG-23	PUL-31	PUL-31d
PUL-QC	SPL-21	SPL-21d	WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	Au-GRA22	ME-MS61
ME-OG62	Pb-OG62		

APPENDIX V

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Klaza

Sample Number:	S052450	Date Collected:	2019-06-07	UTM:	382690	mE	Nad83, Zone 8
Elevation:	m	Sampler:	Kelson Willms	UTM:	6888724	mN	

Comments: Composite sample of vein and mineralized alteration halo. Disseminated galena, sphalerite, pyrite and arsenopyrite in siliceous rock that displays boiling textures.

APPENDIX VI

GEOLOGICAL AND GEOTECHNICAL LOGS

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382959	6889217	1460.89	134.11

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-435

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 4.57m, Out

Drilling Dates: Sep 05 - Sep 06, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
14	35.16	-49.4	Reflex
134	37.36	-49.4	Reflex

TARGET: Resouce infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.84	0.84	CAS
0.84	3.1	2.26	OVB
3.1	6.1	3	SIL
6.1	8.7	2.6	CLY
8.7	12.9	4.2	GRD
12.9	18.9	6	GRD
18.9	34.1	15.2	GRD
34.1	38.1	4	SIL
38.1	41.79	3.69	GRD
41.79	42.08	0.29	VEN
42.08	78.88	36.8	GRD
78.88	81.47	2.59	GRD
81.47	89.31	7.84	GRD
89.31	96.9	7.59	GRD
96.9	98.92	2.02	GRD
98.92	99.75	0.83	VEN

SAMPLES	
Numbers:	W603751 to W603875
Total:	125
Batch:	001, 002, 003, 005, 006
Certificates:	WH19231869, WH19231872, WH19231876, WH19231881, WH19250393

COMMENTS

99.75	104.55	4.8	GRD
104.55	111	6.45	GRD
111	134.11	23.11	GRD

Box Log

KL -19-435

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.84	6.6
2	6.6	12.11
3	12.11	17.41
4	17.41	22.29
5	22.29	28.7
6	28.7	34.27
7	34.27	39.62
8	39.62	45.18
9	45.18	50.66
10	50.66	56.39
11	56.39	61.95
12	61.95	67.88
13	67.88	73.29
14	73.29	78.33
15	78.33	82.64
16	82.64	86.92
17	86.92	91.23
18	91.23	95.53
19	95.53	97.67
20	97.67	103.69
21	103.69	107.59
22	107.59	111.69
23	111.69	116.23
24	116.23	120.76
25	120.76	125.09
26	125.09	129.5
27	129.5	133.99
28	133.99	134.11

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-435									
	37.48	14	NTW	SIL	823	477	2.08	2.4	
	39.32	12	NTW	GRD	776	463	2.29	2.5	
	74.62	15.5	NTW	GRD	907	530	2.07	2.4	
	95.39	14	NTW	GRD	905	533	2.29	2.4	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.84	0.84	CAS	--	casing							
						MD	BN					
0.84	3.10	2.26	OVB	--	ovb							
						MD	BN					
3.10	6.10	3.00	SIL	FG	fine grained, moderately oxidized brecciated clay gouge. Quartz veins appear to brecciate host rock. Brecciation and fracturing and gougy seams may be indicative of faulting (?).							
						MD	MR	BX	OXI	3I		
						MD	BN					
6.10	8.70	2.60	CLY	VF	oxidized gougy vein interval, interior of gougy vein is light/dark gray and appears harder than regular clay gougy seams							
						MD	GY					
						MD	BN					
8.70	12.90	4.20	GRD	MG	Highly fractured, moderately oxidized granodiorite. Argillic alteration appears to overprint phyllic alteration (swelling of feldspathic clasts is commonly occurring). 1-2mm euhedral pyrite crystals are locally observed along quartz veins with trace disseminated pyrite obsered within host rock.Red, oxidized mm-sized veinlets are commonly oxidized through interval							
12.90	18.90	6.00	GRD	MG	Moderately oxidized granodiorite interval. Granodiorite exhibits localized sections of weak phyllic alteration which appear to overprint local zones of argillic alteration. (i.e.17.25m). Mm to 1 cm blebby and disseminated pyrite is locally observed within milky quartz veins (i.e. 17.31m).3 cm brecciated clay goyge is observed at 15.90m. Fractured, rubbly zone is present at 18.29m.							
						MD	GY	RB	ARG	2I	Py	3
						MD	BN	BX	PHC	2I		
						LT	GY	FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.90	26.63	7.73	GRD	MG	relatively unaltered interval of granodiorite containing trace amounts of chlorite clasts and exhibiting moderate oxidation along fractures and joint surfaces. Trace amounts of mm-pyrite blebs is locally observed in think mm-smoky quartz veinlets.							
						MD	GY		PRO	1I	Py	1
						LT	GY				Qz	1
26.63	27.85	1.22	GRD	MG	xd							
27.85	31.36	3.51	GRD	MG	Granodiorite exhibiting weak propylitic alteration and contains cm sized red/pink aplite intrusions. Minor chlorite clasts are locally observed through interval. Pyrite blebs are locally observed within cm-sized milky and smoky quarts veins throughout unit. Cm-sized, irregular, volcanic (?), fine grained clasts are commonly occuring in granodiorite interval.							
									PRO	2I	Py	2
31.36	34.10	2.74	GRD	MG	granodiorite interval exhibiting phyllic alteration which overprints exsisting weak argillic alteration locally (interval appears moderately silicified, feldspathic clasts are greenish and pyrite disseminations are locally observed in host granodiorite).Phyllic alteration becomes more prominent near granodiorite-dyke contact in lower interval section. Cm-sized banded pyrite is contained within milky quartz veins locally. Orange/tan clay oxidation is commonly occuring along fracture and joint surfaces.							
						LT	GN		PHC	3I	Py	3
						LT	BG		ARG	2I	Py	3
34.10	34.78	0.68	QFP	FG	Polymictic dyke intrusion containing sub-angular feldspathic, and dark, mm-sized clasts. Near contact between granodiorite and dyke intrusion sub-mm , black tourmalline crystals are locally observed in granodiorite proximal to dyke intrusion.							
34.78	36.10	1.32	SIL	MG	Matrix in dyke intrusion becomes darker, is medium grained and contains more light, sub-angular, feldspathic clasts.							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.10	38.10	2.00	SIL	MG	lower portion of dyke section is fractured, locally brecciated and exhibits a small brecciated gouge seam @ 38.05m							
						DK	GY	BX				
38.10	41.79	3.69	GRD	MG	Granodiorite exhibiting moderate phyllic alteration. Interval is moderately silicified, contains traces of fine grained disseminated pyrite. Pyrite is also observed in mm-sized, oxidized smoky quartz veinlets (i.e.40.10m)							
						MD	GY				Py	2
						LT	GN		PHC	3I	Qz	1
41.79	42.08	0.29	VEN	--	pyrite rich vein zone contained within granodiorite unit exhibiting moderate oxidation along veinlets. Vein appears brecciated @ 41.95m. Pyrite in vein is blebby (3mm-1 cm) and appears to be crosscut by thin, oxidized smoky quartz (?) veinlets. Low to moderate oxidation is observed in feldspathic clasts.							
						MD	BN	BX	OXI	3I	Py	2
						MD	GN					
						MD	BN					
42.08	44.45	2.37	GRD	MG	Granodiorite exhibiting local zones of weak argillic alteration with minor propylitic and phyllic overprint (minor chlorite clasts observed, weakly to moderately silicified granodiorite zones containing trace fine disseminated pyrite in host rock. Pyrite is locally observed in mm-sized quartz and smoky quartz veinlets							
						MD	GN		PHC	1I	Py	2
						MD	GY		ARG	2I		
									PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.45	49.64	5.19	GRD	MG	Granodiorite interval with local zones of gougy, clay oxidation. Weak argillic alteration zones are locally observed with phyllic and propylitic overprint. (moderately silicified, fine grained pyrite disseminations more prevalent in phyllic altered zones; clear basal cleavage, soft grains are observed as well (muscovite)) . Minor chlorite clasts are present in granodiorite unit and local zones of swelled up feldspathic clasts are light green and do not commonly exhibit chlorite cores surrounded by feldspathic grains. Trace chlorite clasts are locally observed near pyrite bearing mm-sized quartz veins (i.e. 46.15m). Iron staining and light brown clay oxidation are observed along fractures, joint surfaces and in some feldspathic clasts in granodiorite unit. Disseminated pyrite is locally observed in mm-sized quartz veins.							
						MD	GY		PRO	1I	Py	2
						MD	TN		ARG	2I	Py	3
						LT	GN		PHC	3I		
49.64	49.89	0.25	GRD	MG	Granodiorite interval containing chlorite clasts and quartz clasts observed proximal to pyrite bearing quartz veinlets (i.e. 44.78m). Chlorite clasts are more prominent than previous interval (stronger propylitic signature (?)							
						MD	GN		PRO	3I	Py	1
						MD	GY					
						LT	GY					
49.89	54.31	4.42	GRD	MG	Relatively unaltered granodiorite interval with local zones of argillic alteration and weak propylitic overprint (trace chloritized clasts locally observed through interval. Aplite dyke intrusion occurs at 53.34m. Oxidized, gougy zones of weak argillic alteration are present @ 50.96m,51.42 and 51.62. Trace pyrite disseminations are present in granodiorite interval. Blebby pyrite 51.04 m is observed near quartz clasts. Section from 50.87-51.04 appears silicified, and contains disseminated pyrite (weak phyllic alteration overprinted by argillic and propylitic alteration(?).							
						MD	GY					
						LT	TN		ARG	2I	Py	2
						LT	GN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.31	54.56	0.25	GRD	MG	Granodiorite interval exhibiting weak propylitic alteration and possibly overprinting trace phyllic alteration. Chlorite clasts are locally observed in granodiorite unit. Quartz clasts and trace mm-pyrite crystals are locally observed within granodiorite clasts.							
						MD	GY		PRO	2I		
						MD	GN		PHC	1I	Py	3
54.56	57.43	2.87	GRD	MG	Relatively unaltered granodiorite interval containing mm-sized pyrite and fine grained disseminated pyrite within mm-sized quartz veins. Trace chlorite clasts are observed in interval (i.e. 55.20). Trace propylitic alteration (?)							
						MD	GN		PRO	1I	Py	3
						MD	GY					
57.43	57.62	0.19	GRD	MG	Moderately oxidized, gougy section of granodiorite exhibiting swelling of feldspathic clasts (weak to moderate argillic alteration). Swelled feldspathic clasts are not zoned and are white.							
						MD	WH		ARG	3I		
						MD	GY					
57.62	59.63	2.01	GRD	MG	Granodiorite unit with traces of weak argillic alteration (i.e. 58.32; locally swelled white feldspathic clasts). Trace mm-pyrite is locally observed within dark, fine grained, smoky quartz veinlets.							
						MD	WH		ARG	2I	Py	1
						MD	GY					
59.63	60.40	0.77	GRD	MG	Granodiorite interval exhibiting weak propylitic alteration overprinted by argillic alteration (chlorite clasts locally observed @ 59.73m in upper interval zone. Lower interval section becomes prodominantly argillic altered (toward 60.40m; clorite is less abundant, white swelled feldspathic clasts are prominent. Trace disseminated pyrite and pyrite blebs are locally observed within mm-sized quartz veinlets.							
						MD	WH					
						LT	GN		PRO	2I	Py	1
						LT	GY		ARG	1I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
60.40	61.06	0.66	GRD	MG	Granodiorite exhibiting moderate argillic alteration overprinting trace propylitic alteration (chlorite zoning infeldspathic clasts. Lower section of interval contains more chlorite and argillic alteration becomes less -prominent (i.e. 60.70-61m). Trace pyrite is observed in section of trace propylitic alteration.							
						MD	GN					
						MD	WH		ARG	3I	Py	2
						LT	GN		PRO	2I		
61.06	61.50	0.44	GRD	MG	highlyfractured, moderately-oxidized,rubbly section of granodiorite							
						MD	BN		OXI	3I		
						MD	TN					
61.50	63.23	1.73	GRD	MG	Relatively unaltered granodiorite containing reddish/pink, fine grained aplite intrusions. Irregulat 2-6 cm, dark, fine grained, clastic inclusions are locally observed in interval (Clasts are magnetic). Mm-sized pyrite disseminationg and blebs are locally observed within dark, fine grained veinlets (smoky quartz (?)).							
						MD	GY				Py	1
63.23	64.15	0.92	GRD	MG	Granodiorite unit containing mm-sized chlorite, quartz, blebby and disseminated pyrite in smoky quartz veins within granodiorite host rock. (i.e. 63.98m)(Weak propylitic alteration overprinting trace phyllic (?))							
						MD	GY		PRO	1I	Py	2
						MD	GN					
64.15	72.51	8.36	GRD	MG	Granodiorite unit with local zones of weak argillic and propylitic alteration (minor swelling of feldspathic clasts in proximity to mm-sized veinlets. Trace chlorite clasts, mm-sized pyrite blebs and disseminationg are locally observed within veinlets (smoky quartz (?)). 5 cm pyrite ithin smoky quartz vein is observed @ 70.70m. From 70.71-70.90 interval appears to have stronger propylitic overprint (increased chloritization of clasts, trace disseminated pyrite observed in granodiorite in local zone of propylitic alteration							
						MD	GN		ARG	2I	Py	2
						MD	GY		PRO	2I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
72.51	78.88	6.37	GRD	MG	Granodiorite exhibiting local zones of weak argillic alteration with minor propylitic and phyllic overprint (minor chlorite clasts observed, weakly to moderately silicified granodiorite zones containing trace fine disseminated pyrite in host rock. Pyrite is locally observed in mm-sized quartz and smoky quartz veinlets							
78.88	81.47	2.59	GRD	MG	Weakly to moderately argillic granodiorite overprinting weak propylitic alteration. Brecciated section is observed @ 80.50m where quartz vein brecciates clasts in host grd. Locally fracture zones are commonly observed throughout interval. Trace mm-blebby pyrite is commonly observed in interval as well							
81.47	83.09	1.62	GRD	MG	Weakly argillic granodiorite interval and trace propylitic alteration (less argillic than previous interval). Aplite dyke occurs @ 83.26m. Trace, pyrite blebs and bands within a dark, fine grained, vein and within grd host are also observed.							
83.09	89.31	6.22	GRD	MG	Relatively unaltered granodiorite with intermittent zones of weak propylitic alteration. Molybdenite crystals are observed @ 84.23 within a quartz vein. Mm-pyrite blebs also occur within quartz veins and within dark, fine grained veinlets and within unaltered grd sections (sporadically observed trace pyrite in grd)							
89.31	92.59	3.28	GRD	MG	Granodiorite exhibiting weak to moderate phyllic alteration. Interval contains increased pyrite located in quartz stringer veins. Interval appears moderately silicified, contains basal cleavage muscovite crystals and increased quartz clasts).							
92.59	96.90	4.31	GRD	MG	Granodiorite with moderate argillic alteration overprinting trace propylitic alteration. Pyrite bearing stringer veins are more abundant on interval and minor vein brecciation is locally observed @ 96.25							
96.90	97.79	0.89	GRD	MG	weakly argillic, trace phyllic granodiorite interval (i.e. 97.32).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.79	98.92	1.13	GRD	MG	granodiorite exhibiting weak argillic alteration in upper section of interval (97.90-98.50m). Trace chlorite clasts are observed throughout upper part of interval. From 98.50m proximal to vein contact alteration becomes predominantly phyllic (hanging wall alteration(?))							
98.92	99.75	0.83	VEN	MG	quartz vein zone intruding into weakly phllic/argillic granodiorite (stronger phyllic overprint). Unit is comprised of 3 veins (15cm,12cm,11cm).@ 99m contains massive pyrite associated with milky quartz veins which appear to be brecciated by smoky quartz veins. Trace pyrite is observed in some smoky quartz veins. Carbonitic infill intruding into quartz vein is locally observed (ankerite sometimes surrounding smaller quartz clasts). In second vein semi massive pyrite is observed in both milky quartz and smoky quartz . Disseminated pyrite is also observed in host rock. Third vein contains massive pyrite associated with milky quartz with minor smoky quartz filling tbe pyrite quartz interstices. Ankerite is observed in vein and appears to be weakly oxidized. Euhedral, cubic pyrite crystals occur along fracture surfaces.							
99.75	101.92	2.17	GRD	MG	vein footwall altered granodiorite. Weak phyllic alteration overprinting weak argillic. Pyrite is observed in milky and smoky quartz games. Ankerite vein @ 101.04 is observed near pyrite bearing smoky quartz veins.							
101.92	102.57	0.65	GRD	MG	granodiorite exhibiting moderate phyllic alteration. Blebby and disseminated pyrite is observed within smoky quartz veins. Carbonitic veinlets crosscut pyrite bearing quartz veins locally.@ 102.15 quartz vein appears to brecciate host grd. Rubbly, fractured zone occurs @ 102.40m							
102.57	104.55	1.98	GRD	MG	weakly argillic, propylitic , trace phyllic altered granodiorite. Phyllic alteration is less prominent than previous interval. 2-cm aplite dyke intrusion is observed @ 102.75m. Section from 103.12-103.65 exhibits phyllic alteration with pyrite bearing 2-4mm stringer quartz veins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
104.55	107.44	2.89	GRD	MG	relatively unaltered granodiorite with intermittent zones weak argillic, trace propylitic alteration. Trace pyrite bearing quartz veins are locally observed. @ 107.18m aplite dyke intrusion is observed. Small gougy zone occurs at 106.97							
107.44	111.00	3.56	GRD	MG	granodiorite interval with weak phyllic alteration overprinting trace argillic and propylitic alteration. (disseminated pyrite observed, increased quartz clasts, basal cleavage muscovite).							
111.00	120.40	9.40	GRD	MG	relatively unaltered granodiorite with intermitten zones of weak propylitic alteration overprinting zones of trace phyllic alteration. Pyrite bearing smoky quartz veins are locally observed throughout interval. local zones of increased propylitic overprint contain increased chlorite clasts. Aplite dyke intrusion is observeed @ 114.43m. Trace diseminated pyrite is also observed in host grd.							
120.40	122.10	1.70	GRD	MG	weakly argillic granodiorite with intermittent zones of weak propylitic alterationl pyrite bearing smoky quartz veins are locally observd. Trace , molybdenite crystals in quartz veins in argillized zone are observed (i.e. 120.76-80m).							
122.10	127.00	4.90	GRD	MG	granodiorite with intermittent zones of weakly propylitic and trace phyllic alteration. Pyrite bearing smoky quartz veins are observed in interval. Zone of increased propylitic alteration observed from 121-121.30							
127.00	134.11	7.11	GRD	MG	granodiorite with intermittent zones of weak argillic , trace propylitic alteration. Quartz,coloform banding occurs @ 127.96m.(milky quartz and carbonitic bands forming coloform band). Pyrite bearing smoky quartz veins are locally observed throughout interval. small gougy zones occurs @ 133.90m							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.84	0.84	CAS	---	--	casing
0.84	3.10	2.26	OVB	OVB	--	ovb
3.10	6.10	3.00	SIL	DYK	FG	fine grained, moderately oxidized brecciated clay gouge. Quartz veins appear to brecciate host rock. Brecciation and fracturing and gougy seams may be indicative of faulting (?).
6.10	8.70	2.60	CLY	VEIN	VF	oxidized gougy vein interval, interior of gougy vein is light/dark gray and appears harder than regular clay gougy seams
8.70	12.90	4.20	GRD	GRD	MG	Highly fractured, moderately oxidized granodiorite. Argillic alteration appears to overprint phyllic alteration (swelling of feldspathic clasts is commonly occurring). 1-2mm euhedral pyrite crystals are locally observed along quartz veins with trace disseminated pyrite obsered within host rock.Red, oxidized mm-sized veinlets are commonly oxidized through interval
12.90	18.90	6.00	GRD	GRDA	MG	Moderately oxidized granodiorite interval. Granodiorite exhibits localized sections of weak phyllic alteration which appear to overprint local zones of argillic alteration. (i.e.17.25m). Mm to 1 cm blebby and disseminated pyrite is locally observed within milky quartz veins (i.e. 17.31m).3 cm brecciated clay goyge is observed at 15.90m. Fractured, rubbly zone is present at 18.29m.
18.90	26.63	7.73	GRD	GRD	MG	relatively unaltered interval of granodiorite containing trace amounts of chlorite clasts and exhibiting moderate oxidation along fractures and joint surfaces. Trace amounts of mm-pyrite blebs is locally observed in think mm-smoky quartz veinlets.
26.63	27.85	1.22	GRD	GRD	MG	xd
27.85	31.36	3.51	GRD	GRD	MG	Granodiorite exhibiting weak propylitic alteration and contains cm sized red/pink aplite intrusions. Minor chlorite clasts are locally observed through interval. Pyrite blebs are locally observed within cm-sized milky and smoky quarts veins throughout unit. Cm-sized, irregular, volcanic (?), fine grained clasts are commonly occuring in granodiorite interval.
31.36	34.10	2.74	GRD	GRD	MG	granodiorite interval exhibiting phyllic alteration which overprints exsisting weak argillic alteration locally (interval appears moderately silicified, feldspathic clasts are greenish and pyrite disseminations are locally observed in host granodiorite).Phyllic alteration becomes more prominent near granodiorite-dyke contact in lower interval section. Cm-sized banded pyrite is contained within milky quartz veins locally. Orange/tan clay oxidation is commonly occuring along fracture and joint surfaces.
34.10	34.78	0.68	QFP	DYK	FG	Polymictic dyke intrusion containing sub-angular feldspathic, and dark, mm-sized clasts. Near contact between granodiorite and dyke intrusion sub-mm , black tourmalline crystals are locally observed in granodiorite proximal to dyke intrusion.
34.78	36.10	1.32	SIL	DYK	MG	Matrix in dyke intrusion becomes darker, is medium grained and contains more light, sub-angular, feldspathic clasts.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
36.10	38.10	2.00	SIL	DYK	MG	lower portion of dyke section is fractured, locally brecciated and exhibits a small brecciated gouge seam @ 38.05m
38.10	41.79	3.69	GRD	GRDA	MG	Granodiorite exhibiting moderate phyllic alteration. Interval is moderately silicified, contains traces of fine grained disseminated pyrite. Pyrite is also observed in mm-sized, oxidized smoky quartz veinlets (i.e.40.10m)
41.79	42.08	0.29	VEN	VEIN	--	pyrite rich vein zone contained within granodiorite unit exhibiting moderate oxidation along veinlets. Vein appears brecciated @ 41.95m. Pyrite in vein is blebby (3mm-1 cm) and appears to be crosscut by thin, oxidized smoky quartz (?) veinlets. Low to moderate oxidation is observed in feldspathic clasts.
42.08	44.45	2.37	GRD	GRDA	MG	Granodiorite exhibiting local zones of weak argillic alteration with minor propylitic and phyllic overprint (minor chlorite clasts observed, weakly to moderately silicified granodiorite zones containing trace fine disseminated pyrite in host rock. Pyrite is locally observed in mm-sized quartz and smoky quartz veinlets
44.45	49.64	5.19	GRD	GRDA	MG	Granodiorite interval with local zones of gougy, clay oxidation. Weak argillic alteration zones are locally observed with phyllic and propylitic overprint. (moderately silicified, fine grained pyrite disseminations more prevalent in phyllic altered zones; clear basal cleavage, soft grains are observed as well (muscovite)) . Minor chlorite clasts are present in granodiorite unit and local zones of swelled up feldspathic clasts are light green and do not commonly exhibit chlorite cores surrounded by feldspathic grains. Trace chlorite clasts are locally observed near pyrite bearing mm-sized quartz veins (i.e. 46.15m). Iron staining and light brown clay oxidation are observed along fractures, joint surfaces and in some feldspathic clasts in granodiorite unit. Disseminated pyrite is locally observed in mm-sized quartz veins.
49.64	49.89	0.25	GRD	GRDA	MG	Granodiorite interval containing chlorite clasts and quartz clasts observed proximal to pyrite bearing quartz veinlets (i.e. 44.78m). Chlorite clasts are more prominent than previous interval (stronger propylitic signature (?)
49.89	54.31	4.42	GRD	GRDA	MG	Relatively unaltered granodiorite interval with local zones of argillic alteration and weak propylitic overprint (trace chloritized clasts locally observed through interval. Aplite dyke intrusion occurs at 53.34m. Oxidized, gougy zones of weak argillic alteration are present @ 50.96m,51.42 and 51.62. Trace pyrite disseminations are present in granodiorite interval. Blebby pyrite 51.04 m is observed near quartz clasts. Section from 50.87-51.04 appears silicified, and contains disseminated pyrite (weak phyllic alteration overprinted by argillic and propylitic alteration(?).
54.31	54.56	0.25	GRD	GRDA	MG	Granodiorite interval exhibiting weak propylitic alteration and possibly overprinting trace phyllic alteration. Chlorite clasts are locally observed in granodiorite unit. Quartz clasts and trace mm-pyrite crystals are locally observed within granodiorite clasts.
54.56	57.43	2.87	GRD	GRDA	MG	Relatively unaltered granodiorite interval containing mm-sized pyrite and fine grained disseminated pyrite within mm-sized quartz veins. Trace chlorite clasts are observed in interval (i.e. 55.20). Trace propylitic alteration (?)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
57.43	57.62	0.19	GRD	GRDA	MG	Moderately oxidized, gougy section of granodiorite exhibiting swelling of feldspathic clasts (weak to moderate argillic alteration). Swelled feldspathic clasts are not zoned and are white.
57.62	59.63	2.01	GRD	GRDA	MG	Granodiorite unit with traces of weak argillic alteration (i.e. 58.32; locally swelled white feldspathic clasts). Trace mm-pyrite is locally observed within dark, fine grained, smoky quartz veinlets.
59.63	60.40	0.77	GRD	GRDA	MG	Granodiorite interval exhibiting weak propylitic alteration overprinted by argillic alteration (chlorite clasts locally observed @ 59.73m in upper interval zone. Lower interval section becomes prodominantly argillic altered (toward 60.40m; clorite is less abundant, white swelled feldspathic clasts are prominent. Trace disseminated pyrite and pyrite blebs are locally observed within mm-sized quartz veinlets.
60.40	61.06	0.66	GRD	GRDA	MG	Granodiorite exhibiting moderate argillic alteration overprinting trace propylitic alteration (chlorite zoning infeldspathic clasts. Lower section of interval contains more chlorite and argillic alteration becomes less - prominent (i.e. 60.70-61m). Trace pyrite is observed in section of trace propylitic alteration.
61.06	61.50	0.44	GRD	GRDA	MG	highlyfractured, moderately-oxidized,rubbly section of granodiorite
61.50	63.23	1.73	GRD	GRDA	MG	Relatively unaltered granodiorite containing reddish/pink, fine grained aplite intrusions. Irregulat 2-6 cm, dark, fine grained, clastic inclusions are locally observed in interval (Clasts are magnetic). Mm-sized pyrite disseminationg and blebs are locally observed within dark, fine grained veinlets (smoky quartz (?)).
63.23	64.15	0.92	GRD	GRDA	MG	Granodiorite unit containing mm-sized chlorite, quartz, blebby and disseminated pyrite in smoky quartz veins within granodiorite host rock. (i.e. 63.98m)(Weak propylitic alteration overprinting trace phyllic (?))
64.15	72.51	8.36	GRD	GRDA	MG	Granodiorite unit with local zones of weak argillic and propylitic alteration (minor swelling of feldspathic clasts in proximity to mm-sized veinlets. Trace chlorite clasts, mm-sized pyrite blebs and disseminationg are locally observed within veinlets (smoky quartz (?)). 5 cm pyrite ithin smoky quartz vein is observed @ 70.70m. From 70.71-70.90 interval appears to have stronger propylitic overprint (increased chloritization of clasts, trace disseminated pyrite observed in granodiorite in local zone of propylitic alteration
72.51	78.88	6.37	GRD	GRDA	MG	Granodiorite exhibiting local zones of weak argillic alteration with minor propylitic and phyllic overprint (minor chlorite clasts observed, weakly to moderately silicified granodiorite zones containing trace fine disseminated pyrite in host rock. Pyrite is locally observed in mm-sized quartz and smoky quartz veinlets
78.88	81.47	2.59	GRD	GRDA	MG	Weakly to moderately argillic granodiorite overprinting weak propylitic alteration. Brecciated section is observed @ 80.50m where quartz vein brecciates clasts in host grd. Locally fracture zones are commonly observed throughout interval. Trace mm-blebby pyrite is commonly observed in interval as well

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
81.47	83.09	1.62	GRD	GRD	MG	Weakly argillic granodiorite interval and trace propylitic alteration (less argillic than previous interval). Aplite dyke occurs @ 83.26m. Trace, pyrite blebs and bands within a dark, fine grained, vein and within grd host are also observed.
83.09	89.31	6.22	GRD	GRD	MG	Relatively unaltered granodiorite with intermittent zones of weak propylitic alteration. Molybdenite crystals are observed @ 84.23 within a quartz vein. Mm-pyrite blebs also occur within quartz veins and within dark, fine grained veinlets and within unaltered grd sections (sporadically observed trace pyrite in grd)
89.31	92.59	3.28	GRD	GRDA	MG	Granodiorite exhibiting weak to moderate phyllic alteration. Interval contains increased pyrite located in quartz stringer veins. Interval appears moderately silicified, contains basal cleavage muscovite crystals and increased quartz clasts).
92.59	96.90	4.31	GRD	GRDA	MG	Granodiorite with moderate argillic alteration overprinting trace propylitic alteration. Pyrite bearing stringer veins are more abundant on interval and minor vein brecciation is locally observed @ 96.25
96.90	97.79	0.89	GRD	GRDA	MG	weakly argillic, trace phyllic granodiorite interval (i.e. 97.32).
97.79	98.92	1.13	GRD	GRDA	MG	granodiorite exhibiting weak argillic alteration in upper section of interval (97.90-98.50m). Trace chlorite clasts are observed throughout upper part of interval. From 98.50m proximal to vein contact alteration becomes predominantly phyllic (hanging wall alteration(?))
98.92	99.75	0.83	VEN	VEIN	MG	quartz vein zone intruding into weakly phllic/argillic granodiorite (stronger phyllic overprint). Unit is comprised of 3 veins (15cm,12cm,11cm).@ 99m contains massive pyrite associated with milky quartz veins which appear to be brecciated by smoky quartz veins. Trace pyrite is observed in some smoky quartz veins. Carbonitic infill intruding into quartz vein is locally observed (ankerite sometimes surrounding smaller quartz clasts). In second vein semi massive pyrite is observed in both milky quartz and smoky quartz . Disseminated pyrite is also observed in host rock. Third vein contains massive pyrite associated with milky quartz with minor smoky quartz filling tbe pyrite quartz interstices. Ankerite is observed in vein and appears to be weakly oxidized. Euhedral, cubic pyrite crystals occur along fracture surfaces.
99.75	101.92	2.17	GRD	GRDA	MG	vein footwall altered granodiorite. Weak phyllic alteration overprinting weak argillic. Pyrite is observed in milky and smoky quartz games. Ankerite vein @ 101.04 is observed near pyrite bearing smoky quartz veins.
101.92	102.57	0.65	GRD	GRDA	MG	granodiorite exhibiting moderate phyllic alteration. Blebby and disseminated pyrite is observed within smoky quartz veins. Carbonitic veinlets crosscut pyrite bearing quartz veins locally.@ 102.15 quartz vein appears to brecciate host grd. Rubbly, fractured zone occurs @ 102.40m
102.57	104.55	1.98	GRD	GRDA	MG	weakly argillic, propylitic , trace phyllic altered granodiorite. Phyllic alteration is less prominent than previous interval. 2-cm aplite dyke intrusion is observed @ 102.75m. Section from 103.12-103.65 exhibits phyllic alteration with pyrite bearing 2-4mm stringer quartz veins.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
104.55	107.44	2.89	GRD	GRD	MG	relatively unaltered granodiorite with intermittent zones weak argillic, trace propylitic alteration. Trace pyrite bearing quartz veins are locally observed. @ 107.18m aplite dyke intrusion is observed. Small gougy zone occurs at 106.97
107.44	111.00	3.56	GRD	GRD	MG	granodiorite interval with weak phyllic alteration overprinting trace argillic and propylitic alteration. (disseminated pyrite observed, increased quartz clasts, basal cleavage muscovite).
111.00	120.40	9.40	GRD	GRD	MG	relatively unaltered granodiorite with intermitten zones of weak propylitic alteration overprinting zones of trace phyllic alteration. Pyrite bearing smoky quartz veins are locally observed throughout interval. local zones of increased propylitic overprint contain increased chlorite clasts. Aplite dyke intrusion is observeed @ 114.43m. Trace diseminated pyrite is also observed in host grd.
120.40	122.10	1.70	GRD	GRD	MG	weakly argillic granodiorite with intermittent zones of weak propylitic alterationl pyrite bearing smoky quartz veins are locally observd. Trace , molybdenite crystals in quartz veins in argillized zone are observed (i.e. 120.76-80m).
122.10	127.00	4.90	GRD	GRD	MG	granodiorite with intermittent zones of weakly propylitic and trace phyllic alteration. Pyrite bearing smoky quartz veins are observed in interval. Zone of increased propylitic alteration observed from 121-121.30
127.00	134.11	7.11	GRD	GRD	MG	granodiorite with intermittent zones of weak argillic , trace propylitic alteration. Quartz,coloform banding occurs @ 127.96m.(milky quartz and carbonitic bands forming coloform band). Pyrite bearing smoky quartz veins are locally observed throughout interval. small gougy zones occurs @ 133.90m

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.84	0.84	CAS	--	casing							
						MD	BN					
0.84	3.10	2.26	OVB	--	ovb							
						MD	BN					
3.10	6.10	3.00	SIL	FG	fine grained, moderately oxidized brecciated clay gouge. Quartz veins appear to brecciate host rock. Brecciation and fracturing and gougy seams may be indicative of faulting (?).							
						MD	MR					
						MD	BN	BX	OXI	3I		
6.10	8.70	2.60	CLY	VF	oxidized gougy vein interval, interior of gougy vein is light/dark gray and appears harder than regular clay gougy seams							
						MD	BN					
						MD	GY					
8.70	12.90	4.20	GRD	MG	Highly fractured, moderately oxidized granodiorite. Argillic alteration appears to overprint phyllic alteration (swelling of feldspathic clasts is commonly occurring). 1-2mm euhedral pyrite crystals are locally observed along quartz veins with trace disseminated pyrite obsered within host rock.Red, oxidized mm-sized veinlets are commonly oxidized through interval							
12.90	18.90	6.00	GRD	MG	Moderately oxidized granodiorite interval. Granodiorite exhibits localized sections of weak phyllic alteration which appear to overprint local zones of argillic alteration. (i.e.17.25m). Mm to 1 cm blebby and disseminated pyrite is locally observed within milky quartz veins (i.e. 17.31m).3 cm brecciated clay goyge is observed at 15.90m. Fractured, rubbly zone is present at 18.29m.							
						LT	GY	RB				
						MD	GY	BX	ARG	2I		
						MD	BN	FR	PHC	2I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.90	34.10	15.20	GRD	MG	unit composed of predominantly unaltered granodiorite with local zones of phyllic alteration overprinting local sections weak argillic alteration in host rock.1-3 cm reddish/pink aplite dyke intrusions are locally observed in interval and contain small, sub rounded, magnetic black clasts. Trace chlorite clasts are locally observed in realtiely unaltered sections of granodiorite (trace propylitic alteration that was subsequently overprinted by phyllic and weak argillic alteration. Phyllic and weakly argillic alteration is more prominent near the granodiorite and dyke contact a contact between weak propylitic and phyllic alteration is observed @ 27.12m. Pyrite occurs as mm-2 cm bands within quartz veins and as fine grain disseminations in host granodiorite.							
									PRO	1I		
									PHC	3I		
									ARG	2I		
34.10	38.10	4.00	SIL	FG	Polymictic dyke intrusion containing sub-angular feldspathic, and dark, mm-sized clasts. Near contact between granodiorite and dyke intrusion sub-mm , black tourmalline crystals are locally observed in granodiorite proximal to dyke intrusion.							
38.10	41.79	3.69	GRD	MG	Granodiorite exhibiting moderate phyllic alteration. Interval is moderately silicified, contains traces of fine grained disseminated pyrite. Pyrite is also observed in mm-sized, oxidized smoky quartz veinlets (i.e.40.10m)							
						LT	GN		PHC	3I	Qz	1
						MD	GY				Py	2
41.79	42.08	0.29	VEN	--	pyrite rich vein zone contained within granodiorite unit exhibiting moderate oxidation along veinlets. Vein appears brecciated @ 41.95m. Pyrite in vein is blebby (3mm-1 cm) and appears to be crosscut by thin, oxidized smoky quartz (?) veinlets. Low to moderate oxidation is observed in feldspathic clasts.							
						MD	GN					
						MD	BN					
						MD	BN	BX	OXI	3I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.08	78.88	36.80	GRD	MG	granodiorite with local argillic alteration overprinting trace propylitic zones of alteration. Trace chlorite clasts are present in interval and swelling of feldspathic clasts is commonly observed throughout unit. Trace pyrite disseminations are locally observed within granodiorite host and are commonly occuring in stringer quartz and smoky quartz veins. Stringer veins (1-2cm) containing disseminated pyrite.							
						LT	GN				Py	2
						MD	GY		PRO	2I	Py	2
						MD	BG		ARG	3I	Qz	5
78.88	81.47	2.59	GRD	MG	Granodiorite exhibiting moderate argillic alteration overrinting a weaker propylitic alteration (chlorite clasts observed with feldspathic swelled clasts in the rims). Brecciated section @ 80.50 is observed where quartz vein brecciates clasts in host grd. Local fracture zones are commonly observed thourhout interval. Trace blebby pyrite is also observed throughout interval							
81.47	89.31	7.84	GRD	MG	Granodiorite interval with weak argillic alteration and trace propylitic . Aplite dyke is occurs @ 83.26. Trace, pyrite blebs and disseminated pyrite contained within dark, fine grained veinlets are locally observed. Molybdenite crystals are observed at 84.23 within a quartz vein.							
89.31	96.90	7.59	GRD	MG	Granodiorite exhibiting weak to moderate phyllic alteration, (increased disseminated pyrite, moderately silicified interval , trace basal muscovite crystals observed) trace propylitic and argillic alteration. Increased argillic alteration is observed @ 93.20. Pyrite is also observed in stringer vein zone.Minor vein brecciation is locall observed @ 96.25							
96.90	98.92	2.02	GRD	MG	weakly argillic granodiorite interval with trace phyllic alteration (i.e. 97.32m)							
98.92	99.75	0.83	VEN	MG	Mineralized quartz vein zone in granodiorite unit. Veins are observed within phyllic/argillic altered granodiorite. Veins are 20,15,14 cm in size and exhibit moderate phyllic overprint.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.75	104.55	4.80	GRD	MG	Weak to moderate phyllic, weakly argillic granodiorite interval. Some stringer veins containting disseminated pyrite and semi massive pyrite are observed in interval. Vuggy quartz veins occur @ 101.46							
104.55	111.00	6.45	GRD	MG	Granodiorite exhibiting intermittent zones of weakly phyllic, argillic and propyliti alteration.							
111.00	134.11	23.11	GRD	MG	Relatively unaltered granodiorite with alternationg zones of weakl to moderatel argillic , weakly phyllic and propylitic alteration.							

KL -19-435

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.84	0.84	0	0	0.00	0	--	--	--	
0.84	1.52	0.68	0.67	99	0.00	0	--	1H	3W	OVB
1.52	3.05	1.53	1.2	78	0.00	0	--	1H	3W	OVB
3.05	4.57	1.52	1.45	95	0.00	0	--	2H	2W	Soft gouge
4.57	6.10	1.53	1.39	91	0.00	0	--	2H	2W	Soft gouge
6.10	7.62	1.52	1.35	89	0.00	0	--	1H	2W	Soft gouge
7.62	9.14	1.52	1.1	72	0.10	7	--	3H	2W	Rubbly, highly fractured
9.14	10.67	1.53	1.33	87	0.33	22	--	3H	1W	General 'iron stain' infill in the joints
10.67	12.19	1.52	1.52	100	0.47	31	--	3H	1W	"Stepped set of joints". General 'iron stain' infill in the joints
12.19	13.72	1.53	1.53	100	0.59	39	--	4H	1W	General 'iron stain' infill in the joints
13.72	15.24	1.52	1.52	100	0.82	54	--	4H	1W	General 'iron stain' and clay infill in the first set of joints. General 'iron stain', clay and hematite infill in the second set of joints.
15.24	16.76	1.52	1.49	98	0.76	50	--	3H	1W	General 'iron stain' and hematite infill in the joints
16.76	18.29	1.53	1.52	99	1.04	68	--	4H	1W	General 'iron stain' and clay infill in the set of joints
18.29	21.34	3.05	2.95	97	1.02	33	--	4H	1W	Clay and general 'iron stain' infill in the set of joints
21.34	24.38	3.04	2.95	97	1.79	59	--	4H	1W	Chlorite infill in the first set of joints, general 'iron stain' and clay infill in the second set of joints, and clay infill in the third set of joints.
24.38	27.43	3.05	3	98	1.59	52	--	4H	1W	General 'iron stain', clay and chlorite infill in the first set of joints, and clay infill in the second set of joints.
27.43	30.48	3.05	3.03	99	2.38	78	--	4H	1W	Clay and general 'iron stain' infill in the set of joints
30.48	33.53	3.05	2.98	98	2.07	68	--	4H	1W	
33.53	36.58	3.05	2.9	95	1.49	49	--	3H	1W	Clay infill in the first set of joints, chlorite infill in the second set of joints, and clay and general 'iron stain' infill in the third set of joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
36.58	39.62	3.04	3.04	100	1.35	44	--	3H	1W	Clay and general 'iron stain' infill in the first set of joints, and general 'iron stain' and hematite infill in the second set of joints
39.62	42.67	3.05	3.02	99	1.44	47	--	4H	1W	Carbonate and general 'iron stain' infill in the first set of joints, and clay and general 'iron stain' infill in the second set of joints
42.67	45.72	3.05	3.03	99	2.12	70	--	4H	1W	Clay and carbonate infill in the first set of joints, and general 'iron stain' and clay in the second set of joints
45.72	47.85	2.13	2.05	96	0.70	33	--	3H	1W	General 'iron stain' and clay infill in the first set of joints, and chlorite in the second set of joints
47.85	50.29	2.44	2.4	98	1.44	59	--	5H	1W	Clay and general 'iron stain' infill in the set of joints
50.29	53.34	3.05	3.03	99	1.45	48	--	4H	1W	Hematite, carbonate, chlorite and sulphides infill in joints
53.34	56.39	3.05	3.05	100	2.63	86	--	4H	1W	General 'iron stain', chlorite, quartz and carbonate infill in joints
56.39	59.44	3.05	3	98	2.57	84	--	4H	1W	general 'iron stain', chlorite and carbonate infill in the first and third joints, and general 'iron stain' infill in the second set of joints
59.44	61.57	2.13	2	94	1.06	50	--	4H	1W	Chlorite, general 'iron stain' and clay infill in the joint
61.57	64.01	2.44	2.38	98	2.08	85	--	4H	1W	Chlorite, general 'iron stain', quartz and carbonate infill in the joints
64.01	66.14	2.13	2.1	99	1.57	74	--	4H	1W	Chlorite, general 'iron stain', quartz and carbonate infill in joints
66.14	68.28	2.14	1.96	92	1.51	71	--	4H	1W	Carbonate, chlorite and quartz infill in joints
68.28	70.71	2.43	2.38	98	1.73	71	--	4H	1W	Chlorite, carbonate infill in joints
70.71	73.76	3.05	3.03	99	2.36	77	--	4H	1W	Chlorite carbonate, general 'iron stain' and sulphides infill in the first set of joints, and chlorite and carbonate infill in the second set of joints
73.76	76.20	2.44	2.37	97	2.18	89	--	4H	1W	Chlorite and carbonate infill in joints
76.20	78.33	2.13	2.1	99	1.26	59	--	4H	1W	Chlorite, carbonate and sulphides infill in the joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
78.33	81.08	2.75	2.55	93	1.33	48	--	3H	1W	Chlorite Quartz and sulphides infill in the first set of joints, Chlorite and quartz infill in the second set of joints, and clay and sulphides in the third set of joints.
81.08	83.82	2.74	2.71	99	2.45	89	--	3H	1W	Chlorite, sulphides and carbonate infill in the first set of joints, and chlorite, general 'iron stain' and sulphides infill in the second set of joints
83.82	86.26	2.44	2.43	100	1.88	77	--	3H	1W	Chlorite infill in joints, some sulphides in the second set of joints
86.26	89.31	3.05	2.91	95	2.01	66	--	4H	1W	Quartz, carbonate and chlorite infill in joints, some sulphides in the second set of joints
89.31	92.35	3.04	3.03	100	2.70	89	--	3H	1W	Clay infill in joints
92.35	95.40	3.05	3.05	100	2.67	88	--	3H	1W	Clay infill in joints
95.40	98.45	3.05	3.05	100	2.09	69	--	3H	1W	Chlorite and carbonate infill in joints, some sulphides in the first set of joints
98.45	101.50	3.05	2.91	95	1.16	38	--	3H	1W	Clay and sulphides infill in joints
101.50	104.55	3.05	3.05	100	1.48	49	--	3H	1W	Clay and sulphides infill in joints
104.55	107.59	3.04	2.81	92	2.58	85	--	4H	1W	Chlorite, carbonate and quartz infill in joints
107.59	110.64	3.05	3.05	100	2.50	82	--	4H	1W	Chlorite and sulphides infill in the first set of joints, and chlorite, carbonate and quartz infill in the second set of joints
110.64	113.69	3.05	3.05	100	2.97	97	--	4H	1W	Carbonate, quartz and chlorite infill in joints, with sulphides in the second set of joints.
113.69	115.00	1.31	1.31	100	1.18	90	--	4H	1W	Carbonate, chlorite, quartz and sulphides infill in joints
115.00	115.82	0.82	0.7	85	0.53	65	--	4H	1W	
115.82	118.87	3.05	3.05	100	2.47	81	--	4H	1W	Carbonate, chlorite and sulphides in the first and the third set of joints, and hematite, chlorite, carbonate and sulphides in the second set of joints
118.87	120.40	1.53	1.45	95	1.27	83	--	4H	1W	Chlorite and carbonate infill in joints, with sulphides in the first set of joints
120.40	123.44	3.04	3.04	100	2.29	75	--	3H	1W	Carbonate, chlorite, quartz and sulphides infill in the first set of joints, and clay infill in the second set of joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
123.44	125.27	1.83	1.83	100	1.30	71	--	3H	1W	Carbonate and chlorite infill in joints, with sulphides in the second set of joints
125.27	126.49	1.22	1.22	100	1.09	89	--	4H	1W	Carbonate, chlorite and sulphides infill in the first set of joints, and carbonate, chlorite and general 'iron stain' infill in the second set of joints
126.49	128.02	1.53	1.53	100	1.20	78	--	4H	1W	Chlorite and carbonate infill in joints, with sulphides in the second set of joints
128.02	131.06	3.04	3.02	99	2.58	85	--	4H	1W	Chlorite, carbonate, general 'iron stain' and sulphides infill in joints
131.06	134.11	3.05	3.05	100	2.65	87	--	4H	1W	Chlorite and carbonate infill in joints, with general 'iron stain' in the second set of joints

KL -19-435

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	1.774	OVB	
2	0.313	OVB	
3	0.222	OVB	
4	0.409	SIL	
5	0.189	SIL	
6	0.22	SIL	
7	0.348	CLY	
8	0.236	CLY	
9	0.353	GRD	
10	0.129	GRD	
11	0.329	GRD	
12	2.001	GRD	
13	1.355	GRD	
14	5.245	GRD	
15	2.224	GRD	
16	9.838	GRD	
17	9.05	GRD	
18	12.58	GRD	
19	15.58	GRD	
20	17.94	GRD	
21	5.102	GRD	
22	17.46	GRD	
23	12.36	GRD	
24	14.24	GRD	
25	16.16	GRD	
26	6.474	GRD	
27	0.76	GRD	
28	11.7	GRD	
29	16.98	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	7.8	GRD	
31	1.207	GRD	
32	0.239	GRD	
33	0.449	GRD	
34	0.265	GRD	
35	0.296	SIL	
36	0.21	SIL	
37	0.171	SIL	
38	0.14	SIL	
39	0.24	GRD	
40	0.2	GRD	
41	0.131	GRD	
42	0.548	VEN	
43	0.134	GRD	
44	446	GRD	
45	19.08	GRD	
46	0.286	GRD	
47	0.849	GRD	
48	0.33	GRD	
49	4.026	GRD	
50	6.597	GRD	
51	8.846	GRD	
52	3.002	GRD	
53	3.954	GRD	
54	4.72	GRD	
55	13.25	GRD	
56	8.461	GRD	
57	11.45	GRD	
58	15.34	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	0.799	GRD	
60	0.769	GRD	
61	8.117	GRD	
62	11.18	GRD	
63	1.238	GRD	
64	5.016	GRD	
65	8.468	GRD	
66	14.92	GRD	
67	14.08	GRD	
68	15.82	GRD	
69	18.89	GRD	
70	17.69	GRD	
71	17.48	GRD	
72	12.6	GRD	
73	0.188	GRD	
74	17.43	GRD	
75	0.545	GRD	
76	17.88	GRD	
77	8.017	GRD	
78	0.523	GRD	
79	0.389	GRD	
80	0.193	GRD	
81	0.262	GRD	
82	0.128	GRD	
83	0.823	GRD	
84	0.223	GRD	
85	2.24	GRD	
86	10.84	GRD	
87	16.36	GRD	
88	16.82	GRD	
89	3.04	GRD	
90	0.951	GRD	
91	0.241	GRD	
92	0.952	GRD	
93	0.256	GRD	
94	0.309	GRD	
95	0.168	GRD	
96	0.308	GRD	
97	0.425	GRD	
98	0.258	GRD	
99	0.279	VEN	
100	0.192	GRD	
101	0.214	GRD	
102	0.176	GRD	
103	0.182	GRD	
104	0.259	GRD	
105	0.757	GRD	
106	4.095	GRD	
107	0.257	GRD	
108	0.237	GRD	
109	0.219	GRD	
110	0.467	GRD	
111	3.425	GRD	
111	3.425	GRD	
112	11.17	GRD	
113	11.1	GRD	
114	17.26	GRD	
115	12.31	GRD	
116	12.81	GRD	
117	9.794	GRD	
118	3.394	GRD	
119	17.94	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	0.493	GRD	
121	0.411	GRD	
122	14.65	GRD	
123	12.94	GRD	
124	0.754	GRD	
125	0.362	GRD	
126	0.224	GRD	
127	0.256	GRD	
128	4.196	GRD	
129	6.908	GRD	
130	13.45	GRD	
131	14.97	GRD	
132	5.003	GRD	
133	11.44	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-435

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603780	☐	19-001	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603788	☐	19-001	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603796	☐	19-002	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603816	☐	19-002	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603821	☐	19-002	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603840	☐	19-003	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603844	☐	19-003	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603850	☐	19-003	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603754	☐	19-001	Low grade		☑	☐	☐
3.20	4.54	1.34	SIL	1.12	84	W603751	☐	19-001	Low grade		☐	☐	☐
4.54	6.10	1.56	SIL	1.37	88	W603752	☐	19-001	Low grade		☐	☐	☐
6.10	7.57	1.47	CLY, SIL	1.21	82	W603753	☐	19-001	Low grade		☐	☐	☐
7.57	9.66	2.09	CLY	0.63	30	W603755	☐	19-001	Low grade		☐	☐	☐
9.66	10.46	0.80	GRD	0.80	100	W603756	☐	19-001	Low grade		☐	☐	☐
10.46	11.82	1.36	GRD	1.36	100	W603757	☐	19-001	Low grade		☐	☐	☐
11.82	13.22	1.40	GRD	1.40	100	W603758	☐	19-001	Low grade		☐	☐	☐
13.22	14.61	1.39	GRD	1.39	100	W603759	☐	19-001	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
14.61	15.32	0.71	GRD	0.71	100	W603760	☐	19-001	Low grade		☐	☐	☐
15.32	16.07	0.75	GRD	0.75	100	W603761	☐	19-001	Low grade		☐	☐	☐
15.32	16.07	0.75	GRD	0.75	100	W603762	☐	19-001	Low grade		☐	☑	☐
16.07	17.41	1.34	GRD	1.34	100	W603763	☐	19-001	Low grade		☐	☐	☐
17.41	18.37	0.96	GRD	0.96	100	W603764	☐	19-001	Low grade		☐	☐	☐
18.37	18.93	0.56	GRD	0.50	89	W603765	☐	19-001	Low grade		☐	☐	☐
18.93	20.49	1.56	GRD	1.56	100	W603766	☐	19-001	Low grade		☐	☐	☐
20.49	22.11	1.62	GRD	1.62	100	W603767	☐	19-001	Low grade		☐	☐	☐
22.11	23.54	1.43	GRD	1.43	100	W603768	☐	19-001	Low grade		☐	☐	☐
23.54	25.00	1.46	GRD	1.46	100	W603769	☐	19-001	Low grade		☐	☐	☐
25.00	26.50	1.50	GRD	1.50	100	W603770	☐	19-001	Low grade		☐	☐	☐
26.50	28.00	1.50	GRD	1.50	100	W603771	☐	19-001	Low grade		☐	☐	☐
28.00	29.50	1.50	GRD	1.50	100	W603772	☐	19-001	Low grade		☐	☐	☐
29.50	31.00	1.50	GRD	1.50	100	W603773	☐	19-001	Low grade		☐	☐	☐
31.00	31.88	0.88	GRD	0.88	100	W603774	☐	19-001	Low grade		☐	☐	☐
31.88	32.30	0.42	GRD	0.42	100	W603775	☐	19-001	Low grade		☐	☐	☐
31.88	32.30	0.42	GRD	0.42	100	W603776	☐	19-001	Low grade		☐	☐	☑
32.30	33.76	1.46	GRD	1.46	100	W603777	☐	19-001	Low grade		☐	☐	☐
33.76	34.71	0.95	GRD	0.70	74	W603778	☐	19-001	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
34.71	36.11	1.40	SIL	1.40	100	W603779	☐	19-001	Low grade	ME-6	☐	☐	☐
36.11	37.44	1.33	SIL	1.30	98	W603781	☐	19-001	Low grade		☐	☐	☐
37.44	38.00	0.56	SIL	0.56	100	W603782	☐	19-001	Low grade		☐	☐	☐
38.00	38.83	0.83	SIL	0.83	100	W603783	☐	19-001	Low grade		☐	☐	☐
38.83	39.83	1.00	GRD	1.00	100	W603784	☐	19-001	Low grade		☐	☐	☐
39.83	40.65	0.82	GRD	0.82	100	W603785	☐	19-001	Low grade		☐	☐	☐
40.65	41.79	1.14	GRD	1.02	89	W603786	☐	19-001	Low grade		☐	☐	☐
41.79	42.09	0.30	VEN, GRD	0.30	100	W603787	☐	19-006	High grade		☐	☐	☐
42.09	43.09	1.00	GRD	1.00	100	W603789	☐	19-001	Low grade		☐	☐	☐
43.09	44.45	1.36	GRD	1.36	100	W603790	☐	19-001	Low grade		☐	☐	☐
44.45	45.90	1.45	GRD	1.31	90	W603791	☐	19-002	Low grade		☐	☐	☐
45.90	47.29	1.39	GRD	1.39	100	W603793	☐	19-002	Low grade		☐	☐	☐
47.29	48.16	0.87	GRD	0.66	76	W603794	☐	19-002	Low grade		☐	☐	☐
48.16	48.66	0.50	GRD	0.48	96	W603795	☐	19-002	Low grade		☐	☐	☐
48.66	50.16	1.50	GRD	1.50	100	W603797	☐	19-002	Low grade		☐	☐	☐
50.16	51.66	1.50	GRD	1.50	100	W603798	☐	19-002	Low grade		☐	☐	☐
51.66	53.16	1.50	GRD	1.50	100	W603799	☐	19-002	Low grade		☐	☐	☐
53.16	54.66	1.50	GRD	1.50	100	W603800	☐	19-002	Low grade		☐	☐	☐
54.66	56.16	1.50	GRD	1.50	100	W603792	☐	19-002	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
56.16	57.00	0.84	GRD	0.84	100	W603802	☐	19-002	Low grade		☐	☐	☐
57.00	57.74	0.74	GRD	0.74	100	W603803	☐	19-002	Low grade		☐	☐	☐
57.74	59.24	1.50	GRD	1.50	100	W603804	☐	19-002	Low grade		☐	☐	☐
59.24	60.77	1.53	GRD	1.50	98	W603805	☐	19-002	Low grade		☐	☐	☐
59.24	60.77	1.53	GRD	1.50	98	W603806	☐	19-002	Low grade		☐	☑	☐
60.77	62.24	1.47	GRD	1.35	92	W603807	☐	19-002	Low grade		☐	☐	☐
62.24	63.35	1.11	GRD	1.11	100	W603808	☐	19-002	Low grade		☐	☐	☐
63.35	63.84	0.49	GRD	0.49	100	W603809	☐	19-002	Low grade		☐	☐	☐
63.84	65.32	1.48	GRD	1.48	100	W603810	☐	19-002	Low grade		☐	☐	☐
65.32	66.82	1.50	GRD	1.50	100	W603811	☐	19-002	Low grade		☐	☐	☐
66.82	68.28	1.46	GRD	1.45	99	W603812	☐	19-002	Low grade		☐	☐	☐
68.28	69.46	1.18	GRD	1.18	100	W603813	☐	19-002	Low grade		☐	☐	☐
69.46	70.46	1.00	GRD	1.00	100	W603814	☐	19-002	Low grade		☐	☐	☐
70.46	70.96	0.50	GRD	0.33	66	W603815	☐	19-002	Low grade		☐	☐	☐
70.96	72.51	1.55	GRD	1.55	100	W603817	☐	19-002	Low grade		☐	☐	☐
72.51	73.33	0.82	GRD	0.82	100	W603818	☐	19-002	Low grade		☐	☐	☐
73.33	74.72	1.39	GRD	1.39	100	W603819	☐	19-002	Low grade		☐	☐	☐
74.72	76.21	1.49	GRD	1.49	100	W603820	☐	19-002	Low grade		☐	☐	☐
76.21	77.47	1.26	GRD	1.26	100	W603801	☐	19-002	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
77.47	78.88	1.41	GRD	1.41	100	W603822	☐	19-002	Low grade		☐	☐	☐
78.88	79.61	0.73	GRD, GRD	0.73	100	W603823	☐	19-002	Low grade		☐	☐	☐
79.61	80.57	0.96	GRD	0.77	80	W603824	☐	19-002	Low grade		☐	☐	☐
80.57	81.47	0.90	GRD	0.90	100	W603825	☐	19-002	Low grade		☐	☐	☐
80.57	81.47	0.90	GRD	0.90	100	W603826	☐	19-002	Low grade		☐	☐	☑
81.47	82.80	1.33	GRD, GRD	1.20	90	W603827	☐	19-002	Low grade		☐	☐	☐
82.80	84.33	1.53	GRD	1.50	98	W603828	☐	19-002	Low grade		☐	☐	☐
84.33	85.75	1.42	GRD	1.42	100	W603829	☐	19-002	Low grade		☐	☐	☐
85.75	87.27	1.52	GRD	1.30	86	W603830	☐	19-002	Low grade		☐	☐	☐
87.27	88.24	0.97	GRD	0.97	100	W603831	☐	19-003	Low grade		☐	☐	☐
88.24	89.31	1.07	GRD	0.81	76	W603832	☐	19-003	Low grade		☐	☐	☐
89.31	89.89	0.58	GRD, GRD	0.58	100	W603833	☐	19-003	Low grade		☐	☐	☐
89.31	89.89	0.58	GRD, GRD	0.58	100	W603834	☐	19-003	Low grade		☐	☐	☑
89.89	91.25	1.36	GRD	1.36	100	W603835	☐	19-003	Low grade		☐	☐	☐
91.25	92.59	1.34	GRD	1.34	100	W603836	☐	19-003	Low grade		☐	☐	☐
92.59	93.53	0.94	GRD	0.94	100	W603837	☐	19-003	Low grade		☐	☐	☐
93.53	94.52	0.99	GRD	0.99	100	W603838	☐	19-003	Low grade		☐	☐	☐
94.52	95.53	1.01	GRD	1.01	100	W603839	☐	19-003	Low grade		☐	☐	☐
95.53	96.44	0.91	GRD	0.91	100	W603841	☐	19-003	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
96.44	97.91	1.47	GRD	1.34	91	W603842	☐	19-003	Low grade		☐	☐	☐
97.91	98.92	1.01	GRD	1.01	100	W603843	☐	19-003	Low grade		☐	☐	☐
98.92	99.75	0.83	VEN, GRD	0.83	100	W603845	☐	19-006	High grade		☐	☐	☐
99.75	100.80	1.05	VEN, GRD	1.05	100	W603846	☐	19-003	Low grade		☐	☐	☐
100.80	101.92	1.12	GRD	1.05	94	W603847	☐	19-003	Low grade		☐	☐	☐
101.92	102.57	0.65	GRD	0.63	97	W603848	☐	19-003	Low grade		☐	☐	☐
102.57	103.69	1.12	GRD	1.12	100	W603849	☐	19-003	Low grade		☐	☐	☐
103.69	104.71	1.02	GRD	0.95	93	W603851	☐	19-003	Low grade		☐	☐	☐
104.71	106.31	1.60	GRD	1.25	78	W603852	☐	19-003	Low grade		☐	☐	☐
106.31	107.81	1.50	GRD	1.50	100	W603853	☐	19-003	Low grade		☐	☐	☐
107.81	109.32	1.51	GRD	1.50	99	W603854	☐	19-003	Low grade		☐	☐	☐
107.81	109.32	1.51	GRD	1.50	99	W603855	☐	19-003	Low grade		☐	☑	☐
109.32	110.64	1.32	GRD	1.32	100	W603856	☐	19-003	Low grade		☐	☐	☐
110.64	112.16	1.52	GRD	1.52	100	W603857	☐	19-003	Low grade		☐	☐	☐
112.16	113.69	1.53	GRD	1.52	99	W603858	☐	19-003	Low grade		☐	☐	☐
113.69	115.15	1.46	GRD	1.46	100	W603859	☐	19-003	Low grade		☐	☐	☐
115.15	116.23	1.08	GRD	1.06	98	W603860	☐	19-003	Low grade		☐	☐	☐
116.23	117.75	1.52	GRD	1.52	100	W603861	☐	19-003	Low grade		☐	☐	☐
117.75	119.19	1.44	GRD	1.44	100	W603862	☐	19-003	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
119.19	120.37	1.18	GRD	1.18	100	W603863	☐	19-003	Low grade		☐	☐	☐
120.37	121.23	0.86	GRD	0.86	100	W603864	☐	19-003	Low grade		☐	☐	☐
121.23	121.88	0.65	GRD	0.65	100	W603865	☐	19-003	Low grade		☐	☐	☐
121.88	123.37	1.49	GRD	1.49	100	W603866	☐	19-003	Low grade		☐	☐	☐
123.37	124.38	1.01	GRD	1.01	100	W603867	☐	19-003	Low grade		☐	☐	☐
124.38	125.63	1.25	GRD	1.25	100	W603868	☐	19-003	Low grade		☐	☐	☐
125.63	126.52	0.89	GRD	0.89	100	W603869	☐	19-003	Low grade		☐	☐	☐
126.52	127.67	1.15	GRD	1.15	100	W603870	☐	19-003	Low grade		☐	☐	☐
127.67	128.13	0.46	GRD	0.46	100	W603871	☐	19-005	low grade		☐	☐	☐
128.13	129.69	1.56	GRD	1.50	96	W603872	☐	19-005	low grade		☐	☐	☐
129.69	131.06	1.37	GRD	1.37	100	W603873	☐	19-005	low grade		☐	☐	☐
131.06	132.58	1.52	GRD	1.50	99	W603874	☐	19-005	low grade		☐	☐	☐
132.58	134.11	1.53	GRD	1.52	99	W603875	☐	19-005	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	3.20			☐	☐	☐	☐	
19-001	W603754	0.00	0.00	0.00	50	☐	☐	☑	☐	blank
19-001	W603780	0.00	0.00	0.27	480	☐	☐	☐	☑ ME-6	std cdn 6
19-001	W603788	0.00	0.00	1.79	450	☐	☐	☐	☑ KL-STD6	Klaza 6 std
19-003	W603850	0.00	0.00	0.01	50	☐	☐	☑	☐	blank
19-003	W603840	0.00	0.00	1.74	130	☐	☐	☐	☑ KL-STD6	std 6 klaza
19-003	W603844	0.00	0.00	0.26	430	☐	☐	☐	☑ ME-6	Std CDN 6 (orriginally mislabled ME-1402)
19-002	W603796	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-002	W603816	0.00	0.00	1.59	90	☐	☐	☐	☑ KL-STD6	KL6 std
19-002	W603821	0.00	0.00	0.31	550	☐	☐	☐	☑ ME-6	std CDN ME 6
19-001	W603751	3.20	4.54	0.01	3220	☐	☐	☐	☐	
19-001	W603752	4.54	6.10	0.00	1640	☐	☐	☐	☐	
19-001	W603753	6.10	7.57	1.99	990	☐	☐	☐	☐	
19-001	W603755	7.57	9.66	1.38	1100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-001	W603756	9.66	10.46	0.20	1240	☐	☐	☐	☐	
19-001	W603757	10.46	11.82	0.02	1710	☐	☐	☐	☐	
19-001	W603758	11.82	13.22	0.01	1760	☐	☐	☐	☐	
19-001	W603759	13.22	14.61	0.01	1680	☐	☐	☐	☐	
19-001	W603760	14.61	15.32	0.02	2210	☐	☐	☐	☐	
19-001	W603761	15.32	16.07	0.25	530	☐	☐	☐	☐	
19-001	W603762	15.32	16.07	0.16	1410	☑	☐	☐	☐	1/4 duplicate
19-001	W603763	16.07	17.41	0.05	1850	☐	☐	☐	☐	
19-001	W603764	17.41	18.37	0.02	2260	☐	☐	☐	☐	
19-001	W603765	18.37	18.93	0.01	990	☐	☐	☐	☐	
19-001	W603766	18.93	20.49	0.02	2060	☐	☐	☐	☐	
19-001	W603767	20.49	22.11	0.02	2110	☐	☐	☐	☐	
19-001	W603768	22.11	23.54	0.01	2010	☐	☐	☐	☐	
19-001	W603769	23.54	25.00	0.02	2060	☐	☐	☐	☐	
19-001	W603770	25.00	26.50	0.04	1880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-001	W603771	26.50	28.00	0.10	940	☐	☐	☐	☐	
19-001	W603772	28.00	29.50	0.01	1970	☐	☐	☐	☐	
19-001	W603773	29.50	31.00	0.01	2110	☐	☐	☐	☐	
19-001	W603774	31.00	31.88	0.04	1410	☐	☐	☐	☐	
19-001	W603775	31.88	32.30	5.26	430	☐	☐	☐	☐	
19-001	W603776	31.88	32.30	4.96	220	☐	☑	☐	☐	coarse reject
19-001	W603777	32.30	33.76	0.04	720	☐	☐	☐	☐	
19-001	W603778	33.76	34.71	0.04	2350	☐	☐	☐	☐	
19-001	W603779	34.71	36.11	0.00	1760	☐	☐	☐	☐ ME-6	
19-001	W603781	36.11	37.44	0.00	1110	☐	☐	☐	☐	
19-001	W603782	37.44	38.00	0.00	960	☐	☐	☐	☐	
19-001	W603783	38.00	38.83	0.04	2140	☐	☐	☐	☐	
19-001	W603784	38.83	39.83	0.03	1580	☐	☐	☐	☐	
19-001	W603785	39.83	40.65	0.07	500	☐	☐	☐	☐	
19-001	W603786	40.65	41.79	0.10	1490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-006	W603787	41.79	42.09	10.70	170	☐	☐	☐	☐	
19-001	W603789	42.09	43.09	0.08	1370	☐	☐	☐	☐	
19-001	W603790	43.09	44.45	0.04	2370	☐	☐	☐	☐	
19-002	W603791	44.45	45.90	0.01	2420	☐	☐	☐	☐	
19-002	W603793	45.90	47.29	0.04	2010	☐	☐	☐	☐	
19-002	W603794	47.29	48.16	0.03	1980	☐	☐	☐	☐	
19-002	W603795	48.16	48.66	0.32	200	☐	☐	☐	☐	
19-002	W603797	48.66	50.16	0.07	1970	☐	☐	☐	☐	
19-002	W603798	50.16	51.66	0.02	1880	☐	☐	☐	☐	
19-002	W603799	51.66	53.16	0.01	1840	☐	☐	☐	☐	
19-002	W603800	53.16	54.66	0.01	1730	☐	☐	☐	☐	
19-002	W603792	54.66	56.16	0.01	2240	☐	☐	☐	☐	
19-002	W603802	56.16	57.00	0.02	2570	☐	☐	☐	☐	
19-002	W603803	57.00	57.74	0.08	2290	☐	☐	☐	☐	
19-002	W603804	57.74	59.24	0.04	2430	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-002	W603805	59.24	60.77	0.04	2070	☐	☐	☐	☐	
19-002	W603806	59.24	60.77	0.03	1960	☑	☐	☐	☐	1/4 dup
19-002	W603807	60.77	62.24	0.01	2230	☐	☐	☐	☐	
19-002	W603808	62.24	63.35	0.01	2220	☐	☐	☐	☐	
19-002	W603809	63.35	63.84	0.08	210	☐	☐	☐	☐	
19-002	W603810	63.84	65.32	0.01	2580	☐	☐	☐	☐	
19-002	W603811	65.32	66.82	0.02	2310	☐	☐	☐	☐	
19-002	W603812	66.82	68.28	0.01	2570	☐	☐	☐	☐	
19-002	W603813	68.28	69.46	0.03	2520	☐	☐	☐	☐	
19-002	W603814	69.46	70.46	0.03	2280	☐	☐	☐	☐	
19-002	W603815	70.46	70.96	11.50	50	☐	☐	☐	☐	
19-002	W603817	70.96	72.51	0.04	2200	☐	☐	☐	☐	
19-002	W603818	72.51	73.33	0.57	110	☐	☐	☐	☐	
19-002	W603819	73.33	74.72	0.10	2280	☐	☐	☐	☐	
19-002	W603820	74.72	76.21	0.02	2090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-002	W603801	76.21	77.47	0.01	2580	☐	☐	☐	☐	
19-002	W603822	77.47	78.88	0.03	2510	☐	☐	☐	☐	
19-002	W603823	78.88	79.61	0.02	1900	☐	☐	☐	☐	
19-002	W603824	79.61	80.57	0.10	1000	☐	☐	☐	☐	
19-002	W603825	80.57	81.47	0.09	460	☐	☐	☐	☐	
19-002	W603826	80.57	81.47	0.09	630	☐	☑	☐	☐	coarse dup
19-002	W603827	81.47	82.80	0.06	1310	☐	☐	☐	☐	
19-002	W603828	82.80	84.33	0.03	2380	☐	☐	☐	☐	
19-002	W603829	84.33	85.75	0.04	2340	☐	☐	☐	☐	
19-002	W603830	85.75	87.27	0.01	2640	☐	☐	☐	☐	
19-003	W603831	87.27	88.24	0.02	2770	☐	☐	☐	☐	
19-003	W603832	88.24	89.31	0.02	2520	☐	☐	☐	☐	
19-003	W603833	89.31	89.89	1.21	150	☐	☐	☐	☐	
19-003	W603834	89.31	89.89	1.30	160	☐	☑	☐	☐	coarse dup
19-003	W603835	89.89	91.25	0.07	1970	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-003	W603836	91.25	92.59	0.05	2020	☐	☐	☐	☐	
19-003	W603837	92.59	93.53	0.08	440	☐	☐	☐	☐	
19-003	W603838	93.53	94.52	0.05	1870	☐	☐	☐	☐	
19-003	W603839	94.52	95.53	0.04	1000	☐	☐	☐	☐	
19-003	W603841	95.53	96.44	0.04	1570	☐	☐	☐	☐	
19-003	W603842	96.44	97.91	0.05	2270	☐	☐	☐	☐	
19-003	W603843	97.91	98.92	0.08	1740	☐	☐	☐	☐	
19-006	W603845	98.92	99.75	3.23	300	☐	☐	☐	☐	
19-003	W603846	99.75	100.80	0.11	500	☐	☐	☐	☐	
19-003	W603847	100.80	101.92	0.05	1270	☐	☐	☐	☐	
19-003	W603848	101.92	102.57	1.24	1020	☐	☐	☐	☐	
19-003	W603849	102.57	103.69	0.25	1300	☐	☐	☐	☐	
19-003	W603851	103.69	104.71	0.07	1120	☐	☐	☐	☐	
19-003	W603852	104.71	106.31	0.02	2350	☐	☐	☐	☐	
19-003	W603853	106.31	107.81	0.01	2470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-003	W603854	107.81	109.32	0.04	1960	☐	☐	☐	☐	
19-003	W603855	107.81	109.32	0.04	1830	☑	☐	☐	☐	1/4 dup
19-003	W603856	109.32	110.64	0.88	500	☐	☐	☐	☐	
19-003	W603857	110.64	112.16	0.02	2440	☐	☐	☐	☐	
19-003	W603858	112.16	113.69	0.01	2470	☐	☐	☐	☐	
19-003	W603859	113.69	115.15	0.02	2480	☐	☐	☐	☐	
19-003	W603860	115.15	116.23	0.03	2330	☐	☐	☐	☐	
19-003	W603861	116.23	117.75	0.01	2520	☐	☐	☐	☐	
19-003	W603862	117.75	119.19	0.80	2100	☐	☐	☐	☐	
19-003	W603863	119.19	120.37	0.03	3070	☐	☐	☐	☐	
19-003	W603864	120.37	121.23	0.03	1290	☐	☐	☐	☐	
19-003	W603865	121.23	121.88	0.03	770	☐	☐	☐	☐	
19-003	W603866	121.88	123.37	0.11	1990	☐	☐	☐	☐	
19-003	W603867	123.37	124.38	0.02	2020	☐	☐	☐	☐	
19-003	W603868	124.38	125.63	0.03	1420	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-003	W603869	125.63	126.52	0.04	2260	☐	☐	☐	☐	
19-003	W603870	126.52	127.67	0.06	1770	☐	☐	☐	☐	
19-005	W603871	127.67	128.13	0.04	2040	☐	☐	☐	☐	
19-005	W603872	128.13	129.69	0.01	2350	☐	☐	☐	☐	
19-005	W603873	129.69	131.06	0.01	2550	☐	☐	☐	☐	
19-005	W603874	131.06	132.58	0.01	2290	☐	☐	☐	☐	
19-005	W603875	132.58	134.11	0.01	2160	☐	☐	☐	☐	

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383004	6890856	1283.107	257.56

ZONE: Exploration

SECTION:

HOLE: KL -19-436

CLAIM: YD09217

Contractor: Kluane Drilling

Drill: 2

Core Size: NTW

Casing Depth: 9.14m, Out

Drilling Dates: Sep 05 - Sep 08, 2019

Geology Logged By: K. Willms

SURVEY			
Depth (m)	Azimuth	Dip	Method
248.5	37.69	-51.7	Reflex
256	37.59	-51.7	Reflex

TARGET: Central Pearl veins

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.28	1.28	CAS
1.28	14.07	12.79	GRD
14.07	30.96	16.89	GRD
30.96	50.96	20	GRD
50.96	81.08	30.12	GRD
81.08	96.76	15.68	GRD
96.76	96.94	0.18	VEN
96.94	97.97	1.03	QFP
97.97	102	4.03	GRD
102	102.43	0.43	QFP
102.43	105.98	3.55	GRD
105.98	106.77	0.79	QFP
106.77	125	18.23	GRD
125	125.6	0.6	GRD
125.6	130.63	5.03	GRD
130.63	147.04	16.41	GRD

SAMPLES	
Numbers:	W599153, W603001 to W603143
Total:	144
Batch:	004, 006, 010, 014, 015
Certificates:	WH19233859, WH19233889, WH19235048, WH19239257, WH19250393

COMMENTS

147.04	147.77	0.73	GRD
147.77	153.82	6.05	GRD
153.82	159.9	6.08	VEN
159.9	167.58	7.68	GRD
167.58	185.78	18.2	GRD
185.78	190.67	4.89	GRD
190.67	194.45	3.78	GRD
194.45	198.54	4.09	GRD
198.54	228.2	29.66	GRD
228.2	228.64	0.44	GRD
228.64	230.12	1.48	GRD
230.12	257.56	27.44	GRD

Box Log

KL -19-436

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	2.28	8.28
2	8.28	12.19
3	12.19	16.12
4	16.12	19.88
5	19.88	23.87
6	23.87	27.84
7	27.84	32
8	32	36.37
9	36.37	40.31
10	40.31	44.46
11	44.46	48.44
12	48.44	51.88
13	51.88	56.22
14	56.22	60.12
15	60.12	64.18
16	64.18	68.28
17	68.28	72.59
18	72.59	76.67
19	76.67	81.08
20	81.08	84.97
21	84.97	89.26
22	89.26	93.61
23	93.61	97.72
24	97.72	101.84
25	101.84	105.65
26	105.65	109.79
27	109.79	113.81
28	113.81	117.77
29	117.77	121.61
30	121.61	125.6
31	125.6	129.22
32	129.22	133.62
33	133.62	137.67
34	137.67	141.5
35	141.5	145.15
36	145.15	149.22
37	149.22	153.63
38	153.63	158.03
39	158.03	162.4
40	162.4	166.54
41	166.54	170.84
42	170.84	175.11
43	175.11	179.49
44	179.49	183.8
45	183.8	187.64
46	187.64	191.75
47	191.75	195.56
48	195.56	199.35
49	199.35	202.93
50	202.93	206.61
51	206.61	210.38
52	210.38	214.17
53	214.17	218.57
54	218.57	222.68
55	222.68	226.7
56	226.7	230.68
57	230.68	234.96
58	234.96	239.27
59	239.27	243.76
60	243.76	248.1
61	248.1	252.32
62	252.32	256.45
63	256.45	257.56

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-436									
	35.34	23	NTW	GRD	882.5	571.1	1.36	2.8	
	97.47	13	NTW	QFP	790.9	508	2.15	2.8	
	125.33	13	NTW	GRD	926.6	607.8	2.52	2.9	
	155.41	11	NTW	VEN	820.3	566.3	2.64	3.2	
	198.4	12	NTW	GRD	779.6	510	2.3	2.9	
	228.14	16	NTW	GRD	1262.5	859.5	2.79	3.1	
	240.53	14	NTW	GRD	996	659.4	2.52	3.0	
	244.95	12	NTW	GRD	792.6	537.6	2.34	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.28	1.28	CAS	--	casing							
1.28	14.07	12.79	GRD	MG	oxididized, medium-coarse grained granodiorite with intermittent zones of weak argillic alteration. Rubbly sections arelocally observed. Weak to moderate pervasive oidation is seen in grd host. Clay gouge is present @ 3.05-8.21m. 3 cm,light pink aplite dyke inclusion occurs at 7.05m. Local zone of trace propylitic alteration is seen @ 10.39m where sub-mm , black tourmaline crystals are observed (10.38m). Upper section of interval is fractured, rubbly and pervasively oxidized.							
14.07	30.96	16.89	GRD	MG	relatively unaltered granodiorite with intermittent ones of weak argillic alteration. Pervasive oxidation of host grd interval is locally observed. Oxidation occurs as light brown (limonite(?)) , clay oxidation and trace reddish hematitic alteration. Trace, carbonate infilled, and oxidized quartz veins occur sporadically throughout interval.							
30.96	36.37	5.41	GRD	MG	medium to coarse grained unaltered granodiorite with local rubbly, fracture zones (i.e. 30.05,31.70. 1-2cm fine grained volcanic clasts are locally observed in grd host rock. Volcanic clasts contain fine grained, dendritic magnetite.							
36.37	50.96	14.59	GRD	MG	med-coarse grained, trace argillic granodiorite with local zones of weak to moderate light brown clay and reddish hematite oxidation. Fracture zone ocurs @ 45.70-45.80. Oxidation in lower section of grd unit is more hematitic. Veinning appears less prominent than previous interval (trace 1-2mm,carbonate infilled, quartz veinlets occur sporadically.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
50.96	61.00	10.04	GRD	MG	relatively unaltered granodiorite with intermitten zones of weakly argilli alteration. Interval contains light pink, aplite dyke intrusions. Trace calcite veinlets are present on interval. hematite containing bands are also observed on interval.							
61.00	63.77	2.77	GRD	MG	moderately argillic granodiorite interval with local zone of trace propylitic alteration @ 63.20-63.77m. Trace , disseminated pyrite is observed within propylitic altered grd zones. (i.e. 63.76m).							
63.77	64.60	0.83	GRD	MG	weakly to moderately oxidized granodiorite . Trace sub-mm, pyrite bearing veinlets are locally observed							
64.60	71.69	7.09	QFP	MG	dark grey, dyke inclusion containing mm quartz , feldspar, hornblend clasts. Trace pyrite is observed within intrusion sometimes observed as sub mm pyrite bearing bands. 1-2mm calcite veinlets crosscut through pyrite bearing bands							
71.69	77.10	5.41	GRD	MG	granodiorite with locally variable zones of weak propylitic, potassic alteration.							
77.10	81.08	3.98	GRD	MG	granodiorite exhibiting moderate argillic alteration overprinting weakly propylitic alteration zones. Interval is fractured and oxidized along fracture and joint surfaces							
81.08	84.85	3.77	GRD	MG	Granodiorite interval with trace propylitic alteration and trace argillic alteration containing 1-30 cm pink, fine grained aplite dyke intrusions. Trace disseminated pyrite is observed in trace 1 - 2 mm, fine grained, smoky quartz veinlets. Quartz veinlets sometimes crosscut through aplite dyke intrusion (i.e. 81.60-82m). From 83-83.80, increased fracturing of granodiorite is observed with brown , clay rich, oxidized coatings along fracture and joint surfaces							
						MD	PK					
						MD	GY		PRO	1I	Py	3
						LT	GY		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.85	91.00	6.15	GRD	MG	Granodiorite with weak potassic , and locally weak to moderate argillic alteration zones (Interval is more argillic and potassic altered than previous). Aplite intrusions become less prominent in this interval section Trace disseminated pyrite is observed in 1 -2 mm, fine grained, smoky quartz veinlets and sporadically observed in granodiorite unit. Interval exhibits increased mm-sized pyrite bearing veinlets compared to previous interval. From 87-88 m , interval is fractured and contains oxidized coatings along fracture and joint surfaces. Oblate, 5-6 cm, dark grey, fine grained inclusions in granodiorite unit are locally observed (i.e. 87.79-89.10).Oblate inclusions contains mm-sized quarz clasts and minor dendritic magnetite (weakly magnetic). Greenish, fine grained, silicaous dyke intrusion is observed @ 85.12m							
						MD	GY		ARG	2I		
						MD	BG					
						DK	GY		POT	2I	Py	3
91.00	92.17	1.17	GRD	MG	Granodioirite interval exhibiting moderate potassic alteration and weak argillic alteration with intermittent zones of weak to moderate argillic alteration. Trace mm- quartz veins are observed and carbonate infilling fracture surfaces is locally observed in interval. Overall interval contains less veins and less disseminated pyrite. No aplite intrusions observed in interval							
						MD	PK				Py	1
						LT	BG					
92.17	94.44	2.27	GRD	MG	Granodiorite interval with weak propylitic, argillic and trace potassic. Chlorite clasts are more abundant proximal to mm-sized pyrite bearing thin, quartz veinlets. Interval is less potassic altered than previous.							
						MD	BG		POT	1I		
						MD	PK		PRO	2I		
						LT	GN		ARG	2I		
94.44	95.62	1.18	GRD	MG	Moderately potassic altered granodiorite with weak to moderaty argillic alteration. Potassic alteration appears to overprint argillic alteration. Trace chlorite clasts are observed in interval (possible trace of propylitic (?)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BG					
						MD	PK					
95.62	96.76	1.14	GRD	MG	weak potassic , propylitic and argillic interval of granodiorite. Trace mm-sized pyrite bearing quartz veinlets are locally observed with chlorite clasts observed around veinlets.							
						MD	BG		PRO	1I		
						MD	GY		ARG	2I	Py	2
						LT	GN		POT	1I		
96.76	96.94	0.18	VEN	MG	Quartz/ carbonitic (rhodochrosite/ankerite), pyrite bearing vein zone intrusion in granodiorite proximal to contact with quartz feldspar porphyry dyke section. Blackjack sphalerite crystals are locally observed in vein section hosted in smoky quartz vein and surrounded by blebby and disseminated pyrite. Vein appears vuggy and coloform bands comprised of pinkish (rhodocrosite), ankerite and smoke quartz fine grained bands locally observed. From 96.90-96.94, interval is gougy and brecciated (faulted contat between GND and Dyke (?)).							
						MD	GY				Ak	3
						LT	TN	BX	PRO	2I	Py	5
						LT	PK				Qz	10
											Rh	5
											Py	10
96.94	97.97	1.03	QFP	FG	light grey, dark brown, fine-medium grained quartz feldspar porphyry dyke. @ 95.34m dyke becomes darker and medium grained, contains larger clasts composed of quartz, feldspar and dark grey, fine grained clasts. Proximal to contact with altered granodiotire dyke becomes fine grained again with minor reddish banding (banding from darker upper portion of dyke (?)							
97.97	98.10	0.13	VEN	MG	gougy, brecciated vein zone in altered granodiorite. Disseminated pyrite and sub-mm cubic pyrite is locally observed within quartz vein.							
						MD	GY	BX	ARG	3I	Py	10
						DK	GY				Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
98.10	100.77	2.67	GRD	MG	Moderately to strongly argillic altered granodiorite with trace propylitic and possibly potassic alteration (minor k-spar, pinkish matrix in GRD occassionally observed. Trace, coloform bands composed of light pink (rhodochrosite, milky and smoky quartz) are locally observed in interval. Trace disseminated pyrite is observed near colorform bands and within thin sub mm smoky quartz veinlets. Interval is moderately fractured (likely due to argillic alteration).							
						LT	PK		POT	1I	Py	2
						LT	GN		PRO	2I	Rh	2
						LT	BG		ARG	3I		
100.77	101.63	0.86	VEN	MG	stringer vein zone contained in altered GRD. Approximately 8 veins composed of pyrite bearing, smoky quartz (~30 degrees TCA) and minor interstitial carbonate within quartz veins							
						MD	GY					
						LT	BG		ARG	3I	Py	5
101.63	102.00	0.37	GRD	MG	moderatel argillic altered GRD, high fractured and soft ad trace propylitic alteration							
						LT	BG	FR				
						LT	GN					
102.00	102.43	0.43	QFP	MG	fine grained quartz feldspar porphyry dyke intrusion with contac between GRD and dyke ~ 15 degrees TCA (contact is gougy and light green in quartz feldspar porphyry section i.e. 102.03m . Interval is fractured							
						MD	RD					
						MD	BN					
						LT	GN	FR				
102.43	102.60	0.17	GRD	MG	fractured section of argillic altered granodiorite. Oxidation is observed in fracture and joint surfaces.							
						LT	GN		ARG	2I		
						LT	GY					
102.60	103.67	1.07	GRD	MG	moderate argillic altered granodiorite and trace quartz veinlets. Trace chlorite clasts occur throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
103.67	105.41	1.74	GRD	MG	Moderately propylitic alteration in granodiorite interval and intermittent zones of moderate potassic alteration (i.e. 103.85m). Interval is more fractured beyond 104.55m where brownish oxidation is observed along fracture and joint surfaces. Trace mm quart/ carbonitic veinlets occur locally in interval.							
105.41	105.98	0.57	GRD	MG	Fractured, gougy and brecciated, moderately propylitic altered granodiorite. Faulte brecciation proximal to contact (?). Trace disseminated pyrite is observed in grd.							
											Py	2
105.98	106.77	0.79	QFP	MG	reddish, fine to medium grained quartz feldspar porphyry dyke intrusion. Contact between grd and dyke appears faulted (brecciated, gougy and highly fractured).							
106.77	107.74	0.97	GRD	MG	weakly potassic and moderately argillic granodiorite interval. Interval is moderately fractured and trace chlorite clasts are locally observed (trace propylitic (?)).							
						LT	BG					
						LT	PK					
						LT	GN					
107.74	110.05	2.31	GRD	MG	relatively unaltered granodiorite interval with traces of propylitic and potassic alteration. 2 cm pink, fine grained aplite dyke intrusions occur in interval. Trace quartz veinlets with interstitial carbonitic infill are also present in interval with trace disseminated pyrite observed in some veinlets.							
						MD	GN					
						LT	GY		PRO	2I	Py	1
						LT	PK		POT	1I		
110.05	111.83	1.78	GRD	MG	moderate potassic alteration in granodiorite interval with trace argillic alteration. 5mm-1cm pink aplite dyke intrusions are locally observed and appear to be offset by minor, oxidized, quartz veinlets.							
111.83	113.14	1.31	GRD	MG	Granodiorite exhibiting local zones of weak to argillic, and trace potassic alteration. Aplite intrusions are no longer observed in interval.							
						LT	PK		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG		ARG	2I		
						LT	GN					
113.14	114.85	1.71	GRD	MG	weakly argillic to trace proylitic altered granodiorite containing colorform bands of quartz and carbonitic infill (ankerite (?), and pyrite bearing smoky quartz stringer veins (2-3 mm) . Pyrite is also found interstitially surrounding granodiorite clasts.							
						LT	GN		ARG	2I	Py	10
						LT	BG		PRO	2I	Py	5
114.85	116.25	1.40	GRD	MG	moderate potassic and argillic altered granodiorite. Interval is soft and highly fractured.							
						LT	BG		ARG	3I		
						LT	PK		POT	3I		
116.25	125.00	8.75	GRD	MG	Moderately to stongly argillic alteration in granodiorite unit with trace potassic and possible propylitic alteration (trace chlorite clasts locally observed). Trace pyrite bearing, quartz veinlets occur in interval.							
									PRO	1I		
									POT	2I	Py	2
									ARG	4I		
125.00	125.60	0.60	GRD	MG	Brecciated vein zone and stringer vein zone in altered granodiorite. Blebby pyrite is observed near quartz and smoky quartz veins. Vuggy quartz surrounding light pink, slightly reactive to HCL rhodochrosite is locally observed. Fine grained, cubic cleavage , galena crystals are also observed near blebby pyrite in vein zone. Calcite vein appear to brecciate granodiorite and crosscuts through pyrite bearing veins. Ankerite occurs as interstitial infill in veins and within pyrite blebby zone.							
125.60	126.80	1.20	GRD	MG	brecciated, gouged and sheared argillic alteration granodiorite with local rubbly zones (i.e. 126-126.60). Interval contains 2-3 mm, fine grained, pyrite bearing veins ~ 20-25 TCA intruding in host granodiorite. Interstitial carbonitic infilling and surrounding quartz veins are locally observed.							
						MD	BG	SH			Ak	3
						LT	GN	FR				
						DK	GY	BX	ARG	3I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
126.80	128.59	1.79	GRD	MG	Moderately to strongly sericitized, mineralized , faulted brecciated granodiorite . Interval is soft and gougy and contains fine grained, disseminated pyrite in GRD. Interval is more sericitized compared to previous one. Dark fine grained, pyrite bearing, smoky quartz (?) veins are locally observed throughout interval. Ankerite occurs interstitially within quartz veins and in host GRD.							
						MD	GY	RB	ARG	1I	Qz	5
						DK	GY	BX	SER	4I	Ak	5
											Py	20
128.59	130.63	2.04	GRD	MG	gouged, sheared (graphitic surfaces along joints)and fault brecciated granodiorite interval exhibitting moderate argillic and local sericitized intervals. Fine grained disseminated and blebby pyrite within dark grey, fine grained (smoky quartz(?) veins), quartz and within host granodiorite are locally observed (fine pyrite in likely sercitizied interval (?). Sphalerite bearing veins are locally observed. Vein restricted calcite veinlets are locally occuring within pyrite and sphalerite bearing quartz veins.							
130.63	132.30	1.67	GRD	MG	Moderate propylitic and weakly argillic altered granodiorite interval. 130.63-130.90 pyrite occur within smoky quartz veins as blebby and disseminated pyrite. Chlorite clasts are more prominent in interval. Calcite veinlets appear to microbrecciate some sections of granodiorite. Trace hematite clasts and veinlets are observed in interval.							
						MD	GN		PRO	3I	Py	5
									ARG	2I	He	3
											Py	5
132.30	135.10	2.80	GRD	MG	granodiorite interval exhibiting moderate argillic alteration and weak propylitic and potassic alteration (trace of potassic alteration more prominent from 133.72 onwards (still weak potassic though).Small vein section 134.96-135.02 containing minor disseminated and surrounded by pinkish, rhodochrosite vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
135.10	139.74	4.64	GRD	MG	Moderate argillic, moderately potassic and trace propylitic alteration observed in granodiorite interval. (increased potassic alteration compared to previous interval). From 137-138m, interval is fractured. Interval appears weakly magnetic. Trace 1 mm quartz veinlet occur in interval and do not appear to contain sulfides.							
						MD	PK		ARG	3I		
						LT	BG		POT	3I		
						LT	GN		PRO	1I		
139.74	141.70	1.96	GRD	MG	Granodiorite exhibiting moderate argillic, weakkly propylitic and trace potasic alteration (slightly more potassic toward the lower ection of the interval). From 140-140.60m interval is fractured and a gougy brecciated seam is observed @ 146.50 (fine grained pyrite is observed in gougy), brecciated seam and appears to be sericitized. 4-5 mm calcite veins are occassionally observed in interval.							
141.70	143.25	1.55	GRD	MG	Highly fractured, moderate potassic altered granodiorite interval. Potassic alteration I more prominent compared to previous interval.							
143.25	144.15	0.90	GRD	MG	Relatively unaltered granodiorite interval exhibiting weak potassic and propylitic alteration. 1 cm pink aplite inclusion occurs @ 144-144.14m (granodiorite is relatively unaltered compared to previous intervals)							
144.15	145.42	1.27	GRD	MG	Granodiorite with moderately to strong argillic alteration and trace propylitic, interval is soft and gougy, brecciated zones are locally observed.Weak potassic overprint from 144.15-144.65m. @ 144.65m mily quartz, and fine grained, pyrite bearing smoky quartz (?) vein is present in grd interval (~ 20 TCA).							
145.42	147.04	1.62	GRD	MG	gougy, brecciated, (possibly fault related) moderate argillic granodiorite interval. Trace disseminated pyrite occurs in irregular, dark, fine grained clasts. Minor quartz/ carbonitic veinlets occur in section.							
						LT	GN	BX	ARG	3I	Py	3
						LT	BG		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
147.04	147.77	0.73	GRD	MG	Brecciated vein zone intuding into gouged, brecciated, moderately argillic granodiorite unit (fault brecciation (?). Trace disseminated pyrite is locally observed in vein section. 2-3 cm ankerite vein @ 147.60 I observed and appears to be croscut by milky quartz inclusion. Trace to minor chlorite clast occur throughout interval (trace propylitic (?).							
147.77	153.82	6.05	GRD	MG	Interval comprised of predominantly argillic alteration (moderate) with intermittent sections of weakly potassic and trace to minor propylitic alteration. Local rubbly, brecciated (possibly sheared) zones are locally observed. Breciated sections appear to have weak sericite alteration and contain disseminated pyrite throughout grd and within quartz veins. Ankerite is observed as interstitial intrusions within brecciated section and crosscutting pyrite bearing quartz veining . Occassional 1-2 cm pinkish aplite dyke intrusions occur in least altered granodiorite sections. Brecciated zones also appear to host more pyrite bearing vein and fine grained disseminated pyrite.							
153.82	154.80	0.98	GRD	MG	Locally gouged and brecciated granodiorite exhibiting weakly argillic and moderate propylitic alteration (chlorite clasts are commonly observed). Brecciation in interval appears to be fault related. Disseminated pyrite is locally observed in host grd and in trace mm sized, dark grey, fine grained, veinlets. Ankerite veins are locally observed proximal to pyrite bearing veinlets , appear to interstitially surround grd. Calcite infilled fractures crosscut through ankerite-quartz veins locally.							
						MD	BG	BX	PRO	3I	Py	10
						MD	GN		ARG	2I		
154.80	155.44	0.64	FLT	MG	Brecciated, gouged, sheared interval of moderately propylitic and weakly argillic faulted granodiorite. Disseminated pyrite is locally observed in host rock and within dark grey, fine grained veinlets and clasts (sericitized clasts (?), soft greypyrite bearing). Interstitial ankerite occurs in fault zone							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
155.44	155.85	0.41	MX	MG	Fault foot wall interval composed of mineralized vein zones and greenish,fine grained, dyke intrusions (fault footwall). Vein zone is composed of mineralized quartz veins, smoky quartz veinlets. Vein zone contains trace galena, arsenopyrite located near pyrite rich zones. Pyrite in vein zone ranges from disseminated, blebby to euhedral, cubic pyrite crystals. Trace blackjack sphalerite is also observed within quartz vein zone. Dyke sections appear brecciated, contain fine grained pyrite and contain interstitial ankerite partially brecciating dyke section and crosscutting quartz veinlets locally.							
						MD	GY	BX	PRO	2I	Py	15
						MD	GN				As	3
											Ak	5
											Gn	3
											Sp	3
											Py	10
155.85	158.00	2.15	GRD	MG	Brecciated granodiorite exhibiting propylitic alteration. Brecciation zones are gougy and appear to be fault related (proximal to fault zone interval remains brecciated). 2-3 mm, pyrite bearing veinlets are locally observed in interval.							
											Py	5
158.00	158.57	0.57	FLT	MG	gouged, brecciated faulted section of granodiorite. 1 cm quartz veins with calcite fracture infill are locally observed. Cubic pyrite crystals and disseminate pyrite also occurs in granodiorite interval. Dark grey, fine grained, pyrite bearing bands are also observed in faulted interval.							
								BX	PRO	2I	Py	3
											Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
158.57	159.12	0.55	VEN	MG	fault footwall interval containing alternation interval of propylitic granoidiorite and mineralized veins. Vein zone contains pyrite bearing, dark grey, fine grained bands and pyrite bearing quartz veins. Mineralized veins contain bands of blebby pyrite where trace galena, blackjack and honey brown sphalerite are locally observed around pyrite bands. Possible arsenopyrite (?) also occurs within vein zone section. Disseminated pyrite is commonly observed within altered granodiorite section.							
						MD	GY				Sp	3
						MD	GN		PRO	2I	As	1
											Py	10
											Gn	3
											Py	5
159.12	159.90	0.78	GRD	MG	Moderately propylitic granodiorite interval containing 5 cm minearlized quartz vein section Mineralized vein zone @ 159.55 is observed and it contains pyrite bearing smoky quartz veins, dark grey, fine grained, bands containing disseminated pyrite, hematite banding and trace ankerite infilling quartz veins. Pyrite in vein zone is blebby and appears to contain trace arseno pyrite (?).							
						MD	GN		PRO	3I	Py	10
											He	5
											Ak	2
											As	3
159.90	160.53	0.63	GRD	MG	weak argillic and trace propylitic alteration interval of granodiorite							
160.53	163.80	3.27	GRD	MG	relatively unaltered interval of granodiorite with weakly potassic and trace propylitic alteration (some chlorite clasts are locally observed in interval). Trace 1-2 mm pyrite bearing quartz veinlets occur in interval.							
						MD	GY		PRO	1I		
						LT	PK		POT	2I	Py	2
163.80	164.60	0.80	GRD	MG	interval composed of moderately potassic and weakly argillic altered granodiorite. Pyrite bearing quartz vein occurs @ ~ 163.97m. Pyrite in vein occurs as fine grained disseminations.							
						MD	BG		ARG	2I	Py	3
						LT	PK		POT	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
164.60	167.58	2.98	GRD	MG	Granodiorite interval exhibiting weak potassic alteration overprintin propylitic and argillic alteration. Alteration is not as prominent as previous interval.							
						LT	PK		POT	2I		
						LT	GN		PRO	2I		
									ARG	1I		
167.58	172.52	4.94	GRD	MG	moderate to strong argillic granodiorite with intermittent zones of moderate potassic an propylitic alteration. Trace 1-3 quartz veins are locally observed in interval.							
172.52	174.55	2.03	GRD	MG	Granodiorite interval with weak potassic and trace propylitic and argillic alteration. Darker matrix clasts are observed in granodiorite interval							
174.55	175.11	0.56	GRD	MG	Granodiorite interval with weak phyllic an trace propylitic alteration. Disseminated pyrite, increased quartz clasts, muscovite present and weak to moderate silicification are observed in interval. A grey, fine graine, pyrite bearing gougy seam (gouged vein(?)) occurs in interval.							
						LT	GY		PHC	2I	Py	5
						LT	GN		PRO	2I		
175.11	175.70	0.59	GRD	MG	fractured and rubbly interval of weakly potassic and propylitic granoiorite.							
						LT	PK					
						LT	GN					
175.70	176.90	1.20	GRD	MG	granodiorite interval exhibiting moderate potassic an weak propylitic alteration. (increased chloritization and K-spar in granodiorite compared to previous interval.							
						MD	PK					
						LT	GN					
176.90	178.30	1.40	GRD	MG	Granodiorite interval with weak to moderate argillic and propylitic alteration overprinting trace potassic alteration. From 177.50-177.80, milky quartz and smoeky quartz veinlets are observed with trace pyrite disseminations occuring within dark veinlets and sometimes surrounding milky quartz veins. Increase propylitic alteration is observed in this section.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
178.30	179.67	1.37	GRD	MG	Moderate argillic interval of granodiorite with weak potassic and trace propylitic alteration (trace chlorite clasts observed) . Rubbly , gougy zones are observed @ 178.50-179.20 . Trace mm-quartz veinlets are sporadically observe in altered interval.							
179.67	180.40	0.73	GRD	MG	Granodiorite interval displaying moderate propylitic alteration . Pyrite bearing smoky quartz veins occur in interval and appear to be gouged, brecciated. Trace disseminated pyrite also occurs within grd , proximal to brecciation zone.							
						MD	GN		PRO	3I	Py	3
						MD	GY					
180.40	182.70	2.30	GRD	MG	Granodiorite interval exhibiting moderate argillic , weakly propylitic and trace potassic alteration. Intermittent zones of increased argillic alteration occur in interval.							
182.70	185.78	3.08	GRD	MG	Granodiorite interval exhibiting moderate argillic and weakly to moderate propylitic alteration. Minor mm-size pyrite bearing quartz occur throughout interval. From 184.10-184.30m granodiorite is gouged, appears brecciated and sericitized (soft, grey, fine graine, glittery , containing disseminated pyrite).							
						LT	GN		ARG	3I	Py	3
						LT	GY		PRO	2I		
						LT	BG		SER	2I		
185.78	190.67	4.89	GRD	MG	relatively unaltered granodiorite with trace to weak potassic alteration and trace propylitic alteration (some chlorite clasts are observed in interval). Alteration in interval is less prominent compared to previous intervals. A 10 cm, black, fine grained, polymictic (volcanic (?) clasts is observed in grd interval. From 190.50-190.60 pink, fine grained aplite dyke intrusion is observed in grd.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
190.67	192.10	1.43	GRD	MG	Brecciated, gougy interval of weak to moderate argillic and weakly propylitic granodiorite and intermittent zones of unbrecciated weakly altered granodiorite. Brecciated zone is mineralized in quartz veins and along gouge-brecciated seams. Mineralized zone contains blebby pyrite, disseminated pyrite, sub-mm galena surrounding pyrite and trace (possibly arsonepyrite) near pyrite reach zones along gouged brecciated seams and quartz veins. (brecciated interval proximal to fault mineralized transition zone).							
						LT	GN	BX	ARG	2I	As	2
						LT	GY		POT	1I	Gn	3
						LT	BG		PRO	2I	Py	5
											Py	5
192.10	194.45	2.35	GRD	MG	fault brecciated, fractured and gouged fault transition zone containting sections of moderately argillic, weakly propylitic granodiorite and dark green, fine grained , mafic dyke intrusion and pyrite and clast bearing, medium grey, fine grained, dyke intrusions. Vein section @ 92.60 contains blebby pyrite surrounding quartz veins (pyrite does occur in clear quartz vein but is more prominent in grey, fine grained, halo surrounding quartz vein. Quartz vein appears offset by fracturing (likely faulting (?). Mineralized vein zone also contains trace arsone pyrite in pyrite rich zones and cubic galena contained within rhodochrosite vein parallel to quartz vein. Rhodochrosite vein appears to interstitially surround galena bearing zones (likely rhodochrosite infill at a later stage (?)). Trace ankerite is locally observed in mineralized vein zone sometimes microbrecciating host rock . Blebby and euhedral, cubic pyrite is commonly occurring within altered grd and along fracture surfaces.							
						MD	GY	BX	PRO	2I	Py	10
						MD	GN				Ak	2
						LT	GN		ARG	2I	Gn	5
											As	3
											Py	10
194.45	195.56	1.11	MAF	FG	dark green, fine grained, highly fractured, mafic dyke interval. sub-mm trace, pyrite bands are locally observed within interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	FR			Py	3
195.56	196.84	1.28	MAF	MG	dark grey , medium grained, clast bearing dyke interval containing disseminated pyrite, blebby pyrite within mm-sized veinlets and 1-4mm cubic pyrite crystals within host rock. Intermittent zones of dark green fine grained dyke interval (from previous unit) are also observed here.							
196.84	197.40	0.56	FLT	FG	Gouged fault brecciated interval of altered grd. Interval represent actual fault zone (previous sections were fault related faulted rock) . Euhedra, 1-5 mm cubid pyrite and pyrite blebs are commonly observed in mineralized fault. Some seritization is also observed in faulted interval.							
197.40	198.54	1.14	MX	MG	Mineralized section of weakly propylitic and potassic altered granodiorite. Pyrite occurs as fine grained disseminations within grd and as blebby pyrite within quartz veins surrounded by honey brown and blackjack sphalerite. Trace galena and arsone pyrite is also observed in mineralized vein zone (i.e. 197.60m). Rhodochrosite veins near mineralized quartz veins occur in mineralized zones. Minor hematite is locally observed in lower interval section of altered grd (i.e 198.50m).							
						MD	GY		PRO	2I	Py	15
						LT	PK		POT	1I	As	5
						LT	GN				Py	5
											Gn	5
											He	3
											Rh	3
198.54	199.64	1.10	GRD	MG	weakly sheared, granodiorite interval exhibiting weakly potassic and trace propylitic alteration.Trace pyrite is locally observed within quartz veinlets and within host rock.							
						LT	GN	SH	POT	1I	Py	3
						LT	PK		PRO	2I		
199.64	201.00	1.36	GRD	MG	weakly argillic and trace potassic altered granodiorite interval (increased swelling of feldspathic clasts compared to previous interval). Pyrite bearing, 1-3 mm quartz veins are locally observed.							
						LT	BG		ARG	2I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK		POT	1I		
201.00	203.62	2.62	GRD	MG	Granodiorite interval exhibiting weak propylitic and potassic alteration. (chlorite clasts and k-spar locally observed in interval). Pyrite bearing quartz veinlets and dark, fine grained clasts are commonly occuring in interval. 1-7 cm pink, aplite dyke intrusions are also observed in interval. @ 201.60m vein zone crosscutting through aplite dyke intrusion is observed. Vein zone contains pyrite abundant quartz veins, vuggy coloform bands composed of quartz, rhodochrosite and interstitial ankerite. Trace galena and sphalerite are also observed in vein zone. Carbonitic veins appear to replace/infill exisiting vuggy quartz veins. Carbonitic veins run parallel to quartz veins (rhodochrosite and ankerite veins do not crosscut quartz veins but appear to partially replace and infill existing quartz veins). 1-2 mm, pyrite bearing veinlets crosscut through aplite dyke intrusions as well.							
						MD	PK		POT	2I	Ak	3
						LT	GN		PRO	2I	Rh	5
											Py	8
											Py	3
203.62	205.60	1.98	GRD	MG	granodiorite exhibiting weak potassic and propylitic alteration. Interval is fractured and contains less veins than previous interval. aplite dyke intrusion is observed @ 205.40m. Trace pyrite bearing , dark fine grained, veinlets are locally observed in interval. Trace hematite bands are locally observed in unit.							
						MD	GN		POT	2I	He	1
						LT	PK		PRO	2I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
205.60	220.98	15.38	GRD	MG	Granodiorite unit with weaky to moderate potassic alteration and weak propylitic alteration. Interval contains small sections of intermittent moderate propylitic and moderate potassic alteration (most of interval is weakly potassic and propylitic but has small sections of increased potassic/propylitic alteration (~10-20 cm). Aplite dyke intrusions are no longer observed in granodiorite interval. Trace hematite bands also occur in unit (i.e. 215.75m). Sub-mm dark, fine grained, pyrite bearing veinlets occur locally throughtout interval . Dark, fine grained inclusions apppear to be more prominent in upper section of granodiorite (appear as interstitial, semi-chaotic inclusions in grd (i.e. 209-214m)). Some pyrite bearing quartz veinlets containing hematite are also observed in grd.							
									PRO	2I	He	3
									POT	3I	Py	5
									PRO	1I		
									POT	2I		
220.98	221.92	0.94	GRD	MG	granodiorite exhibiting weak argillic ,potassic and trace propylitic alteration. Trace 1 mm quartz veinlets are observed in interval.							
221.92	222.38	0.46	GRD	MG	gouged, brecciated (shear brecciation (?)) section of weakly potassic , propylitic and trace argillic granodiorite. Disseminated and cubic pyrite is commonly observed in brecciated interval.							
						LT	GN				Py	5
						LT	GY				Py	5
						LT	PK					
222.38	224.25	1.87	GRD	MG	weakly potassic and argillic granodiorite with trace propylitic alteration (trace chlorite clasts observed). 1 cm- quartz veins occur in interval where pyrite blebs ar contained at the edges of the quartz veins as sub-mm pyrite bands.							
224.25	224.44	0.19	GRD	MG	moderately propylitic (chlorite more abundant) section of granodiorite. Pyrite and hematite are observed in quartz vein.							
						MD	GN		PRO	3I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
224.44	227.08	2.64	GRD	MG	Granodiorite interval exhibiting weakly potassic, propylitic and trace argillic alteration. Interval is locally farctured and contains less pyrite and veining compared to previous interval							
227.08	228.20	1.12	GRD	MG	weakly to moderately propylitic granodiorite interval with trace potassic and argillic alteration.pyrite bearing milky quartz mm-sized veins are locally observe in interval (note: increased veining and pyrite compared to previous more potassic altered interval).							
228.20	228.64	0.44	GRD	MG	Mineralized vein zone within propylitic altered granodiorite. Mineralized zone contains fine grained pyrite, interstitial and cubic galena and interstitial arseno pyrite near galena and pyrite rich zones. Disseminated pyrite is locally observed within host granodiorite as well. Ankerite and rhodochrosite veins appear to infill and brecciate existing quartz veins and pyrite bearing smoy quartz veins locally. Galena and arsonepyrite appear more prominent in rhodochrosite veins. Rhodochrosite veins contains sub-mm fine grained, coloform bands (?) or fine grained pyrite rich bands (?) (too small to differentiate). Some quartz veins appear vuggy and host mineralization (pyrite, galena, arsonopyrite observed in quartz vein and in quartz vein rhodochrosite appears as interstial infill. Overall, carbonitic brecciating veins ~ 40 TCA. Hematized clasts are also observed in granodiorite mineralized vein zone							
						MD	GY		PRO	2I	Py	10
						LT	GN				Gn	8
						LT	RD				Ak	3
						LT	PK				As	8
											Rh	5
											Py	5
228.64	230.12	1.48	GRD	MG	gouge, brecciated and rubbly interval of weakly argillic, propylitic granodiorite (faulted vein zone foot wall section). Trace blebby yrite and hematite are locally observed in relatively competent precciated section (i.e. 229.60m.							
						LT	GN	RB	PRO	2I	Py	3
						LT	BG	BX	ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
230.12	230.68	0.56	GRD	MG	Granodiorite interval exhibiting weak propylitic, argillic and trace potassic alteration.							
230.68	236.05	5.37	GRD	MG	granodiorite interval exhibiting intermittent patchy zones of weakly to moderate potassic, weakly to moderately argillic alteration. Overall most of granodiorite exhibits weak potassic , argillic and propylitic alteration but varies locally where increased alteration zones are locally observed (10-40 cm). Minor 2-4 mm quartz veins, sometimes hosting disseminated pyrite are locally observed (less veinning and pyrite in potassic altered sections however). A 5 cm, ~ 70 degrees TCA , pink, fine grained aplite intrusion occurs @ 236.70m.							
236.05	238.39	2.34	GRD	MG	Granodiorite interval exhibiting weak potassic alteration overprinted by weakly propylitic alteration. @ 236.22-236.30m mineralized vein zone is observed where alteration near vein zones appears weakly phyllic and propylitic (increased quartz clasts, disseminated pyrite near vein zone and minor muscovite observed). Vein zone contains blebby pyrite, honey brown sphalerite, trace galena and arsonepyrite near pyrite rich zones. Veins in mineralized zone are ~ 55 degrees TCA. Ankerite replacing and brecciating clear quartz veins is locally observed. Hematite bearing quartz vein appears to crosscut through mineralized veins and ankerite veins locally. Aplite dyke intrusions are no longer present in altered granodiorite interval.							
						MD	GY		POT	1I	Ak	5
						LT	GN		PHC	1I	Gn	5
						LT	PK		PRO	2I	As	3
											Py	8
238.39	240.62	2.23	GRD	MG	Weakly to moderate argillic, propylitic and trace potassic altered granodiorite interval with minor 2 cm mineralized veins. Veins are more prominent in propylitic/argillic altered grd than potassic. Mineralized veins contain blebby pyrite, sphalerite, trace galena and carbonitic infill of vuggy quartz veins. (i.e. 238.80m). Interstitial Arsenopyrite occurs @ 239.68m along with blebby pyrite and sphalerite hosted in quartz vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		POT	1I	Sp	5
						LT	GN		ARG	2I	Py	10
											As	8
									PRO	3I	Gn	3
											Py	5
											Ak	3
240.62	242.60	1.98	GRD	MG	Granodiorite exhibiting weak to moderate propylitic alteration and trace potassic and argillic alteration. Minor quartz veins are locally observed in interval (i.e. 241.70m) where blebby pyrite is hosted and hematit appears to surround quartz vein.aplite intrusions are no longer observed							
242.60	247.62	5.02	GRD	MG	weakly potassic and trace propylitic granodiorite with increased magnetite and mafic clast and dendritic inclusion component (clasts and dark dendritic inclusions are strongly magnetic). Trace pyrite bearing veinlet occurs @ 246.42m. However veinning is less prominent than previous interval.							
						LT	PK		PRO	1I		
						LT	GN					
						DK	GY		POT	1I	Py	3
247.62	249.00	1.38	GRD	MG	weakly to moderate argillic , trace propylitic granodiorite interval. Rubbly, gougy zone occurs from 248.41-248-85m.							
						LT	BG		PRO	1I		
						LT	GN		ARG	3I		
249.00	251.00	2.00	GRD	MG	weakly potassic and trace propylitic altered granodiorite interval. (chlorite clasts locally observed).							
						LT	PK		POT	2I		
						LT	GN		PRO	1I		
251.00	251.82	0.82	GRD	MG	Granodiorite exhibiting weak argillic, propylitic and potassic alteration. Trace 2-3 mm carbonitic veins infillig pre existing quartz veins are locally observed (no mineralization in veins however).							
251.82	253.10	1.28	GRD	MG	Granodiorite interval with weak potassic and trace propylitic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
253.10	254.42	1.32	GRD	MG	weakly potassic and weaklt argillic alteredgranodiorite interval. Interval displays dark red oxidation (likely hematite)							
									ARG	2I		
									POT	2I		
									HEM	2I		
254.42	257.56	3.14	GRD	MG	weakly potassic and trace propylitic granodiorite interval with patchy zones of increased potassic alteration. Minor 2-3 mm quartz veinlets are locally observed. Grd in interval displays increased magnetite inclusions.							
									POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.28	1.28	CAS	---	--	casing
1.28	14.07	12.79	GRD	GRD	MG	oxididized, medium-coarse grained granodiorite with intermittent zones of weak argillic alteration. Rubbly sections arelocally observed. Weak to moderate pervasive oidation is seen in grd host. Clay gouge is present @ 3.05-8.21m. 3 cm,light pink aplite dyke inclusion occurs at 7.05m. Local zone of trace propylitic alteration is seen @ 10.39m where sub-mm , black tourmaline crystals are observed (10.38m). Upper section of interval is fractured, rubbly and pervasively oxidized.
14.07	30.96	16.89	GRD	GRD	MG	relatively unaltered granodiorite with intermittent ones of weak argillic alteration. Pervasive oxidation of host grd interval is locally observed. Oxidation occurs as light brown (limonite(?)) , clay oxidation and trace reddish hematitic alteration. Trace, carbonate infilled, and oxidized quartz veins occur sporadically throughout interval.
30.96	36.37	5.41	GRD	GRD	MG	medium to coarse grained unaltered granodiorite with local rubbly, fracture zones (i.e. 30.05,31.70. 1-2cm fine grained volcanic clasts are locally observed in grd host rock. Volcanic clasts contain fine grained, dendritic magnetite.
36.37	50.96	14.59	GRD	GRD	MG	med-coarse grained, trace argillic granodiorite with local zones of weak to moderate light brown clay and reddish hematite oxidation. Fracture zone ocurs @ 45.70-45.80. Oxidation in lower section of grd unit is more hematitic. Veinning appears less prominent than previous interval (trace 1-2mm,carbonate infilled, quartz veinlets occur sporadically.
50.96	61.00	10.04	GRD	GRD	MG	relatively unaltered granodiorite with intermitten zones of weakly argilli alteration. Interval contains light pink, aplite dyke intrusions. Trace calcite veinlets are present on interval. hematite containing bands are also observed on interval.
61.00	63.77	2.77	GRD	GRD	MG	moderately argillic granodiorite interval with local zone of trace propylitic alteration @ 63.20-63.77m. Trace , disseminated pyrite is observed within propylitic altered grd zones. (i.e. 63.76m).
63.77	64.60	0.83	GRD	GRD	MG	weakly to moderately oxidized granodiorite . Trace sub-mm, pyrite bearing veinlets are locally observed
64.60	71.69	7.09	QFP	GRD	MG	dark grey, dyke inclusion containing mm quartz , feldspar, hornblend clasts. Trace pyrite is observed within intrusion sometimes observed as sub mm pyrite bearing bands. 1-2mm calcite veinlets crosscut through pyrite bearing bands
71.69	77.10	5.41	GRD	GRD	MG	granodiorite with locally variable zones of weak propylitic, potassic alteration.
77.10	81.08	3.98	GRD	GRD	MG	granodiorite exhibiting moderate argillic alteration overprinting weakly propylitic alteration zones. Interval is fractured and oxidized along fracture and joint surfaces

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
81.08	84.85	3.77	GRD	GRD	MG	Granodiorite interval with trace propylitic alteration and trace argillic alteration containing 1-30 cm pink, fine grained aplite dyke intrusions. Trace disseminated pyrite is observed in trace 1 -2 mm, fine grained, smoky quartz veinlets. Quartz veinlets sometimes crosscut through aplite dyke intrusion (i.e. 81.60-82m). From 83-83.80, increased fracturing of granodiorite is observed with brown , clay rich, oxidized coatings along fracture and joint surfaces
84.85	91.00	6.15	GRD	GRD	MG	Granodiorite with weak potassic , and locally weak to moderate argillic alteration zones (Interval is more argillic and potassic altered than previous). Aplite intrusions become less prominent in this interval section Trace disseminated pyrite is observed in 1 -2 mm, fine grained, smoky quartz veinlets and sporadically observed in granodiorite unit. Interval exhibits increased mm-sized pyrite bearing veinlets compared to previous interval. From 87-88 m , interval is fractured and contains oxidized coatings along fracture and joint surfaces. Oblate, 5-6 cm, dark grey, fine grained inclusions in granodiorite unit are locally observed (i.e. 87.79-89.10).Oblate inclusions contains mm-sized quarz clasts and minor dendritic magnetite (weakly magnetic). Greenish, fine grained, silicaous dyke intrusion is observed @ 85.12m
91.00	92.17	1.17	GRD	GRD	MG	Granodioirite interval exhibiting moderate potassic alteration and weak argillic alteration with intermittent zones of weak to moderate argillic alteration. Trace mm- quartz veins are observed and carbonate infilling fracture surfaces is locally observed in interval. Overall interval contains less veins and less disseminated pyrite. No aplite intrusions observed in interval
92.17	94.44	2.27	GRD	GRD	MG	Granodiorite interval with weak propylitic, argillic and trace potassic. Chlorite clasts are more abundant proximal to mm-sized pyrite bearing thin, quartz veinlets. Interval is less potassic altered than previous.
94.44	95.62	1.18	GRD	GRD	MG	Moderately potassic altered granodiorite with weak to moderaty argillic alteration. Potassic alteration appears to overprint argillic alteration. Trace chlorite clasts are observed in interval (possible trace of propylitic (?)
95.62	96.76	1.14	GRD	GRD	MG	weak potassic , propylitic and argillic interval of granodiorite. Trace mm-sized pyrite bearing quartz veinlets are locally observed with chlorite clasts observed around veinlets.
96.76	96.94	0.18	VEN	VEIN	MG	Quartz/ carbonitic (rhodochrosite/ankerite), pyrite bearing vein zone intrusion in granodiorite proximal to contact with quartz feldspar porphyry dyke section. Blackjack sphalerite crystals are locally observed in vein section hosted in smoky quartz vein and surrounded by blebby and disseminated pyrite. Vein appears vuggy and coloform bands comprised of pinkish (rhodocrosite), ankerite and smoke quartz fine grained bands locally observed. From 96.90-96.94, interval is gougy and brecciated (faulted contat between GND and Dyke (?)).
96.94	97.97	1.03	QFP	DYK	FG	light grey, dark brown, fine-medium grained quartz feldspar porphyry dyke. @ 95.34m dyke becomes darker and medium grained, contains larger clasts composed of quartz, feldspar and dark grey, fine grained clasts. Proximal to contact with altered granodiotire dyke becomes fine grained again with minor reddish banding (banding from darker upper portion of dyke (?)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
97.97	98.10	0.13	VEN	GRDA	MG	gougy, brecciated vein zone in altered granodiorite. Disseminated pyrite and sub-mm cubic pyrite is locally observed within quartz vein.
98.10	100.77	2.67	GRD	GRDA	MG	Moderately to strongly argillic altered granodiorite with trace propylitic and possibly potassic alteration (minor k-spar, pinkish matrix in GRD occassionally observed. Trace, coloform bands composed of light pink (rhodochrosite, milky and smoky quartz) are locally observed in interval. Trace disseminated pyrite is observed near colorform bands and within thin sub mm smoky quartz veinlets. Interval is moderately fractured (likely due to argillic alteration).
100.77	101.63	0.86	VEN	GRDA	MG	stringer vein zone contained in altered GRD. Approximately 8 veins composed of pyrite bearing, smoky quartz (~30 degrees TCA) and minor interstitial carbonate within quartz veins
101.63	102.00	0.37	GRD	GRDA	MG	moderatel argillic altered GRD, high fractured and soft ad trace propylitic alteration
102.00	102.43	0.43	QFP	DYK	MG	fine grained quartz feldspar porphyry dyke intrusion with contac between GRD and dyke ~ 15 degrees TCA (contact is gougy and light green in quartz feldspar porphyry section i.e. 102.03m . Interval is fractured
102.43	102.60	0.17	GRD	GRDA	MG	fractured section of argillic altered granodiorite. Oxidation is observed in fracture and joint surfaces.
102.60	103.67	1.07	GRD	GRDA	MG	moderate argillic altered granodiorite and trace quartz veinlets. Trace chlorite clasts occur throughout interval.
103.67	105.41	1.74	GRD	GRDA	MG	Moderately propylitic alteration in granodiorite interval and intermittent zones of moderate potassic alteration (i.e. 103.85m). Interval is more fractured beyond 104.55m where brownish oxidation is observed along fracture and joint surfaces. Trace mm quart/ carbonitic veinlets occur locally in interval.
105.41	105.98	0.57	GRD	GRDA	MG	Fractured, gougy and brecciated, moderately propylitic altered granodiorite. Faulte brecciation proximal to contact (?). Trace disseminated pyrite is observed in grd.
105.98	106.77	0.79	QFP	DYK	MG	reddish, fine to medium grained quartz feldspar porphyry dyke intrusion. Contact between grd and dyke appears faulted (brecciated, gougy and highly fractured).
106.77	107.74	0.97	GRD	GRDA	MG	weakly potassic and moderately argillic granodiorite interval. Interval is moderately fractured and trace chlorite clasts are locally observed (trace propylitic (?)).
107.74	110.05	2.31	GRD	GRDA	MG	relatively unaltered granodiorite interval with traces of propylitic and potassic alteration. 2 cm pink, fine grained aplite dyke intrusions occur in interval. Trace quartz veinlets with interstitial carbonitic infill are also present in interval with trace disseminated pyrite observed in some veinlets.
110.05	111.83	1.78	GRD	GRDA	MG	moderate potassic alteration in granodiorite interval with trace argillic alteration. 5mm-1cm pink aplite dyke intrusions are locally observed and appear to be offset by minor, oxidized, quartz veinlets.
111.83	113.14	1.31	GRD	GRDA	MG	Granodiorite exhibiting local zones of weak to argillic, and trace potassic alteration. Aplite intrusions are no longer observed in interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
113.14	114.85	1.71	GRD	GRDA	MG	weakly argillic to trace proylitic altered granodiorite containing colorform bands of quartz and carbonitic infill (ankerite (?), and pyrite bearing smoky quartz stringer veins (2-3 mm) . Pyrite is also found interstitially surrounding granodiorite clasts.
114.85	116.25	1.40	GRD	GRDA	MG	moderate potassic and argillic altered granodiorite. Interval is soft and highly fractured.
116.25	125.00	8.75	GRD	GRDA	MG	Moderately to stongly argillic alteration in granodiorite unit with trace potassic and possible propylitic alteration (trace chlorite clasts locally observed). Trace pyrite bearing, quartz veinlets occur in interval.
125.00	125.60	0.60	GRD	VEIN	MG	Brecciated vein zone and stringer vein zone in altered granodiorite. Blebby pyrite is observed near quartz and smoky quartz veins. Vuggy quartz surrounding light pink, slightly reactive to HCL rhodochrosite is locally observed. Fine grained, cubic cleavage , galena crystals are also observed near blebby pyrite in vein zone. Calcite vein appear to brecciate granodiorite and crosscuts through pyrite bearing veins. Ankerite occurs as interstitial infill in veins and within pyrite blebby zone.
125.60	126.80	1.20	GRD	FLTM	MG	brecciated, gouged and sheared argillic alteration granodiorite with local rubbly zones (i.e. 126-126.60). Interval contains 2-3 mm, fine grained, pyrite bearing veins ~ 20-25 TCA intruding in host granodiorite. Interstitial carbonitic infilling and surrounding quartz veins are locally observed.
126.80	128.59	1.79	GRD	FLTM	MG	Moderately to strongly sericitized, mineralized , faulted brecciated granodiorite . Interval is soft and gougy and contains fine grained, disseminated pyrite in GRD. Interval is more sericitized compared to previous one. Dark fine grained, pyrite bearing, smoky quartz (?) veins are locally observed throughout interval. Ankerite occurs interstitially within quartz veins and in host GRD.
128.59	130.63	2.04	GRD	FLTM	MG	gouged, sheared (graphitic surfaces along joints)and fault brecciated granodiorite interval exhibitting moderate argillic and local sericitized intervals. Fine grained disseminated and blebby pyrite within dark grey, fine grained (smoky quartz(?) veins), quartz and within host granodiorite are locally observed (fine pyrite in likely sercitizied interval (?). Sphalerite bearing veins are locally observed. Vein restricted calcite veinlets are locally occuring within pyrite and sphalerite bearing quartz veins.
130.63	132.30	1.67	GRD	GRDA	MG	Moderate propylitic and weakly argillic altered granodiorite interval. 130.63-130.90 pyrite occur within smoky quartz veins as blebby and disseminated pyrite. Chlorite clasts are more prominent in interval. Calcite veinlets appear to microbrecciate some sections of granodiorite. Trace hematite clasts and veinlets are observed in interval.
132.30	135.10	2.80	GRD	GRDA	MG	granodiorite interval exhibiting moderate argillic alteration and weak propylitic and potassic alteration (trace of potassic alteration more prominent from 133.72 onwards (still weak potassic though).Small vein section 134.96-135.02 containing minor disseminated and surrounded by pinkish, rhodochrosite vein.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
135.10	139.74	4.64	GRD	GRDA	MG	Moderate argillic, moderately potassic and trace propylitic alteration observed in granodiorite interval. (increased potassic alteration compared to previous interval). From 137-138m, interval is fractured. Interval appears weakly magnetic. Trace 1 mm quartz veinlet occur in interval and do not appear to contain sulfides.
139.74	141.70	1.96	GRD	GRDA	MG	Granodiorite exhibiting moderate argillic, weakkly propylitic and trace potasic alteration (slightly more potassic toward the lower ection of the interval). From 140-140.60m interval is fractured and a gougy brecciated seam is observed @ 146.50 (fine grained pyrite is observed in gougy), brecciated seam and appears to be sericitized. 4-5 mm calcite veins are occassionally observed in interval.
141.70	143.25	1.55	GRD	GRDA	MG	Highly fractured, moderate potassic altered granodiorite interval. Potassic alteration I more prominent compared to previous interval.
143.25	144.15	0.90	GRD	GRDA	MG	Relatively unaltered granodiorite interval exhibiting weak potassic and propylitic alteration. 1 cm pink aplite inclusion occurs @ 144-144.14m (granodiorite is relatively unaltered compared to previous intervals)
144.15	145.42	1.27	GRD	GRDA	MG	Granodiorite with moderately to strong argillic alteration and trace propylitic, interval is soft and gougy, brecciated zones are locally observed.Weak potassic overprint from 144.15-144.65m. @ 144.65m mily quartz, and fine grained, pyrite bearing smoky quartz (?) vein is present in grd interval (~ 20 TCA).
145.42	147.04	1.62	GRD	GRDA	MG	gougy, brecciated, (possibly fault related) moderate argillic granodiorite interval. Trace disseminated pyrite occurs in irregular, dark, fine grained clasts. Minor quartz/ carbonitic veinlets occur in section.
147.04	147.77	0.73	GRD	VEIN	MG	Brecciated vein zone intuding into gouged, brecciated, moderately argillic granodiorite unit (fault brecciation (?). Trace disseminated pyrite is locally observed in vein section. 2-3 cm ankerite vein @ 147.60 I observed and appears to be croscut by milky quartz inclusion. Trace to minor chlorite clast occur throughout interval (trace propylitic (?).
147.77	153.82	6.05	GRD	GRDA	MG	Interval comprised of predominantly argillic alteration (moderate) with intermittent sections of weakly potassic and trace to minor propylitic alteration. Local rubbly, brecciated (possibly sheared) zones are locally observed. Breciated sections appear to have weak sericite alteration and contain disseminated pyrite throughout grd and within quartz veins. Ankerite is observed as interstitial intrusions within brecciated section and crosscutting pyrite bearing quartz veining . Occassional 1-2 cm pinkish aplite dyke intrusions occur in least altered granodiorite sections. Brecciated zones also appear to host more pyrite bearing vein and fine grained disseminated pyrite.
153.82	154.80	0.98	GRD	FLTM	MG	Locally gouged and brecciated granodiorite exhibiting weakly argillic and moderate propylitic alteration (chlorite clasts are commonly observed). Brecciation in interval appears to be fault related. Disseminated pyrite is locally observed in host grd and in trace mm sized, dark grey, fine grained, veinlets. Ankerite veins are locally observed proximal to pyrite bearing veinlets , appear to interstitially surround grd. Calcite infilled fractures crosscut through ankerite-quartz veins locally.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
154.80	155.44	0.64	FLT	FLTM	MG	Brecciated, gouged, sheared interval of moderately propylitic and weakly argillic faulted granodiorite. Disseminated pyrite is locally observed in host rock and within dark grey, fine grained veinlets and clasts (sericitized clasts (?), soft greypyrite bearing). Interstitial ankerite occurs in fault zone
155.44	155.85	0.41	MX	FLTM	MG	Fault foot wall interval composed of mineralized vein zones and greenish,fine grained, dyke intrusions (fault footwall). Vein zone is composed of mineralized quartz veins, smoky quartz veinlets. Vein zone contains trace galena, arsenopyrite located near pyrite rich zones. Pyrite in vein zone ranges from disseminated, blebby to euhedral, cubic pyrite crystals. Trace blackjack sphalerite is also observed within quartz vein zone. Dyke sections appear brecciated, contain fine grained pyrite and contain interstitial ankerite partially brecciating dyke section and crosscutting quartz veinlets locally.
155.85	158.00	2.15	GRD	FLTM	MG	Brecciated granodiorite exhibiting propylitic alteration. Brecciation zones are gougy and appear to be fault related (proximal to fault zone interval remains brecciated). 2-3 mm, pyrite bearing veinlets are locally observed in interval.
158.00	158.57	0.57	FLT	FLTM	MG	gouged, brecciated faulted section of granodiorite. 1 cm quartz veins with calcite fracture infill are locally observed. Cubic pyrite crystals and disseminate pyrite also occurs in granodiorite interval. Dark grey, fine grained, pyrite bearing bands are also observed in faulted interval.
158.57	159.12	0.55	VEN	FLTM	MG	fault footwall interval containing alternation interval of propylitic granoidiorite and mineralized veins. Vein zone contains pyrite bearing, dark grey, fine grained bands and pyrite bearing quartz veins. Mineralized veins contain bands of blebby pyrite where trace galena, blackjack and honey brown sphalerite are locally observed around pyrite bands. Possible arsenopyrite (?) also occurs within vein zone section. Disseminated pyrite is commonly observed within altered granodiorite section.
159.12	159.90	0.78	GRD	FLTM	MG	Moderately propylitic granodiorite interval containing 5 cm minearlized quartz vein section Mineralized vein zone @ 159.55 is observed and it contains pyrite bearing smoky quartz veins, dark grey, fine grained, bands containing disseminated pyrite, hematite banding and trace ankerite infilling quartz veins. Pyrite in vein zone is blebby and appears to contain trace arseno pyrite (?).
159.90	160.53	0.63	GRD	GRDA	MG	weak argillic and trace propylitic alteration interval of granodiorite
160.53	163.80	3.27	GRD	GRDA	MG	relatively unaltered interval of granodiorite with weakly potassic and trace propylitic alteration (some chlorite clasts are locally observed in interval). Trace 1-2 mm pyrite bearing quartz veinlets occur in interval.
163.80	164.60	0.80	GRD	GRDA	MG	interval composed of moderately potassic and weakly argillic altered granodiorite. Pyrite bearing quartz vein occurs @ ~ 163.97m. Pyrite in vein occurs as fine grained disseminations.
164.60	167.58	2.98	GRD	GRDA	MG	Granodiorite interval exhibiting weak potassic alteration overprintin propylitic and argillic alteration. Alteration is not as prominent as previous interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
167.58	172.52	4.94	GRD	GRD	MG	moderate to strong argillic granodiorite with intermittent zones of moderate potassic an propylitic alteration. Trace 1-3 quartz veins are locally observed in interval.
172.52	174.55	2.03	GRD	GRD	MG	Granodiorite interval with weak potassic and trace propylitic and argillic alteration. Darker matrix clasts are observed in granodiorite interval
174.55	175.11	0.56	GRD	GRD	MG	Granodiorite interval with weak phyllic an trace propylitic alteration. Disseminated pyrite, increased quartz clasts, muscovite present and weak to moderate silicification are observed in interval. A grey, fine graine, pyrite bearing gougy seam (gouged vein(?)) occurs in interval.
175.11	175.70	0.59	GRD	GRD	MG	fractured and rubbly interval of weakly potassic and propylitic granoiorite.
175.70	176.90	1.20	GRD	GRD	MG	granodiorite interval exhibiting moderate potassic an weak propylitic alteration. (increased chloritization and K-spar in granodiorite compared to previous interval.
176.90	178.30	1.40	GRD	GRD	MG	Granodiorite interval with weak to moderate argillic and propylitic alteration overprinting trace potassic alteration. From 177.50-177.80, milky quartz and smoeky quartz veinlets are observed with trace pyrite disseminations occuring within dark veinlets and sometimes surrounding milky quartz veins. Increase propylitic alteration is observed in this section.
178.30	179.67	1.37	GRD	GRD	MG	Moderate argillic interval of granodiorite with weak potassic and trace propylitic alteration (trace chlorite clasts observed) . Rubbly , gougy zones are observed @ 178.50-179.20 . Trace mm-quartz veinlets are sporadically observe in altered interval.
179.67	180.40	0.73	GRD	GRD	MG	Granodiorite interval displaying moderate propylitic alteration . Pyrite bearing smoky quartz veins occur in interval and appear to be gouged, brecciated. Trace disseminated pyrite also occurs within grd , proximal to brecciation zone.
180.40	182.70	2.30	GRD	GRD	MG	Granodiorite interval exhibiting moderate argillic , weakly propylitic and trace potassic alteration. Intermittent zones of increased argillic alteration occur in interval.
182.70	185.78	3.08	GRD	GRD	MG	Granodiorite interval exhibiting moderate argillic and weakly to moderate propylitic alteration. Minor mm-size pyrite bearing quartz occur throughout interval. From 184.10-184.30m granodiorite is gouged, appears brecciated and sericitized (soft, grey, fine graine, glittery , containing disseminated pyrite).
185.78	190.67	4.89	GRD	GRD	MG	relatively unaltered granodiorite with trace to weak potassic alteration and trace propylitic alteration (some chlorite clasts are observed in interval). Alteration in interval is less prominent compared to previous intervals. A 10 cm, black, fine grained, polymictic (volcanic (?) clasts is observed in grd interval. From 190.50-190.60 pink, fine grained aplite dyke intrusion is observed in grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
190.67	192.10	1.43	GRD	FLTM	MG	Brecciated, gougy interval of weak to moderate argillic and weakly propylitic granodiorite and intermittent zones of unbrecciated weakly altered granodiorite. Brecciated zone is mineralized in quartz veins and along gouge-brecciated seams. Mineralized zone contains blebby pyrite, disseminated pyrite, sub-mm galena surrounding pyrite and trace (possibly arsonepyrite) near pyrite reach zones along gouged brecciated seams and quartz veins. (brecciated interval proximal to fault mineralized transition zone).
192.10	194.45	2.35	GRD	FLTM	MG	fault brecciated, fractured and gouged fault transition zone containting sections of moderately argillic, weakly propylitic granodiorite and dark green, fine grained , mafic dyke intrusion and pyrite and clast bearing, medium grey, fine grained, dyke intrusions. Vein section @ 92.60 contains blebby pyrite surrounding quartz veins (pyrite does occur in clear quartz vein but is more prominent in grey, fine grained, halo surrounding quartz vein. Quartz vein appears offset by fracturing (likely faulting (?). Mineralized vein zone also contains trace arsone pyrite in pyrite rich zones and cubic galena contained within rhodochrosite vein parallel to quartz vein. Rhodochrosite vein appears to interstitially surround galena bearing zones (likely rhodochrosite infill at a later stage (?)). Trace ankerite is locally observed in mineralized vein zone sometimes microbrecciating host rock . Blebby and euhedral, cubic pyrite is commonly occurring within altered grd and along fracture surfaces.
194.45	195.56	1.11	MAF	FLTM	FG	dark green, fine grained, highly fractured, mafic dyke interval. sub-mm trace, pyrite bands are locally observed within interval.
195.56	196.84	1.28	MAF	FLTM	MG	dark grey , medium grained, clast bearing dyke interval containing disseminated pyrite, blebby pyrite within mm-sized veinlets and 1-4mm cubic pyrite crystals within host rock. Intermittent zones of dark green fine grained dyke interval (from previous unit) are also observed here.
196.84	197.40	0.56	FLT	FLTM	FG	Gouged fault brecciated interval of altered grd. Interval represent actual fault zone (previous sections were fault related faulted rock) . Euhedra, 1-5 mm cubid pyrite and pyrite blebs are commonly observed in mineralized fault. Some seritization is also observed in faulted interval.
197.40	198.54	1.14	MX	FLTM	MG	Mineralized section of weakly propylitic and potassic altered granodiorite. Pyrite occurs as fine grained disseminations within grd and as blebby pyrite within quartz veins surrounded by honey brown and blackjack sphalerite. Trace galena and arsone pyrite is also observed in mineralized vein zone (i.e. 197.60m). Rhodochrosite veins near mineralized quartz veins occur in mineralized zones. Minor hematite is locally observed in lower interval section of altered grd (i.e 198.50m).
198.54	199.64	1.10	GRD	GRDA	MG	weakly sheared, granodiorite interval exhibiting weakly potassic and trace propylitic alteration.Trace pyrite is locally observed within quartz veinlets and within host rock.
199.64	201.00	1.36	GRD	GRDA	MG	weakly argillic and trace potassic altered granodiorite interval (increased swelling of feldspathic clasts compared to previous interval). Pyrite bearing, 1-3 mm quartz veins are locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
201.00	203.62	2.62	GRD	GRDA	MG	Granodiorite interval exhibiting weak propylitic and potassic alteration. (chlorite clasts and k-spar locally observed in interval). Pyrite bearing quartz veinlets and dark, fine grained clasts are commonly occuring in interval. 1-7 cm pink, aplite dyke intrusions are also observed in interval. @ 201.60m vein zone crosscutting through aplite dyke intrusion is observed. Vein zone contains pyrite abundant quartz veins, vuggy coloform bands composed of quartz, rhodochrosite and interstitial ankerite. Trace galena and sphalerite are also observed in vein zone. Carbonitic veins appear to replace/infill exisiting vuggy quartz veins. Carbonitic veins run parallel to quartz veins (rhodochrosite and ankerite veins do not crosscut quartz veins but appear to partially replace and infill existing quartz veins). 1-2 mm, pyrite bearing veinlets crosscut through aplite dyke intrusions as well.
203.62	205.60	1.98	GRD	GRDA	MG	granodiorite exhibiting weak potassic and propylitic alteration. Interval is fractured and contains less veins than previous interval. aplite dyke intrusion is observed @ 205.40m. Trace pyrite bearing , dark fine grained, veinlets are locally observed in interval. Trace hematite bands are locally observed in unit.
205.60	220.98	15.38	GRD	GRDA	MG	Granodiorite unit with weaky to moderate potassic alteration and weak propylitic alteration. Interval contains small sections of intermittent moderate propylitic and moderate potassic alteration (most of interval is weakly potassic and propylitic but has small sections of increased potassic/propylitic alteration (~10-20 cm). Aplite dyke intrusions are no longer observed in granodiorite interval. Trace hematite bands also occur in unit (i.e. 215.75m). Sub-mm dark, fine grained, pyrite bearing veinlets occur locally throughtout interval . Dark, fine grained inclusions apppear to be more prominent in upper section of granodiorite (appear as interstitial, semi-chaotic inclusions in grd (i.e. 209-214m)). Some pyrite bearing quartz veinlets containing hematite are also observed in grd.
220.98	221.92	0.94	GRD	GRDA	MG	granodiorite exhibiting weak argillic ,potassic and trace propylitic alteration. Trace 1 mm quartz veinlets are observed in interval.
221.92	222.38	0.46	GRD	GRDA	MG	gouged, brecciated (shear brecciation (?)) section of weakly potassic , propylitic and trace argillic granodiorite. Disseminated and cubic pyrite is commonly observed in brecciated interval.
222.38	224.25	1.87	GRD	GRDA	MG	weakly potassic and argillic granodiorite with trace propylitic alteration (trace chlorite clasts observed). 1 cm- quartz veins occur in interval where pyrite blebs ar contained at the edges of the quartz veins as sub-mm pyrite bands.
224.25	224.44	0.19	GRD	GRDA	MG	moderately propylitic (chlorite more abundant) section of granodiorite. Pyrite and hematite are observed in quartz vein.
224.44	227.08	2.64	GRD	GRDA	MG	Granodiorite interval exhibiting weakly potassic, propylitic and trace argillic alteration. Interval is locally farctured and contains less pyrite and veining compared to previous interval
227.08	228.20	1.12	GRD	GRDA	MG	weakly to moderately propylitic granodiorite interval with trace potassic and argillic alteration.pyrite bearing milky quartz mm-sized veins are locally observe in interval (note: increased veining and pyrite compared to previous more potassic altered interval).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
228.20	228.64	0.44	GRD	VEIN	MG	Mineralized vein zone within propylitic altered granodiorite. Mineralized zone contains fine grained pyrite, interstitial and cubic galena and interstitial arseno pyrite near galena and pyrite rich zones. Disseminated pyrite is locally observed within host granodiorite as well. Ankerite and rhodochrosite veins appear to infill and brecciate existing quartz veins and pyrite bearing smoy quartz veins locally. Galena and arsonepyrite appear more prominent in rhodochrosite veins. Rhodochrosite veins contains sub-mm fine grained, coloform bands (?) or fine grained pyrite rich bands (?) (too small to differentiate). Some quartz veins appear vuggy and host mineralization (pyrite, galena, arsonopyrite observed in quartz vein and in quartz vein rhodochrosite appears as interstial infill. Overall, carbonitic brecciating veins ~ 40 TCA. Hematized clasts are also observed in granodiorite mineralized vein zone
228.64	230.12	1.48	GRD	FLT	MG	gouge, brecciated and rubbly interval of weakly argillic, propylitic granodiorite (faulted vein zone foot wall section). Trace blebby yrite and hematite are locally observed in relatively competent precciated section (i.e. 229.60m.
230.12	230.68	0.56	GRD	GRDA	MG	Granodiorite interval exhibiting weak propylitic, argillic and trace potassic alteration.
230.68	236.05	5.37	GRD	GRDA	MG	granodiorite interval exhibiting intermittent patchy zones of weakly to moderate potassic, weakly to moderately argillic alteration. Overall most of granodiorite exhibits weak potassic , argillic and propylitic alteration but varies locally where increased alteration zones are locally observed (10-40 cm). Minor 2-4 mm quartz veins, sometimes hosting disseminated pyrite are locally observed (less veinning and pyrite in potassic altered sections however). A 5 cm, ~ 70 degrees TCA , pink, fine grained aplite intrusion occurs @ 236.70m.
236.05	238.39	2.34	GRD	GRDA	MG	Granodiorite interval exhibiting weak potassic alteration overprinted by weakly propylitic alteration. @ 236.22-236.30m mineralized vein zone is observed where alteration near vein zones appears weakly phyllic and propylitic (increased quartz clasts, disseminated pyrite near vein zone and minor muscovite observed). Vein zone contains blebby pyrite, honey brown sphalerite, trace galena and arsonepyrite near pyrite rich zones. Veins in mineralized zone are ~ 55 degrees TCA. Ankerite replacing and brecciating clear quartz veins is locally observed. Hematite bearing quartz vein appears to crosscut through mineralized veins and ankerite veins locally. Aplite dyke intrusions are no longer present in altered granodiorite interval.
238.39	240.62	2.23	GRD	GRDA	MG	Weakly to moderate argillic, propylitic and trace potassic altered granodiorite interval with minor 2 cm mineralized veins. Veins are more prominent in propylitic/argillic altered grd than potassic. Mineralized veins contain blebby pyrite, sphalerite, trace galena and carbonitic infill of vuggy quartz veins. (i.e. 238.80m). Interstitial Arsenopyrite occurs @ 239.68m along with blebby pyrite and sphalerite hosted in quartz vein.
240.62	242.60	1.98	GRD	GRDA	MG	Granodiorite exhibiting weak to moderate propylitic alteration and trace potassic and argillic alteration. Minor quartz veins are locally observed in interval (i.e. 241.70m) where blebby pyrite is hosted and hematit appears to surround quartz vein.aplite intrusions are no longer observed

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
242.60	247.62	5.02	GRD	GRDA	MG	weakly potassic and trace propylitic granodiorite with increased magnetite and mafic clast and dendritic inclusion component (clasts and dark dendritic inclusions are strongly magnetic). Trace pyrite bearing veinlet occurs @ 246.42m. However veinning is less prominent than previous interval.
247.62	249.00	1.38	GRD	GRDA	MG	weakly to moderate argillic , trace propylitic granodiorite interval. Rubbly, gougy zone occurs from 248.41-248-85m.
249.00	251.00	2.00	GRD	GRDA	MG	weakly potassic and trace propylitic altered granodiorite interval. (chlorite clasts locally observed).
251.00	251.82	0.82	GRD	GRDA	MG	Granodiorite exhibiting weak argillic, propylitic and potassic alteration. Trace 2-3 mm carbonitic veins infillig pre existing quartz veins are locally observed (no mineralization in veins however).
251.82	253.10	1.28	GRD	GRDA	MG	Granodiorite interval with weak potassic and trace propylitic alteration.
253.10	254.42	1.32	GRD	GRDA	MG	weakly potassic and weaklt argillic alteredgranodiorite interval. Interval displays dark red oxidation (likely hematite)
254.42	257.56	3.14	GRD	GRDA	MG	weakly potassic and trace propylitic granodiorite interval with patchy zones of increased potassic alteration. Minor 2-3 mm quartz veinlets are locally observed. Grd in interval displays increased magnetite inclusions.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.28	1.28	CAS	--	casing							
1.28	14.07	12.79	GRD	MG	oxididized, medium-coarse grained granodiorite with intermittent zones of weak argillic alteration. Rubbly sections arelocally observed. Weak to moderate pervasive oidation is seen in grd host. Clay gouge is present @ 3.05-8.21m. 3 cm,light pink aplite dyke inclusion occurs at 7.05m. Local zone of trace propylitic alteration is seen @ 10.39m where sub-mm , black tourmaline crystals are observed (10.38m).							
14.07	30.96	16.89	GRD	MG	relatively unaltered granodiorite with intermittent ones of weak argillic alteration. Pervasive oxidation of host grd interval is locally observed. Oxidation occurs as light brown (limonite(?)) , clay oxidation and trace reddish hematitic alteration. Trace, carbonate infilled, and oxidized quartz veins occur sporadically throughout interval.zones of trace to weak propylitic alteration are observed @ 19.88-20.08,22.50-23.56m and appear to overprint weak argillic altered grd. Trace, mm-pyrite bearing bands are present @ 23.50m. Dark, fine grained pyrite bearing veinlets are offsetby 1-2m, oxidizied carbonate veinlets. Dendritic magnetite is also observed within some calcite veinlets.							
30.96	50.96	20.00	GRD	MG	relatively unaltered granodiorite with intermittent zones of trace argillic, propylitic alteration. Local oxidized zones are also observed. Oxidation is seen on some grd sections(trace argillic) and along carbonate infilled veinlets. Clay and hematitic oxidation is present along fracture and joint surfaces as well.oxidation is less pervasive than previous unit							
									ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
50.96	81.08	30.12	GRD	MG	granodiorite exhibiting locally variable weak propylitic alteration and weak to moderate argillic alteration zones. Weak to moderate, yellowish/brown oxidation is locally observed. Local zones of trace potassic alteration are also present in interval. 2-5 m, light pink, aplite dyke intrusions become more prominent compared to previous interval.							
81.08	96.76	15.68	GRD	MG	Granodiorite exhibiting trace potassic and possibly propylitic alteration (minor chlorite clasts observed) with intermittent zones of weak to moderate argillic and weak potassic alteration. 1-4 cm , pink fine grained, aplite dyke intrusion (~ 30-35 degrees TCA) are locally observed. Minor 1-2 mm quartz veinlets are observed throughout interval and sometimes contain fine grained disseminated pyrite. Brown/reddish oxidation is observed along fracture and joint surfaces							
						LT	GY		PRO	1I		
						MD	PK		ARG	2I		
						MD	BG		POT	2I	Py	3
96.76	96.94	0.18	VEN	MG	Quartz-carbonate (rhodochrosite/ankerite) vein bearing pyrite hosted within granodiorite. Vein is found proximal to contact with quartz feldspar porphyry dyke section. Blackjack sphalerite crystals are locally observed in vein section hosted in smoky quartz vein and surrounded by blebby and disseminated pyrite. Vein appears vuggy and coloform bands comprised of pinkish (rhodocrosite), ankerite and smoke quartz fine grained bands locally observed. From 96.90-96.94, interval is gougy and brecciated (faulted contat between GND and Dyke (?)).							
						LT	PK				Rh	5
						LT	TN	BX	PRO	2I	Qz	10
						MD	GY				Py	10
											Py	5
											Ak	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.94	97.97	1.03	QFP	FG	light grey, dark brown, fine-medium grained quartz feldspar porphyry dyke. @ 95.34m dyke becomes darker and medium grained, contains larger clasts composed of quartz, feldspar and dark grey, fine grained clasts. Proximal to contact with altered granodiotire dyke becomes fine grained again with minor reddish banding (banding from darker upper portion of dyke (?)							
97.97	102.00	4.03	GRD	MG	moderately to strongly argillic altered granodiorite interval with trace propylitic and potassic alteration (trace chloritized clasts and K-spar matrix sporadically observed). Fractured , and gougy zones are locally observed in interval (likely due to argillic alteration(?)). Trace disseminated pyrite is present in trace mm-quartz veinlets and is more abundant in stringer vein sections containting smoky quartz (i.e. 100.61m). Sub-mm cubic pyrite is observed in stringer vein and brecciated vein sections .							
						LT	BG		PRO	1I		
						LT	PK		ARG	3I		
						LT	GN		POT	1I	Py	1
102.00	102.43	0.43	QFP	MG	fine grained quartz feldspar porphyry dyke intrusion with contac between GRD and dyke ~ 15 degrees TCA (contact is gougy and light green in quartz feldspar porphyry section i.e. 102.03m . Interval is fractured							
						MD	BN	FR				
						LT	GN					
						MD	RD					
102.43	105.98	3.55	GRD	MG	Granodiorite interval exhibiting intermittent moderate argillic, moderate propylitic and trace potassic alteration. Chloritized clasts are more abundant . Trace mm-size quartz veinlets are sporadically observed in interval. Fractured and brecciated zones occur in interval. Brecciated, gougy section is possibly fault or sheared related proximal to contact with quartz feldspar porphyry dyke (i.e. 105.65-105.98).Oxidation along fracture and joint surfaces is locally observed as well.							
						MD	BG		ARG	3I		
						MD	GN		PRO	3I		
						LT	GN		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.98	106.77	0.79	QFP	MG	reddish, fine to medium grained quartz feldspar porphyry dyke intrusion. Contact between grd and dyke appears faulted (brecciated, gougy and highly fractured).							
106.77	125.00	18.23	GRD	MG	Granodiorite interval with intermittent zones of moderate potassic, moderate argillic and weakly propylitic alteration. Argillic alteration is more prominent with depth (potassic alteration also becomes weaker with depth). Pyrite bearing, quartz veins with carbonitic infill and coloform bands are locally observed in interval. From 108-111 c sized, pink finge grained aplite dyke intrusions are locally observed and become less prominent with increased potassic and argillic alteration with depth.							
						LT	GN		ARG	3I		
						LT	BG		POT	3I		
						MD	PK		PRO	2I	Py	3
125.00	125.60	0.60	GRD	MG	mineralized vein zone in altered grd. Pyrite, arsonopyrite, galena, sphalerite occur in vein section. Ankerite appears to infill and replace mineralized vein.							
125.60	130.63	5.03	GRD	MG	Fault brecciated, sheared (~ 20 TCA) and gouged mineralized fault zone interval. Interval ranges from moderately argillic and weakly propylitic to moderately to strongly sericitized then transisioning back to argillic/ weak propylitic interval. Disseminated and euheral pyrite is locally observed throughout interval with most disseminated pyrite occuring within sericitized zones. Honey brown sphalerite and possible zoned sphalerite is locally observed within quartz veins infilledby tan, interstitial ankerite.							
						DK	GY	BX	ARG	3I	Py	10
											Py	20
						LT	GN				Ak	3
						MD	GY	SH	SER	4I	Sp	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
130.63	147.04	16.41	GRD	MG	Granodiorite with alternating and intermittent zones of moderate propylitic, argillic and potassic alteration. Milky and smoky quartz veins hosting disseminated and blebby pyrite are locally observed. Local gougy, fractured and brecciated zones also occur thrughout interval. Through interval alteration progresses as follows (with increasing depth: Moderate propylitic> Argillic>moderately potassic> argillic-propylitic >propylitic potassic > predominantly argillic.							
						MD	BG		POT	3I		
						LT	PK		ARG	3I	Py	5
						MD	GN	RB	PRO	3I	Py	5
						MD	GY					
147.04	147.77	0.73	GRD	MG	Brecciated vein zone intuding into gouged, brecciated, moderately argillic granodiorite unit (fault brecciation (?). Trace disseminated pyrite is locally observed in vein section. 2-3 cm ankerite vein @ 147.60 I observed and appears to be croscut by milky quartz inclusion. Trace to minor chlorite clast occur throughout interval (trace propylitic (?).							
						MD	BG		PRO	1I	Ak	3
						LT	GN		ARG	3I	Py	2
147.77	153.82	6.05	GRD	MG	Interval comprised of predominantly argillic alteration (moderate) with intermittent sections of weakly potassic and trace to minor propylitic alteration. Local rubbly, brecciated (possibly sheared) zones are locally observed. Breciated sections appear to have weak sericite alteration and contain disseminated pyrite throughout grd and within quartz veins. Ankerite is observed as interstitial intrusions within brecciated section and crosscutting pyrite bearing quartz veining . Occassional 1-2 cm pinkish aplite dyke intrusions occur in least altered granodiorite sections. Brecciated zones also appear to host more pyrite bearing vein and fine grained disseminated pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
153.82	159.90	6.08	VEN	--	Gouged, brecciated (possibly sheared), moderately argillic and weakly propylitic alteration in granodiorite unit. Fine grained disseminated pyrite and euhdral cubic pyrite crystals are obseved within dark, fine grained bands (sericitized, soft, gougy clasts and bands) and within brecciated, altered granodiorite. Disseminated blebby pyrite and trace galena is locally observed in vein section @ 155.43.							
						LT	GN		ARG	3I		
						MD	BG	BX	PRO	1I		
						MD	GY		SER	2I		
159.90	167.58	7.68	GRD	MG	Granodiorite with alternating, intermittent zones of weakly argillic, propylitic and potassic alteration. Trace pyrite bearing vienlets occur throughout interval and locally fractured zones.							
167.58	185.78	18.20	GRD	MG	granodiorit with alternating zones of moderate propylitic, argillic and potassic alteration. Zones of increased argillic alteration are less competent and are sometimes gougy. Interval is more altered than previous unit (stronger argillic, potassic and propylitic alteration; and possible trace phyllic alterationproximal to gouged, brecciated seam containting pyrite (disseminated pyrite, muscovite and increased quartz clasts are present I.e. 174.65m).							
185.78	190.67	4.89	GRD	MG	relatively unaltered granodiorite with trace to weak potassic alteration and trace propylitic alteration (some chlorite clasts are observed in interval). Alteration in interval is less prominent compared to previous intervals. A 10 cm, black, fine grained, polymictic (volcanic (?) clasts is observed in grd interval. From 190.50-190.60 pink, fine grained aplite dyke intrusion is observed in grd.							
						LT	PK		POT	2I		
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
190.67	194.45	3.78	GRD	MG	Transition zone composed of fractured, gouged and brecciated (fault related) weakly argilic, propylitic granodiorite and dark green, fine grained , mafic dyke intrusions. Faulted transition zone is mineralized in quartz veins (blebby pyrite, disseminated pyrite, cubic galena and trace arseno pyrite locally observed in mineralized vein zones). Rhodochrosite is observed surrounding galena bearing zones and partially infilling mineralized quartz veins (i.e. 192.48-192.60m: In this mineralized zone rhodochrosite is located parallel in respect to quartz vein and interstitially surrounds cubic galena). (later stage rhodochrosite replacement an infill of mineralized vein zones (?).							
						MD	GY				Gn	5
						MD	GN		ARG	2I	Rh	5
											Py	10
						DK	GN	BX	PRO	2I	As	3
194.45	198.54	4.09	GRD	MG	Unit composed predominantly of dark green, fine grained mafic dyke, dark grey, pyrite-clast bearing dyke and faulted (gouged, brecciated and sheared) weakly argillic and propylitic altered granodiorite. Interval is highly fractured and brecciated (mostly lower portion of interval on actual fault) .							
198.54	228.20	29.66	GRD	MG	Granodiorite with intermittent zones of weakly to moderate argillic , weakly propylitic and weakly to moderately potassic alteration. Pink, fine grained aplite dyke intrusions are locally observed. Minor fractured and gougy zones are observed in interval							
						LT	GN		ARG	2I		
						MD	PK		POT	2I		
									POT	1I		
									PRO	2I		
						LT	BG		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
228.20	228.64	0.44	GRD	MG	Mineralized vein zone within propylitic altered granodiorite. Mineralized zone contains fine grained pyrite, interstitial and cubic galena and interstitial arseno pyrite near galena and pyrite rich zones. Disseminated pyrite is locally observed within host granodiorite as well. Ankerite and rhodochrosite veins appear to infill and brecciate existing quartz veins and pyrite bearing smoy quartz veins locally. Galena and arsonepyrite appear more prominent in rhodochrosite veins. Rhodochrosite veins contains sub-mm fine grained, coloform bands (?) or fine grained pyrite rich bands (?) (too small to differentiate). Some quartz veins appear vuggy and host mineralization (pyrite, galena, arsonopyrite observed in quartz vein and in quartz vein rhodochrosite appears as interstial infill. Overall, carbonate vein breccia cuts at ~ 40 TCA. Hematized clasts are also observed in granodiorite mineralized vein zone							
						LT	PK				Gn	8
						MD	GY				Py	10
						LT	GN				Rh	5
											Py	5
											Ak	3
						LT	RD		PRO	2I	As	8
228.64	230.12	1.48	GRD	MG	gouge, brecciated and rubbly interval of weakly argillic, propylitic granodiorite (faulted vein zone foot wall section). Trace blebby yrite and hematite are locally observed in relatively competent precciated section (i.e. 229.60m.							
						LT	GN	RB	ARG	2I	Py	3
						LT	BG	BX	PRO	2I	He	2
230.12	257.56	27.44	GRD	MG	Granodiorite interval with alternating zones of weakly to moderate potassic, propylitic argillic alteration and intermittent smaller zones of weakly phyllic alteration. From faulted vein foot wall to EOH alteration progresses as follows: moderate potassic>moderate argillic/propylitic>weaklt potassic and propylitic towards EOH. Pyrite bearing quartz veinlets are locally observed in interval : being less abundant in potassic altered zones.Trace galena, and sphalerite are locally observed in vein zones proximal to weakly phyllic and argillic alteration zones (i.e. 238.85m). Cm-sized pink, fine grained aplite dyke intrusions (~ 70 degrees TCA)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		ARG	2I	Py	5
						MD	PK		PHC	1I	Gn	3
						LT	BG		PRO	2I	Sp	3
									POT	2I		
									POT	3I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.28	1.28	0	0	0.00	0	--	--	--	
1.28	1.52	0.24	0.16	67	0.00	0	--	4H	3W	
1.52	3.05	1.53	0.31	20	0.00	0	--	4H	3W	
3.05	4.57	1.52	0.25	16	0.00	0	--	3H	3W	
4.57	5.49	0.92	0.41	45	0.00	0	--	3H	3W	
5.49	6.40	0.91	0.24	26	0.00	0	--	4H	3W	
6.40	7.62	1.22	0.31	25	0.00	0	--	3H	2W	
7.62	9.14	1.52	1.29	85	0.00	0	--	4H	1W	Clay and general 'iron stain' infill in joints
9.14	10.67	1.53	1.4	92	0.57	37	--	4H	1W	Clay, general 'iron stain' and hematite infill in joints
10.67	12.19	1.52	1.3	86	0.11	7	--	3H	1W	Carbonate and clay infill in joints
12.19	13.72	1.53	1.41	92	0.21	14	--	3H	1W	Carbonate, clay, general 'iron stain' and hematite infill in joints
13.72	16.76	3.04	2.7	89	1.15	38	--	4H	1W	Clay and general 'iron stain' infill in joints
16.76	19.81	3.05	2.75	90	1.30	43	--	3H	1W	General 'iron stain' and hematite infill in joints
19.81	22.86	3.05	2.75	90	1.34	44	--	3H	1W	Clay infill in joints
22.86	25.91	3.05	2.93	96	2.48	81	--	3H	1W	Carbonate, clay and hematite infill in joints
25.91	28.96	3.05	2.91	95	1.59	52	--	4H	1W	Clay and carbonate infill in joints
28.96	32.00	3.04	2.78	91	1.10	36	--	4H	1W	Clay and hematite infill in joints
32.00	35.05	3.05	2.95	97	2.24	73	--	5H	1W	General 'iron stain' infill with clay in the first set of joints, and with hematite in the second set of joints
35.05	36.58	1.53	1.35	88	0.90	59	--	5H	1W	Carbonate infill in the first set of joints, and clay and general 'iron stain' infill in the second set of joints
36.58	38.40	1.82	1.66	91	0.58	32	--	4H	1W	Clay and general 'iron stain' infill in joints
38.40	41.15	2.75	2.65	96	1.05	38	--	4H	1W	General 'iron stain' and clay infill in joints
41.15	44.20	3.05	3	98	2.23	73	--	5H	1W	General 'iron stain' and hematite infill in joints
44.20	47.24	3.04	2.83	93	1.28	42	--	3H	1W	General 'iron stain' and hematite infill in the first set of joints, and clay and general 'iron stain' infill in the second set of joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
47.24	48.77	1.53	1.42	93	0.43	28	--	4H	1W	General 'iron stain' and hematite infill in joints
48.77	51.21	2.44	2.15	88	0.77	32	--	4H	1W	Clay infill in joints
51.21	52.12	0.91	0.82	90	0.10	11	--	4H	1W	"Rubbly broken up interval". Clay infill in joints
52.12	54.25	2.13	1.89	89	1.24	58	--	4H	1W	General 'iron stain' and clay infill in joints
54.25	55.47	1.22	0.81	66	0.34	28	--	3H	1W	General 'iron stain, clay and hemtite infill in joints
55.47	57.91	2.44	2.28	93	1.22	50	--	4H	1W	Clay infill in joints
57.91	60.96	3.05	2.41	79	1.09	36	--	4H	1W	"Rubbly in bottom position of interval". Clay and hematite infill in joints
60.96	62.18	1.22	1	82	0.47	39	--	3H	1W	Clay infill in joints
62.18	65.23	3.05	2.65	87	1.75	57	--	3H	1W	General 'iron stain' infill in joints
65.23	68.28	3.05	2.96	97	0.43	14	--	4H	1W	Clay infill in joints
68.28	69.49	1.21	0.65	54	0.20	17	--	3H	1W	Clay infill in joints
69.49	71.32	1.83	1.3	71	0.15	8	--	3H	1W	"Rubbly interval". Clay infill in joints
71.32	74.07	2.75	2.75	100	1.93	70	--	4H	1W	Clay infill in joints
74.07	76.20	2.13	2.05	96	1.31	62	--	4H	1W	Clay and chlorite infill in joints
76.20	78.94	2.74	2.1	77	1.37	50	--	3H	1W	Chlorite infill in the first set of joints, and clay infill in the second set of joints
78.94	81.08	2.14	1.89	88	0.57	27	--	3H	1W	"Rubbly broken interval". Chlorite and carbonate infill in joints, with general 'iron stain' in the second set of joints
81.08	82.60	1.52	1.42	93	0.96	63	--	4H	1W	Carbonate, chlorite and hematite infill in the first set of joints
82.60	84.12	1.52	1.48	97	0.65	43	--	4H	1W	Clay and general 'iron stain' infill in joints
84.12	85.65	1.53	1.31	86	0.77	50	--	4H	1W	Clay and general 'iron stain' infill in joints
85.65	88.09	2.44	2.22	91	0.94	39	--	3H	1W	Clay infill in joints
88.09	89.92	1.83	1.81	99	1.27	69	--	4H	1W	Chlorite, carbonate and hematite infill in the first set of joints, and clay and general 'iron stain' infill in the second set of joints
89.92	92.96	3.04	2.81	92	1.92	63	--	3H	1W	General 'iron stain' and clay infill in the first set of joints, and clay and carbonate infill in the second set of joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.96	96.01	3.05	3.05	100	2.28	75	--	3H	1W	Clay, chlorite and carbonate infill in the first set of joints, chlorite infill in the second set of joints, and hematite infill in the third and fourth set of joints
96.01	99.06	3.05	2.78	91	2.02	66	--	3H	1W	Chlorite, carbonate and sulphides infill in joints, with hematite in the second set of joints
99.06	101.50	2.44	2.31	95	1.34	55	--	3H	1W	Clay infill in joints
101.50	104.55	3.05	2.94	96	1.63	53	--	3H	1W	Clay and general 'iron stain' infill in joints
104.55	105.16	0.61	0.58	95	0.11	18	--	4H	1W	Clay infill in joints, with general 'iron stain' in the first set of joints
105.16	108.20	3.04	2.82	93	1.09	36	--	3H	1W	Clay infill in joints
108.20	111.25	3.05	3.05	100	2.81	92	--	4H	1W	Carbonate, chlorite and quartz infill in joints
111.25	114.30	3.05	3.05	100	2.51	82	--	4H	1W	Chlorite, carbonate and hematite infill in joints
114.30	117.35	3.05	2.88	94	1.35	44	--	3H	1W	Rubbly broken interval
117.35	120.40	3.05	3.05	100	1.64	54	--	3H	1W	Ten cm highly broken at 119.40. Chlorite, carbonate and hematite infill in joints
120.40	123.44	3.04	2.91	96	1.99	65	--	3H	1W	Ten cm highly broken at 1.22m. Clay, chlorite and carbonate infill in joints
123.44	126.49	3.05	2.77	91	1.33	44	--	3H	1W	Up to 4mm quartz infill in some of the shallow angle joints. Chlorite, carbonate and quartz infill in joints
126.49	129.54	3.05	3.05	100	2.21	72	--	2H	1W	Black clay infill in joints
129.54	132.59	3.05	2.91	95	2.31	76	--	3H	1W	Chlorite, quartz and carbonate infill in joints, with hematite infill in the second set of joints
132.59	135.64	3.05	3.05	100	2.88	94	--	3H	1W	Chlorite, carbonate and up to 4mm quartz infill in the first set of joints, and chlorite and clay in the second set of joints
135.64	138.68	3.04	2.88	95	1.41	46	--	3H	1W	Chlorite, carbonate and hematite infill in the first set of joints, and clay infill in the second set of joints
138.68	141.73	3.05	3.05	100	1.65	54	--	3H	1W	Chlorite, carbonate and quartz infill in the first set of joints, chlorite and clay infill in the second and third set of joints with carbonate in the second set of joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
141.73	144.78	3.05	3.05	100	1.14	37	--	4H	1W	Clay and chlorite infill in the first set of joints, chlorite and carbonate infill in the second and third set of joints. Up to 2mm quartz infill in joints at 35 degree to the core
144.78	147.85	3.07	3.05	99	1.04	34	--	3H	1W	Rubbly broken interval. Clay infill in joints
147.85	150.88	3.03	3.03	100	2.44	81	--	4H	1W	Chlorite, carbonate and up to 4mm quartz infill in the first set of joints, and clay infill in the second set of joints
150.88	153.92	3.04	3	99	2.74	90	--	4H	1W	Chlorite, carbonate, hematite and up to 4mm quartz infill in joints
153.92	156.97	3.05	3.05	100	2.61	86	--	2H	1W	Chlorite and carbonate infill in joints
156.97	160.02	3.05	3.05	100	1.88	62	--	2H	1W	Carbonate and chlorite infill in joints
160.02	163.07	3.05	3.05	100	2.77	91	--	4H	1W	Clay and some sulphides in the first joints. Carbonate infill in joints
163.07	166.12	3.05	3.05	100	0.91	30	--	3H	1W	Chlorite and carbonate infill in joints, with some general 'iron stain'.
166.12	169.16	3.04	2.97	98	1.32	43	--	3H	1W	Carbonate and chlorite infill in joints
169.16	172.21	3.05	3.05	100	1.96	64	--	4H	1W	Clay, carbonate and chlorite infill in joints
172.21	175.26	3.05	3.05	100	2.00	66	--	3H	1W	Carbonate and chlorite infill in joints, with some hematite
175.26	178.31	3.05	3.05	100	1.85	61	--	3H	1W	Chlorite and carbonate infill in joints
178.31	181.36	3.05	3.05	100	1.76	58	--	3H	1W	Clay infill in joints
181.36	184.40	3.04	3.04	100	2.02	66	--	3H	1W	Carbonate and chlorite infill in joints
184.40	187.45	3.05	2.96	97	1.86	61	--	3H	1W	Chlorite and carbonate infill in joints
187.45	190.50	3.05	3.05	100	1.90	62	--	4H	1W	Chlorite and carbonate infill in joints
190.50	193.55	3.05	3.05	100	1.17	38	--	3H	1W	Carbonate and chlorite infill in joints
193.55	196.60	3.05	3.05	100	0.82	27	--	3H	1W	Carbonate and chlorite infill in joints
196.60	199.64	3.04	2.77	91	0.88	29	--	3H	1W	Carbonate infill in joints
199.64	202.69	3.05	3.05	100	1.36	45	--	3H	1W	Chlorite infill in joints
202.69	205.74	3.05	3	98	0.27	9	--	4H	1W	Chlorite infill in joints
205.74	208.79	3.05	2.87	94	1.10	36	--	4H	1W	Chlorite, carbonate and hematite infill in joints, with an occurrence of graphite in a joint at 40 degree TAC at 207.78m.
208.79	211.84	3.05	3.05	100	2.04	67	--	4H	1W	Chlorite infill in joints, with some hematite

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
211.84	214.88	3.04	3.04	100	1.60	53	--	3H	1W	Chlorite, carbonate and hematite infill in joints
214.88	217.93	3.05	2.79	91	2.15	70	--	3H	1W	Chlorite, carbonate and hematite infill in joints
217.93	220.98	3.05	3.05	100	1.48	49	--	4H	1W	Chlorite and carbonate infill in joints
220.98	224.03	3.05	3.05	100	2.04	67	--	4H	1W	Chlorite and carbonate infill in joints, with some hematite and sulphides.
224.03	227.08	3.05	3	98	1.11	36	--	3H	1W	Chlorite and carbonate infill in joints
227.08	230.12	3.04	3.04	100	1.11	37	--	3H	1W	Chlorite and carbonate infill in joints
230.12	233.17	3.05	3.03	99	2.51	82	--	4H	1W	CL-CA-CH infill in joints
233.17	236.22	3.05	3.05	100	2.35	77	--	3H	1W	CL-CA-CH infill in joints
236.22	239.27	3.05	3.05	100	2.44	80	--	3H	1W	CH-CA infill in joints
239.27	242.32	3.05	2.89	95	2.85	93	--	4H	1W	CL-CH-CA infill in joints
242.32	245.36	3.04	3.04	100	2.63	87	--	3H	1W	CA-CH-SU-FS infill in joints
245.36	248.41	3.05	3.05	100	2.73	90	--	4H	1W	CA-CH infill in joints
248.41	251.46	3.05	3.05	100	1.81	59	--	4H	1W	CA-CH-FS infill in joints
251.46	254.51	3.05	3.05	100	2.43	80	--	4H	1W	CL-CH-FS infill in joints
254.51	257.56	3.05	3.05	100	2.82	92	--	4H	1W	CH-CA-SU infill in joints

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	13.84	CAS	
2	15.9	GRD	
3	18.03	GRD	
4	2.5	GRD	
5	3.801	GRD	
6	0.294	GRD	
7	4.458	GRD	
8	10.46	GRD	
9	12.8	GRD	
10	20.86	GRD	
11	0.892	GRD	
12	22.11	GRD	
13	7.386	GRD	
14	22.54	GRD	
15	2.266	GRD	
16	1.337	GRD	
17	0.31	GRD	
18	0.857	GRD	
19	5.866	GRD	
20	4.345	GRD	
21	0.509	GRD	
22	0.52	GRD	
23	2.379	GRD	
24	1.074	GRD	
25	1.043	GRD	
26	5.117	GRD	
27	8.06	GRD	
28	9.082	GRD	
29	29.31	GRD	
30	8.612	GRD	
31	10.22	GRD	
32	23.48	GRD	
33	13.23	GRD	
34	12.2	GRD	
35	13.34	GRD	
36	10.07	GRD	
37	23.96	GRD	
38	29.98	GRD	
39	12.72	GRD	
40	29.02	GRD	
41	28.38	GRD	
42	21.72	GRD	
43	23.69	GRD	
44	26.24	GRD	
45	18.8	GRD	
46	7.05	GRD	
47	17.84	GRD	
48	15	GRD	
49	3.205	GRD	
50	24.29	GRD	
51	16.94	GRD	
52	5.413	GRD	
53	1.436	GRD	
54	7.653	GRD	
55	0.705	GRD	
56	20.39	GRD	
57	13.8	GRD	
58	11.49	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	23	GRD	
60	2.253	GRD	
61	2.109	GRD	
62	0.878	GRD	
63	0.429	GRD	
64	1.223	GRD	
65	26.79	GRD	
66	22.29	GRD	
67	20.68	GRD	
68	3.066	GRD	
69	9.691	GRD	
70	19.92	GRD	
71	18.64	GRD	
72	27.1	GRD	
73	22.95	GRD	
74	25.26	GRD	
75	20.67	GRD	
76	26.04	GRD	
77	1.34	GRD	
78	0.3	GRD	
79	17.27	GRD	
80	23.72	GRD	
81	23.47	GRD	
82	7.106	GRD	
83	24.28	GRD	
84	16.58	GRD	
85	2.416	GRD	
86	12.5	GRD	
87	7.311	GRD	
88	4.952	GRD	
89	23.87	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	11.46	GRD	
91	1.956	GRD	
92	1.108	GRD	
93	3.612	GRD	
94	1.191	GRD	
95	2.659	GRD	
96	1.979	GRD	
97	0.316	QFP	
98	0.335	GRD	
99	0.221	GRD	
100	0.18	GRD	
101	0.599	GRD	
102	0.219	GRD	
102	0.219	QFP	
103	0.432	GRD	
104	0.689	GRD	
105	0.27	GRD	
106	0.28	QFP	
107	0.824	GRD	
108	17.74	GRD	
109	9.306	GRD	
110	0.856	GRD	
111	0.81	GRD	
112	15.54	GRD	
113	5.085	GRD	
114	0.294	GRD	
115	0.809	GRD	
116	0.566	GRD	
117	0.73	GRD	
118	0.383	GRD	
119	0.335	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	0.276	GRD	
121	0.828	GRD	
122	0.304	GRD	
123	0.484	GRD	
124	0.376	GRD	
125	0.139	GRD	
125	0.139	GRD	
126	0.187	GRD	
127	0.51	GRD	
128	0.355	GRD	
129	0.318	GRD	
130	0.192	GRD	
131	0.384	GRD	
132	0.307	GRD	
133	0.243	GRD	
134	0.823	GRD	
135	0.499	GRD	
136	0.424	GRD	
137	0.738	GRD	
138	0.603	GRD	
139	0.607	GRD	
140	0.419	GRD	
141	0.66	GRD	
142	0.762	GRD	
143	14.24	GRD	
144	1.973	GRD	
145	0.232	GRD	
146	0.21	GRD	
147	0.138	GRD	
148	0.308	GRD	
149	0.312	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
150	0.245	GRD	
151	0.371	GRD	
152	3.91	GRD	
153	0.509	GRD	
154	0.188	VEN	
155	0.288	VEN	
156	0.329	VEN	
157	0.284	VEN	
158	0.378	VEN	
159	0.678	VEN	
160	9.262	GRD	
161	24.07	GRD	
162	22.15	GRD	
163	26.46	GRD	
164	1.405	GRD	
165	15.08	GRD	
166	1.429	GRD	
167	23.41	GRD	
168	1.625	GRD	
169	0.408	GRD	
170	0.373	GRD	
171	1.009	GRD	
172	1.748	GRD	
173	5.648	GRD	
174	6.068	GRD	
175	0.422	GRD	
176	0.72	GRD	
177	0.352	GRD	
178	0.323	GRD	
179	0.286	GRD	
180	0.488	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
181	0.576	GRD	
182	0.535	GRD	
183	0.763	GRD	
184	0.584	GRD	
185	10.31	GRD	
186	12.76	GRD	
187	19.38	GRD	
188	17.16	GRD	
189	4.582	GRD	
190	9.086	GRD	
191	0.656	GRD	
192	1.56	GRD	
193	0.324	GRD	
194	0.709	GRD	
195	1.253	GRD	
196	1.172	GRD	
197	0.974	GRD	
198	0.381	GRD	
199	0.492	GRD	
200	0.67	GRD	
201	0.49	GRD	
202	13.78	GRD	
203	0.212	GRD	
204	0.441	GRD	
205	3.077	GRD	
206	3.664	GRD	
207	2.962	GRD	
208	1.349	GRD	
209	7.627	GRD	
210	6.991	GRD	
211	9.919	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
212	5.226	GRD	
213	5.32	GRD	
214	3.007	GRD	
215	0.68	GRD	
216	2.485	GRD	
217	6.699	GRD	
218	3.813	GRD	
219	27.83	GRD	
220	5.994	GRD	
221	21.76	GRD	
222	1.136	GRD	
223	0.674	GRD	
224	0.589	GRD	
225	0.883	GRD	
226	1.153	GRD	
227	0.548	GRD	
228	0.375	GRD	
229	0.481	GRD	
230	1.045	GRD	
231	0.879	GRD	
232	0.886	GRD	
233	7.63	GRD	
234	0.835	GRD	
235	0.479	GRD	
236	0.38	GRD	
237	1.029	GRD	
238	0.463	GRD	
239	0.256	GRD	
240	0.415	GRD	
241	9.471	GRD	
242	1.684	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
243	5.737	GRD	
244	8.729	GRD	
245	3.16	GRD	
246	5.229	GRD	
247	6.672	GRD	
248	0.251	GRD	
249	5.808	GRD	
250	18.33	GRD	
251	2.643	GRD	
252	18.35	GRD	
253	0.795	GRD	
254	1.123	GRD	
255	2.518	GRD	
256	20.05	GRD	
257	13.18	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-436

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603116	☐	19-014	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603008	☐	19-004	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603126	☐	19-015	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603103	☐	19-014	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603097	☐	19-014	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603073	☐	19-010	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603064	☐	19-010	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603046	☐	19-010	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603026	☐	19-004	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603021	☐	19-004	Low grade	KL-STD6	☐	☐	☐
23.31	23.87	0.56	GRD	0.54	96	W603001	☐	19-004	Low grade		☐	☐	☐
23.87	24.32	0.45	GRD	0.44	98	W603002	☐	19-004	Low grade		☐	☐	☐
24.32	24.82	0.50	GRD	0.48	96	W603003	☐	19-004	Low grade		☐	☐	☐
24.82	26.06	1.24	GRD	1.02	82	W603004	☐	19-004	Low grade		☐	☐	☐
26.06	27.25	1.19	GRD	1.03	87	W603005	☐	19-004	Low grade		☐	☐	☐
27.25	28.00	0.75	GRD	0.70	93	W603006	☐	19-004	Low grade		☐	☐	☐
28.00	28.67	0.67	GRD	0.67	100	W603007	☐	19-004	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
63.34	64.00	0.66	GRD	0.63	95	W603009	☐	19-004	Low grade		☐	☐	☐
64.00	64.64	0.64	GRD	0.58	91	W603010	☐	19-004	Low grade		☐	☐	☐
64.64	65.77	1.13	GRD	0.97	86	W603011	☐	19-004	Low grade		☐	☐	☐
95.67	96.67	1.00	GRD	1.00	100	W603012	☐	19-004	Low grade		☐	☐	☐
96.67	96.97	0.30	GRD	0.30	100	W603013	☐	19-004	Low grade		☐	☐	☐
96.97	97.97	1.00	QFP	1.00	100	W603014	☐	19-004	Low grade		☐	☐	☐
96.97	97.97	1.00	QFP	1.00	100	W603015	☐	19-004	Low grade		☐	☑	☐
97.97	98.27	0.30	GRD, QFP	0.30	100	W603016	☐	19-004	Low grade		☐	☐	☐
98.27	99.53	1.26	GRD	1.00	79	W603017	☐	19-004	Low grade		☐	☐	☐
99.53	100.63	1.10	GRD	1.10	100	W603018	☐	19-004	Low grade		☐	☐	☐
100.63	100.95	0.32	GRD	0.30	94	W603019	☐	19-004	Low grade		☐	☐	☐
100.95	102.00	1.05	GRD	0.90	86	W603020	☐	19-004	Low grade		☐	☐	☐
104.70	105.65	0.95	GRD	0.90	95	W603022	☐	19-004	Low grade		☐	☐	☐
105.65	105.97	0.32	GRD	0.31	97	W603023	☐	19-004	Low grade		☐	☐	☐
105.97	106.75	0.78	GRD	0.74	95	W603024	☐	19-004	Low grade		☐	☐	☐
106.75	107.77	1.02	QFP	0.95	93	W603025	☐	19-004	Low grade		☐	☐	☐
113.41	114.41	1.00	GRD	0.98	98	W603027	☐	19-004	Low grade		☐	☐	☐
114.41	114.75	0.34	GRD	0.34	100	W603028	☐	19-004	Low grade		☐	☐	☐
114.41	114.75	0.34	GRD	0.34	100	W603029	☐	19-004	Low grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
114.75	115.75	1.00	GRD	0.95	95	W603030	☐	19-004	Low grade		☐	☐	☐
123.00	124.00	1.00	GRD	1.00	100	W603031	☐	19-004	Low grade		☐	☐	☐
124.00	125.00	1.00	GRD	0.90	90	W603032	☐	19-004	Low grade		☐	☐	☐
125.00	125.60	0.60	GRD, GRD	0.57	95	W603033	☐	19-004	Low grade		☐	☐	☐
125.60	125.95	0.35	GRD, GRD	0.30	86	W603034	☐	19-004	Low grade		☐	☐	☐
125.95	126.49	0.54	GRD	0.46	85	W603035	☐	19-004	Low grade		☐	☐	☐
126.49	126.80	0.31	GRD	0.30	97	W603036	☐	19-004	Low grade		☐	☐	☐
126.80	127.57	0.77	GRD	0.75	97	W603037	☐	19-004	Low grade		☐	☐	☐
127.57	128.11	0.54	GRD	0.52	96	W603038	☐	19-004	Low grade		☐	☐	☐
128.11	128.56	0.45	GRD	0.33	73	W603039	☐	19-004	Low grade		☐	☐	☐
128.56	129.22	0.66	GRD	0.63	95	W603040	☐	19-004	Low grade		☐	☐	☐
129.22	129.54	0.32	GRD	0.29	91	W603041	☐	19-010	low grade		☐	☐	☐
129.54	130.30	0.76	GRD	0.70	92	W603042	☐	19-010	low grade		☐	☐	☐
130.30	130.64	0.34	GRD	0.33	97	W603043	☐	19-010	low grade		☐	☐	☐
130.64	131.64	1.00	GRD	0.98	98	W603044	☐	19-010	low grade		☐	☐	☐
131.64	132.49	0.85	GRD	0.85	100	W603045	☐	19-010	low grade		☐	☐	☐
138.15	139.15	1.00	GRD	1.00	100	W603047	☐	19-010	low grade		☐	☐	☐
139.15	140.22	1.07	GRD	1.02	95	W603048	☐	19-010	low grade		☐	☐	☐
140.22	140.56	0.34	GRD	0.33	97	W603049	☐	19-010	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
140.56	141.56	1.00	GRD	0.99	99	W603050	☐	19-010	low grade		☐	☐	☐
141.56	142.61	1.05	GRD	1.02	97	W603051	☐	19-010	low grade		☐	☐	☐
142.61	143.40	0.79	GRD	0.75	95	W603052	☐	19-010	low grade		☐	☐	☐
143.40	144.40	1.00	GRD	0.94	94	W603053	☐	19-010	low grade		☐	☐	☐
144.40	145.40	1.00	GRD	0.96	96	W603054	☐	19-010	low grade		☐	☐	☐
145.40	145.70	0.30	GRD	0.30	100	W603055	☐	19-010	low grade		☐	☐	☐
145.70	146.22	0.52	GRD	0.50	96	W603056	☐	19-010	low grade		☐	☐	☐
146.22	147.10	0.88	GRD	0.88	100	W603057	☐	19-010	low grade		☐	☐	☐
147.10	147.40	0.30	GRD	0.30	100	W603058	☐	19-010	low grade		☐	☐	☐
147.10	147.40	0.30	GRD	0.30	100	W603059	☐	19-010	low grade		☐	☐	☑
147.40	147.83	0.43	GRD	0.31	72	W603060	☐	19-010	low grade		☐	☐	☐
147.83	148.83	1.00	GRD	1.00	100	W603061	☐	19-010	low grade		☐	☐	☐
148.83	149.78	0.95	GRD	0.94	99	W603062	☐	19-010	low grade		☐	☐	☐
149.78	150.79	1.01	GRD	1.00	99	W603063	☐	19-010	low grade		☐	☐	☐
150.79	151.80	1.01	GRD	1.00	99	W603065	☐	19-010	low grade		☐	☐	☐
151.80	153.33	1.53	GRD	1.52	99	W603066	☐	19-010	low grade		☐	☐	☐
153.33	154.19	0.86	GRD	0.85	99	W603067	☐	19-010	low grade		☐	☐	☐
154.19	154.83	0.64	VEN	0.60	94	W603068	☐	19-010	low grade		☐	☐	☐
154.83	155.42	0.59	VEN	0.58	98	W603069	☐	19-010	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
155.42	155.91	0.49	VEN	0.46	94	W603070	☐	19-006	High grade		☐	☐	☐
155.91	156.94	1.03	VEN	1.02	99	W603071	☐	19-010	low grade		☐	☐	☐
156.94	158.00	1.06	VEN	1.04	98	W603072	☐	19-010	low grade		☐	☐	☐
158.00	158.59	0.59	VEN	0.55	93	W603074	☐	19-010	low grade		☐	☐	☐
158.59	159.14	0.55	VEN	0.51	93	W603075	☐	19-010	low grade		☐	☐	☐
159.14	159.75	0.61	VEN	0.60	98	W603076	☐	19-010	low grade		☐	☐	☐
159.75	160.41	0.66	VEN	0.65	98	W603077	☐	19-010	low grade		☐	☐	☐
160.41	161.45	1.04	GRD	1.02	98	W603078	☐	19-010	low grade		☐	☐	☐
160.41	161.45	1.04	GRD	1.02	98	W603079	☐	19-010	low grade		☐	☑	☐
161.45	162.60	1.15	GRD	1.10	96	W603080	☐	19-010	low grade		☐	☐	☐
162.60	163.75	1.15	GRD	1.10	96	W603081	☐	19-010	low grade		☐	☐	☐
163.75	164.24	0.49	GRD	0.47	96	W603082	☐	19-014	low grade		☐	☐	☐
164.24	165.20	0.96	GRD	0.96	100	W603083	☐	19-014	low grade		☐	☐	☐
165.20	166.54	1.34	GRD	1.34	100	W603084	☐	19-014	low grade		☐	☐	☐
173.62	174.70	1.08	GRD	1.06	98	W603085	☐	19-014	low grade		☐	☐	☐
174.70	175.26	0.56	GRD	0.54	96	W603086	☐	19-014	low grade		☐	☐	☐
175.26	176.44	1.18	GRD	1.14	97	W603087	☐	19-014	low grade		☐	☐	☐
176.44	177.52	1.08	GRD	1.05	97	W603088	☐	19-014	low grade		☐	☐	☐
177.52	178.14	0.62	GRD	0.62	100	W603089	☐	19-014	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
177.52	178.14	0.62	GRD	0.62	100	W603090	☐	19-014	low grade		☐	☑	☐
178.14	179.75	1.61	GRD	1.55	96	W603091	☐	19-014	low grade		☐	☐	☐
179.75	180.15	0.40	GRD	0.40	100	W603092	☐	19-014	low grade		☐	☐	☐
180.15	181.12	0.97	GRD	0.97	100	W603093	☐	19-014	low grade		☐	☐	☐
181.12	182.55	1.43	GRD	1.39	97	W603094	☐	19-014	low grade		☐	☐	☐
182.55	183.70	1.15	GRD	1.12	97	W603095	☐	19-014	low grade		☐	☐	☐
183.70	184.37	0.67	GRD	0.65	97	W603096	☐	19-014	low grade		☐	☐	☐
184.37	185.27	0.90	GRD	0.90	100	W603098	☐	19-014	low grade		☐	☐	☐
185.27	185.77	0.50	GRD	0.50	100	W603099	☐	19-014	low grade		☐	☐	☐
185.77	187.13	1.36	GRD	1.36	100	W603100	☐	19-014	low grade		☐	☐	☐
187.13	188.33	1.20	GRD	1.04	87	W603101	☐	19-014	low grade		☐	☐	☐
188.33	189.34	1.01	GRD	1.01	100	W603102	☐	19-014	low grade		☐	☐	☐
189.34	190.39	1.05	GRD	1.03	98	W603104	☐	19-014	low grade		☐	☐	☐
190.39	190.78	0.39	GRD	0.38	97	W603105	☐	19-014	low grade		☐	☐	☐
190.78	191.43	0.65	GRD	0.64	98	W603106	☐	19-014	low grade		☐	☐	☐
191.43	192.42	0.99	GRD	0.98	99	W603107	☐	19-014	low grade		☐	☐	☐
192.42	193.33	0.91	GRD	0.91	100	W603108	☐	19-014	low grade		☐	☐	☐
192.42	193.33	0.91	GRD	0.91	100	W603109	☐	19-014	low grade		☐	☐	☑
193.33	193.82	0.49	GRD	0.45	92	W603110	☐	19-014	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
193.82	194.45	0.63	GRD	0.60	95	W603111	☐	19-014	low grade		☐	☐	☐
194.45	195.72	1.27	GRD, GRD	1.25	98	W603112	☐	19-014	low grade		☐	☐	☐
195.72	196.84	1.12	GRD	1.09	97	W603113	☐	19-014	low grade		☐	☐	☐
196.84	197.70	0.86	GRD	0.84	98	W603114	☐	19-014	low grade		☐	☐	☐
197.70	198.57	0.87	GRD	0.85	98	W603115	☐	19-014	low grade		☐	☐	☐
198.57	199.65	1.08	GRD	0.85	79	W603117	☐	19-014	low grade		☐	☐	☐
199.65	200.65	1.00	GRD	1.00	100	W603118	☐	19-014	low grade		☐	☐	☐
200.65	201.54	0.89	GRD	0.88	99	W603119	☐	19-014	low grade		☐	☐	☐
201.54	201.83	0.29	GRD	0.29	100	W603120	☐	19-014	low grade		☐	☐	☐
201.83	202.81	0.98	GRD	0.98	100	W603121	☐	19-014	low grade		☐	☐	☐
202.81	204.26	1.45	GRD	1.44	99	W603122	☐	19-015	low grade		☐	☐	☐
208.88	210.13	1.25	GRD	1.25	100	W603123	☐	19-015	low grade		☐	☐	☐
215.34	216.05	0.71	GRD	0.71	100	W603124	☐	19-015	low grade		☐	☐	☐
226.20	227.17	0.97	GRD	0.96	99	W603125	☐	19-015	low grade		☐	☐	☐
227.17	228.17	1.00	GRD	1.00	100	W603127	☐	19-015	low grade		☐	☐	☐
228.17	228.61	0.44	GRD	0.44	100	W599153	☐	19-006	High grade		☐	☐	☐
228.61	229.65	1.04	GRD	1.03	99	W603128	☐	19-015	low grade		☐	☐	☐
229.65	230.12	0.47	GRD	0.46	98	W603129	☐	19-015	low grade		☐	☐	☐
230.12	231.12	1.00	GRD, GRD	1.00	100	W603130	☐	19-015	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
231.12	232.24	1.12	GRD	1.10	98	W603131	☐	19-015	low grade		☐	☐	☐
232.24	233.17	0.93	GRD	0.91	98	W603132	☐	19-015	low grade		☐	☐	☐
233.17	234.25	1.08	GRD	1.05	97	W603133	☐	19-015	low grade		☐	☐	☐
233.17	234.25	1.08	GRD	1.05	97	W603134	☐	19-015	low grade		☐	☑	☐
234.25	235.40	1.15	GRD	1.12	97	W603135	☐	19-015	low grade		☐	☐	☐
235.40	236.15	0.75	GRD	0.71	95	W603136	☐	19-015	low grade		☐	☐	☐
236.15	236.41	0.26	GRD	0.26	100	W603137	☐	19-015	low grade		☐	☐	☐
236.41	237.41	1.00	GRD	1.00	100	W603138	☐	19-015	low grade		☐	☐	☐
237.41	238.88	1.47	GRD	1.35	92	W603139	☐	19-015	low grade		☐	☐	☐
238.88	239.69	0.81	GRD	0.80	99	W603140	☐	19-015	low grade		☐	☐	☐
238.88	239.69	0.81	GRD	0.80	99	W603141	☐	19-015	low grade		☐	☐	☑
239.69	240.69	1.00	GRD	0.95	95	W603142	☐	19-015	low grade		☐	☐	☐
240.69	241.69	1.00	GRD	1.00	100	W603143	☐	19-015	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-010	W603046	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	std ME 6
19-010	W603064	0.00	0.00	1.65	1110	☐	☐	☐	☑ KL-STD6	std kl 6
19-010	W603073	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-014	W603097	0.00	0.00	0.26	600	☐	☐	☐	☑ ME-6	STD CDN ME 6
19-014	W603103	0.00	0.00	1.70	100	☐	☐	☐	☑ KL-STD6	STD KL 6
19-014	W603116	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-004	W603008	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-004	W603021	0.00	0.00	1.74	130	☐	☐	☐	☑ KL-STD6	std kl 6
19-004	W603026	0.00	0.00	0.31	340	☐	☐	☐	☑ ME-6	std ME 6
19-015	W603126	0.00	0.00	1.67	1210	☐	☐	☐	☑ KL-STD6	std kl6
19-004	W603001	23.31	23.87	0.01	1280	☐	☐	☐	☐	
19-004	W603002	23.87	24.32	0.15	1240	☐	☐	☐	☐	
19-004	W603003	24.32	24.82	0.00	5590	☐	☐	☐	☐	
19-004	W603004	24.82	26.06	0.00	3800	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-004	W603005	26.06	27.25	0.00	2660	☐	☐	☐	☐	
19-004	W603006	27.25	28.00	0.00	2680	☐	☐	☐	☐	
19-004	W603007	28.00	28.67	0.00	2490	☐	☐	☐	☐	
		28.67	63.34			☐	☐	☐	☐	
19-004	W603009	63.34	64.00	0.01	1910	☐	☐	☐	☐	
19-004	W603010	64.00	64.64	0.03	1350	☐	☐	☐	☐	
19-004	W603011	64.64	65.77	0.00	2270	☐	☐	☐	☐	
		65.77	95.67			☐	☐	☐	☐	
19-004	W603012	95.67	96.67	0.00	2100	☐	☐	☐	☐	
19-004	W603013	96.67	96.97	1.30	240	☐	☐	☐	☐	
19-004	W603014	96.97	97.97	0.00	540	☐	☐	☐	☐	
19-004	W603015	96.97	97.97	0.00	540	☑	☐	☐	☐	1/4 dup
19-004	W603016	97.97	98.27	2.15	70	☐	☐	☐	☐	
19-004	W603017	98.27	99.53	0.01	2160	☐	☐	☐	☐	
19-004	W603018	99.53	100.63	0.01	940	☐	☐	☐	☐	
19-004	W603019	100.63	100.95	0.00	1380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-004	W603020	100.95	102.00	0.00	1360	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-004	W603022	104.70	105.65	0.02	2000	☐	☐	☐	☐	
19-004	W603023	105.65	105.97	0.02	740	☐	☐	☐	☐	
19-004	W603024	105.97	106.75	0.00	2670	☐	☐	☐	☐	
19-004	W603025	106.75	107.77	0.00	2840	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-004	W603027	113.41	114.41	0.01	2630	☐	☐	☐	☐	
19-004	W603028	114.41	114.75	0.21	230	☐	☐	☐	☐	
19-004	W603029	114.41	114.75	0.17	230	☐	☑	☐	☐	coarse reject
19-004	W603030	114.75	115.75	0.00	1690	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-004	W603031	123.00	124.00	0.01	1920	☐	☐	☐	☐	
19-004	W603032	124.00	125.00	0.13	810	☐	☐	☐	☐	
19-004	W603033	125.00	125.60	1.45	140	☐	☐	☐	☐	
19-004	W603034	125.60	125.95	0.13	630	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-004	W603035	125.95	126.49	0.10	220	☐	☐	☐	☐	
19-004	W603036	126.49	126.80	0.09	200	☐	☐	☐	☐	
19-004	W603037	126.80	127.57	0.12	250	☐	☐	☐	☐	
19-004	W603038	127.57	128.11	0.22	150	☐	☐	☐	☐	
19-004	W603039	128.11	128.56	0.26	220	☐	☐	☐	☐	
19-004	W603040	128.56	129.22	0.17	320	☐	☐	☐	☐	
19-010	W603041	129.22	129.54	0.44	660	☐	☐	☐	☐	
19-010	W603042	129.54	130.30	0.13	930	☐	☐	☐	☐	
19-010	W603043	130.30	130.64	0.15	570	☐	☐	☐	☐	
19-010	W603044	130.64	131.64	0.04	2300	☐	☐	☐	☐	
19-010	W603045	131.64	132.49	0.00	2770	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-010	W603047	138.15	139.15	0.00	1950	☐	☐	☐	☐	
19-010	W603048	139.15	140.22	0.01	870	☐	☐	☐	☐	
19-010	W603049	140.22	140.56	0.03	990	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-010	W603050	140.56	141.56	0.00	3070	☐	☐	☐	☐	
19-010	W603051	141.56	142.61	0.00	2240	☐	☐	☐	☐	
19-010	W603052	142.61	143.40	0.00	2240	☐	☐	☐	☐	
19-010	W603053	143.40	144.40	0.00	2190	☐	☐	☐	☐	
19-010	W603054	144.40	145.40	0.00	2440	☐	☐	☐	☐	
19-010	W603055	145.40	145.70	0.06	1630	☐	☐	☐	☐	
19-010	W603056	145.70	146.22	0.01	4230	☐	☐	☐	☐	
19-010	W603057	146.22	147.10	0.00	1180	☐	☐	☐	☐	
19-010	W603058	147.10	147.40	0.07	1570	☐	☐	☐	☐	
19-010	W603059	147.10	147.40	0.06	3640	☐	☑	☐	☐	coarse reject
19-010	W603060	147.40	147.83	0.14	640	☐	☐	☐	☐	
19-010	W603061	147.83	148.83	0.02	2030	☐	☐	☐	☐	
19-010	W603062	148.83	149.78	0.03	1680	☐	☐	☐	☐	
19-010	W603063	149.78	150.79	0.00	2600	☐	☐	☐	☐	
19-010	W603065	150.79	151.80	0.02	2380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-010	W603066	151.80	153.33	0.00	1730	☐	☐	☐	☐	
19-010	W603067	153.33	154.19	0.15	1170	☐	☐	☐	☐	
19-010	W603068	154.19	154.83	0.10	850	☐	☐	☐	☐	
19-010	W603069	154.83	155.42	0.28	410	☐	☐	☐	☐	
19-006	W603070	155.42	155.91	0.31	1910	☐	☐	☐	☐	
19-010	W603071	155.91	156.94	0.01	2340	☐	☐	☐	☐	
19-010	W603072	156.94	158.00	0.02	1100	☐	☐	☐	☐	
19-010	W603074	158.00	158.59	0.55	910	☐	☐	☐	☐	
19-010	W603075	158.59	159.14	1.37	290	☐	☐	☐	☐	
19-010	W603076	159.14	159.75	1.54	230	☐	☐	☐	☐	
19-010	W603077	159.75	160.41	0.01	1660	☐	☐	☐	☐	
19-010	W603078	160.41	161.45	0.00	2170	☐	☐	☐	☐	
19-010	W603079	160.41	161.45	0.00	2100	☑	☐	☐	☐	1/4 dup
19-010	W603080	161.45	162.60	0.00	2030	☐	☐	☐	☐	
19-010	W603081	162.60	163.75	0.14	1960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-014	W603082	163.75	164.24	0.00	1630	☐	☐	☐	☐	
19-014	W603083	164.24	165.20	0.00	2340	☐	☐	☐	☐	
19-014	W603084	165.20	166.54	0.00	2320	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-014	W603085	173.62	174.70	0.00	2240	☐	☐	☐	☐	
19-014	W603086	174.70	175.26	0.06	1550	☐	☐	☐	☐	
19-014	W603087	175.26	176.44	0.00	1950	☐	☐	☐	☐	
19-014	W603088	176.44	177.52	0.00	1790	☐	☐	☐	☐	
19-014	W603089	177.52	178.14	0.00	900	☐	☐	☐	☐	
19-014	W603090	177.52	178.14	0.00	990	☑	☐	☐	☐	1/4 DUP
19-014	W603091	178.14	179.75	0.00	1320	☐	☐	☐	☐	
19-014	W603092	179.75	180.15	0.24	1160	☐	☐	☐	☐	
19-014	W603093	180.15	181.12	0.00	1710	☐	☐	☐	☐	
19-014	W603094	181.12	182.55	0.00	1870	☐	☐	☐	☐	
19-014	W603095	182.55	183.70	0.00	2010	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-014	W603096	183.70	184.37	0.22	560	☐	☐	☐	☐	
19-014	W603098	184.37	185.27	0.00	1470	☐	☐	☐	☐	
19-014	W603099	185.27	185.77	0.35	2060	☐	☐	☐	☐	
19-014	W603100	185.77	187.13	0.00	2170	☐	☐	☐	☐	
19-014	W603101	187.13	188.33	0.00	2450	☐	☐	☐	☐	
19-014	W603102	188.33	189.34	0.01	2310	☐	☐	☐	☐	
19-014	W603104	189.34	190.39	0.00	2520	☐	☐	☐	☐	
19-014	W603105	190.39	190.78	0.00	1470	☐	☐	☐	☐	
19-014	W603106	190.78	191.43	0.04	1110	☐	☐	☐	☐	
19-014	W603107	191.43	192.42	0.02	1600	☐	☐	☐	☐	
19-014	W603108	192.42	193.33	1.81	400	☐	☐	☐	☐	
19-014	W603109	192.42	193.33	1.83	210	☐	☑	☐	☐	CIARSE REJECT
19-014	W603110	193.33	193.82	0.49	470	☐	☐	☐	☐	
19-014	W603111	193.82	194.45	1.60	190	☐	☐	☐	☐	
19-014	W603112	194.45	195.72	0.01	1130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-014	W603113	195.72	196.84	0.73	440	☐	☐	☐	☐	
19-014	W603114	196.84	197.70	1.77	340	☐	☐	☐	☐	
19-014	W603115	197.70	198.57	0.77	320	☐	☐	☐	☐	
19-014	W603117	198.57	199.65	0.01	1350	☐	☐	☐	☐	
19-014	W603118	199.65	200.65	0.01	1780	☐	☐	☐	☐	
19-014	W603119	200.65	201.54	0.01	2620	☐	☐	☐	☐	
19-014	W603120	201.54	201.83	0.37	250	☐	☐	☐	☐	
19-014	W603121	201.83	202.81	0.02	1740	☐	☐	☐	☐	
19-015	W603122	202.81	204.26	0.01	2010	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-015	W603123	208.88	210.13	0.00	1180	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-015	W603124	215.34	216.05	0.01	4200	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-015	W603125	226.20	227.17	0.00	4910	☐	☐	☐	☐	
19-015	W603127	227.17	228.17	0.02	1840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-006	W599153	228.17	228.61	4.27	280	☐	☐	☐	☐	
19-015	W603128	228.61	229.65	0.42	2150	☐	☐	☐	☐	
19-015	W603129	229.65	230.12	0.01	1430	☐	☐	☐	☐	
19-015	W603130	230.12	231.12	0.00	2690	☐	☐	☐	☐	
19-015	W603131	231.12	232.24	0.00	3040	☐	☐	☐	☐	
19-015	W603132	232.24	233.17	0.03	1860	☐	☐	☐	☐	
19-015	W603133	233.17	234.25	0.00	2320	☐	☐	☐	☐	
19-015	W603134	233.17	234.25	0.00	2330	☑	☐	☐	☐	1/4 dup
19-015	W603135	234.25	235.40	0.01	990	☐	☐	☐	☐	
19-015	W603136	235.40	236.15	0.01	1090	☐	☐	☐	☐	
19-015	W603137	236.15	236.41	2.28	1200	☐	☐	☐	☐	
19-015	W603138	236.41	237.41	0.04	3940	☐	☐	☐	☐	
19-015	W603139	237.41	238.88	0.07	2400	☐	☐	☐	☐	
19-015	W603140	238.88	239.69	1.14	700	☐	☐	☐	☐	
19-015	W603141	238.88	239.69	1.11	540	☐	☑	☐	☐	coarse dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-015	W603142	239.69	240.69	0.02	2250	☐	☐	☐	☐	
19-015	W603143	240.69	241.69	0.00	3240	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
81.70	82.04	DY	37	30	0	1	pink/reddish, fine grained aplite dyke intrusion in GND			
83.60	83.75	DY	37	25	0	1	3 cm aplite dyke intrusion in GND			
84.21	84.28	DY	37	30	0	1	1 cm aplite dyke intrusion in GND			
85.14	85.30	DY	37	20	0	1	1 cm, grey, fine grained, dyke intrusion in granodiorite			
86.76	86.86	DY	37	30	NUL	1	2 cm aplite dyke intrusion in GND			
87.30	87.40	DY	37	30	0	1	2 cm aplite dyke intrusion			
88.78	88.82	VN	37	45	0	1	3 mm quartz vein and disseminated pyrite surrounding quartz vein.			
								Py	2	DI
89.44	89.47	DY	37	55	0	1	1 cm aplite dyke intrusion in altered granodiorite			
92.16	92.20	VN	37	40	0	1	3 mm, pyrite bearing smoky quartz vein			
								Py	2	DI
96.80	96.91	VN	37	45	0	3	smoky quartz, coloform carbonitic veins containing blebby and disseminated pyrite			
								Py	5	DI
								Py	5	BL
96.95	96.98	BX	34	40	0	1	brecciated gougy proximal to GND-dyke contact			
100.60	100.90	VN	37	45	0	5	0.5-1 cm smoky, clear quartz successive veins containing trace disseminated pyrite			
								Py	2	DI
102.34	102.36	VN	37	45	0	1	brecciated dyke zone at the contact with altered granodiorite unit			
104.50	104.55	GO	34	0	0	1	brecciated gouge interval in argillic altered granodiorite unit			
106.38	106.00	FT	42	0	0	1	altered granodiorite exhibiting fault brecciation and soft in gougy interval. (Faulting near contact with quartz feldspar porphyry dyke inclusion (?)			
108.39	108.42	DY	37	85	0	1	1.5 cm, pink aplite dyke intrusion in GND			
109.30	109.44	VN	37	25	0	1	3 mm, quartz/ carbonitic vein in altered GND			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
109.70	109.79	DY	37	20	0	1	0.5 cm pink aplite dyke intrusion in GND			
110.80	111.00	DY	37	15	0	1	1 cm pink dyke intrusion in altered gnd			
112.17	113.31	VN	37	30	0	3	2 mm smoky quartz veins in altered GND			
114.40	114.60	VB	37	45	0	2	24 mm sized stringer pyrite bearing quartz veins and vein brecciation in altered granodiorite. Interval is soft and fractured. Brecciating vein is vuggy and appears to be coloform band with carbonitic overprint.			
								Py	2	DI
125.00	125.60	VB	37	35	0	1	Quartz vein zone brecciating altered granodiorite. Veins contains quartz and ankerite, possibly rhodochrosite (pinkish) infilling interstitially within quartz breccia zone. Disseminated and blebby pyrite is locally observed within vein zone			
								Py	5	BL
								Py	10	DI
125.60	126.00	FT	42	0	0	1	soft, gouged and brecciated section of altered granodiorite. Faut brecciation (?)			
126.30	126.45	VN	37	15	0	1	mineralized vein zone in grd			
								Py	5	DI
127.00	128.00	FT	42	0	0	1	interval of faut brecciated and gouged GND. GND is sericitized and contains fine disseminated pyrite. Carbonitic veinlets appear to infill gracture surfaces and crosscut brecciated clasts.			
								Cb	2	PA
								Se	30	AN
								Ak	2	IN
								Py	5	DI
128.08	128.24	SH	81	20	0	1	sheared, fine grained, gouged and brecciated, pyrite-bearing veins in fault breccia GND			
								Py	5	DI
128.24	130.61	FT	42	0	0	1	gougy, fault brecciated inteval of granodiorite exhibitin shear fabric along fracture planes and in locally observed veins. Disseminated and blebby pyrite is locally observed in interval within host rock and predominantly in and around quartz veins. Honey brown and possibly zoned sphalerite is locall observed in quartz vein @ 128.75			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Se	5	AN
								Ak	2	IN
								Py	5	BL
								Qz	5	IN
								Py	5	DI
135.00	135.04	VN	37	65	0	1	pinkinsh, rhodochroite and quartz colorform band in altered gnd			
								Qz	5	BN
								Rh	2	BN
140.00	140.55	FT	42	0	0	1	highy fractured, gougy and brecciated section of GND (possible small fault or fault related(?). Disseminated and cubic pyrite is locally observed in soft gougy seams along with sericite			
								Se	5	DI
								Py	5	DI
140.55	140.65	VN	37	10	0	1	4 mm quartz vein in altered GND			
144.00	144.10	DY	37	14	0	1	4 mm pinkish aplite dyke intrusion in altered GND			
144.66	144.78	VN	37	20	0	1	1 cm quartz carbonitic veini containing trace disseminated pyrite. Minor brecciation is observed in vein interval where quartz veinlet appears to microbrecciate host rock			
								Py	2	DI
								Qz	5	IN
								Cb	5	IN
145.20	145.70	VB	37	30	0	1	gougy, brecciated, pyrite bearing , quartz breccia vein containing trace carbonitic infill (calcite and minor ankerite(?)) zone is rubbly and poible weakly sheared (?) (30 degrees TCA). Disseminated pyrite is observed in dark grey, fine grained clasts (smoky quartz (?)			
								Py	5	DI
								Qz	5	---
147.10	176.46	BX	34	40	0	1	gougy, possible shear brecciation and interstitial quartz observed.Trace disseminated pyrite is locally observed in interval.			
								Py	2	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
147.57	147.64	VN	37	45	0	1	4 cm ankerite vein containing thin mm smokey quartz bands and 1 cm, clear quartz inclusion (parallel TCA) crosscuts through ankerite veins. Disseminated pyrite is locally observed within interval.			
								Ak	5	BN
								Qz	3	IN
								Py	5	DI
149.45	149.70	BX	34	40	0	1	gouged brecciated section containing 4 mm, pyrite bearing, smoky quartz vein that are offset by minor 1-2 mm clear quartz veinlets			
								Py	5	DI
								Qz	5	IN
154.51	154.56	VN	37	40	0	1	offset ankerite/qtz pyrite vein offset by carbonitic infill fractures in grd			
155.45	155.88	VN	37	45	0	3	mineralized vein zone in brecciated, gouged grd			
								Py	10	DI
								Gn	3	EU
								As	3	IN
								Py	5	BL
158.03	158.15	VN	37	65	0	3	qtz veins in mineralized gouged, brecciated grd interval			
158.80	158.95	VN	37	55	0	3	mineralized vein zone in grd			
								Gn	3	IN
								As	2	IN
								Py	5	DI
								Py	10	BL
159.60	159.67	VN	37	55	0	3	mineralized vein zone in altered grd.			
								As	2	IN
								Py	10	BL
								Gn	3	EU
								Py	5	BA
163.97	164.00	VN	37	65	0	2	quartz/ ankerite veins in grd			
177.70	177.76	VN	37	40	0	1	quartz vein in grd			
179.75	180.00	BX	34	65	0	1	pyrite bearing qtz veins in brecciated grd			
185.33	185.43	VN	37	45	0	1	pyrite bearing qtz vein in altered grd			
193.30	193.33	VN	37	75	0	1	mineralized veins at faulted contact with mafic dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
201.64	201.67	DY	37	55	0	1	aplite dyke in grd			
201.67	201.64	VN	37	55	0	4	quartz and carbonitic infill mineralized veins in altered grd			
								Gn	2	BL
								Rh	5	IN
								Py	5	DI
203.16	203.27	DY	37	50	0	1	5 cm aplite dye intrusion in altered grd			
222.00	222.20	SH	81	15	0	1	shear fabric in brecciated grd			
222.80	222.85	VN	37	45	0	1	qtz vein in grd			
228.20	228.45	VN	37	50	0	4	mineralized vein zone in altered grd. Pyrite, arsenopyrite, sphalerite, galena and interstitial rhodochrosite and ankerite are locally observed in mineralized interval			
235.60	235.75	DY	37	65	0	1	5 cm aplite dyke intrusion in grd			
236.30	236.40	VN	37	55	0	4	mineralized vein zone in altered grd. Pyrite, arsonopyrite, galena, sphalerite occur in vein section. Ankerite appears to infill and replace mineralized vein.			
238.85	238.90	VN	37	70	0	1	1 cm vein containinc blebby pyrite, minor arsenopyrite galena and sphalerite.			
239.64	239.67	VN	37	45	0	1	2 cm, mineralized vein in altered grd.			
								Sp	5	BL
								Py	10	BL
								Gn	3	IN
								As	8	IN
241.61	241.66	VN	37	25	0	2	pyrite bearing quartz veins with surrounding hematite			
253.15	253.30	VN	37	20	0	2	pyrite bearing qtz veins in brecciated grd			
255.00	255.35	VN	37	20	0	3	1-2 mm unmineralized quartz vein in grd.			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382909	6889201	1461.672	126.49

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-437

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 06 - Sep 07, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
6	34.26	-49.6	Reflex
126	38.16	-49.3	Reflex

TARGET: resource infill drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.2	1.2	CAS
1.2	2.4	1.2	OVB
2.4	26.6	24.2	GRD
26.6	29.87	3.27	QFP
29.87	31.07	1.2	VEN
31.07	33.12	2.05	FLR
33.12	33.74	0.62	VEN
33.74	37.27	3.53	QFP
37.27	37.36	0.09	VEN
37.36	45.06	7.7	GRD
45.06	46.14	1.08	VEN
46.14	76	29.86	GRD
76	88.39	12.39	GRD
88.39	91.59	3.2	GRD
91.59	93.53	1.94	GRD
93.53	103.89	10.36	GRD

SAMPLES	
Numbers:	W603876 to W604016
Total:	141
Batch:	001, 003, 005, 007, 008, 009
Certificates:	WH19231869, WH19231876, WH19231881, WH19231885, WH19233877, WH19233885, WH19271635, WH19271648

COMMENTS

103.89	106.3	2.41	GRD
106.3	107.41	1.11	GRD
107.41	112.7	5.29	GRD
112.7	112.9	0.2	APL
112.9	113.77	0.87	GRD
113.77	119.88	6.11	GRD
119.88	123.35	3.47	GRD
123.35	126.49	3.14	GRD

Box Log

KL -19-437

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.2	4.51
2	4.51	8.06
3	8.06	11.15
4	11.15	14.83
5	14.83	18.29
6	18.29	22.01
7	22.01	25.39
8	25.39	29.3
9	29.3	34
10	34	36.81
11	36.81	40.54
12	40.54	44
13	44	48.28
14	48.28	52.4
15	52.4	56.67
16	56.67	60.5
17	60.5	64.84
18	64.84	69.08
19	69.08	73.15
20	73.15	77.32
21	77.32	81.81
22	81.81	86.07
23	86.07	90.73
24	90.73	94.64
25	94.64	98.96
26	98.96	103.12
27	103.12	107.38
28	107.38	111.66
29	111.66	115.6
30	115.6	120.06
31	120.06	124.44
32	124.44	126.49

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-437									
	28.48	18	NTW	QFP	1158.2	742.4	2.28	2.8	
	30.95	13	NTW	VEN	1159.8	778	3.16	3.0	
	33.4	17	NTW	VEN	912.9	601	1.9	2.9	
	66.48	13	NTW	GRD	956	619.1	2.6	2.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	CAS	--	casing							
1.20	2.40	1.20	OVB	--	ovb							
2.40	7.21	4.81	GRD	MG	Relatively unaltered granodiorite with minor local argillic and propylitic alteration zones (i.e. 5 m, feldspathic clast swelling and occasional chlorite clasts are locally observed) exhibiting moderate brownish/reddish oxidation in fractures, joint surfaces and within granodiorite host rock. Mm-sized tourmaline crystals are observed from 4.60-5 m hosted within granodiorite. Minor mm- oxidized quartz veins are locally observed. Trace disseminated pyrite located within veinlets and sometimes within host rock are seen in interval.							
7.21	14.25	7.04	GRD	MG	Moderately- oxidized granodiorite interval exhibiting weak propylitic and trace phyllic alteration (?) (rock is greenish contains chlorite clasts, 2-4 mm quartz clasts and trace disseminated pyrite). Sub-mm tourmaline clasts are commonly observed within granodiorite. Minor mm-sized, oxidized veinlets sporadically containing disseminated pyrite are locally observed.							
14.25	15.86	1.61	GRD	MG	Moderately oxidized, fractured, interval of unaltered granodiorite exhibiting trace to minor propylitic alteration locally (minor chlorite clasts observed).							
15.86	21.18	5.32	GRD	MG	Pervasively oxidized granodiorite interval exhibiting weak phyllic alteration overprinting trace argillic alteration sections (quartz clasts observed, muscovite (sericite(?) basal cleavage crystals observed, weakly silicified). Pyrite bearing ,mm-sized, quartz veins are locally observed in interval as well as trace disseminated pyrite in GND. Carbonitic veinlets (likely calcite; moderately reactive to HCL) located near pyrite bearing quartz are present in interval. Rubbly zone observed from 18.40-18.80m							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.18	26.60	5.42	GRD	MG	Highly fractured, moderately oxidized granodiorite unit exhibiting weak-moderate phyllic alteration (phyllic alteration halo) overprinting trace argillic and propylitic alteration (clay rich, swelled up feldspathic clasts and feldspathic clasts surrounding chlorite crystals are sometimes observed). A rubbly, oxidized section occurs at 21.34-22.01m. Phyllic alteration becomes more prominent proximal to feldspathic dyke contact). Phyllic alteration zones contain quartz clasts, appear weakly to moderately silicified, contain basal-cleavage muscovite crystals and mm-sized pyrite blebs within smoky quartz veins. A gougy, clay rich, brecciated seam is present right at the contact between granodiorite and quartz feldspar porphyry dyke (faulted contact(?)). Quartz vein @ 26.50 brecciates host granodiorite unit.							
26.60	29.02	2.42	GRD	MG	Medium grey/greenish , fine grained quartz feldspar porphyry dyke (quartz clasts locally observed but feldspathic clasts are much more abundant) containing trace chlorite clasts within some feldspar clasts. Trace mm-sized quartz veinlets containing dendritic magnetite are locally observed.							
29.02	29.87	0.85	GRD	MG	Brown/reddish, fine grained, oxidized quartz feldspar porphyry dyke exhibiting brecciation and rubbly zones proximal to contact between dyke and vein contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
29.87	31.07	1.20	VEN	MG	quartz/pyrite vein zone contained within soft, brecciated medium grey/ greenish, granodiorite host exhibiting weak propylitic and phyllic alteration (i.e. 30.29; chlorite clasts, quartz, muscovite (?) crystal and trace fine grained disseminated pyrite is locally observed in host rock. Proximal to vein zone, dyke is brecciated and rubbly (faulted contact(?). Vein zone appears to be brecciated by milky quartz veins and contain mm-sized pyrite blebs and pyritic disseminations. Some vuggy quartz veinlets are also observed within vein zone . Black fine grained, smoky quartz is present at 30.90 and is brecciated by milky quartz. Fracture surfaces along vein zone are moderately oxidized							
31.07	33.12	2.05	FLR	MG	light to medium grey, fractured, quartz feldspar porphyry dyke interval which is brecciated and gougy proximal to previous vein zone (faulted vein zone footwall (?)). Minor oxidation is observed along fractures and joint surfaces.							
33.12	33.74	0.62	VEN	MG	Pyrite bearing, milky and smoky quartz, brecciated vein zone included into quartz feldspar porphyry dyke. Disseminated pyrite is locally observed near and within smoky quartz veinlets. Brecciated zones appear gouged near the vein boundary.							
33.74	34.77	1.03	GRD	MG	Light/medium grey, fine grained, brecciated quartz feldspar porphyry dyke interval . Brecciated sections are soft and gougy.							
34.77	36.48	1.71	GRD	MG	Light-medium grey, locally oxidized, fine grained, quartz feldspar porphyry dyke. Trace chlorite clasts are locally observed within dyke interval. 1-2 cm, irregular, dark, fine grained , pyrite-bearing clasts are observed within oxidized dyke interval (i.e. 36.30m onwards).							
36.48	37.27	0.79	GRD	MG	Light-medium grey, brecciated interval of quartz feldspar porphyry. Brecciated sections are soft and gougy and appear more oxidized proximal to vein contact. Ankerite veins appear to brecciated clasts in dyke (i.e. 36.83m). Trace disseminated pyrite is locally observed in interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.27	37.36	0.09	VEN	FG	Medium-dark grey, vein zone within granodiorite unit disseminated pyrite is locally observed in vein section. Minor oxidation is present along fracture surfaces.							
37.36	38.71	1.35	GRD	MG	Granodiorite unit exhibiting weak alteration overprinting trace propylitic and phyllic alteration (?) alteration (chlorite clasts occur within interval). Mm-sized, pyrite bearing smoky quartz veinlets occur in interval. Interval is moderately oxidized							
38.71	41.90	3.19	GRD	MG	Moderately oxidized, highly fractured, Argillic and weakly phyllic altered granodiorite unit . Pyrite bearing, smoky and milky quartz veinlets are locally observed in interval. Trace disseminated pyrite is also observed within granodiorite unit (trace phyllic alteration (?). Chlorite clasts are commonly occurring in granodiorite interval (weak propylitic alteration(?)).							
41.90	45.06	3.16	GRD	MG	Light green/beige granodiorite unit exhibiting weak to moderate phyllic alteration overprinting minor propylitic alteration (interval is moderately silicified, contains fine grained disseminated pyrite and trace muscovite crystals are locally observed. Mm-sized quartz veinlets locally brecciate host granodiorite.mm-sized pyrite blebs within quartz are surrounded by tourmaline at 43.80m. Oxidation is observed around quartz veinlets, fractures and joint surfaces.							
45.06	46.14	1.08	VEN	MG	Light green, tan , granodiorite unit exhibiting weak phyllic alteration overprinting trace argillic alteration (sporadic swelled up feldspathic clasts overprinted by silicified, quartz and muscovite bearing granodiorite) Intermittent chlorite clasts are locally observed in interval. Interval contains mm-sized, pyrite bearing, stringer quartz veins that are moderately oxidized on surface. Stringer veins are ~ 50 O TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
46.14	47.20	1.06	GRD	MG	Weakly to moderately oxidized granodiorite with weak phyllic alteration overprinting local sections of propylitic alteration. Chlorite clasts are commonly occurring in interval. Blebby pyrite and euhedral, cubic pyrite crystals are locally observed within mm-sized quartz veinets and along fracture surfaces (i.e. 46.90m).							
47.20	48.96	1.76	GRD	MG	Light green/tan , granodiorite interval exhibiting weak to moderate phyllic alteration (disseminated and blebby pyrite, weakly to moderately silicified, muscovite crystals locally observed) overprinting weak argillic alteration (note: overprinted argillic alteration appears more prominent compared to previous interval). Tourmaline crystals located near 2-cm (15-20 O TCA) quartz vein is local is present @ 47.82m . Red/brownish , mm-sized sphalerite crystals are locally observed at 48.56m. a 2 cm vuggy quartz vein occurs at 48.33 and contain prismatic quartz crystals along fracture surface.							
48.96	50.73	1.77	GRD	MG	Light green/tan granodiorite exhibiting weak phyllic alteration , propylitic and argillic alteration. Argillic and propylitic alteration appears more prominent compared to previous interval. mm-sized disseminated and blebby pyrite is locally observed in interval. Chlorite clasts are also present throughout unit. Tourmaline crystals are present @ 49m. @ 49.96 a 1-2 cm coloform quartz/cabonitic vein is locally observed (carbonate is likely ankerite and calcite (tan coloured)). Coloform veins appear vuggy, with vugs containing prismatic quartz crystals. Coloform vein brecciates host altered granodiorite unit.							
50.73	51.23	0.50	GRD	MG	Unaltered granodiorite interval containing trace chlorite clasts and trace disseminated pyrite in host rock. Mm-sized, pyrite bearing smoky quartz veinlets appear to crosscut mm-sized milky quartz veins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.23	54.71	3.48	GRD	MG	Light green/tan granodiorite unit with weak to moderate phyllic alteration (disseminated pyrite, increased quartz clasts, weakly to moderately silicified granodiorite and basal cleavage, muscovite (?) crystals are locally observed in interval) overprinting weak argillic and propylitic alteration (swelled up feldspathic clasts locally observed as well as chloritized crystals).Mm-sized quartz and smoky quartz veins containing blebby and disseminated pyrite are locally observed throughout unit with some smoky quartz veins crosscutting milky quartz ones (i.e. 54.25m). sub-mm, carbonitic veinlets appear to offset and crosscut pyrite-bearing quartz veins locally.							
54.71	58.14	3.43	GRD	MG	Predominantly unaltered granodiorite interval with patchy zones of weakly phyllic, argillic and propylitic alteration (i.e. 57.60m; chlorite clasts present, muscovite crystals, quartz clasts and trace swelling of feldspathic clasts). A 2 cm, reddish/pink, fine grained aplite dyke intrusion is present at 57.45m. sub-mm, fine grained smoky quartz veinlets are locally observed in unaltered section of granodiorite. (Trace basal cleavage soft crystals are sporadically observed in interval (very weak phyllic alteration remnant(?)).							
58.14	59.23	1.09	GRD	MG	Light grey/ light green, tan interval of granodiorite exhibiting weak to moderate phyllic, weak argillic and propylitic alteration. (chlorite clasts observed, locally silicified zones, muscovite or sericite (?)crystals (soft, basal cleavage crystals)). Blebby and disseminated pyrite is contained within mm-4 cm smoky quartz veins (i.e. 58.92m). Well-developed cubic pyrite crystals are commonly observed along fracture surfaces along veins. Largest pyrite bearing vein is ~ 75 degrees TCA). Sporadic mm-sized ankerite is present within pyrite bearing quartz veins.							
59.23	59.82	0.59	GRD	MG	Interval of unaltered granodiorite containing trace chlorite clasts, and sporadic fine grained disseminated pyrite. Fine grained pyrite is locally observed in sub-mm , dark, fine grained smoky quartz veinlets							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
59.82	60.33	0.51	GRD	MG	Light green/ tan/ light grey granodiorite with weak phyllic, trace argillic and propylitic alteration. Disseminated and mm-sized pyrite blebs are locally observed within host rock							
60.33	61.91	1.58	GRD	MG	Interval of unaltered granodiorite with trace chlorite clasts and fine grained disseminated pyrite.							
61.91	64.00	2.09	GRD	MG	Granodiorite exhibiting weak phyllic, weak argillic, and trace propylitic alteration. Granodiorite is moderately oxidized and contains mm-sized disseminated and blebby pyrite in host rock and within smoky quartz veins. @ 62.64m a 2 cm quartz/carbonitic vein containing mm-sized cubic pyrite crystals and mm-sized sphalerite crystals is locally observed. Vein appears gougy and micro brecciated. Gougy brecciated seams are observed @ 63.36m as well.							
64.00	66.22	2.22	GRD	MG	Granodiorite interval exhibiting alternating zones of weakly phyllic, argillic and trace propylitic alteration. Mm-sized, pyrite bearing quartz veins are locally observed in interval. Trace, quartz veins appear to microbrecciate granodiorite host.							
66.22	68.14	1.92	GRD	MG	Interval of relatively unaltered granodiorite containing mm-sized, pyrite veins and sporadic 1 cm reddish/pink, fine grained aplite dyke intrusions.							
68.14	68.70	0.56	GRD	MG	Weakly argillic, phyllic and trace propylitic granodiorite interval containing mm-sized disseminated pyrite in host rock and within mm-sized smoky quartz and milky quartz veins.							
68.70	69.22	0.52	GRD	MG	Unaltered section of granodiorite with trace chlorite clasts. Trace pyrite observed in granodiorite and in trace smoky quartz veinlets							
69.22	70.03	0.81	GRD	MG	Small interval of altered granodiorite exhibiting trace phyllic and propylitic alteration. Mm-sized pyrite blebs are locally observed within milky quartz veins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
70.03	72.16	2.13	GRD	MG	Unaltered interval of granodiorite with minor chlorite clasts and mm-sized pyrite bearing quartz veins. A 40 cm section of weakly phyllic , weakly argillic section is locally observed at 71.14-71.48m (disseminated pyrite observed within GND and in mm-sized quartz veinlets.							
72.16	74.66	2.50	GRD	MG	Granodiorite interval displaying trace phyllic, weak propylitic and weak-moderate argillic alteration. Trace disseminated pyrite is locally observed within altered granodiorite interval. mm-1cm, blebby pyrite associated with quartz veins is locally observed.							
74.66	76.00	1.34	GRD	MG	Relatively unaltered granodiorite with patchy zones of trace argillic alteration. At 75.90 a gougy argillic seam is observed (clasts appear to be preferentially aligned ~ 30 degrees TCA; sheared plane(?)). Trace pyrite is observed in sub-mm quartz veinlets.							
76.00	77.62	1.62	GRD	MG	Weakly phyllic, argillic and trace propylitic altered granodiorite interval. From 77-77.32 2-4 mm pyrite bearing, smoky quartz stringer veins are locally observed. Stringer veins are ~ 45 degrees TCA. Trace chlorite clasts are observed in interval							
77.62	78.49	0.87	GRD	MG	Weakly phyllic, argillic and trace propylitic altered granodiorite interval. Pyrite-bearing, smoky quartz veins are less prominent than previous interval.							
78.49	78.84	0.35	GRD	MG	Light grey, light grey, fine grained , moderately silicified, inclusion intruded into altered granodiorite as previous unit.							
78.84	83.19	4.35	GRD	MG	Light grey/ beige, weakly phyllic, propylitic and locally moderate propylitic alteration granodiorite unit. Blebby pyrite is locally observed within quartz/smoky quartz veins and surrounds mm-sized zoned sphalerite crystals contained within milky quartz vein (i.e. 80.47m). Sub-mm carbonitic veinlets appear to sometimes brecciate host rock granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
83.19	88.39	5.20	GRD	MG	Light grey/ beige, weakly phyllic, propylitic and locally moderate propylitic alteration granodiorite unit							
88.39	89.00	0.61	GRD	MG	mod altered arg and pro grd							
						LT	GN		ARG	3I		
						LT	GY		PRO	2I		
89.00	90.91	1.91	GRD	MG	moderately arg and pro altered grd with 7 small mm scale pyrite bearing quartz veins developed within interval, evenly spaced.							
											Py	1
90.91	91.59	0.68	GRD	MG	weakly arg and pro altered grd							
91.59	93.53	1.94	GRD	MG	relatively unaltered GRD, patchy medium green with patchy pink; minor to trace propylitic alteration throughout interval. Rare stringers crosscutting (less than 1 cm)							
						MD	GN		PRO	1I	Py	0.1
						MD	GY					
93.53	96.18	2.65	GRD	MG	weakly argillic and propylitic altered grd							
96.18	96.66	0.48	GRD	MG	moderately argillic altered grd with medium propylitic overprint							
						LT	GN		PRO	3I		
						LT	GY		ARG	4I		
96.66	99.66	3.00	GRD	MG	weak to trace agrillic altered grd with trace propylitic alteration relatively unaltered							
						MD	GY		PRO	1I		
						LT	GN		ARG	1I		
99.66	101.60	1.94	GRD	MG	weak to moderate argillic altered grd							
						MD	GY					
						LT	GN		PRO	2I		
						LT	GY		ARG	2I		
101.60	102.10	0.50	GRD	MG	strong argillic alteration with minor propylitic overprint							
						LT	GN					
						LT	GY					
102.10	103.89	1.79	GRD	MG	relativly unaltered grd; trace arg alteration along frx							
									ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
103.89	104.87	0.98	GRD	MG	gen lith description							
104.87	105.27	0.40	GRD	MG	strongly argillic altered interval of GRD							
						LT	GN		ARG	4I	Py	0.1
						LT	GY					
105.27	106.30	1.03	GRD	MG	same as gen lith description							
106.30	107.41	1.11	GRD	MG	medium grained, moderately argillic altered granodiorite with weak propylitic overprint. Minor carbonate pyrite stringers throughout interval less than 1 mm in size.							
						LT	GN		PRO	2I		
						LT	GY		ARG	3I	Py	0.1
107.41	112.13	4.72	GRD	MG	same as gen lith description							
112.13	112.21	0.08	APL	FG	fine grained aplitic dyke; pinkish brown							
						MD	BN					
						MD	PK					
112.21	112.70	0.49	GRD	MG	same as gen lith description							
112.70	112.90	0.20	APL	FG	light to medium pinkish brown fine grained aaplite dyke with a sharp upper and lower contact 30 ACTA							
112.90	113.37	0.47	GRD	MG	same as gen lith description							
113.37	113.53	0.16	APL	FG	interval of fine-grained, SIL flooded granodiorite with two 3 mm wide pyrite veinlets cutting 70 ACTA.							
									ARG	2I	Py	0.5
									SIL	2I		
113.53	113.77	0.24	GRD	MG	same as gen lith description							
113.77	118.02	4.25	GRD	MG	same as gen lith description							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
118.02	118.30	0.28	GRD	MG	Weakly argillic altered granodiorite with propylitic overprint. 118.15 to 118.19 contains small 1 cm wide polymetallic quartz vein with patchy blebs of pyrite, sphalerite, galena, and trace chalcopyrite running 70 ACTA. Propylitic alteration halo extends around polymetallic veinlet 10 cm on either side.							
						LT	GY		PRO	3I	Py	1
						LT	GN				Cp	0.2
											Sp	0.2
											Gn	0.2
118.30	119.88	1.58	GRD	MG	same as gen lith description							
119.88	122.70	2.82	GRD	MG	same as gen lith							
122.70	122.80	0.10	QVN	FG	Set of 2 1 cm wide pyrite bearing quartz veins; 70 ACTA							
									SIL	2I	Py	2
									PRO	4I		
122.80	123.10	0.30	GRD	MG	same as gen lith							
123.10	123.20	0.10	QVN	FG	1.5 cm wide pyrite bearing quartz vein with rhodochrosite alteration immediately adjacent to it. Open space dilation and infill of PY in open space. 70 ACTA							
									PRO	2I	Py	2
									SIL	3I		
123.20	123.35	0.15	GRD	MG	same as gen lith description							
123.35	126.49	3.14	GRD	MG	Medium to coarse-grained, medium grey to light grey with "salt and pepper" colouring (i.e. pinkish, black specks, and patchy white), unaltered granodiorite with rare 1mm wide hairline stringers of clay and carbonate. Trace disseminated pyrite throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.20	1.20	CAS	---	--	casing
1.20	2.40	1.20	OVB	OVB	--	ovb
2.40	7.21	4.81	GRD	GRD	MG	Relatively unaltered granodiorite with minor local argillic and propylitic alteration zones (i.e. 5 m, feldspathic clast swelling and occasional chlorite clasts are locally observed) exhibiting moderate brownish/reddish oxidation in fractures, joint surfaces and within granodiorite host rock. Mm-sized tourmaline crystals are observed from 4.60-5 m hosted within granodiorite. Minor mm- oxidized quartz veins are locally observed. Trace disseminated pyrite located within veinlets and sometimes within host rock are seen in interval.
7.21	14.25	7.04	GRD	GRD	MG	Moderately- oxidized granodiorite interval exhibiting weak propylitic and trace phyllic alteration (?) (rock is greenish contains chlorite clasts, 2-4 mm quartz clasts and trace disseminated pyrite). Sub-mm tourmaline clasts are commonly observed within granodiorite. Minor mm-sized, oxidized veinlets sporadically containing disseminated pyrite are locally observed.
14.25	15.86	1.61	GRD	GRD	MG	Moderately oxidized, fractured, interval of unaltered granodiorite exhibiting trace to minor propylitic alteration locally (minor chlorite clasts observed).
15.86	21.18	5.32	GRD	GRD	MG	Pervasively oxidized granodiorite interval exhibiting weak phyllic alteration overprinting trace argillic alteration sections (quartz clasts observed, muscovite (sericite(?) basal cleavage crystals observed, weakly silicified). Pyrite bearing ,mm-sized, quartz veins are locally observed in interval as well as trace disseminated pyrite in GND. Carbonitic veinlets (likely calcite; moderately reactive to HCL) located near pyrite bearing quartz are present in interval. Rubbly zone observed from 18.40-18.80m
21.18	26.60	5.42	GRD	GRD	MG	Highly fractured, moderately oxidized granodiorite unit exhibiting weak-moderate phyllic alteration (phyllic alteration halo) overprinting trace argillic and propylitic alteration (clay rich, swelled up feldspathic clasts and feldspathic clasts surrounding chlorite crystals are sometimes observed). A rubbly, oxidized section occurs at 21.34-22.01m. Phyllic alteration becomes more prominent proximal to feldspathic dyke contact). Phyllic alteration zones contain quartz clasts, appear weakly to moderately silicified, contain basal-cleavage muscovite crystals and mm-sized pyrite blebs within smoky quartz veins. A gougy, clay rich, brecciated seam is present right at the contact between granodiorite and quartz feldspar porphyry dyke (faulted contact(?)). Quartz vein @ 26.50 brecciates host granodiorite unit.
26.60	29.02	2.42	GRD	DYK	MG	Medium grey/greenish , fine grained quartz feldspar porphyry dyke (quartz clasts locally observed but feldspathic clasts are much more abundant) containing trace chlorite clasts within some feldspar clasts. Trace mm-sized quartz veinlets containing dendritic magnetite are locally observed.
29.02	29.87	0.85	GRD	DYK	MG	Brown/reddish, fine grained, oxidized quartz feldspar porphyry dyke exhibiting brecciation and rubbly zones proximal to contact between dyke and vein contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
29.87	31.07	1.20	VEN	VEIN	MG	quartz/pyrite vein zone contained within soft, brecciated medium grey/ greenish, granodiorite host exhibiting weak propylitic and phyllic alteration (i.e. 30.29; chlorite clasts, quartz, muscovite (?) crystal and trace fine grained disseminated pyrite is locally observed in host rock. Proximal to vein zone, dyke is brecciated and rubbly (faulted contact(?). Vein zone appears to be brecciated by milky quartz veins and contain mm-sized pyrite blebs and pyritic disseminations. Some vuggy quartz veinlets are also observed within vein zone . Black fine grained, smoky quartz is present at 30.90 and is brecciated by milky quartz. Fracture surfaces along vein zone are moderately oxidized
31.07	33.12	2.05	FLR	FLT	MG	light to medium grey, fractured, quartz feldspar porphyry dyke interval which is brecciated and gougy proximal to previous vein zone (faulted vein zone footwall (?)). Minor oxidation is observed along fractures and joint surfaces.
33.12	33.74	0.62	VEN	VEIN	MG	Pyrite bearing, milky and smoky quartz, brecciated vein zone included into quartz feldspar porphyry dyke. Disseminated pyrite is locally observed near and within smoky quartz veinlets. Brecciated zones appear gouged near the vein boundary.
33.74	34.77	1.03	GRD	DYK	MG	Light/medium grey, fine grained, brecciated quartz feldspar porphyry dyke interval . Brecciated sections are soft and gougy.
34.77	36.48	1.71	GRD	DYK	MG	Light-medium grey, locally oxidized, fine grained, quartz feldspar porphyry dyke. Trace chlorite clasts are locally observed within dyke interval. 1-2 cm, irregular, dark, fine grained , pyrite-bearing clasts are observed within oxidized dyke interval (i.e. 36.30m onwards).
36.48	37.27	0.79	GRD	DYK	MG	Light-medium grey, brecciated interval of quartz feldspar porphyry. Brecciated sections are soft and gougy and appear more oxidized proximal to vein contact. Ankerite veins appear to brecciated clasts in dyke (i.e. 36.83m). Trace disseminated pyrite is locally observed in interval.
37.27	37.36	0.09	VEN	VEIN	FG	Medium-dark grey, vein zone within granodiorite unit disseminated pyrite is locally observed in vein section. Minor oxidation is present along fracture surfaces.
37.36	38.71	1.35	GRD	GRDA	MG	Granodiorite unit exhibiting weak alteration overprinting trace propylitic and phyllic alteration (?) alteration (chlorite clasts occur within interval). Mm-sized, pyrite bearing smoky quartz veinlets occur in interval. Interval is moderately oxidized
38.71	41.90	3.19	GRD	GRDA	MG	Moderately oxidized, highly fractured, Argillic and weakly phyllic altered granodiorite unit . Pyrite bearing, smoky and milky quartz veinlets are locally observed in interval. Trace disseminated pyrite is also observed within granodiorite unit (trace phyllic alteration (?). Chlorite clasts are commonly occurring in granodiorite interval (weak propylitic alteration(?)).
41.90	45.06	3.16	GRD	GRDA	MG	Light green/beige granodiorite unit exhibiting weak to moderate phyllic alteration overprinting minor propylitic alteration (interval is moderately silicified, contains fine grained disseminated pyrite and trace muscovite crystals are locally observed. Mm-sized quartz veinlets locally brecciate host granodiorite.mm-sized pyrite blebs within quartz are surrounded by tourmaline at 43.80m. Oxidation is observed around quartz veinlets, fractures and joint surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
45.06	46.14	1.08	VEN	VEIN	MG	Light green, tan , granodiorite unit exhibiting weak phyllic alteration overprinting trace argillic alteration (sporadic swelled up feldspathic clasts overprinted by silicified, quartz and muscovite bearing granodiorite) Intermittent chlorite clasts are locally observed in interval. Interval contains mm-sized, pyrite bearing, stringer quartz veins that are moderately oxidized on surface. Stringer veins are ~ 50 O TCA
46.14	47.20	1.06	GRD	GRDA	MG	Weakly to moderately oxidized granodiorite with weak phyllic alteration overprinting local sections of propylitic alteration. Chlorite clasts are commonly occurring in interval. Blebby pyrite and euhedral, cubic pyrite crystals are locally observed within mm-sized quartz veinets and along fracture surfaces (i.e. 46.90m).
47.20	48.96	1.76	GRD	GRDA	MG	Light green/tan , granodiorite interval exhibiting weak to moderate phyllic alteration (disseminated and blebby pyrite, weakly to moderately silicified, muscovite crystals locally observed) overprinting weak argillic alteration (note: overprinted argillic alteration appears more prominent compared to previous interval). Tourmaline crystals located near 2-cm (15-20 O TCA) quartz vein is local is present @ 47.82m . Red/brownish , mm-sized sphalerite crystals are locally observed at 48.56m. a 2 cm vuggy quartz vein occurs at 48.33 and contain prismatic quartz crystals along fracture surface.
48.96	50.73	1.77	GRD	GRDA	MG	Light green/tan granodiorite exhibiting weak phyllic alteration , propylitic and argillic alteration. Argillic and propylitic alteration appears more prominent compared to previous interval. mm-sized disseminated and blebby pyrite is locally observed in interval. Chlorite clasts are also present throughout unit. Tourmaline crystals are present @ 49m. @ 49.96 a 1-2 cm coloform quartz/cabonitic vein is locally observed (carbonate is likely ankerite and calcite (tan coloured)). Coloform veins appear vuggy, with vugs containing prismatic quartz crystals. Coloform vein brecciates host altered granodiorite unit.
50.73	51.23	0.50	GRD	GRDA	MG	Unaltered granodiorite interval containing trace chlorite clasts and trace disseminated pyrite in host rock. Mm-sized, pyrite bearing smoky quartz veinlets appear to crosscut mm-sized milky quartz veins.
51.23	54.71	3.48	GRD	GRDA	MG	Light green/tan granodiorite unit with weak to moderate phyllic alteration (disseminated pyrite, increased quartz clasts, weakly to moderately silicified granodiorite and basal cleavage, muscovite (?) crystals are locally observed in interval) overprinting weak argillic and propylitic alteration (swelled up feldspathic clasts locally observed as well as chloritized crystals).Mm-sized quartz and smoky quartz veins containing blebby and disseminated pyrite are locally observed throughout unit with some smoky quartz veins crosscutting milky quartz ones (i.e. 54.25m). sub-mm, carbonitic veinlets appear to offset and crosscut pyrite-bearing quartz veins locally.
54.71	58.14	3.43	GRD	GRDA	MG	Predominantly unaltered granodiorite interval with patchy zones of weakly phyllic, argillic and propylitic alteration (i.e. 57.60m; chlorite clasts present, muscovite crystals, quartz clasts and trace swelling of feldspathic clasts). A 2 cm, reddish/pink, fine grained aplite dyke intrusion is present at 57.45m. sub-mm, fine grained smoky quartz veinlets are locally observed in unaltered section of granodiorite. (Trace basal cleavage soft crystals are sporadically observed in interval (very weak phyllic alteration remnant(?)).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
58.14	59.23	1.09	GRD	GRDA	MG	Light grey/ light green, tan interval of granodiorite exhibiting weak to moderate phyllic, weak argillic and propylitic alteration. (chlorite clasts observed, locally silicified zones, muscovite or sericite (?)crystals (soft, basal cleavage crystals)). Blebby and disseminated pyrite is contained within mm-4 cm smoky quartz veins (i.e. 58.92m). Well-developed cubic pyrite crystals are commonly observed along fracture surfaces along veins. Largest pyrite bearing vein is ~ 75 degrees TCA). Sporadic mm-sized ankerite is present within pyrite bearing quartz veins.
59.23	59.82	0.59	GRD	GRDA	MG	Interval of unaltered granodiorite containing trace chlorite clasts, and sporadic fine grained disseminated pyrite. Fine grained pyrite is locally observed in sub-mm , dark, fine grained smoky quartz veinlets
59.82	60.33	0.51	GRD	GRDA	MG	Light green/ tan/ light grey granodiorite with weak phyllic, trace argillic and propylitic alteration. Disseminated and mm-sized pyrite blebs are locally observed within host rock
60.33	61.91	1.58	GRD	GRDA	MG	Interval of unaltered granodiorite with trace chlorite clasts and fine grained disseminated pyrite.
61.91	64.00	2.09	GRD	GRDA	MG	Granodiorite exhibiting weak phyllic, weak argillic, and trace propylitic alteration. Granodiorite is moderately oxidized and contains mm-sized disseminated and blebby pyrite in host rock and within smoky quartz veins. @ 62.64m a 2 cm quartz/carbonitic vein containing mm-sized cubic pyrite crystals and mm-sized sphalerite crystals is locally observed. Vein appears gougy and micro brecciated. Gougy brecciated seams are observed @ 63.36m as well.
64.00	66.22	2.22	GRD	GRDA	MG	Granodiorite interval exhibiting alternating zones of weakly phyllic, argillic and trace propylitic alteration. Mm-sized, pyrite bearing quartz veins are locally observed in interval. Trace, quartz veins appear to microbrecciate granodiorite host.
66.22	68.14	1.92	GRD	GRDA	MG	Interval of relatively unaltered granodiorite containing mm-sized, pyrite veins and sporadic 1 cm reddish/pink, fine grained aplite dyke intrusions.
68.14	68.70	0.56	GRD	GRDA	MG	Weakly argillic, phyllic and trace propylitic granodiorite interval containing mm-sized disseminated pyrite in host rock and within mm-sized smoky quartz and milky quartz veins.
68.70	69.22	0.52	GRD	GRDA	MG	Unaltered section of granodiorite with trace chlorite clasts. Trace pyrite observed in granodiorite and in trace smoky quartz veinlets
69.22	70.03	0.81	GRD	GRDA	MG	Small interval of altered granodiorite exhibiting trace phyllic and propylitic alteration. Mm-sized pyrite blebs are locally observed within milky quartz veins.
70.03	72.16	2.13	GRD	GRDA	MG	Unaltered interval of granodiorite with minor chlorite clasts and mm-sized pyrite bearing quartz veins. A 40 cm section of weakly phyllic , weakly argillic section is locally observed at 71.14-71.48m (disseminated pyrite observed within GND and in mm-sized quartz veinlets.
72.16	74.66	2.50	GRD	GRDA	MG	Granodiorite interval displaying trace phyllic, weak propylitic and weak-moderate argillic alteration. Trace disseminated pyrite is locally observed within altered granodiorite interval. mm-1cm, blebby pyrite associated with quartz veins is locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
74.66	76.00	1.34	GRD	GRDA	MG	Relatively unaltered granodiorite with patchy zones of trace argillic alteration. At 75.90 a gougy argillic seam is observed (clasts appear to be preferentially aligned ~ 30 degrees TCA; sheared plane(?)). Trace pyrite is observed in sub-mm quartz veinlets.
76.00	77.62	1.62	GRD	GRDA	MG	Weakly phyllic, argillic and trace propylitic altered granodiorite interval. From 77-77.32 2-4 mm pyrite bearing, smoky quartz stringer veins are locally observed. Stringer veins are ~ 45 degrees TCA. Trace chlorite clasts are observed in interval
77.62	78.49	0.87	GRD	GRDA	MG	Weakly phyllic, argillic and trace propylitic altered granodiorite interval. Pyrite-bearing, smoky quartz veins are less prominent than previous interval.
78.49	78.84	0.35	GRD	GRDA	MG	Light grey, light grey, fine grained , moderately silicified, inclusion intruded into altered granodiorite as previous unit.
78.84	83.19	4.35	GRD	GRDA	MG	Light grey/ beige, weakly phyllic, propylitic and locally moderate propylitic alteration granodiorite unit. Blebby pyrite is locally observed within quartz/smoky quartz veins and surrounds mm-sized zoned sphalerite crystals contained within milky quartz vein (i.e. 80.47m). Sub-mm carbonitic veinlets appear to sometimes brecciate host rock granodiorite
83.19	88.39	5.20	GRD	GRDA	MG	Light grey/ beige, weakly phyllic, propylitic and locally moderate propylitic alteration granodiorite unit
88.39	89.00	0.61	GRD	GRD	MG	mod altered arg and pro grd
89.00	90.91	1.91	GRD	GRD	MG	moderately arg and pro altered grd with 7 small mm scale pyrite bearing quartz veins developed within interval, evenly spaced.
90.91	91.59	0.68	GRD	GRD	MG	weakly arg and pro altered grd
91.59	93.53	1.94	GRD	GRD	MG	relatively unaltered GRD, patchy medium green with patchy pink; minor to trace propylitic alteration throughout interval. Rare stringers crosscutting (less than 1 cm)
93.53	96.18	2.65	GRD	GRDA	MG	weakly argillic and propylitic altered grd
96.18	96.66	0.48	GRD	GRDA	MG	moderately argillic altered grd with medium propylitic overprint
96.66	99.66	3.00	GRD	GRDA	MG	weak to trace agrillic altered grd with trace propylitic alteration relatively unaltered
99.66	101.60	1.94	GRD	GRDA	MG	weak to moderate argillic altered grd
101.60	102.10	0.50	GRD	GRDA	MG	strong argillic alteration with minor propylitic overprint
102.10	103.89	1.79	GRD	GRDA	MG	relativly unaltered grd; trace arg alteration along frx
103.89	104.87	0.98	GRD	GRD	MG	gen lith description
104.87	105.27	0.40	GRD	GRD	MG	strongly argillic altered interval of GRD

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
105.27	106.30	1.03	GRD	GRD	MG	same as gen lith description
106.30	107.41	1.11	GRD	GRDA	MG	medium grained, moderately argillic altered granodiorite with weak propylitic overprint. Minor carbonate pyrite stringers throughout interval less than 1 mm in size.
107.41	112.13	4.72	GRD	GRD	MG	same as gen lith description
112.13	112.21	0.08	APL	GRD	FG	fine grained aplitic dyke; pinkish brown
112.21	112.70	0.49	GRD	GRD	MG	same as gen lith description
112.70	112.90	0.20	APL	DYK	FG	light to medium pinkish brown fine grained aaplite dyke with a sharp upper and lower contact 30 ACTA
112.90	113.37	0.47	GRD	GRDA	MG	same as gen lith description
113.37	113.53	0.16	APL	GRDA	FG	interval of fine-grained, SIL flooded granodiorite with two 3 mm wide pyrite veinlets cutting 70 ACTA.
113.53	113.77	0.24	GRD	GRDA	MG	same as gen lith description
113.77	118.02	4.25	GRD	GRD	MG	same as gen lith description
118.02	118.30	0.28	GRD	GRD	MG	Weakly argillic altered granodiorite with propylitic overprint. 118.15 to 118.19 contains small 1 cm wide polymetallic quartz vein with patchy blebs of pyrite, sphalerite, galena, and trace chalcopyrite running 70 ACTA. Propylitic alteration halo extends around polymetallic veinlet 10 cm on either side.
118.30	119.88	1.58	GRD	GRD	MG	same as gen lith description
119.88	122.70	2.82	GRD	GRDA	MG	same as gen lith
122.70	122.80	0.10	QVN	GRDA	FG	Set of 2 1 cm wide pyrite bearing quartz veins; 70 ACTA
122.80	123.10	0.30	GRD	GRDA	MG	same as gen lith
123.10	123.20	0.10	QVN	GRDA	FG	1.5 cm wide pyrite bearing quartz vein with rhodochrosite alteration immediately adjacent to it. Open space dilation and infill of PY in open space. 70 ACTA
123.20	123.35	0.15	GRD	GRDA	MG	same as gen lith description
123.35	126.49	3.14	GRD	GRD	MG	Medium to coarse-grained, medium grey to light grey with "salt and pepper" colouring (i.e. pinkish, black specks, and patchy white), unaltered granodiorite with rare 1mm wide hairline stringers of clay and carbonate. Trace disseminated pyrite throughout interval.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	CAS	--	casing							
1.20	2.40	1.20	OVB	--	ovb							
2.40	26.60	24.20	GRD	MG	light to medium grey granodiorite unit exhibiting trace propylitic and argillic alteration. Interval is highly fractured, contains local rubbly zones and contains brownish/reddish oxidation along fractures, joints and within host rock (locally oxidized clasts in Grd							
26.60	29.87	3.27	QFP	FG	Mid grey/ greenish, brownish, fine grained quartz feldspar porphyry dyke unit. Interval is fractured and oxidation increases in lower portion of interval (from 29.02m). oxidation and clay is locally observed along fractures and joint surfaces. Dyke portion proximal to vein contact is brecciated and highly fractured.							
29.87	31.07	1.20	VEN	MG	quartz/pyrite vein zone contained within soft, brecciated medium grey/ greenish, granodiorite host exhibiting weak propylitic and phyllic alteration (i.e. 30.29; chlorite clasts, quartz, muscovite (?) crystal and trace fine grained disseminated pyrite is locally observed in host rock. Proximal to vein zone, dyke is brecciated and rubbly (faulted contact(?). Vein zone appears to be brecciated by milky quartz veins and contain mm-sized pyrite blebs and pyritic disseminations. Some vuggy quartz veinlets are also observed within vein zone . Black fine grained, smoky quartz is present at 30.90 and is brecciated by milky quartz. Fracture surfaces along vein zone are moderately oxidized							
31.07	33.12	2.05	FLR	MG	light to medium grey, fractured, quartz feldspar porphyry dyke interval which is brecciated and gougy proximal to previous vein zone (faulted vein zone footwall (?)). Minor oxidation is observed along fractures and joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
33.12	33.74	0.62	VEN	MG	Pyrite bearing, milky and smoky quartz, brecciated vein zone included into quartz feldspar porphyry dyke. Disseminated pyrite is locally observed near and within smoky quartz veinlets. Brecciated zones appear gouged near the vein boundary.							
33.74	37.27	3.53	QFP	FG	light-medium grey, fine grained, brecciated quartz feldspar porphyry dyke interval. Brecciated sections appear soft and gougy (fault related to vein inclusion(?)). Darker, grey, irregular inclusions within dyke contain fine disseminated pyrite. Trace chlorite clasts are locally observed and lower section of interval appears moderately oxidized and brecciated.							
37.27	37.36	0.09	VEN	FG	Medium-dark grey, vein zone within granodiorite unit disseminated pyrite is locally observed in vein section. Minor oxidation is present along fracture surfaces.							
37.36	45.06	7.70	GRD	MG	Light green, light grey medium tan granodiorite unit exhibiting weak to moderate zones of phyllic alteration overprinting locally variable zones of weak argillic and propylitic alteration. Unit is weakly to moderately silicified, contains abundant quartz clasts, and muscovite crystals are locally observed. Disseminated pyrite and pyrite bearing, mm-sized quartz veinlets are commonly occurring throughout interval. Chloritized clasts are also observed in interval. Upper part of the interval is fractured and moderately oxidized. Tourmaline crystals are also observed in granodiorite unit @ 43.85m-44m.							
45.06	46.14	1.08	VEN	MG	Light green, tan , granodiorite unit exhibiting weak phyllic alteration overprinting trace argillic alteration (sporadic swelled up feldspathic clasts overprinted by silicified, quartz and muscovite bearing granodiorite) Intermittent chlorite clasts are locally observed in interval. Interval contains mm-sized, pyrite bearing, stringer quartz veins that are moderately oxidized on surface. Stringer veins are ~ 50 O TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
46.14	76.00	29.86	GRD	MG	Interval composed of alternating zones of unaltered and altered granodiorite. Alteration ranges from weakly phyllic, weakly to moderately argillic and weakly propylitic alteration. Zones of phyllic alteration are weakly to moderately silicified, contain disseminated pyrite and trace muscovite crystals. Zones of argillic alteration exhibit feldpathic clast swelling. Sporadic gougy, brecciated seams are locally observed in interval (i.e. 63.10-63.34m). Disseminated and blebby pyrite occurs within sections of granodiorite interval and within quartz veins.							
76.00	88.39	12.39	GRD	MG	Predominantly light green/white/tan granodiorite exhibiting weakly phyllic, weakly propylitic and moderate argillic alteration. This interval is more altered, contains mm-sized pyrite in veins and within host rock as well as zoned sphalerite crystals within quartz veins. Sphalerite bearing vein is surrounded by 0.5 cm blebby pyrite (i.e. 80.46m).							
88.39	91.59	3.20	GRD	MG	medium grained, weak to moderate argillic and propylitic altered granodiorite with stringer zone of 7 1-mm wide pyrite bearing quartz veinlets							
91.59	93.53	1.94	GRD	MG	relatively unaltered GRD, patchy medium green with patchy pink; minor to trace propylitic alteration throughout interval. Rare stringers crosscutting (less than 1 cm)							
						MD	GY		PRO	1I	Py	0.1
						MD	GN					
93.53	103.89	10.36	GRD	MG	Medium grained granodiorite with alternating zones of weak to strong argillic alteration, propylitic alteration, and argillic with propylitic overprinting. Argillic/propylitic overprinted zones have quartz carbonate veinlets and stringers crosscutting throughout (typically less than 1cm, with intervals up to 2m). Local unaltered granodioite sporadically within. Stringer zones have argillic alteration halos (1-2cm)							
						MD	GY		ARG	3I		
						LT	GN					
						LT	GY		PRO	2I	Py	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
103.89	106.30	2.41	GRD	MG	medium grained, relatively unaltered granodiorite with one zone of strong argillic alteration. Minor disseminated pyrite throughout interval. Carbnate and pyrite stringers occurr throughout from 1 mm up to 5mm.							
						LT	GY					
						MD	GY					
						LT	GN		ARG	2I	Py	0.1
106.30	107.41	1.11	GRD	MG	medium grained, moderately argillic altered granodiorite with weak propylitic overprint. Minor carbonate pyrite stringers throughout interval less than 1 mm in size.							
						LT	GY		ARG	3I		
						LT	GN		PRO	2I	Py	0.1
107.41	112.70	5.29	GRD	MG	medium grey to dark grey, relatively unaltered granodiorite; minor patchy clay alteration and patchy ksp alteration. Weak carbonate stringers and very trace pyrite throughout interval							
						MD	GY					
						MD	GN		ARG	1I	Py	0.1
112.70	112.90	0.20	APL	FG	light to medium pinkish brown fine grained aaplite dyke with a sharp upper and lower contact 30 ACTA							
112.90	113.77	0.87	GRD	MG	Medium grained, light whitish grey to medium grey, moderate to strong argillic altered granodiorite, with weak propylitic overprint. Minor disseminated pyrite throughout							
						LT	GY					
						LT	GN		PRO	1I		
						MD	GY		ARG	3I	Py	0.1
113.77	119.88	6.11	GRD	MG	Medium to coarse grained, medium grey to whitish grey, "salt and pepper" textured granodiorite with rare carbonate stringer veinlets up to 1mm in size, and with trace disseminated pyrite throughout interval. Patchy moderate argillic and propylitic alteration from 118 to 118.30m							
						LT	PK					
						MD	GY		PRO	1I		
						LT	GN		ARG	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
119.88	123.35	3.47	GRD	MG	Medium grained, light grey to whitish green, moderately argillic altered GRD with weak to moderate propylitic overprint. Localized quartz veinlets and fractures with pyrite. Strong propylitic alteration from 120.4 to 121 and strong argillic alteration from 121.5 to 122.5m.							
						LT	GY		PRO	3I		
						MD	GY					
						LT	GN		ARG	3I	Py	0.5
123.35	126.49	3.14	GRD	MG	Medium to coarse-grained, medium grey to light grey with "salt and pepper" colouring (i.e. pinkish, black specks, and patchy white), unaltered granodiorite with rare 1mm wide hairline stringers of clay and carbonate. Trace disseminated pyrite throughout interval.							
						MD	GY					
						LT	WH					
						MD	PK		ARG	1I	Py	0.1

KL -19-437

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.20	1.20	0	0	0.00	0	--	--	--	
1.20	3.05	1.85	1.85	100	0.00	0	--	4H	4W	Rubbly throughout with muddy zones
3.05	6.10	3.05	2.32	76	0.35	11	--	4H	3W	Broken interval. General 'iron stain' infill in joints
6.10	9.14	3.04	3.04	100	0.48	16	--	4H	3W	A full length of 48cm of solid rock at 6.52m
9.14	12.19	3.05	2.87	94	0.49	16	--	3H	3W	Broken interval
12.19	15.24	3.05	2.79	91	1.14	37	--	4H	3W	Broken in 15cm pieces. General 'iron stain' and up to 4mm clay infill in joints
15.24	18.29	3.05	3.05	100	1.29	42	--	3H	4W	Rubbly broken with muddy zone
18.29	21.34	3.05	3	98	1.34	44	--	3H	4W	Half highly broken, half solid rock
21.34	24.38	3.04	3.04	100	0.47	15	--	3H	3W	Highly broken interval
24.38	27.43	3.05	2.72	89	0.97	32	--	3H	3W	Broken interval. Chlorite, carbonate and general 'iron stain' infill in joints, and up to 1cm clay infill in joint at 65 degree at 26.50m
27.43	30.48	3.05	2.89	95	1.02	33	--	3H	3W	Bottom half rubbly broken
30.48	32.61	2.13	1.73	81	0.27	13	--	3H	3W	Rubbly broken interval
32.61	35.66	3.05	3.05	100	1.85	61	--	3H	2W	Top 40cm rubbly broken. Clay infill in joints
35.66	38.71	3.05	2.96	97	1.45	48	--	3H	3W	Clay infill in joints
38.71	40.54	1.83	1.83	100	0.72	39	--	3H	3W	Rubbly broken interval. Chlorite, carbonate, sulphides and up to 2mm clay infill in joints
40.54	42.67	2.13	2.13	100	0.95	45	--	3H	2W	Broken. Clay and general 'iron stain' infill in joints
42.67	45.11	2.44	2.27	93	1.09	45	--	3H	2W	50cm rubbly broken zone at 44.50m. Chlorite, carbonate, clay and sulphides infill in the first set of joints, and clay and general 'iron stain' infill in the second set of joints
45.11	48.16	3.05	2.92	96	2.36	77	--	3H	2W	Chlorite, carbonate, clay and general 'iron stain' infill in joints
48.16	51.21	3.05	2.87	94	2.27	74	--	3H	1W	Carbonate infill in joints, with sulphides in the first set of joints
51.21	54.25	3.04	2.99	98	2.91	96	--	4H	1W	Chlorite, carbonate and sulphides infill in joints

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
54.25	57.00	2.75	2.75	100	2.65	96	--	4H	1W	Highly broken at bottom of interval. Carbonate, chlorite and sulphides infill in the first set of joints, and clay infill in the second set of joints
57.00	60.05	3.05	3.05	100	2.57	84	--	3H	1W	Chlorite and carbonate infill in joints
60.05	62.18	2.13	2.05	96	1.66	78	--	4H	1W	Chlorite and carbonate infill in joints
62.18	64.01	1.83	1.68	92	0.80	44	--	3H	1W	Chlorite and carbonate infill in joints
64.01	66.90	2.89	2.89	100	2.74	95	--	3H	1W	Chlorite, carbonate and sulphides infill in joints, up to 4mm.
66.90	68.58	1.68	1.68	100	1.31	78	--	4H	1W	Chlorite and carbonate infill in joints
68.58	71.02	2.44	2.44	100	2.14	88	--	4H	1W	Chlorite and carbonate infill in joints
71.02	73.15	2.13	2	94	1.32	62	--	3H	1W	Chlorite and carbonate infill in joints
73.15	76.20	3.05	3.05	100	2.15	70	--	3H	1W	Chlorite and carbonate infill in joints
76.20	79.25	3.05	3.05	100	2.36	77	--	3H	1W	Chlorite and carbonate infill in joints
79.25	82.30	3.05	2.88	94	1.85	61	--	4H	1W	Chlorite and carbonate infill in joints
82.30	85.34	3.04	3.04	100	2.88	95	--	4H	1W	Chlorite and carbonate infill in joints
85.34	88.39	3.05	2.89	95	2.79	91	--	4H	1W	Chlorite and carbonate infill in joints
88.39	91.13	2.74	2.74	100	2.48	91	--	4H	1W	Chlorite and carbonate infill in joints
91.13	92.96	1.83	1.83	100	1.80	98	--	4H	1W	Chlorite and carbonate infill in joints
92.96	96.01	3.05	3.05	100	2.38	78	--	4H	1W	Chlorite and carbonate
96.01	99.06	3.05	3.05	100	2.80	92	--	4H	1W	Chlorite, Carbonate, minor sulphide
99.06	102.11	3.05	2.72	89	1.48	49	--	3H	1W	Chlorite and carbonate
102.11	103.63	1.52	1.52	100	1.42	93	--	4H	1W	Carbonate and Sulphate
103.63	106.68	3.05	3.05	100	2.61	86	--	4H	1W	Chlorite and Carbonate
106.68	109.72	3.04	2.85	94	1.99	65	--	4H	1W	Chlorite and Carbonate
109.72	112.78	3.06	2.93	96	2.15	70	--	4H	1W	Chlorite and Carbonate
112.78	114.13	1.35	1.33	99	1.28	95	--	4H	1W	Chlorite, Carbonate and Sulphides
114.13	117.04	2.91	2.89	99	2.13	73	--	4H	1W	Chlorite and Carbonate
117.04	120.09	3.05	2.89	95	2.82	92	--	4H	1W	Chlorite and Carbonate
120.09	120.40	0.31	0.31	100	0.15	48	--	4H	1W	
120.40	123.44	3.04	2.98	98	2.82	93	--	4H	1W	Quartz and Carbonate
123.44	126.49	3.05	3.02	99	2.95	97	--	4H	1W	Chlorite and carbonate

Magnetic Suscepatibility

KL -19-437

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	Highly fractured
2	0	OVB	Highly fractured
3	0	GRD	Highly fractured
4	11.97	GRD	
5	0.204	GRD	
6	11.96	GRD	
7	0.834	GRD	
8	0	GRD	Highly fractured
9	0.15	GRD	
10	0.141	GRD	
11	0.17	GRD	
12	0.618	GRD	
13	0.121	GRD	
14	8.367	GRD	
15	18.66	GRD	
16	0.182	GRD	
17	0.531	GRD	
18	0.628	GRD	
19	0.849	GRD	
20	10.71	GRD	
21	11.36	GRD	
22	0.685	GRD	
23	0.112	GRD	
24	0.264	GRD	
25	0.516	GRD	
26	0.465	GRD	
27	0.635	QFP	
28	0.476	QFP	
29	0.36	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.357	VEN	
31	0.188	VEN	
32	0.567	FLR	
33	0.269	FLR	
34	0.153	QFP	
35	0.166	QFP	
36	0.26	QFP	
37	0.289	QFP	
38	0.165	GRD	
39	0.123	GRD	
40	0.456	GRD	
41	0.219	GRD	
42	0.798	GRD	
43	0.665	GRD	
44	0.282	GRD	
45	0.349	GRD	
46	0.344	VEN	
47	0.554	GRD	
48	0.189	GRD	
49	0.172	GRD	
50	0.211	GRD	
51	0.821	GRD	
52	0.59	GRD	
53	10.59	GRD	
54	0.637	GRD	
55	5.826	GRD	
56	9.251	GRD	
57	36.67	GRD	
58	0.492	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	3.94	GRD	
60	0.389	GRD	
61	16.02	GRD	
62	0.331	GRD	
63	0.189	GRD	
64	0.495	GRD	
65	1.82	GRD	
66	6.626	GRD	
67	7.665	GRD	
68	0.479	GRD	
69	0.508	GRD	
70	3.177	GRD	
71	0.313	GRD	
72	0.414	GRD	
73	0.398	GRD	
74	0.447	GRD	
75	12.9	GRD	
76	0.3	GRD	
76	0.3	GRD	
77	0.502	GRD	
78	0.641	GRD	
79	0.445	GRD	
80	0.189	GRD	
81	0.251	GRD	
82	0.158	GRD	
83	0.541	GRD	
84	0.343	GRD	
85	0.237	GRD	
86	0.357	GRD	
87	0.326	GRD	
88	0.626	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
89	0.188	GRD	
90	0.456	GRD	
91	0.499	GRD	
92	3.029	GRD	
93	7.018	GRD	
94	0.321	GRD	
95	0.447	GRD	
96	0.147	GRD	
97	0.601	GRD	
98	1.54	GRD	
99	0.349	GRD	
100	0.189	GRD	
101	0.331	GRD	
102	0.591	GRD	
103	0.389	GRD	
104	0.35	GRD	
105	0.3	GRD	
106	0.407	GRD	
107	0.272	GRD	
108	4.824	GRD	
109	6.95	GRD	
110	7.799	GRD	
111	1.889	GRD	
112	4.443	GRD	
113	0.38	GRD	
114	13.9	GRD	
115	13.73	GRD	
116	10.09	GRD	
117	15.26	GRD	
118	7.578	GRD	
119	23.63	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	0.374	GRD	
121	0.209	GRD	
122	0.337	GRD	
123	12.92	GRD	
124	5.937	GRD	
125	19.73	GRD	
126	17.97	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-437

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603980	☐	19-008	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603891	☐	19-005	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603988	☐	19-008	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603964	☐	19-008	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603948	☐	19-007	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603938	☐	19-007	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603926	☐	19-007	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603911	☐	19-005	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603899	☐	19-005	low grade		☑	☐	☐
1.50	3.00	1.50	OVB	1.10	73	W603876	☐	19-001	Low grade		☐	☐	☐
3.00	4.50	1.50	GRD	1.22	81	W603877	☐	19-003	Low grade		☐	☐	☐
4.50	6.00	1.50	GRD	1.25	83	W603878	☐	19-005	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.40	93	W603879	☐	19-005	low grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.50	100	W603880	☐	19-005	low grade		☐	☐	☐
9.00	10.50	1.50	GRD	1.50	100	W603881	☐	19-005	low grade		☐	☐	☐
10.50	12.00	1.50	GRD	1.18	79	W603882	☐	19-005	low grade		☐	☐	☐
12.00	13.50	1.50	GRD	1.40	93	W603883	☐	19-005	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
13.50	15.00	1.50	GRD	1.32	88	W603884	☐	19-005	low grade		☐	☐	☐
15.00	16.50	1.50	GRD	1.40	93	W603885	☐	19-005	low grade		☐	☐	☐
16.50	18.00	1.50	GRD	1.35	90	W603886	☐	19-005	low grade		☐	☐	☐
18.00	19.50	1.50	GRD	1.34	89	W603887	☐	19-005	low grade		☐	☐	☐
19.50	21.00	1.50	GRD	1.21	81	W603888	☐	19-005	low grade		☐	☐	☐
21.00	22.50	1.50	GRD	1.40	93	W603889	☐	19-005	low grade		☐	☐	☐
22.50	24.00	1.50	GRD	1.11	74	W603890	☐	19-005	low grade		☐	☐	☐
24.00	25.50	1.50	GRD	1.20	80	W603892	☐	19-005	low grade		☐	☐	☐
25.50	26.56	1.06	GRD	0.95	90	W603893	☐	19-005	low grade		☐	☐	☐
26.56	27.77	1.21	GRD	1.14	94	W603894	☐	19-005	low grade		☐	☐	☐
27.77	28.86	1.09	QFP	1.09	100	W603895	☐	19-005	low grade		☐	☐	☐
28.86	29.86	1.00	QFP	0.80	80	W603896	☐	19-005	low grade		☐	☐	☐
29.86	30.52	0.66	QFP	0.50	76	W603897	☐	19-005	low grade		☐	☐	☐
30.52	31.07	0.55	VEN	0.35	64	W603898	☐	19-005	low grade		☐	☐	☐
31.07	31.45	0.38	VEN, FLR	0.37	97	W603900	☐	19-005	low grade		☐	☐	☐
31.45	32.29	0.84	FLR	0.63	75	W603901	☐	19-005	low grade		☐	☐	☐
32.29	33.12	0.83	FLR	0.70	84	W603902	☐	19-005	low grade		☐	☐	☐
33.12	33.75	0.63	VEN, FLR	0.56	89	W603903	☐	19-005	low grade		☐	☐	☐
33.12	33.75	0.63	VEN, FLR	0.56	89	W603904	☐	19-005	low grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
33.75	34.78	1.03	QFP	1.00	97	W603905	☐	19-005	low grade		☐	☐	☐
34.78	35.53	0.75	QFP	0.60	80	W603906	☐	19-005	low grade		☐	☐	☐
34.78	35.53	0.75	QFP	0.60	80	W603907	☐	19-005	low grade		☐	☑	☐
35.53	36.48	0.95	QFP	0.80	84	W603908	☐	19-005	low grade		☐	☐	☐
36.48	37.26	0.78	QFP	0.73	94	W603909	☐	19-005	low grade		☐	☐	☐
37.26	38.93	1.67	QFP	1.40	84	W603910	☐	19-005	low grade		☐	☐	☐
38.93	40.44	1.51	GRD	1.50	99	W603912	☐	19-005	low grade		☐	☐	☐
40.44	41.80	1.36	GRD	1.35	99	W603913	☐	19-007	low grade		☐	☐	☐
41.80	42.67	0.87	GRD	0.82	94	W603914	☐	19-007	low grade		☐	☐	☐
42.67	44.00	1.33	GRD	1.33	100	W603915	☐	19-007	low grade		☐	☐	☐
44.00	45.06	1.06	GRD	0.84	79	W603916	☐	19-007	low grade		☐	☐	☐
45.06	46.14	1.08	VEN, GRD	1.05	97	W603917	☐	19-007	low grade		☐	☐	☐
45.06	46.14	1.08	VEN, GRD	1.05	97	W603918	☐	19-007	low grade		☐	☑	☐
46.14	47.23	1.09	VEN, GRD	1.00	92	W603919	☐	19-007	low grade		☐	☐	☐
47.23	48.20	0.97	GRD	0.92	95	W603920	☐	19-007	low grade		☐	☐	☐
48.20	49.16	0.96	GRD	0.93	97	W603921	☐	19-007	low grade		☐	☐	☐
49.16	50.45	1.29	GRD	0.98	76	W603922	☐	19-007	low grade		☐	☐	☐
50.45	51.90	1.45	GRD	1.40	97	W603923	☐	19-007	low grade		☐	☐	☐
51.90	52.88	0.98	GRD	0.95	97	W603924	☐	19-007	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
52.88	54.12	1.24	GRD	1.17	94	W603925	☐	19-007	low grade		☐	☐	☐
54.12	54.72	0.60	GRD	0.55	92	W603927	☐	19-007	low grade		☐	☐	☐
54.72	55.80	1.08	GRD	1.05	97	W603928	☐	19-007	low grade		☐	☐	☐
55.80	57.00	1.20	GRD	1.18	98	W603929	☐	19-007	low grade		☐	☐	☐
55.80	57.00	1.20	GRD	1.18	98	W603930	☐	19-007	low grade		☐	☐	☑
57.00	58.15	1.15	GRD	1.11	97	W603931	☐	19-007	low grade		☐	☐	☐
58.15	59.27	1.12	GRD	1.10	98	W603932	☐	19-007	low grade		☐	☐	☐
59.27	59.83	0.56	GRD	0.56	100	W603933	☐	19-007	low grade		☐	☐	☐
59.83	60.18	0.35	GRD	0.34	97	W603934	☐	19-007	low grade		☐	☐	☐
60.18	60.81	0.63	GRD	0.57	90	W603935	☐	19-007	low grade		☐	☐	☐
60.81	62.11	1.30	GRD	1.27	98	W603936	☐	19-007	low grade		☐	☐	☐
62.11	62.70	0.59	GRD	0.57	97	W603937	☐	19-007	low grade		☐	☐	☐
62.70	64.22	1.52	GRD	1.35	89	W603939	☐	19-007	low grade		☐	☐	☐
64.22	65.00	0.78	GRD	0.77	99	W603940	☐	19-007	low grade		☐	☐	☐
65.00	66.16	1.16	GRD	1.12	97	W603941	☐	19-007	low grade		☐	☐	☐
66.16	67.20	1.04	GRD	1.03	99	W603942	☐	19-007	low grade		☐	☐	☐
67.20	68.14	0.94	GRD	0.90	96	W603943	☐	19-007	low grade		☐	☐	☐
68.14	68.67	0.53	GRD	0.53	100	W603944	☐	19-007	low grade		☐	☐	☐
68.67	69.22	0.55	GRD	0.52	95	W603945	☐	19-007	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
69.22	69.56	0.34	GRD	0.30	88	W603946	☐	19-007	low grade		☐	☐	☐
69.56	70.34	0.78	GRD	0.76	97	W603947	☐	19-007	low grade		☐	☐	☐
70.34	71.22	0.88	GRD	0.86	98	W603949	☐	19-007	low grade		☐	☐	☐
71.22	71.58	0.36	GRD	0.35	97	W603950	☐	19-007	low grade		☐	☐	☐
71.58	72.16	0.58	GRD	0.54	93	W603951	☐	19-007	low grade		☐	☐	☐
72.16	73.44	1.28	GRD	1.10	86	W603952	☐	19-007	low grade		☐	☐	☐
73.44	74.64	1.20	GRD	1.15	96	W603953	☐	19-008	low grade		☐	☐	☐
74.64	76.00	1.36	GRD	1.21	89	W603954	☐	19-008	low grade		☐	☐	☐
76.00	76.93	0.93	GRD, GRD	0.91	98	W603955	☐	19-008	low grade		☐	☐	☐
76.93	77.32	0.39	GRD	0.38	97	W603956	☐	19-008	low grade		☐	☐	☐
77.32	77.74	0.42	GRD	0.36	86	W603957	☐	19-008	low grade		☐	☐	☐
77.74	78.83	1.09	GRD	1.07	98	W603958	☐	19-008	low grade		☐	☐	☐
78.83	79.90	1.07	GRD	1.00	93	W603959	☐	19-008	low grade		☐	☐	☐
79.90	80.38	0.48	GRD	0.47	98	W603960	☐	19-008	low grade		☐	☐	☐
80.38	81.23	0.85	GRD	0.80	94	W603961	☐	19-008	low grade		☐	☐	☐
80.38	81.23	0.85	GRD	0.80	94	W603962	☐	19-008	low grade		☐	☑	☐
81.23	81.88	0.65	GRD	0.57	88	W603963	☐	19-008	low grade		☐	☐	☐
81.88	82.40	0.52	GRD	0.52	100	W603965	☐	19-008	low grade		☐	☐	☐
82.40	83.12	0.72	GRD	0.70	97	W603966	☐	19-008	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
83.12	84.12	1.00	GRD	1.00	100	W603967	☐	19-008	low grade		☐	☐	☐
84.12	84.51	0.39	GRD	0.38	97	W603968	☐	19-008	low grade		☐	☐	☐
84.51	86.00	1.49	GRD	1.29	87	W603969	☐	19-008	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W603970	☐	19-008	low grade		☐	☐	☐
87.50	88.00	0.50	GRD	0.50	100	W603971	☐	19-008	low grade		☐	☐	☐
88.00	88.80	0.80	GRD	0.80	100	W603972	☐	19-008	low grade		☐	☐	☐
88.80	89.63	0.83	GRD	0.80	96	W604016	☐	19-009	low grade		☐	☐	☐
89.63	90.12	0.49	GRD	0.48	98	W603973	☐	19-008	low grade		☐	☐	☐
90.12	90.91	0.79	GRD	0.79	100	W603974	☐	19-008	low grade		☐	☐	☐
90.91	91.57	0.66	GRD	0.66	100	W603975	☐	19-008	low grade		☐	☐	☐
91.57	92.60	1.03	GRD	1.03	100	W603976	☐	19-008	low grade		☐	☐	☐
92.60	93.57	0.97	GRD	0.97	100	W603977	☐	19-008	low grade		☐	☐	☐
93.57	94.50	0.93	GRD	0.93	100	W603978	☐	19-008	low grade		☐	☐	☐
94.50	96.00	1.50	GRD	1.40	93	W603979	☐	19-008	low grade		☐	☐	☐
96.00	97.10	1.10	GRD	1.10	100	W603981	☐	19-008	low grade		☐	☐	☐
97.10	98.25	1.15	GRD	1.15	100	W603982	☐	19-008	low grade		☐	☐	☐
98.25	98.70	0.45	GRD	0.45	100	W603983	☐	19-008	low grade		☐	☐	☐
98.70	99.68	0.98	GRD	0.98	100	W603984	☐	19-008	low grade		☐	☐	☐
99.68	100.68	1.00	GRD	1.00	100	W603985	☐	19-008	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
100.68	101.61	0.93	GRD	0.91	98	W603986	☐	19-008	low grade		☐	☐	☐
101.61	102.68	1.07	GRD	1.07	100	W603987	☐	19-008	low grade		☐	☐	☐
102.68	103.12	0.44	GRD	0.39	89	W603989	☐	19-008	low grade		☐	☐	☐
103.12	103.85	0.73	GRD	0.70	96	W603990	☐	19-008	low grade		☐	☐	☐
103.85	104.87	1.02	GRD	1.00	98	W603991	☐	19-008	low grade		☐	☐	☐
103.85	104.87	1.02	GRD	1.00	98	W603992	☐	19-008	low grade		☐	☐	☑
104.87	106.30	1.43	GRD	1.30	91	W603993	☐	19-009	low grade		☐	☐	☐
106.30	107.41	1.11	GRD, GRD	1.10	99	W603994	☐	19-009	low grade		☐	☐	☐
107.41	109.00	1.59	GRD, GRD	1.50	94	W603995	☐	19-009	low grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.45	97	W603996	☐	19-009	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.45	97	W603997	☐	19-009	low grade		☐	☐	☐
112.00	112.90	0.90	GRD	0.80	89	W603998	☐	19-009	low grade		☐	☐	☐
112.90	113.37	0.47	APL, GRD	0.43	91	W603999	☐	19-009	low grade		☐	☐	☐
113.37	113.76	0.39	GRD	0.38	97	W604000	☐	19-009	low grade		☐	☐	☐
113.37	113.76	0.39	GRD	0.38	97	W604001	☐	19-009	low grade		☐	☑	☐
113.76	114.30	0.54	GRD	0.50	93	W604002	☐	19-009	low grade		☐	☐	☐
114.30	115.00	0.70	GRD	0.70	100	W604003	☐	19-009	low grade		☐	☐	☐
115.00	116.30	1.30	GRD	0.80	62	W604004	☐	19-009	low grade		☐	☐	☐
116.30	117.15	0.85	GRD	0.85	100	W604005	☐	19-009	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
117.15	118.37	1.22	GRD	0.87	71	W604006	☐	19-009	low grade		☐	☐	☐
118.37	119.86	1.49	GRD	1.45	97	W604007	☐	19-009	low grade		☐	☐	☐
119.86	120.35	0.49	GRD	0.46	94	W604008	☐	19-009	low grade		☐	☐	☐
120.35	121.20	0.85	GRD	0.82	96	W604009	☐	19-009	low grade		☐	☐	☐
121.20	121.70	0.50	GRD	0.50	100	W604010	☐	19-009	low grade		☐	☐	☐
121.70	122.70	1.00	GRD	0.98	98	W604011	☐	19-009	low grade		☐	☐	☐
122.70	123.28	0.58	GRD	0.57	98	W604012	☐	19-009	low grade		☐	☐	☐
123.28	124.30	1.02	GRD	0.98	96	W604013	☐	19-009	low grade		☐	☐	☐
124.30	125.00	0.70	GRD	0.70	100	W604014	☐	19-009	low grade		☐	☐	☐
125.00	126.49	1.49	GRD	1.45	97	W604015	☐	19-009	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	1.50			☐	☐	☐	☐	
19-007	W603926	0.00	0.00	0.28	440	☐	☐	☐	☑ ME-6	STD CDM ME 6
19-007	W603938	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-007	W603948	0.00	0.00	1.81	140	☐	☐	☐	☑ KL-STD6	STD KL6
19-008	W603964	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-008	W603980	0.00	0.00	0.25	380	☐	☐	☐	☑ ME-6	standard ME-6
19-008	W603988	0.00	0.00	0.27	440	☐	☐	☐	☑ ME-6	standard me-6
19-005	W603891	0.00	0.00	1.67	390	☐	☐	☐	☑ KL-STD6	STD KLAZA 6
19-005	W603899	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-005	W603911	0.00	0.00	0.26	590	☐	☐	☐	☑ ME-6	STD CDM ME 6
19-001	W603876	1.50	3.00	0.02	2440	☐	☐	☐	☐	
19-003	W603877	3.00	4.50	0.02	2310	☐	☐	☐	☐	
19-005	W603878	4.50	6.00	0.05	4800	☐	☐	☐	☐	
19-005	W603879	6.00	7.50	0.02	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-005	W603880	7.50	9.00	0.03	2460	☐	☐	☐	☐	
19-005	W603881	9.00	10.50	0.07	2660	☐	☐	☐	☐	
19-005	W603882	10.50	12.00	0.04	2890	☐	☐	☐	☐	
19-005	W603883	12.00	13.50	0.02	4880	☐	☐	☐	☐	
19-005	W603884	13.50	15.00	0.02	2980	☐	☐	☐	☐	
19-005	W603885	15.00	16.50	0.01	2460	☐	☐	☐	☐	
19-005	W603886	16.50	18.00	0.06	2200	☐	☐	☐	☐	
19-005	W603887	18.00	19.50	0.02	2560	☐	☐	☐	☐	
19-005	W603888	19.50	21.00	0.01	2410	☐	☐	☐	☐	
19-005	W603889	21.00	22.50	0.07	2000	☐	☐	☐	☐	
19-005	W603890	22.50	24.00	0.01	2780	☐	☐	☐	☐	
19-005	W603892	24.00	25.50	0.04	1830	☐	☐	☐	☐	
19-005	W603893	25.50	26.56	0.33	1570	☐	☐	☐	☐	
19-005	W603894	26.56	27.77	0.01	1040	☐	☐	☐	☐	
19-005	W603895	27.77	28.86	0.00	1930	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-005	W603896	28.86	29.86	0.01	1190	☐	☐	☐	☐	
19-005	W603897	29.86	30.52	0.44	330	☐	☐	☐	☐	
19-005	W603898	30.52	31.07	1.81	50	☐	☐	☐	☐	
19-005	W603900	31.07	31.45	0.05	860	☐	☐	☐	☐	
19-005	W603901	31.45	32.29	0.00	920	☐	☐	☐	☐	
19-005	W603902	32.29	33.12	0.00	1020	☐	☐	☐	☐	
19-005	W603903	33.12	33.75	1.70	80	☐	☐	☐	☐	
19-005	W603904	33.12	33.75	1.67	70	☐	☑	☐	☐	COARSE REJECT
19-005	W603905	33.75	34.78	0.09	640	☐	☐	☐	☐	
19-005	W603906	34.78	35.53	0.14	500	☐	☐	☐	☐	
19-005	W603907	34.78	35.53	0.09	460	☑	☐	☐	☐	1/4 DUP
19-005	W603908	35.53	36.48	0.11	990	☐	☐	☐	☐	
19-005	W603909	36.48	37.26	0.48	1810	☐	☐	☐	☐	
19-005	W603910	37.26	38.93	0.14	1170	☐	☐	☐	☐	
19-005	W603912	38.93	40.44	0.03	2140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-007	W603913	40.44	41.80	0.30	470	☐	☐	☐	☐	
19-007	W603914	41.80	42.67	0.03	1350	☐	☐	☐	☐	
19-007	W603915	42.67	44.00	0.06	2090	☐	☐	☐	☐	
19-007	W603916	44.00	45.06	0.06	1230	☐	☐	☐	☐	
19-007	W603917	45.06	46.14	0.46	390	☐	☐	☐	☐	
19-007	W603918	45.06	46.14	0.37	370	☑	☐	☐	☐	1/4 dup
19-007	W603919	46.14	47.23	0.03	1780	☐	☐	☐	☐	
19-007	W603920	47.23	48.20	0.02	1840	☐	☐	☐	☐	
19-007	W603921	48.20	49.16	0.08	450	☐	☐	☐	☐	
19-007	W603922	49.16	50.45	0.02	1920	☐	☐	☐	☐	
19-007	W603923	50.45	51.90	0.01	1910	☐	☐	☐	☐	
19-007	W603924	51.90	52.88	0.03	1020	☐	☐	☐	☐	
19-007	W603925	52.88	54.12	0.13	310	☐	☐	☐	☐	
19-007	W603927	54.12	54.72	0.03	1890	☐	☐	☐	☐	
19-007	W603928	54.72	55.80	0.02	2530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-007	W603929	55.80	57.00	0.02	2320	☐	☐	☐	☐	
19-007	W603930	55.80	57.00	0.02	2290	☐	☑	☐	☐	coarse reject
19-007	W603931	57.00	58.15	0.01	2420	☐	☐	☐	☐	
19-007	W603932	58.15	59.27	0.69	400	☐	☐	☐	☐	
19-007	W603933	59.27	59.83	0.02	2640	☐	☐	☐	☐	
19-007	W603934	59.83	60.18	0.13	1060	☐	☐	☐	☐	
19-007	W603935	60.18	60.81	0.02	2450	☐	☐	☐	☐	
19-007	W603936	60.81	62.11	0.07	1980	☐	☐	☐	☐	
19-007	W603937	62.11	62.70	0.84	390	☐	☐	☐	☐	
19-007	W603939	62.70	64.22	0.04	1780	☐	☐	☐	☐	
19-007	W603940	64.22	65.00	1.11	460	☐	☐	☐	☐	
19-007	W603941	65.00	66.16	0.02	2190	☐	☐	☐	☐	
19-007	W603942	66.16	67.20	0.02	2770	☐	☐	☐	☐	
19-007	W603943	67.20	68.14	0.01	2410	☐	☐	☐	☐	
19-007	W603944	68.14	68.67	0.05	1850	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-007	W603945	68.67	69.22	0.01	2650	☐	☐	☐	☐	
19-007	W603946	69.22	69.56	0.04	460	☐	☐	☐	☐	
19-007	W603947	69.56	70.34	0.02	2600	☐	☐	☐	☐	
19-007	W603949	70.34	71.22	0.03	2520	☐	☐	☐	☐	
19-007	W603950	71.22	71.58	0.09	420	☐	☐	☐	☐	
19-007	W603951	71.58	72.16	0.01	2640	☐	☐	☐	☐	
19-007	W603952	72.16	73.44	0.03	2300	☐	☐	☐	☐	
19-008	W603953	73.44	74.64	0.03	2900	☐	☐	☐	☐	
19-008	W603954	74.64	76.00	0.01	2600	☐	☐	☐	☐	
19-008	W603955	76.00	76.93	0.08	790	☐	☐	☐	☐	
19-008	W603956	76.93	77.32	0.64	170	☐	☐	☐	☐	
19-008	W603957	77.32	77.74	0.04	530	☐	☐	☐	☐	
19-008	W603958	77.74	78.83	0.03	1560	☐	☐	☐	☐	
19-008	W603959	78.83	79.90	0.02	1610	☐	☐	☐	☐	
19-008	W603960	79.90	80.38	0.39	130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-008	W603961	80.38	81.23	0.27	120	☐	☐	☐	☐	
19-008	W603962	80.38	81.23	0.19	100	☑	☐	☐	☐	1/4 duplicate
19-008	W603963	81.23	81.88	0.83	110	☐	☐	☐	☐	
19-008	W603965	81.88	82.40	0.15	110	☐	☐	☐	☐	
19-008	W603966	82.40	83.12	0.04	1880	☐	☐	☐	☐	
19-008	W603967	83.12	84.12	0.04	2900	☐	☐	☐	☐	
19-008	W603968	84.12	84.51	0.04	920	☐	☐	☐	☐	
19-008	W603969	84.51	86.00	0.02	1980	☐	☐	☐	☐	
19-008	W603970	86.00	87.50	0.02	1590	☐	☐	☐	☐	
19-008	W603971	87.50	88.00	0.01	2490	☐	☐	☐	☐	
19-008	W603972	88.00	88.80	0.25	240	☐	☐	☐	☐	
19-009	W604016	88.80	89.63	0.04	530	☐	☐	☐	☐	
19-008	W603973	89.63	90.12	0.08	460	☐	☐	☐	☐	
19-008	W603974	90.12	90.91	0.26	470	☐	☐	☐	☐	
19-008	W603975	90.91	91.57	0.09	1580	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-008	W603976	91.57	92.60	0.04	2130	☐	☐	☐	☐	
19-008	W603977	92.60	93.57	0.33	2770	☐	☐	☐	☐	
19-008	W603978	93.57	94.50	0.02	2270	☐	☐	☐	☐	
19-008	W603979	94.50	96.00	0.02	2240	☐	☐	☐	☐	
19-008	W603981	96.00	97.10	0.12	330	☐	☐	☐	☐	
19-008	W603982	97.10	98.25	0.03	1520	☐	☐	☐	☐	
19-008	W603983	98.25	98.70	0.02	620	☐	☐	☐	☐	
19-008	W603984	98.70	99.68	0.07	480	☐	☐	☐	☐	
19-008	W603985	99.68	100.68	0.04	1560	☐	☐	☐	☐	
19-008	W603986	100.68	101.61	0.02	2530	☐	☐	☐	☐	
19-008	W603987	101.61	102.68	0.02	2300	☐	☐	☐	☐	
19-008	W603989	102.68	103.12	3.36	480	☐	☐	☐	☐	
19-008	W603990	103.12	103.85	0.16	610	☐	☐	☐	☐	
19-008	W603991	103.85	104.87	0.02	2980	☐	☐	☐	☐	
19-008	W603992	103.85	104.87	0.03	3070	☐	☑	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-009	W603993	104.87	106.30	0.02	2600	☐	☐	☐	☐	
19-009	W603994	106.30	107.41	0.05	2460	☐	☐	☐	☐	
19-009	W603995	107.41	109.00	0.02	2110	☐	☐	☐	☐	
19-009	W603996	109.00	110.50	0.01	2290	☐	☐	☐	☐	
19-009	W603997	110.50	112.00	0.01	1960	☐	☐	☐	☐	
19-009	W603998	112.00	112.90	0.01	1500	☐	☐	☐	☐	
19-009	W603999	112.90	113.37	0.07	1560	☐	☐	☐	☐	
19-009	W604000	113.37	113.76	0.11	570	☐	☐	☐	☐	
19-009	W604001	113.37	113.76	0.13	750	☑	☐	☐	☐	1/4 duplicate
19-009	W604002	113.76	114.30	0.02	1830	☐	☐	☐	☐	
19-009	W604003	114.30	115.00	0.01	2130	☐	☐	☐	☐	
19-009	W604004	115.00	116.30	0.00	1950	☐	☐	☐	☐	
19-009	W604005	116.30	117.15	0.00	2220	☐	☐	☐	☐	
19-009	W604006	117.15	118.37	0.02	2140	☐	☐	☐	☐	
19-009	W604007	118.37	119.86	0.00	2220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-009	W604008	119.86	120.35	0.17	420	☐	☐	☐	☐	
19-009	W604009	120.35	121.20	0.27	430	☐	☐	☐	☐	
19-009	W604010	121.20	121.70	0.16	380	☐	☐	☐	☐	
19-009	W604011	121.70	122.70	0.13	660	☐	☐	☐	☐	
19-009	W604012	122.70	123.28	0.79	380	☐	☐	☐	☐	
19-009	W604013	123.28	124.30	0.01	1710	☐	☐	☐	☐	
19-009	W604014	124.30	125.00	0.00	2190	☐	☐	☐	☐	
19-009	W604015	125.00	126.49	0.00	2260	☐	☐	☐	☐	

KL -19-437

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
90.73	90.75	VN	37	90	NUL	1	1 cm wide pyrite bearing quartz vein			
								Py	3	DI
91.13	91.28	VN	37	80	NUL	2	1 cm wide pyrite bearing quartz vein, adjacent to it is 1 mm wide pyrite bearing quartz vein			
								Py	3	DI
112.15	112.21	DY	37	45	NUL	1	4 cm wide medium pink finegrained aplite dyke			
112.61	112.95	DY	37	25	NUL	1	hi angle fine grained pink aplite dyke			
113.37	113.52	VN	37	60	NUL	1	15 cm wide zone of silica flooding, with a higher proportion of dissem PY along this interval. Weak to moderate argillic and propylitic alteration envelope bounding 10 cm on both sides of SIL flooded zone.			
								Py	0.5	DI
118.17	118.20	VN	37	70	NUL	1	2 cm wide polymetallic quartz vein with disseminated blebby pyrite, trace chalcopyrite, galena, and sphalerite. Propylitic alteration envelopes vein on either side for roughly 10 cm.			
								Py	1	DI
								Sp	0.5	DI
								Gn	0.5	DI
								Cp	0.5	DI
122.70	122.79	VN	37	60	NUL	1	1 2 cm-wide pyrite bearing quartz vein			
								Py	4	DI
123.16	123.20	VN	37	70	NUL	1	1 3-cm wide pyrite bearing quartz vein with minor rhodochrosite developed along lower vein margin			
								Py	2	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382843	6889290	1461.895	126.49

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-438

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 4.57m, Out

Drilling Dates: Sep 08 - Sep 08, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
6	34.76	-48.3	Reflex
126	35.86	-48.3	Reflex

TARGET: Resource infill drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	7.04	5.52	GRD
7.04	8.3	1.26	GRD
8.3	9.05	0.75	GRD
9.05	10.13	1.08	GRD
10.13	11.8	1.67	GRD
11.8	12.9	1.1	GRD
12.9	14.07	1.17	GRD
14.07	15.65	1.58	GRD
15.65	16.53	0.88	GRD
16.53	16.97	0.44	GRD
16.97	17.3	0.33	VEN
17.3	18.1	0.8	GRD
18.1	19.3	1.2	GRD
19.3	19.62	0.32	GRD
19.62	19.82	0.2	GRD

SAMPLES	
Numbers:	W599151 to W599152, W604017 to W604151
Total:	137
Batch:	006, 009, 011, 012, 013
Certificates:	WH19233885, WH19233895, WH19235032, WH19235045, WH19250393

COMMENTS

19.82	20.43	0.61	GRD
20.43	21.04	0.61	GRD
21.04	21.42	0.38	GRD
21.42	21.81	0.39	GRD
21.81	23	1.19	GRD
23	23.1	0.1	VEN
23.1	24.5	1.4	GRD
24.5	25.2	0.7	GRD
25.2	28.57	3.37	GRD
28.57	28.8	0.23	GRD
28.8	29.1	0.3	VEN
29.1	31.23	2.13	GRD
31.23	31.53	0.3	GRD
31.53	31.84	0.31	GRD
31.84	32.25	0.41	GRD
32.25	32.8	0.55	GRD
32.8	33.4	0.6	GRD
33.4	35.52	2.12	GRD
35.52	40.62	5.1	GRD
40.62	41	0.38	GRD
41	43	2	GRD
43	44.2	1.2	GRD
44.2	45.45	1.25	GRD
45.45	46	0.55	GRD
46	47.24	1.24	GRD
47.24	50	2.76	GRD
50	50.5	0.5	GRD
50.5	51.5	1	GRD
51.5	51.82	0.32	GRD
51.82	52.5	0.68	GRD
52.5	54	1.5	GRD
54	57	3	GRD

57	58.45	1.45	GRD
58.45	61.5	3.05	GRD
61.5	63.46	1.96	GRD
63.46	64.82	1.36	GRD
64.82	72	7.18	GRD
72	74	2	GRD
74	76.16	2.16	GRD
76.16	77.23	1.07	GRD
77.23	77.53	0.3	VEN
77.53	78.25	0.72	GRD
78.25	93.54	15.29	GRD
93.54	95.72	2.18	GRD
95.72	102.08	6.36	GRD
102.08	102.62	0.54	GRD
102.62	106.6	3.98	GRD
106.6	106.92	0.32	GRD
106.92	108	1.08	GRD
108	108.35	0.35	VEN
108.35	109.43	1.08	GRD
109.43	109.94	0.51	GRD
109.94	111.6	1.66	GRD
111.6	111.92	0.32	VEN
111.92	118.5	6.58	GRD
118.5	126.49	7.99	GRD

Box Log

KL -19-438

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.52	5.82
2	5.82	9.49
3	9.49	13.06
4	13.06	16.76
5	16.76	20.56
6	20.56	24.38
7	24.38	28.23
8	28.23	31.56
9	31.56	35.32
10	35.32	39.27
11	39.27	43.1
12	43.1	46.7
13	46.7	50.65
14	50.65	54.21
15	54.21	58.55
16	58.55	62.57
17	62.57	67
18	67	71.24
19	71.24	75.22
20	75.22	79.6
21	79.6	83.99
22	83.99	88.39
23	88.39	92.83
24	92.83	97.25
25	97.25	101.72
26	101.72	106.12
27	106.12	110.21
28	110.21	114.13
29	114.13	118.23
30	118.23	122

Box Number	From (m)	To (m)
31	122	126.49

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-438									
	11.95	14	NTW	GRD	977.6	639.2	2.47	2.9	
	16.76	14	NTW	GRD	943.9	605.8	2.38	2.8	
	49.83	13	NTW	GRD	824.6	546.8	2.24	3.0	
	111.72	24	NTW	VEN	1683.4	1160.8	2.48	3.2	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	2.50	0.98	GRD	MG	relatively competent granodiorite; unaltered							
						MD	GY					
2.50	4.57	2.07	GRD	MG	heavily fractured, rubbly, fault gouge granodiorite; completely altered to clay minerals							
						MD	GY		CLY	5I		
						LT	GN					
						LT	GY					
4.57	6.50	1.93	GRD	MG	strongly clay altered granodiorite, completely altered to clays from faulting							
						MD	GY					
						LT	GY		CLY	5I		
6.50	7.04	0.54	GRD	MG	semi-competent clay altered fault gouged granodiorite							
						MD	GY					
						LT	BR		CLY	4I		
7.04	8.30	1.26	GRD	MG	medium grained, medium grey to light grey granodiorite. Lightly clay altered and lightly brecciated							
						MD	GY					
						LT	GY		CLY	4I		
8.30	9.05	0.75	GRD	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization							
						MD	GY					
						LT	GY		CLY	3I		
						LT	BN					
9.05	10.13	1.08	GRD	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization. Semi-competent, weaker clay alteration							
						MD	GY		CLY	1I		
						LT	GY					
10.13	11.80	1.67	GRD	MG	medium grained, heavily clay altered, faulted, heavily fractured granodiorite.							
						MD	BN					
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		CLY	4I		
11.80	12.90	1.10	GRD	MG	light to medium grey granodiorite, relatively unaltered and competent. Three weak 1 mm scale carbonate veinlets run throughout granodiorite.							
						MD	GY					
						LT	GY					
12.90	14.07	1.17	GRD	MG	light grey to medium grey, trace light green to pink, weak argillic altered granodiorite with a weak propylitic overprint. Trace mm scale carbonate stringer veinlets occur throughout interval.							
						MD	GY		PRO	2I		
						LT	GY		ARG	2I		
14.07	15.00	0.93	GRD	MG	subcompetent, fractured, weakly arg altered and weakly oxidized granodiorite with minor carbonate veinlets (<1mm) on fracture surfaces.							
						MD	GY					
						LT	BN					
						LT	GY		CLY	2I		
15.00	15.65	0.65	GRD	MG	heavily clay altered, fault gouged, medium grey to brown granodiorite with carbonate on fracture surfaces.							
						MD	GY		CLY	4I		
						LT	BN					
						LT	GY					
15.65	16.53	0.88	GRD	MG	medium grained, grey to light greyish green, relatively unaltered granodiorite with minor sub-mm carbonate stringer veinlets dispersed throughout interval.							
						MD	GY					
						LT	GY		OXI	1I		
						LT	GN					
16.53	16.97	0.44	GRD	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite							
						MD	BN		CLY	3I		
						LT	TN					
						LT	BN		OXI	4I		
16.97	17.14	0.17	VEN	FG	hevaily clay altered, gouged material above galena/pyrite+- cp vein. Completely altered and oxidized to clay minerals							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		CLY	5I	Py	3
						LT	BN					
17.14	17.30	0.16	VEN	FG	galena, pyrite +- chalcopyrite bearing, oxidized, clay altered quartz vein (possibly fault-hosted?) Vein contains subhedral galena intercalated with subhedral pyrite, blebby, up to 0.5 cm by 0.5 cm, trending in a vein set that is 60 ACTA. Intense clay alteration on either side of the vein. Clay minerals contain large amounts of liberated pyrite that are intermingled with the clay minerals. These were likely pyrite hosted in granodiorite that have since been incorporated into the clays during hydrothermal alteration							
						MD	BN		CLY	4I	Gn	5
						MD	GY				Cp	1
						LT	BN				Py	5
17.30	18.10	0.80	GRD	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite. Small pyrite-bearing quratz vein 1 cm wide is in this interval							
						MD	TN		OXI	3I		
						LT	GY		CLY	2I	Py	2
						LT	BN					
18.10	19.30	1.20	GRD	MG	medium grained, light brown to brownish grey, fractured granodiorite with small intevals of intense clay alteration							
						MD	GY					
						LT	GY		CLY	3I	Py	0.1
						LT	BN					
19.30	19.62	0.32	GRD	MG	unaltered granodiorite, minor carbonate stringer veinlets throughout							
						MD	GY					
19.62	19.82	0.20	GRD	MG	faulted, heavily fractured, rubbly granodiorite, orange to bron. Completely clay altered							
						LT	BN		CLY	5I		
						LT	GY					
19.82	20.43	0.61	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
20.43	21.04	0.61	GRD	MG	faulted, heavily fractured granodiorite with limonite alteration on fracture surfaces.							
						LT	GY					
						LT	BN		CLY	2I		
21.04	21.42	0.38	GRD	MG	unaltered granodiorite							
						MD	GY					
21.42	21.81	0.39	GRD	MG	medium grained, light grey to brownish grey, clay altered, weakly brecciated granodiorite, moderately oxidized. Potentially fault hosted.							
						LT	BN		CLY	4I		
						LT	GY		ARG	2I		
21.81	23.00	1.19	GRD	MG	mdium grained, light grey to brownish grey to tan granodiorite, variably altered with sections of more intense bleaching and oxidation, and sections of more fracture-hosted discrete clay alteration. Inensity of bleaching and oxidation increases as you move deeper in the section, eventually grading into a small oxidized patch at the bottom of the interval. Immediately following, you have a small sulphide veinlet zone, described in the next section.							
						MD	GY					
						LT	BN		CLY	2I		
						LT	GY		OXI	2I		
23.00	23.10	0.10	VEN	FG	silicified section of granodiorite. Not quite a vein, gradational on either side, but in the centre of the interval is a 3cm wide heavily siliceous zone that hosts disseminated pyrite +- galena (or a fine-grained greyish black sooty mineral).							
						LT	GY		SIL	3I	Py	3
											Gn	1
									PRO	3I	Un	0.1
23.10	24.50	1.40	GRD	MG	medium grained, whitish grey to medium grey, argillic altered granodiorite with minor zones of complete clay alteration and heavy fracturing (faults?)							
						MD	GY					
						LT	GY		ARG	2I		
						LT	GN					
24.50	25.20	0.70	GRD	MG	unaltered granodiorite with weak mm wide carbonate stringer veinlets throughout							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.20	26.00	0.80	GRD	MG	weakly arg altered granodiorite							
						MD	GY					
						LT	GY		ARG	2I		
26.00	28.57	2.57	GRD	MG	faulted, completely clay altered granodiorite							
						LT	GY		CLY	4I		
						LT	BN		OXI	3I		
28.57	28.80	0.23	GRD	MG	orangeish brown, heavily oxidized and clay altered granodiorite with complete clay alteration of feldspar.							
						LT	BN		OXI	3I		
						LT	TN		ARG	4I		
									BLE	2I		
28.80	29.10	0.30	VEN	MG	pyrite bearing, clay altered, quartz vein breccia with patch blebs of disseminated pyrite throghout. When rock is competent, it is heavily clay altered. Section is mostly rubbly, with intense whitish clay alteration +- quartz +- pyrite found throughout. Sericite alteration present in host rock							
						LT	GY		SER	5I	Py	3
						LT	WH		CLY	3I	Py	3
29.10	29.50	0.40	GRD	MG	heavily fractured, clay altered, bleached granodiorite. Very rubbly section, likely a fault related to mineralization above							
						LT	BN		BLE	2I		
						LT	GY		CLY	3I		
									OXI	2I		
29.50	31.23	1.73	GRD	MG	fractured, rubbly granodiorite. Possibly faulted							
31.23	31.53	0.30	GRD	MG	bleached, clay altered granodiorite, whitish brown to tan brown. Semi competent							
						MD	TN		CLY	2I		
						LT	BN		OXI	3I		
									BLE	3I		
31.53	31.84	0.31	GRD	MG	relatively unaltered granodiorite. Weak carbonate stringers throughout (mm-scale)							
						MD	GY					
31.84	32.25	0.41	GRD	MG	faulted, oxidized grd with minor pyrite stringer veinlets (mm-scale) throughout. I							
						LT	TN		CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		BLE	2I	Py	1
									OXI	2I		
32.25	32.80	0.55	GRD	MG	vein breccia developed within faulted interval of granodiorite. Clay altered and bleached and oxidized, with blebby patches of pyrite alteration. Weakly brecciated section related to faulting.							
						LT	TN		OXI	2I	Py	3
						LT	BN		CLY	4I		
32.80	33.40	0.60	GRD	MG	clay altered granodiorite underneath vein breccia. Likely a fault breccia							
						LT	TN		BLE	2I	Py	0.1
						LT	BN		CLY	4I		
									OXI	3I		
33.40	33.70	0.30	GRD	MG	bleached altered granodiorite with weak pyrite stringers (set of 3) in interval							
						MD	GY					
						LT	GY		ARG	3I		
						LT	BN		OXI	2I	Py	0.2
33.70	34.30	0.60	GRD	MG	weakly silicified relatively unaltered granodiorite							
						MD	GY		SIL	1I		
34.30	34.80	0.50	GRD	MG	PRO and clay altered granodiorite, bleached and oxidized							
						LT	BN		PRO	3I		
						LT	TN		CLY	3I		
									ARG	3I		
34.80	35.00	0.20	GRD	MG	faulted granodiorite, heavily clay altered and rubblt							
						MD	GY		CLY	4I		
35.00	35.52	0.52	GRD	MG	relatively unaltered granodiorite with minor disseminated pyrite throughout and rare mm scale carbonate stringers							
						MD	GY				Py	0.1
35.52	36.90	1.38	GRD	MG	bleached, argillic altered grd with a propylitic overprint. Patchy oxidative staining on fresh surface. Moderate clay alteration confined to fracture surfaces, potentially related to faulting.							
						MD	GY		PRO	2I		
						MD	TN		CLY	2I		
						MD	BN		ARG	3I		
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.90	37.90	1.00	GRD	MG	patchy OX stained granodiorite, variably silcified, with a weak propylitic overprint of argillic alteration							
						MD	BN		OXI	3I		
						LT	TN		PRO	2I	Py	0.1
									ARG	2I		
									CLY	1I		
37.90	39.27	1.37	GRD	MG	bleached, oxidized, clay altered, competent granodiorite. Weakly fractured and weak clay alteration							
						LT	BN		BLE	1I		
						LT	TN		OXI	1I		
									CLY	1I		
39.27	39.62	0.35	GRD	MG	heavily clay altered granodiorite, higher density of fractures, possibly fualted							
						LT	BN		ARG	3I		
						LT	GN		PRO	3I		
						LT	GY		CLY	3I		
39.62	40.62	1.00	GRD	MG	brown to light greyish green, altered grd. Semicompetent and weak pro overprint of argillic alteration							
						LT	BN		PRO	3I		
						LT	GY		ARG	3I		
						LT	GN					
40.62	40.72	0.10	GRD	MG	propylitic altered granodiorite							
						MD	GY		PRO	2I		
						LT	GN		ARG	1I		
40.72	40.82	0.10	GRD	MG	propylitic altered grd being overprinted by phyllic alteration, related to a small 2cm wide pyrite bearing quartz vein with sooty grey, hematite stained grunge on ein margin.							
						MD	GY					
						LT	WH		PRO	2I	Py	2
						LT	RD		PHC	3I	He	2
40.82	41.00	0.18	GRD	MG	apropylitic altered granodiorite with weak mm scale pyrite stringers							
						LT	GY		PRO	2I	Py	0.5
						LT	GN					
41.00	43.00	2.00	GRD	MG	bleached, oxidized, semicompetent granodiorite with weak clay alteration and sparse fractures throughout.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		CLY	1I	Py	0.1
						LT	BN		BLE	2I		
									OXI	2I		
43.00	43.65	0.65	GRD	MG	light to medium grey granodiorite with weak carbonate stringer veinlets throughout							
						MD	GY					
						LT	GY					
43.65	44.20	0.55	GRD	MG	whitish grey to greenish grey altered granodiorite with strong argillic alteration with a moderate propylitic overprint.							
						LT	WH		ARG	4I		
						LT	GY					
						LT	GN		PRO	2I		
44.20	45.45	1.25	GRD	MG	medium grey to light brown, heavily fractured granodiorite with mm to cm scale hi angle (15 ACTA) carbonate veinlets							
						MD	GY					
						LT	BN		OXI	1I	Py	0.1
45.45	46.00	0.55	GRD	MG	heavily clay altered, weakly brecciated granodiorite (fault breccia)							
						LT	GY					
						LT	BN		CLY	4I	Py	0.1
46.00	47.24	1.24	GRD	MG	medium grey to light grey, clay altered, argillic altered with weak pro overprint, granodiorite with m scale carbonate stringer veinlets.							
						MD	GY		ARG	3I		
						LT	GY		CLY	2I	Py	0.1
						LT	GN		PRO	2I		
47.24	50.00	2.76	GRD	MG	medium grey, relatively unaltered granodiorite. Trae mm scale carbonate veinlets on frx surfaces							
						MD	GY				Py	0.01
50.00	50.50	0.50	GRD	MG	light grey to green propylitic altered granodiorite with 3 pyrite bearing quartz veins (1 cm wide each).							
						MD	GY					
						LT	GY		PRO	3I	Py	1
						LT	GN		SIL	2I	Py	1
50.50	51.50	1.00	GRD	MG	medium grey weakly pro altered grd with minor carb veinlets running throughout interval (m-scale)							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	1I		
51.50	51.82	0.32	GRD	MG	rubbly, faulted, altered granodiorite with heavy clay alteration, likely a fault							
						MD	GN					
						MD	GY		CLY	5I		
51.82	52.50	0.68	GRD	MG	moderate argillic alteration with a weak propylitic overprint, semi-competent granodiorite with few fractures							
						LT	WH		ARG	3I		
						LT	GN		PRO	3I		
						LT	GY					
52.50	54.00	1.50	GRD	MG	fractured, rubbly, clay altered, bleached, oxidized granodiorite with trace disseminated patchy bebby pyrite striger vienlets throughout interval (trace - only 4 identified - mm scale).							
						MD	GY		BLE	2I		
						LT	BN		OXI	2I		
						LT	TN		CLY	2I	Py	0.5
54.00	54.31	0.31	GRD	MG	weakly silicified, moderately argillic altered with a moderate propylitic overprint granodiorite. Disseminated pyrite in 1mm pyrite veinlets							
						MD	GY		ARG	2I	Py	0.1
						LT	GN		PRO	3I		
						LT	GY					
54.31	55.72	1.41	GRD	MG	weakly arg/pro altered grd with rare carb veinlets found throughout							
						LT	GY		PRO	1I		
						LT	GN		ARG	1I		
55.72	56.00	0.28	GRD	MG	stringer veinlet zone containing three 1 mm wide stringer veinlets of pyrite-bearing quartz. Host rock is weakly arg/pro altered grd							
						LT	GN		PRO	1I	Py	0.5
						LT	GY		ARG	1I		
56.00	57.00	1.00	GRD	MG	weakly argillic altered grd with a moderate propylitic overprint. Trace fresh biotite. Minor dissem Py throughout interval							
						MD	GY		PRO	2I	Py	0.1
						LT	GN		ARG	1I		
57.00	57.40	0.40	GRD	MG	faulted, rubbly grd with moderate arg and pro alteration							
						MD	GY		CLY	4I		
						LT	GY		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		ARG	3I		
57.40	58.10	0.70	GRD	MG	semi competent relatively weakly altered grd							
						MD	GY		ARG	1I		
									PRO	1I		
58.10	58.45	0.35	GRD	MG	faulted, rubbly grd with moderate arg and pro alteration							
58.45	61.50	3.05	GRD	MG	medium grained, medium grey, unaltered granodiorite. Rare carbonate stringer veinlets (mm-size). Very weak propylitic alteration disseminated throughout							
						MD	GY		PRO	1I	Py	0.01
61.50	63.46	1.96	GRD	MG	light grey to light green altered granodiorite. Weak propylitic alteration overprinting weak argillic alteration. Minor pyrite devleoped along rare fractures							
						MD	GY					
						LT	GN		ARG	2I		
						LT	GY		PRO	2I	Py	0.1
63.46	64.82	1.36	GRD	MG	light grey to greyish brown, clay altered, faulted, weakly brecciated granodiorite with quartz clasts and disseminated blebs of pyrite throughout interval.							
						LT	GY		CLY	4I	Py	0.5
						LT	BN		ARG	3I	Py	0.5
						LT	TN		SIL	2I		
64.82	66.43	1.61	GRD	MG	clay altered granodiorite; strong. Minor disseminated pyrite found throughout in mm-scale veinlets							
						LT	WH		CLY	4I	Py	0.5
						LT	BN		ARG	2I		
66.43	67.23	0.80	GRD	MG	weakly clay altered, semi competent granodiorite with patchy clasts of greenish altered volcanic up to 3 cm by 3 cm (subrounded).							
						MD	GY		ARG	3I	Py	0.1
						LT	WH		PRO	3I		
						LT	BN					
67.23	68.00	0.77	GRD	MG	greenish to tan brown altered granodiorite with moderate propylitic alteration							
						LT	BN		PRO	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		ARG	2I		
						LT	GY					
68.00	68.80	0.80	GRD	MG	clay altered whitish brown granodiorite with rare (3 subrounded greenish volcanic clasts)							
68.80	70.00	1.20	GRD	MG	clay altered light white to tan granodiorite with two bounding high angle fractures on either side of interval, where there is intense clay alteration and weak brecciation on both upper and lower contacts							
						LT	TN		PRO	1I		
						LT	WH		CLY	4I	Py	0.1
						LT	BN		ARG	2I		
70.00	71.63	1.63	GRD	MG	clay altered granodiorite with patchy oxide staining and weak clay alteration throughout interval							
						LT	TN		ARG	2I		
						LT	BN		PRO	1I		
71.63	72.00	0.37	GRD	MG	strongly clay altered and rubbly granodiorite, potentially faulted.							
						LT	WH		CLY	4I		
						LT	TN		ARG	3I		
72.00	72.42	0.42	GRD	MG	unaltered granodiorite							
						MD	GY					
72.42	73.00	0.58	GRD	MG	altered rubbly faulted granodiorite.							
						MD	GY					
73.00	73.37	0.37	GRD	MG	unaltered granodiorite							
						MD	GY					
73.37	74.00	0.63	GRD	MG	altered rubly faulted granodiorite. Heavily clay altered and fault gouged							
						MD	GY		CLY	4I		
74.00	76.16	2.16	GRD	MG	medium grained, weakly carbonate altered and patchy oxidized granodiorite. Relatively unaltered except for a few mm-scale carbonate stringer veinlets running through unaltered granodiorite.							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
76.16	77.23	1.07	GRD	MG	medium grained, light tan brown to medium grey, propylitic altered granodiorite with weak argillic alteration. Rare pyrite bearing stringers that are 80 ACTA (only two observed in interval)							
						MD	GY		OXI	2I		
						LT	BN		PRO	3I		
						LT	TN		ARG	2I	Py	0.5
									BLE	2I		
77.23	77.53	0.30	VEN	FG	finegrained quartz vein with disseminated pyrite along vein margin with galena nucleating off of pyrite grains. At least 3 phases of fluid pulsing here. Initially, the quartz/carbonate veinlet, secondary is the pyrite on vein margins, and third is the galena after pyrite.							
						LT	TN		SIL	4I	Py	3
						LT	WH				Gn	3
77.53	78.25	0.72	GRD	MG	bleached, oxidized, clay altered granodiorite with a weak propylitic overprint.							
						LT	BN		ARG	2I		
						LT	TN		CLY	3I		
									PRO	2I		
78.25	80.00	1.75	GRD	MG	medium grained dark grey unaltered granodiorite.							
						MD	GY					
80.00	80.10	0.10	GRD	MG	propylitically altered granodiorite with small 1 cm wide pyrite bearing quartz vein in centre of interval.							
						LT	GY		PRO	3I		
						LT	GN					
80.10	82.50	2.40	GRD	MG	medium grained dark grey unaltered granodiorite.							
						MD	GY					
82.50	83.00	0.50	GRD	MG	propylitically altered grd with mm scale carbonate quartz veinlets running 60 ACTA.							
						MD	GY					
						LT	GN					
83.00	86.44	3.44	GRD	MG	medium grained dark grey unaltered granodiorite.							
						MD	GY					
86.44	87.30	0.86	GRD	MG	medium grained weakly propylitically altered granodiorite.							
						MD	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
87.30	91.14	3.84	GRD	MG	medium grained medium grey granodiorite with trace pyrite bearing mm scale quartz stringers near the end of the interval.							
						MD	GY		PRO	1I		
91.14	93.54	2.40	GRD	MG	medium grained medium grey granodiorite with weak mm scale pyrite stringers developed 60 ACTA, evenly spaced roughly 5 cm apart. Weak propylitic alteration persists throughout interval							
						MD	GY		PRO	2I	Py	0.2
						LT	GN					
93.54	93.93	0.39	GRD	MG	moderately argilli caltered grd with a weak propylitic overprint.							
						MD	GY		PRO	1I	Py	0.1
						LT	GN		ARG	3I		
93.93	95.44	1.51	GRD	MG	reltaively unaltered granodiorite, trace arg alteration							
95.44	95.72	0.28	GRD	MG	1 cm wide carbonate veinlet from 95.63 to 95.65 with trae disseminated pyrite along margin. Enveloping the vein on 10 each side is propylitic alteration grading out into argillic alteratoin							
						MD	GN		ARG	2I	Py	0.4
						MD	GY		PRO	3I		
95.72	102.08	6.36	GRD	MG	medium grained, medium grey "salt and pepper" granodiorite, relatively unaltered with minor mm scale carbonate/chlorite veinlets with very trace disseminated pyrite							
102.08	102.62	0.54	GRD	MG	light grey to green granodiorite with weak to moderate argillic alteration and 1 1 cm wide carbonate veinlet with very trace dissem PY along margin							
						LT	WH		ARG	2I	Py	0.1
						LT	GY					
						LT	GN					
102.62	106.60	3.98	GRD	MG	medium grey, relatively unaltered granodiorite. Trace mm scale veinlets that contain disseminated pyrite (rare), are sparse. Weak oxidation and clay alteration on sparse rare fractures throughout interval.							
						MD	GY				Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
106.60	106.92	0.32	GRD	FG	medium green, fine grained, heavily propylitically altered granodiorite with vein material from 106.78 to 106.98 containing cubic subhedral pyrite and subhedral blebs of galena, carbonate clay alteration above the first vein (4 cm wide) and the second vein (5 cm wide). Weak argillic alteation overprinted by moderate to strong propylitic alteration. Moderate argillic alteration extends for 1 m below the two veins.							
									PRO	4I	Gn	1
											Gn	2
									ARG	2I	Py	5
											Py	1
106.92	108.00	1.08	GRD	MG	medium gained light white to light grey argillic altered granodiorite. Weak propylitic overprint.							
						LT	WH		PRO	2I		
						LT	GN		ARG	3I		
						LT	GY					
108.00	108.35	0.35	VEN	MG	medium grained, propylitically altered grd with a small 3 cm wide quartz carbonate vein containing blebby smeared sphalerite and dissminated blebby pyrite, granodiorite areound the veinlet up to 15 cm on either side is moderately propylitically altered with minor weak argillic alteration.							
						MD	GY		ARG	1I	Py	1
						LT	GN		PRO	3I	Py	1
											Sp	2
108.35	109.43	1.08	GRD	MG	weak argillic altered granodirotie with a moderate propylitic overprint. Weakly silicified, with a few mm scale pyrite filled veinlets that coincide with increasing intensity of propylitic alteration.							
						MD	GY		ARG	1I		
						LT	GN					
						LT	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.43	109.94	0.51	GRD	MG	clay altered, medium grey to brown, sulphide bearing gouge, likely related to faulting, Iron carbonate alteration coincides with clay gouge rubble. Weak sericite alteration comes with the clay. Sulphide is mostly disseminated pyrite with minor fine-grained black to sooty grey mineral - possibly a sulfosalt or fine-grained galena.							
						MD	BN		CLY	2I	Gn	1
						MD	GY		SER	2I	Py	1
									PRO	1I		
109.94	111.60	1.66	GRD	MG	propylitically altered medium grey to light green granodiorite overprinting trace argillic alteration. Weak silicification accompanies stronger propylitic alteration and coincides with a greater percentage of disseminated pyrite.							
						MD	GY		PRO	3I		
						LT	GN		ARG	1I	Py	0.5
111.60	111.92	0.32	VEN	FG	fine-grained quartz carbonate vein with blebby veinlets of sphalerite, galena, and pyrite.							
						LT	WH		PHC	2I	Gn	0.5
									PRO	3I	Sp	2.5
									SIL	5I	Py	2
111.92	114.13	2.21	GRD	MG	moderately argillic altered granodiorite							
						MD	BN		ARG	3I		
						MD	GY					
114.13	114.32	0.19	GRD	MG	modeate propylitic altered grd, light green to grey							
						LT	GY		PRO	3I		
						LT	GN					
114.32	114.38	0.06	VEN	FG	6 cm wide quartz carbonate vein with galena, sphalerite and pyrite.							
						LT	WH		SIL	4I	Gn	2
											Py	2
											Sp	2
114.38	114.81	0.43	GRD	MG	propylitic altered grd with siliceous alteration							
						LT	GN		ARG	2I		
						LT	GY		PRO	3I		
114.81	115.13	0.32	FLT	FG	gouged rubbly fault zone, light wht to brn with sericite alteration and oxidation							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		CLY	3I	Py	0.1
						LT	BN		SER	2I		
						LT	WH					
115.13	116.00	0.87	GRD	MG	rubbly faulted unaltered granodiorite							
						MD	GY					
116.00	118.50	2.50	GRD	MG	light white to green altered argillic with a weak propylitic overprint granodiorite.							
						LT	GY		PRO	1I		
						LT	GN					
						LT	WH		ARG	3I		
118.50	119.90	1.40	GRD	MG	unaltered, medium grey granodiorite							
119.90	120.40	0.50	GRD	MG	altered, rubbly argillic granodiorite							
						LT	GN		ARG	2I		
						LT	GY		PRO	1I		
120.40	123.51	3.11	GRD	MG	unaltered, medium grey granodiorite							
123.51	123.68	0.17	GRD	MG	argillic altered grd with moderate propylitic overprint.							
						LT	WH		ARG	4I		
						LT	GN		PRO	2I		
						LT	GY					
123.68	126.49	2.81	GRD	MG	unaltered, medium grey granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.52	1.52	OVB	OVB	--	overburden
1.52	2.50	0.98	GRD	FLTA	MG	relatively competent granodiorite; unaltered
2.50	4.57	2.07	GRD	FLTA	MG	heavily fractured, rubbly, fault gouge granodiorite; completely altered to clay minerals
4.57	6.50	1.93	GRD	FLTA	MG	strongly clay altered granodiorite, completely altered to clays from faulting
6.50	7.04	0.54	GRD	FLTA	MG	semi-competent clay altered fault gouged granodiorite
7.04	8.30	1.26	GRD	GRD	MG	medium grained, medium grey to light grey granodiorite. Lightly clay altered and lightly brecciated
8.30	9.05	0.75	GRD	GRDF	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization
9.05	10.13	1.08	GRD	GRD	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization. Semi-competent, weaker clay alteration
10.13	11.80	1.67	GRD	FLT	MG	medium grained, heavily clay altered, faulted, heavily fractured granodiorite.
11.80	12.90	1.10	GRD	GRD	MG	light to medium grey granodiorite, relatively unaltered and competent. Three weak 1 mm scale carbonate veinlets run throughout granodiorite.
12.90	14.07	1.17	GRD	GRD	MG	light grey to medium grey, trace light green to pink, weak argillic altered granodiorite with a weak propylitic overprint. Trace mm scale carbonate stringer veinlets occur throughout interval.
14.07	15.00	0.93	GRD	FLT	MG	subcompetent, fractured, weakly arg altered and weakly oxidized granodiorite with minor carbonate veinlets (<1mm) on fracture surfaces.
15.00	15.65	0.65	GRD	FLT	MG	heavily clay altered, fault gouged, medium grey to brown granodiorite with carbonate on fracture surfaces.
15.65	16.53	0.88	GRD	GRD	MG	medium grained, grey to light greyish green, relatively unaltered granodiorite with minor sub-mm carbonate stringer veinlets dispersed throughout interval.
16.53	16.97	0.44	GRD	GRDA	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite
16.97	17.14	0.17	VEN	VEIN	FG	hevaily clay altered, gouged material above galena/pyrite+- cp vein. Completely altered and oxidized to clay minerals

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
17.14	17.30	0.16	VEN	VEIN	FG	galena, pyrite +- chalcopyrite bearing, oxidized, clay altered quartz vein (possibly fault-hosted?) Vein contains subhedral galena intercalated with subhedral pyrite, blebby, up to 0.5 cm by 0.5 cm, trending in a vein set that is 60 ACTA. Intense clay alteration on either side of the vein. Clay minerals contain large amounts of liberated pyrite that are intermingled with the clay minerals. These were likely pyrite hosted in granodiorite that have since been incorporated into the clays during hydrothermal alteration
17.30	18.10	0.80	GRD	GRDA	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite. Small pyrite-bearing quratz vein 1 cm wide is in this interval
18.10	19.30	1.20	GRD	GRDF	MG	medium grained, light brown to brownish grey, fractured granodiorite with small intevals of intense clay alteration
19.30	19.62	0.32	GRD	GRD	MG	unaltered granodiorite, minor carbonate stringer veinlets throughout
19.62	19.82	0.20	GRD	FLT	MG	faulted, heavily fractured, rubbly granodiorite, orange to bron. Completely clay altered
19.82	20.43	0.61	GRD	GRD	MG	unaltered granodiorite
20.43	21.04	0.61	GRD	GRDF	MG	faulted, heavily fractured granodiorite with limonite alteration on fracture surfaces.
21.04	21.42	0.38	GRD	GRD	MG	unaltered granodiorite
21.42	21.81	0.39	GRD	GRDA	MG	medium grained, light grey to brownish grey, clay altered, weakly brecciated granodiorite, moderately oxidized. Potentially fault hosted.
21.81	23.00	1.19	GRD	GRDA	MG	mdium grained, light grey to brownish grey to tan granodiorite, variably altered with sections of more intense bleaching and oxidation, and sections of more fracture-hosted discrete clay alteration. Inensity of bleaching and oxidation increases as you move deeper in the section, eventually grading into a small oxidized patch at the bottom of the interval. Immediately following, you have a small sulphide veinlet zone, described in the next section.
23.00	23.10	0.10	VEN	VEIN	FG	silicified section of granodiorite. Not quite a vein, gradational on either side, but in the centre of the interval is a 3cm wide heavily siliceous zone that hosts disseminated pyrite +- galena (or a fine-grained greyish black sooty mineral).
23.10	24.50	1.40	GRD	GRDA	MG	medium grained, whitish grey to medium grey, argillic altered granodiorite with minor zones of complete clay alteration and heavy fracturing (faults?)
24.50	25.20	0.70	GRD	GRD	MG	unaltered granodiorite with weak mm wide carbonate strigner veinlets throughout
25.20	26.00	0.80	GRD	GRDA	MG	weakly arg altered granodiorite
26.00	28.57	2.57	GRD	GRDA	MG	faulted, completely clay altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
28.57	28.80	0.23	GRD	GRDA	MG	orangeish brown, heavily oxidized and clay altered granodiorite with complete clay alteration of feldspar.
28.80	29.10	0.30	VEN	VEIN	MG	pyrite bearing, clay altered, quartz vein breccia with patch blebs of disseminated pyrite throghout. When rock is competent, it is heavily clay altered. Section is mostly rubbly, with intense whitish clay alteration +- quartz +- pyrite found throughout. Sericite alteration present in host rock
29.10	29.50	0.40	GRD	GRDF	MG	heavily fractured, clay altered, bleached granodiorite. Very rubbly section, likely a fault related to mineralization above
29.50	31.23	1.73	GRD	GRDF	MG	fractured, rubbly granodiorite. Possibly faulted
31.23	31.53	0.30	GRD	GRDA	MG	bleached, clay altered granodiorite, whitish brown to tan brown. Semi competent
31.53	31.84	0.31	GRD	GRD	MG	relatively unaltered granodiorite. Weak carbonate stringers throughout (mm-scale)
31.84	32.25	0.41	GRD	GRDF	MG	faulted, oxidized grd with minor pyrite stringer veinlets (mm-scale) throughout. I
32.25	32.80	0.55	GRD	VEIN	MG	vein breccia developed within faulted interval of granodiorite. Clay altered and bleached and oxidized, with blebby patches of pyrite alteration. Weakly brecciated section related to faulting.
32.80	33.40	0.60	GRD	GRDF	MG	clay altered granodiorite underneath vein breccia. Likely a fault breccia
33.40	33.70	0.30	GRD	GRDA	MG	bleached altered granodiorite with weak pyrite stringers (set of 3) in interval
33.70	34.30	0.60	GRD	GRDA	MG	weakly silicified relatively unaltered granodiorite
34.30	34.80	0.50	GRD	GRDA	MG	PRO and clay altered granodiorite, bleached and oxidized
34.80	35.00	0.20	GRD	GRDA	MG	faulted granodiorite, heavily clay altered and rubblt
35.00	35.52	0.52	GRD	GRDA	MG	relatively unaltered granodiorite with minor disseminated pyrite throughout and rare mm scale carbonate stringers
35.52	36.90	1.38	GRD	GRDA	MG	bleached, argillic altered grd with a propylitic overprint. Patchy oxidative staining on fresh surface. Moderate clay alteration confined to fracture surfaces, potentially related to faulting.
36.90	37.90	1.00	GRD	GRDA	MG	patchy OX stained granodiorite, variably silcified, with a weak propylitic overprint of argillic alteration
37.90	39.27	1.37	GRD	GRDA	MG	bleached, oxidized, clay altered, competent granodiorite. Weakly fractured and weak clay alteration
39.27	39.62	0.35	GRD	GRDA	MG	heavily clay altered granodiorite, higher density of fractures, possibly fualted
39.62	40.62	1.00	GRD	GRDA	MG	brown to light greyish green, altered grd. Semicompetent and weak pro overprint of argillic alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
40.62	40.72	0.10	GRD	GRDA	MG	propylitic altered granodiorite
40.72	40.82	0.10	GRD	GRDA	MG	propylitic altered grd being overprinted by phyllic alteration, related to a small 2cm wide pyrite bearing quartz vein with sooty grey, hematite stained grunge on ein margin.
40.82	41.00	0.18	GRD	GRDA	MG	apropylitic altered granodiorite with weak mm scale pyrite stringers
41.00	43.00	2.00	GRD	GRDA	MG	bleached, oxidized, semicompetent granodiorite with weak clay alteration and sparse fractures throughout.
43.00	43.65	0.65	GRD	GRDA	MG	light to medium grey granodiorite with weak carbonate stringer veinlets throughout
43.65	44.20	0.55	GRD	GRDA	MG	whitish grey to greenish grey altered granodiorite with strong argillic alteration with a moderate propylitic overprint.
44.20	45.45	1.25	GRD	GRDA	MG	medium grey to light brown, heavily fractured granodiorite with mm to cm scale hi angle (15 ACTA) carbonate veinlets
45.45	46.00	0.55	GRD	GRDF	MG	heavily clay altered, weakly brecciated granodiorite (fault breccia)
46.00	47.24	1.24	GRD	GRDA	MG	medium grey to light grey, clay altered, argillic altered with weak pro overprint, granodiorite with m scale carbonate stringer veinlets.
47.24	50.00	2.76	GRD	GRD	MG	medium grey, relatively unaltered granodiorite. Trae mm scale carbonate veinlets on frx surfaces
50.00	50.50	0.50	GRD	GRDA	MG	light grey to green propylitic altered granodiorite with 3 pyrite bearing quartz veins (1 cm wide each).
50.50	51.50	1.00	GRD	GRDA	MG	medium grey weakly pro altered grd with minor carb veinlets running throughout interval (m-scale)
51.50	51.82	0.32	GRD	GRDF	MG	rubbly, faulted, altered granodiorite with heavy clay alteration, likely a fault
51.82	52.50	0.68	GRD	GRDA	MG	moderate argillic alteration with a weak propylitic overprint, semi-competent granodiorite with few fractures
52.50	54.00	1.50	GRD	GRDF	MG	fractured, rubbly, clay altered, bleached, oxidized granodiorite with trace disseminated patchy bebby pyrite striger vienlets throughout interval (trace - only 4 identified - mm scale).
54.00	54.31	0.31	GRD	GRDA	MG	weakly silicified, moderately argillic altered with a moderate propylitic overprint granodiorite. Disseminated pyrite in 1mm pyrite veinlets
54.31	55.72	1.41	GRD	GRDA	MG	weakly arg/pro altered grd with rare carb veinlets found throughout
55.72	56.00	0.28	GRD	GRDA	MG	stringer veinlet zone containing three 1 mm wide stringer veinlets of pyrite-bearing quartz. Host rock is weakly arg/pro altered grd
56.00	57.00	1.00	GRD	GRDA	MG	weakly argillic altered grd with a moderate propylitic overprint. Trace fresh biotite. Minor dissem Py throughout interval
57.00	57.40	0.40	GRD	GRDA	MG	faulted, rubbly grd with moderate arg and pro alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
57.40	58.10	0.70	GRD	GRDA	MG	semi competent relatively weakly altered grd
58.10	58.45	0.35	GRD	GRDA	MG	faulted, rubbly grd with moderate arg and pro alteration
58.45	61.50	3.05	GRD	GRD	MG	medium grained, medium grey, unaltered granodiorite. Rare carbonate stringer veinlets (mm-size). Very weak propylitic alteration disseminated throughout
61.50	63.46	1.96	GRD	GRDA	MG	light grey to light green altered granodiorite. Weak propylitic alteration overprinting weak argillic alteration. Minor pyrite devleoped along rare fractures
63.46	64.82	1.36	GRD	GRDA	MG	light grey to greyish brown, clay altered, faulted, weakly brecciated granodiorite with quartz clasts and disseminated blebs of pyrite throughout interval.
64.82	66.43	1.61	GRD	GRDA	MG	clay altered granodiorite; strong. Minor disseminated pyrite found throughout in mm-scale veinlets
66.43	67.23	0.80	GRD	GRDA	MG	weakly clay altered, semi competent granodiorite with patchy clasts of greenish altered volcanic up to 3 cm by 3 cm (subrounded).
67.23	68.00	0.77	GRD	GRDA	MG	greenish to tan brown altered granodiorite with moderate propylitic alteration
68.00	68.80	0.80	GRD	GRDA	MG	clay altered whitish brown granodiorite with rare (3 subrounded greenish volcanic clasts)
68.80	70.00	1.20	GRD	GRDA	MG	clay altered light white to tan granodiorite with two bounding high angle fractures on either side of interval, where there is intense clay alteration and weak brecciation on both upper and lower contacts
70.00	71.63	1.63	GRD	GRDA	MG	clay altered granodiorite with patchy oxide staining and weak clay alteration throughout interval
71.63	72.00	0.37	GRD	GRDA	MG	strongly clay altered and rubbly granodiorite, potentially faulted.
72.00	72.42	0.42	GRD	GRDF	MG	unaltered granodiorite
72.42	73.00	0.58	GRD	GRDF	MG	altered rubbly faulted granodiorite.
73.00	73.37	0.37	GRD	GRDF	MG	unaltered granodiorite
73.37	74.00	0.63	GRD	GRDF	MG	altered rubly faulted granodiorite. Heavily clay altered and fault gouged
74.00	76.16	2.16	GRD	GRD	MG	medium grained, weakly carbonate altered and patchy oxidized granodiorite. Relatively unaltered except for a few mm-scale carbonate stringer veinlets running through unaltered granodiorite.
76.16	77.23	1.07	GRD	GRDA	MG	medium grained, light tan brown to medium grey, propylitic altered granodiorite with weak argillic alteration. Rare pyrite bearing stringers that are 80 ACTA (only two observed in interval)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
77.23	77.53	0.30	VEN	VEIN	FG	finegrained quartz vein with disseminated pyrite along vein margin with galena nucleating off of pyrite grains. At least 3 phases of fluid pulsing here. Initially, the quartz/carbonate veinlet, secondary is the pyrite on vein margins, and third is the galena after pyrite.
77.53	78.25	0.72	GRD	GRDA	MG	bleached, oxidized, clay altered granodiorite with a weak propylitic overprint.
78.25	80.00	1.75	GRD	GRD	MG	medium grained dark grey unaltered granodiorite.
80.00	80.10	0.10	GRD	GRD	MG	propylitically altered granodiorite with small 1 cm wide pyrite bearing quartz vein in centre of interval.
80.10	82.50	2.40	GRD	GRD	MG	medium grained dark grey unaltered granodiorite.
82.50	83.00	0.50	GRD	GRD	MG	propylitically altered grd with mm scale carbonate quartz veinlets running 60 ACTA.
83.00	86.44	3.44	GRD	GRD	MG	medium grained dark grey unaltered granodiorite.
86.44	87.30	0.86	GRD	GRD	MG	medium grained weakly propylitically altered granodiorite.
87.30	91.14	3.84	GRD	GRD	MG	medium grained medium grey granodiorite with trace pyrite bearing mm scale quartz stringers near the end of the interval.
91.14	93.54	2.40	GRD	GRD	MG	medium grained medium grey granodiorite with weak mm scale pyrite stringers developed 60 ACTA, evenly spaced roughly 5 cm apart. Weak propylitic alteration persists throughout interval
93.54	93.93	0.39	GRD	GRDA	MG	moderately argilli caltered grd with a weak propylitic overprint.
93.93	95.44	1.51	GRD	GRDA	MG	reltaively unaltered granodiorite, trace arg alteration
95.44	95.72	0.28	GRD	GRDA	MG	1 cm wide carbonate veinlet from 95.63 to 95.65 with trae disseminated pyrite along margin. Enveloping the vein on 10 each side is propylitic alteration grading out into argillic alteratoin
95.72	102.08	6.36	GRD	GRD	MG	medium grained, medium grey "salt and pepper" granodiorite, relatively unaltered with minor mm scale carbonate/chlorite veinlets with very trace disseminated pyrite
102.08	102.62	0.54	GRD	GRDA	MG	light grey to green granodiorite with weak to moderate argillic alteration and 1 1 cm wide carbonate veinlet with very trace dissem PY along margin
102.62	106.60	3.98	GRD	GRD	MG	medium grey, relatively unaltered granodiorite. Trace mm scale veinlets that contain disseminated pyrite (rare), are sparse. Weak oxidation and clay alteration on sparse rare fractures throughout interval.
106.60	106.92	0.32	GRD	GRDA	FG	medium green, fine grained, heavily propylitically altered granodiorite with vein material from 106.78 to 106.98 containing cubic subhedral pyrite and subhedral blebs of galena, carbonate clay alteration above the first vein (4 cm wide) and the second vein (5 cm wide). Weak argillic alteation overprinted by moderate to strong propylitic alteration. Moderate argillic alteration extends for 1 m below the two veins.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
106.92	108.00	1.08	GRD	GRDA	MG	medium gained light white to light grey argillic altered granodiorite. Weak propylitic overprint.
108.00	108.35	0.35	VEN	VEIN	MG	medium grained, propylitically altered grd with a small 3 cm wide quartz carbonate vein containing blebby smeared sphalerite and dissminated blebby pyrite, granodiorite areound the veinlet up to 15 cm on either side is moderately propylitically altered with minor weak argillic alteration.
108.35	109.43	1.08	GRD	GRDA	MG	weak argillic altered granodirotie with a moderate propylitic overprint. Weakly silicified, with a few mm scale pyrite filled veinlets that coincide with increasing intensity of propylitic alteration.
109.43	109.94	0.51	GRD	FLTM	MG	clay altered, medium grey to brown, sulphide bearing gouge, likely related to faulting, Iron carbonate alteration coincides with clay gouge rubble. Weak sericite alteration comes with the clay. Sulphide is mostly disseminated pyrite with minor fine-grained black to sooty grey mineral - possibly a sulfosalt or fine-grained galena.
109.94	111.60	1.66	GRD	GRDA	MG	propylitically altered medium grey to light green granodiorite overprinting trace argillic alteration. Weak silicification accompanies stronger propylitic alteration and coincides with a greater percentage of disseminated pyrite.
111.60	111.92	0.32	VEN	VEIN	FG	fine-grained quartz carbonate vein with blebby veinlets of sphalerite, galena, and pyrite.
111.92	114.13	2.21	GRD	GRDA	MG	moderately argillic altered granodiorite
114.13	114.32	0.19	GRD	GRDA	MG	modeate propylitic altered grd, light green to grey
114.32	114.38	0.06	VEN	GRDA	FG	6 cm wide quartz carbonate vein with galena, sphalerite and pyrite.
114.38	114.81	0.43	GRD	GRDA	MG	propylitic altered grd with siliceous alteration
114.81	115.13	0.32	FLT	GRDA	FG	gouged rubbly fault zone, light wht to brn with sericite alteration and oxidation
115.13	116.00	0.87	GRD	GRDA	MG	rubbly faulted unaltered granodiorite
116.00	118.50	2.50	GRD	GRDA	MG	light white to green altered argillic with a weak propylitic overprint granodiorite.
118.50	119.90	1.40	GRD	GRD	MG	unaltered, medium grey granodiorite
119.90	120.40	0.50	GRD	GRD	MG	altered, rubbly argillic granodiorite
120.40	123.51	3.11	GRD	GRD	MG	unaltered, medium grey granodiorite
123.51	123.68	0.17	GRD	GRD	MG	argillic altered grd with moderate propylitic overprint.
123.68	126.49	2.81	GRD	GRD	MG	unaltered, medium grey granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	7.04	5.52	GRD	MG	Medium grained, medium grey to light grey to light greenish grey, heavily clay-altered, fault gouged granodiorite. Discrete intervals of complete clay alteration and fault gouge, as well as more competent partially clay-altered intervals occur throughout. Weak to moderate argillic alteration and weak propylitic alteration occur throughout interval. Heavily fractured and sections of interval have heavy core loss. From 3.05 to 4.57 there is ~50 cm of core loss.							
						LT	GN		PRO	1I	Py	0.1
						MD	GY		ARG	1I		
						LT	GY					
7.04	8.30	1.26	GRD	MG	medium grained, medium grey to light grey granodiorite. Lightly clay altered and lightly brecciated							
						MD	GY					
						LT	GY		CLY	4I		
8.30	9.05	0.75	GRD	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization							
						LT	GY					
						LT	BN		CLY	3I		
						MD	GY					
9.05	10.13	1.08	GRD	MG	medium grained, light to medium grey, heavily fractured, strongly clay altered granodiorite. No visible sulphide mineralization. Semi-competent, weaker clay alteration							
						LT	GY					
						MD	GY		CLY	1I		
10.13	11.80	1.67	GRD	MG	medium grained, heavily clay altered, faulted, heavily fractured granodiorite.							
						MD	BN		CLY	4I		
						MD	GY					
						LT	GY					
11.80	12.90	1.10	GRD	MG	light to medium grey granodiorite, relatively unaltered and competent. Three weak 1 mm scale carbonate veinlets run throughout granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
						MD	GY					
12.90	14.07	1.17	GRD	MG	light grey to medium grey, trace light green to pink, weak argillic altered granodiorite with a weak propylitic overprint. Trace mm scale carbonate stringer veinlets occur throughout interval.							
						MD	GY		ARG	2I		
						LT	GY		PRO	2I		
14.07	15.65	1.58	GRD	MG	Faulted, heavily fractured, medium grey to light greyish orange, with chalky orange weathering on fracture surfaces, granodiorite. Variably altered, alternating between completely clay altered (fault-related) to semi-clay altered and sub competent granodiorite. No visible sulphides or significant alteration here. Minor carbonate alteration on fracture surfaces.							
						LT	BN					
						LT	GY		CLY	3I		
						MD	GY					
15.65	16.53	0.88	GRD	MG	medium grained, grey to light greyish green, relatively unaltered granodiorite with minor sub-mm carbonate stringer veinlets dispersed throughout interval.							
						LT	GN					
						LT	GY					
						MD	GY		OXI	1I		
16.53	16.97	0.44	GRD	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite							
						MD	BN		OXI	4I		
						LT	TN		CLY	3I		
						LT	BN					
16.97	17.30	0.33	VEN	FG	heavily oxidized, clay altered interval (possibly fault hosted). Interval contains a 10-cm (true width) galena, pyrite +- chalcopyrite bearing, clay altered, oxidized quartz vein. Clay alteration extends above and below the vein. Above the vein is heavily altered oxidized granodiorite(tan brown), and below the vein is heavily argillic altered granodiorite (whitish greyish green)							
						MD	GY					
						LT	BN				Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	OR		OXI	4I	Cp	1
						LT	WH		CLY	4I	Gn	5
17.30	18.10	0.80	GRD	MG	medium grained, tan brown to light brown, heavily oxidized, altered grd with clays replacing feldspar, and weak silicification, large quartz grains up to 5mm in size are present in groundmass of altered granodiorite. Small pyrite-bearing quratz vein 1 cm wide is in this interval							
						MD	TN		OXI	3I		
						LT	BN					
						LT	GY		CLY	2I	Py	2
18.10	19.30	1.20	GRD	MG	medium grained, light brown to brownish grey, fractured granodiorite with small intevals of intense clay alteration							
						MD	GY					
						LT	GY		CLY	3I	Py	0.1
						LT	BN					
19.30	19.62	0.32	GRD	MG	unaltered granodiorite, minor carbonate stringer veinlets throughout							
						MD	GY					
19.62	19.82	0.20	GRD	MG	faulted, heavily fractured, rubbly granodiorite, orange to bron. Completely clay altered							
						LT	GY		CLY	5I		
						LT	BN					
19.82	20.43	0.61	GRD	MG	unaltered granodiorite							
						MD	GY					
20.43	21.04	0.61	GRD	MG	faulted, heavily fractured granodiorite with limonite alteration on fracture surfaces.							
						LT	GY		CLY	2I		
						LT	BN					
21.04	21.42	0.38	GRD	MG	unaltered granodiorite							
						MD	GY					
21.42	21.81	0.39	GRD	MG	medium grained, light grey to brownish grey, clay altered, weakly brecciated granodiorite, moderately oxidized. Potentially fault hosted.							
						LT	BN		CLY	4I		
						LT	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.81	23.00	1.19	GRD	MG	mdium grained, light grey to brownish grey to tan granodiorite, variably altered with sections of more intense bleaching and oxidation, and sections of more fracture-hosted discrete clay alteration. Inensity of bleaching and oxidation increases as you move deeper in the section, eventually grading into a small oxidized patch at the bottom of the interval. Immediately following, you have a small sulphide veinlet zone, described in the next section.							
						LT	GY					
						LT	BN		OXI	2I		
						MD	GY		CLY	2I		
23.00	23.10	0.10	VEN	FG	silicified section of granodiorite. Not quite a vein, gradational on either side, but in the centre of the interval is a 3cm wide heavily siliceous zone that hosts disseminated pyrite +- galena (or a fine-grained greyish black sooty mineral).							
						LT	GY		SIL	3I	Py	3
											Un	0.1
									PRO	3I	Gn	1
23.10	24.50	1.40	GRD	MG	medium grained, whitish grey to medium grey, argillic altered granodiorite with minor zones of complete clay alteration and heavy fracturing (faults?)							
						LT	GN					
						MD	GY					
						LT	GY		ARG	2I		
24.50	25.20	0.70	GRD	MG	unaltered granodiorite with weak mm wide carbonate strigner veinlets throughout							
						MD	GY					
25.20	28.57	3.37	GRD	MG	medium to light grey, variably clay and carbonate altered, fractured granodiorite with weak to moderate argillic alteration. Sections of core are completely altered to clay, and could be related to structures							
						LT	GY					
						MD	GY		CLY	3I		
28.57	28.80	0.23	GRD	MG	orangeish brown, heavily oxidized and clay altered granodiorite with complete clay alteration of feldspar.							
						LT	BN		ARG	4I		
						LT	TN		BLE	2I		
									OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
28.80	29.10	0.30	VEN	MG	pyrite bearing, clay altered, quartz vein breccia with patch blebs of disseminated pyrite throghout. When rock is competent, it is heavily clay altered. Section is mostly rubbly, with intense whitish clay alteration +- quartz +- pyrite found throughout. Sericite alteration present in host rock							
						LT	GY		CLY	3I	Py	3
						LT	WH		SER	5I	Py	3
29.10	31.23	2.13	GRD	MG	heavily fractured, clay altered, bleached granodiorite. Very rubbly section, likely a fault related to mineralization above							
						LT	GY		BLE	2I		
									OXI	2I		
						LT	BN		CLY	3I		
31.23	31.53	0.30	GRD	MG	bleached, clay altered granodiorite, whitish brown to tan brown. Semi competent							
						MD	TN		OXI	3I		
						LT	BN		CLY	2I		
									BLE	3I		
31.53	31.84	0.31	GRD	MG	relatively unaltered granodiorite. Weak carbonate stringers throughout (mm-scale)							
						MD	GY					
31.84	32.25	0.41	GRD	MG	faulted, oxidized grd with minor pyrite stringer veinlets (mm-scale) throughout. I							
						LT	TN		OXI	2I	Py	1
						LT	BN		BLE	2I		
									CLY	4I		
32.25	32.80	0.55	GRD	MG	vein breccia developed within faulted interval of granodiorite. Clay altered and bleached and oxidized, with blebby patches of pyrite alteration. Weakly brecciated section related to faulting.							
						LT	BN		OXI	2I		
						LT	TN		CLY	4I	Py	3
32.80	33.40	0.60	GRD	MG	clay altered granodiorite underneath vein breccia. Likely a fault breccia							
						LT	BN		CLY	4I		
						LT	TN		BLE	2I	Py	0.1
									OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
33.40	35.52	2.12	GRD	MG	bleached, altered granodiorite, semi competent with intervals of complete clay alteration and rubble. Localized patchy oxide staining and strong argillic alteration.							
						MD	GY		CLY	2I		
						LT	GY		ARG	2I	Py	0.2
						LT	BN					
35.52	40.62	5.10	GRD	MG	brownish grey to tan grey, patchily oxidized, bleached granodiorite with variable amounts of clay alteration throughout interval. Weak argillic alteration with a propylitic overprint. Small sections of interval are relatively unaltered.							
									BLE	2I		
						LT	GY		CLY	2I		
						MD	GY		OXI	2I		
						LT	BN		ARG	3I		
						LT	TN		PRO	2I		
40.62	41.00	0.38	GRD	MG	light grey to grey slicified, propylitic altered granodiorite with a tight phyllic alteration halo around a pyrite bearing hematite staiend quartz vein in centre of interval from 41.76 to 41.78 @ 70 ACTA.							
						MD	GY		PRO	3I	He	0.5
						LT	GY		PHC	2I	Py	1
41.00	43.00	2.00	GRD	MG	bleached, oxidized, semicompetent granodiorite with weak clay alteration and sparse fractures throughout.							
									BLE	2I		
						MD	BN		OXI	2I		
						LT	BN		CLY	1I	Py	0.1
43.00	44.20	1.20	GRD	MG	medium grey to light grey to whitish green argillic altered granodiorite with a weak propylitic overprint.							
						LT	GY		PRO	3I		
						LT	GN					
						LT	WH		ARG	3I		
44.20	45.45	1.25	GRD	MG	medium grey to light brown, heavily fractured granodiorite with mm to cm scale hi angle (15 ACTA) carbonate veinlets							
						LT	BN					
						MD	GY		OXI	1I	Py	0.1
45.45	46.00	0.55	GRD	MG	heavily clay altered, weakly brecciated granodiorite (fault breccia)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		CLY	4I	Py	0.1
						LT	GY					
46.00	47.24	1.24	GRD	MG	medium grey to light grey, clay altered, argillic altered with weak pro overprint, granodiorite with m scale carbonate stringer veinlets.							
						LT	GY		CLY	2I	Py	0.1
						LT	GN		ARG	3I		
						MD	GY		PRO	2I		
47.24	50.00	2.76	GRD	MG	medium grey, relatively unaltered granodiorite. Trae mm scale carbonate veinlets on frx surfaces							
						MD	GY				Py	0.01
50.00	50.50	0.50	GRD	MG	light grey to green propylitic altered granodiorite with 3 pyrite bearing quartz veins (1 cm wide each).							
						MD	GY					
						LT	GY		SIL	2I	Py	1
						LT	GN		PRO	3I	Py	1
50.50	51.50	1.00	GRD	MG	medium grey weakly pro altered grd with minor carb veinlets running throughout interval (m-scale)							
						MD	GY		PRO	1I		
						LT	GN					
51.50	51.82	0.32	GRD	MG	rubbly, faulted, altered granodiorite with heavy clay alteration, likely a fault							
						MD	GN					
						MD	GY		CLY	5I		
51.82	52.50	0.68	GRD	MG	moderate argillic alteration with a weak propylitic overprint, semi-competent granodiorite with few fractures							
						LT	GY		PRO	3I		
						LT	WH					
						LT	GN		ARG	3I		
52.50	54.00	1.50	GRD	MG	fractured, rubbly, clay altered, bleached, oxidized granodiorite with trace disseminated patchy bebby pyrite striger vienlets throughout interval (trace - only 4 identified - mm scale).							
						LT	TN		CLY	2I		
						MD	GY		OXI	2I	Py	0.5
						LT	BN		BLE	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.00	57.00	3.00	GRD	MG	medium grained, light grey to greenish grey, weak to moderately argillic altered granodiorite with minor pyrite bearing quartz stringer veinlets up to 2 mm in size. Rare carbonate veinlets. Overprinted by weak to moderate propylitic alteratio							
						LT	GY					
						LT	GN		ARG	2I		
						MD	GY		PRO	3I	Py	0.1
57.00	58.45	1.45	GRD	MG	medium grey, variably rubbly, fractured, altered granodiorite. Alteration confined to fractures and extends a few cms on either side of fractures. Two zones are very rubbly and are likely faulted. Weak pro alteration overprinting argillic alteration							
									CLY	2I		
						LT	GN		PRO	2I		
						MD	GY		ARG	2I	Py	0.1
58.45	61.50	3.05	GRD	MG	medium grained, medium grey, unaltered granodiorite. Rare carbonate stringer veinlets (mm-size). Very weak propylitic alteration disseminated throughout							
						MD	GY		PRO	1I	Py	0.01
61.50	63.46	1.96	GRD	MG	light grey to light green altered granodiorite. Weak propylitic alteration overprinting weak argillic alteration. Minor pyrite devleoped along rare fractures							
						LT	GY		ARG	2I	Py	0.1
						MD	GY		PRO	2I		
						LT	GN					
63.46	64.82	1.36	GRD	MG	light grey to greyish brown, clay altered, faulted, weakly brecciated granodiorite with quartz clasts and disseminated blebs of pyrite throughout interval.							
						LT	TN		CLY	4I		
						LT	GY		SIL	2I	Py	0.5
						LT	BN		ARG	3I	Py	0.5
64.82	72.00	7.18	GRD	MG	brown to tan to light greyish green, clay altered and intermittently weakly brecciated granodiorite. Moderate to strong clay alteration and argillic alteration overprinted by weak propylitic alteration. Patchy oxidation throughout interval. Weak mm-scale pyrite veinlet stringers cut occur rarely within entire interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN					
						MD	TN		CLY	3I		
						LT	GY		PRO	1I	Py	0.1
						LT	GN		ARG	2I		
72.00	74.00	2.00	GRD	MG	medium grey, relatively unaltered granodiorite. Discrete intervals are very rubbly and likely altered by faulting.							
						MD	GY		CLY	3I		
74.00	76.16	2.16	GRD	MG	medium grained, weakly carbonate altered and patchy oxidized granodiorite. Relatively unaltered except for a few mm-scale carbonate stringer veinlets running through unaltered granodiorite.							
						MD	GY					
76.16	77.23	1.07	GRD	MG	medium grained, light tan brown to medium grey, propylitic altered granodiorite with weak argillic alteration. Rare pyrite bearing stringers that are 80 ACTA (only two observed in interval)							
									BLE	2I		
						MD	GY		PRO	3I		
						LT	BN		ARG	2I	Py	0.5
						LT	TN		OXI	2I		
77.23	77.53	0.30	VEN	FG	fine grained quartz vein with disseminated pyrite along vein margin with galena nucleating off of pyrite grains. At least 3 phases of fluid pulsing here. Initially, the quartz/carbonate veinlet, secondary is the pyrite on vein margins, and third is the galena after pyrite.							
						LT	WH		SIL	4I	Gn	3
						LT	TN				Py	3
77.53	78.25	0.72	GRD	MG	bleached, oxidized, clay altered granodiorite with a weak propylitic overprint.							
						LT	BN		PRO	2I		
						LT	TN		ARG	2I		
									CLY	3I		
78.25	93.54	15.29	GRD	MG	medium grained, light to medium grey with greenish patchy weak propylitic alteration granodiorite. Localized stringer zones with mm-scale stringer veinlets running 70 ACTA. Small fine-grained pink aplite dyke running 70 ACTA from 86 to 86.08m. Besides that, this section of core is relatively unaltered.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
93.54	95.72	2.18	GRD	MG	meidum grained, medium grey, relatively unaltered granodiorite. Patchy weak argillic alteration with a weak propylitic overprint. 1mm scale stringer veinlets cut through granite with trace disseminated pyrite. One 1 cm wide carbonate veinlet cuts granite with a 5 cm alteration halo of more intense propylitic alteration, grading out to argillic alteration from 5 cm envelope around the vein to 8 cm on either side.							
						LT	GN		ARG	1I	Py	0.1
						MD	GY		PRO	1I		
95.72	102.08	6.36	GRD	MG	medium grained, medium grey "salt and pepper" granodiorite, relatively unaltered with minor mm scale carbonate/chlorite veinlets with very trace disseminated pyrite							
						MD	GY		ARG	1I	Py	0.1
102.08	102.62	0.54	GRD	MG	light grey to green granodiorite with weak to moderate argillic alteration and 1 1 cm wide carbonate veinlet with very trace dissem PY along margin							
						LT	WH					
						LT	GN					
						LT	GY		ARG	2I	Py	0.1
102.62	106.60	3.98	GRD	MG	medium grey, relatively unaltered granodiorite. Trace mm scale veinlets that contain disseminated pyrite (rare), are sparse. Weak oxidation and clay alteration on sparse rare fractures throughout interval.							
						MD	GY					
						MD	GN				Py	0.1
106.60	106.92	0.32	GRD	FG	medium green, fine grained, heavily propylitically altered granodiorite with vein material from 106.78 to 106.98 containing cubic subhedral pyrite and subhedral blebs of galena, carbonate clay alteration above the first vein (4 cm wide) and the second vein (5 cm wide). Weak argillic alteation overprinted by moderate to strong propylitic alteration. Moderate argillic alteration extends for 1 m below the two veins.							
											Gn	1
									PRO	4I	Py	1
											Py	5
									ARG	2I	Gn	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
106.92	108.00	1.08	GRD	MG	medium gained light white to light grey argillic altered granodiorite. Weak propylitic overprint.							
						LT	GN					
						LT	GY		ARG	3I		
						LT	WH		PRO	2I		
108.00	108.35	0.35	VEN	MG	medium grained, propylitically altered grd with a small 3 cm wide quartz carbonate vein containing blebby smeared sphalerite and dissminated blebby pyrite, granodiorite areound the veinlet up to 15 cm on either side is moderately propylitically altered with minor weak argillic alteration.							
						MD	GY		PRO	3I	Py	1
											Sp	2
						LT	GN		ARG	1I	Py	1
108.35	109.43	1.08	GRD	MG	weak argillic altered granodirotie with a moderate propylitic overprint. Weakly silicified, with a few mm scale pyrite filled veinlets that coincide with increasing intensity of propylitic alteration.							
						MD	GY		PRO	3I		
						LT	GN					
						LT	GY		ARG	1I	Py	0.5
109.43	109.94	0.51	GRD	MG	clay altered, medium grey to brown, sulphide bearing gouge, likely related to faulting, Iron carbonate alteration coincides with clay gouge rubble. Weak sericite alteration comes with the clay. Sulphide is mostly disseminated pyrite with minor fine-grained black to sooty grey mineral - possibly a sulfosalt or fine-grained galena.							
									CLY	2I		
						MD	BN		SER	2I	Gn	1
						MD	GY		PRO	1I	Py	1
109.94	111.60	1.66	GRD	MG	propylitically altered medium grey to light green granodiorite overprinting trace argillic alteration. Weak silicification accompanies stronger propylitic alteration and coincides with a greater percentage of disseminated pyrite.							
						LT	GN		ARG	1I		
						MD	GY		PRO	3I	Py	0.5
111.60	111.92	0.32	VEN	FG	fine-grained quartz carbonate vein with blebby veinlets of sphalerite, galena, and pyrite.							
						LT	WH		SIL	5I	Sp	2.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									PRO	3I	Py	2
									PHC	2I	Gn	0.5
111.92	118.50	6.58	GRD	MG	mediuim grained, medium grey to light green altered grandiorite with alternating zones of intense argillic alteration and strong propylitic alteration. Fault gouge and sericite altered clay rubble in one interval, as well as one 5 cm wide galena/sphalerite bearing pyritic quartz vein.							
						MD	GN		SIL	2I		
						MD	GY		ARG	3I	Py	0.2
						LT	WH		PRO	3I	Gn	0.2
118.50	126.49	7.99	GRD	MG	medium grained, relatively unaltered granodiorite. Medium grey to light greyish green, with sporadic sections of more intense argillic alteration. One small fine grained pink aplite dyke near bottom of interval. Weak propylitic overprint of argillic alteration in some sections							
						LT	GN		PRO	1I		
						MD	GY		ARG	1I		

KL -19-438

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0	0	0.00	0	--	--	--	casing
1.52	3.05	1.53	1.52	99	0.97	63	--	1H	4W	
3.05	4.57	1.52	0.85	56	0.20	13	--	1H	4W	
4.57	6.10	1.53	1.5	98	0.37	24	--	2H	4W	
6.10	7.62	1.52	1.42	93	0.80	53	--	2H	4W	Carbonate infill in joints. Joints are 30 TCA.
7.62	9.14	1.52	1.42	93	0.10	7	--	3H	4W	Clay and general 'iron stain' infill in joints. Joints are 25 TAC.
9.14	10.67	1.53	1.52	99	0.40	26	--	4H	3W	
10.67	12.19	1.52	1.52	100	0.36	24	--	4H	4W	
12.19	13.72	1.53	1.53	100	0.98	64	--	4H	2W	Joints are 30 and 60 TAC infill with CA, CH, QZ and FS
13.72	15.24	1.52	1.45	95	0.36	24	--	4H	3W	Joints are 50 TAC infill with CA, QZ, CH and FS
15.24	16.76	1.52	1.52	100	0.56	37	--	4H	4W	
16.76	18.29	1.53	1.47	96	0.91	59	--	3H	4W	Joints are 60 TAC infill with CA and FS
18.29	19.81	1.52	1.52	100	0.44	29	--	4H	4W	Joints are 20 and 40 TAC infill with CA, FS and SU
19.81	21.34	1.53	1.47	96	0.68	44	--	4H	3W	Joints are 60 and 20 TAC infill with CH, FS and CA
21.34	22.86	1.52	1.48	97	0.73	48	--	3H	4W	Joints are 30 TAC infill with CH, CA and FS
22.86	24.38	1.52	1.52	100	0.26	17	--	3H	4W	Joints are 50 and 10 TAC infill with CA and CH
24.38	25.91	1.53	1.33	87	0.73	48	--	3H	2W	Joints are 50 and 70 TAC infill with FS and CA
25.91	27.43	1.52	1.38	91	0.40	26	--	2H	3W	Joints are 50 TAC infill with CL and FS
27.43	28.96	1.53	1.25	82	0.48	31	--	3H	4W	
28.96	30.48	1.52	1.35	89	0.23	15	--	2H	4W	Joint is 50 TAC infill with CL and FS
30.48	32.00	1.52	1.46	96	0.61	40	--	2H	4W	
32.00	33.53	1.53	1.31	86	0.55	36	--	3H	3W	
33.53	35.05	1.52	1.52	100	0.72	47	--	3H	2W	Joints are 30 TAC infill with CA-FS
35.05	36.58	1.53	1.46	95	0.87	57	--	3H	1W	Joints are 30 TAC infill with CA

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
36.58	38.10	1.52	1.52	100	1.20	79	--	3H	1W	Joints are 30 and 20 TAC infill with CH-CA-FS
38.10	39.62	1.52	1.52	100	0.49	32	--	3H	1W	Joints are 20 TAC infill with CL-FS
39.62	41.15	1.53	1.53	100	0.89	58	--	3H	1W	Joints are 30 and 10 TAC infill with CL-FS-CA
41.15	42.67	1.52	1.52	100	0.57	38	--	3H	1W	Joints are 30 TAC infill with CA
42.67	44.20	1.53	1.48	97	0.52	34	--	3H	1W	Joints are 30 and 50 TAC infill with CA, CH
44.20	45.72	1.52	1.52	100	0.40	26	--	3H	1W	Joints are 15 and 30 TAC infill with CA-CH
45.72	47.24	1.52	1.52	100	0.56	37	--	3H	1W	Joints are 30 and 65 TAC infill with CH-SU
47.24	48.77	1.53	1.53	100	1.03	67	--	4H	1W	Joints are 35 and 70 TAC infill with CH-CA
48.77	50.29	1.52	1.52	100	1.01	66	--	4H	1W	Joints are 25 TAC infill with CA-CH-FS
50.29	51.82	1.53	1.53	100	0.71	46	--	4H	1W	Joints are 50 and 30 TAC infill with CH
51.82	53.34	1.52	1.48	97	0.56	37	--	3H	1W	Joints are 30 TAC infill with QZ-CA-CH-FS
53.34	54.86	1.52	1.52	100	0.86	57	--	3H	1W	
54.86	56.39	1.53	1.52	99	1.08	71	--	3H	1W	Joints are 20 and 40 TAC infill with CH-HE-SU
56.39	57.91	1.52	1.52	100	0.63	41	--	3H	1W	Joint is 30 TAC infill with CA
57.91	59.44	1.53	1.49	97	0.79	52	--	4H	1W	Joints are 40 and 65 TAC infill with CL-CH
59.44	60.96	1.52	1.52	100	0.95	63	--	4H	1W	Joints are 70 and 50 TAC infill with CL-CA
60.96	62.48	1.52	1.52	100	1.18	78	--	3H	1W	Joints are 70 and 30 TAC infill with CH-CA
62.48	64.01	1.53	1.5	98	1.24	81	--	2H	1W	
64.01	65.53	1.52	1.52	100	1.16	76	--	3H	1W	Joints are 20 TAC infill with CL-CA
65.53	67.06	1.53	1.38	90	1.12	73	--	2H	1W	Joints are 50 TAC infill with CH-CA
67.06	68.58	1.52	1.46	96	0.83	55	--	2H	1W	
68.58	70.10	1.52	1.3	86	0.57	38	--	2H	1W	Joints are 10 and 70 TAC infill with CH-CA-CL
70.10	71.63	1.53	1.45	95	0.86	56	--	3H	1W	Joints are 60 TAC infill with CL-CA
71.63	73.15	1.52	1.35	89	0.69	45	--	2H	1W	Joints are 80 and 30 TAC infill with CH-CA
73.15	74.68	1.53	1.38	90	1.03	67	--	3H	1W	Joints are 20 and 80 TAC infill with CH-CA
74.68	76.20	1.52	1.44	95	1.30	86	--	4H	1W	Joints are 65 TAC infill with CH-CA
76.20	77.72	1.52	1.35	89	0.89	59	--	3H	1W	Joints are 50, 60 and 10 TAC infill with CH-CA-SU
77.72	79.25	1.53	1.52	99	1.07	70	--	4H	1W	Joints are 70 and 50 TAC infill with CH-CA

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	80.77	1.52	1.5	99	1.42	93	--	4H	1W	Joints are 60 TAC infill with CH-CA
80.77	82.30	1.53	1.52	99	1.38	90	--	4H	1W	Joints are 70 and 60 TAC infill with CH-CA-SU
82.30	83.82	1.52	1.52	100	1.35	89	--	4H	1W	Joints are 70, 60 and 20 TAC infill with CH-CA-SU
83.82	85.34	1.52	1.4	92	1.16	76	--	4H	1W	Joints are 70 TAC infill with CH-CA
85.34	86.87	1.53	1.53	100	1.50	98	--	4H	1W	Joints are 60 and 30 TAC infill with CH-CA
86.87	88.39	1.52	1.52	100	1.32	87	--	4H	1W	Joints are 70 and 40 TAC infill with CH-CA
88.39	91.44	3.05	3	98	2.62	86	--	4H	1W	Joints are 70 TAC infill with CH-CA-SU
91.44	94.49	3.05	2.93	96	2.37	78	--	4H	1W	Chlorite and carbonate infill
94.49	97.54	3.05	3.05	100	2.61	86	--	4H	1W	Chlorite and carbonate infill
97.54	100.58	3.04	3	99	2.63	87	--	4H	1W	Chlorite and carbonate infill
100.58	103.63	3.05	2.97	97	2.71	89	--	3H	1W	
103.63	106.68	3.05	2.77	91	2.58	85	--	3H	1W	Chlorite and carbonate infill <1mm
106.68	109.73	3.05	2.78	91	1.58	52	--	3H	1W	
109.73	112.78	3.05	2.9	95	1.97	65	--	3H	2W	Clay, Carboate and minor chlorite infill
112.78	115.52	2.74	2.57	94	1.18	43	--	2H	2W	Chlorite and carbonate
115.52	117.35	1.83	1.78	97	0.49	27	--	2H	2W	
117.35	120.40	3.05	2.87	94	1.70	56	--	3H	1W	Chlorite and Carbonate
120.40	123.44	3.04	3	99	2.57	85	--	4H	1W	Chlorite and carbonate
123.44	126.49	3.05	3.05	100	2.48	81	--	4H	1W	Chlorite and carbonate infill <1mm

Magnetic Suscepatibility

KL -19-438

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	2.454	OVB	
2	5.554	GRD	
3	6.11	GRD	
4	8.624	GRD	
5	5.859	GRD	
6	5.652	GRD	
7	14.13	GRD	
8	16.56	GRD	
9	27.19	GRD	
10	11.49	GRD	
11	5.427	GRD	
12	10.85	GRD	
13	13.35	GRD	
14	0.663	GRD	
15	11.65	GRD	
16	14.97	GRD	
17	0.338	VEN	
18	0.372	GRD	
19	3.195	GRD	
20	21.23	GRD	
21	3.745	GRD	
22	19.97	GRD	
23	0.623	GRD	
23	0.623	VEN	
24	8.35	GRD	
25	7.658	GRD	
26	9.816	GRD	
27	11.42	GRD	
28	7.974	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.992	VEN	
30	0	GRD	Highly fractured
31	3.372	GRD	
32	0.145	GRD	
33	0.277	GRD	
34	0.417	GRD	
35	9.267	GRD	
36	0.869	GRD	
37	0.169	GRD	
38	0.592	GRD	
39	0.209	GRD	
40	0.808	GRD	
41	0.359	GRD	
41	0.359	GRD	
42	0.93	GRD	
43	0.988	GRD	
43	0.988	GRD	
44	0.2	GRD	
45	0.315	GRD	
46	0.494	GRD	
46	0.494	GRD	
47	2.022	GRD	
48	4.04	GRD	
49	0.513	GRD	
50	0.213	GRD	
50	0.213	GRD	
51	12.2	GRD	
52	0.437	GRD	
53	0.3	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
54	0.476	GRD	
54	0.476	GRD	
55	0.442	GRD	
56	0.251	GRD	
57	0.256	GRD	
57	0.256	GRD	
58	2.306	GRD	
59	3.302	GRD	
60	0.317	GRD	
61	6.176	GRD	
62	0.288	GRD	
63	0.219	GRD	
64	0.153	GRD	
65	0.115	GRD	
66	0.311	GRD	
67	0.293	GRD	
68	0.098	GRD	
69	0.45	GRD	
70	0.242	GRD	
71	0.207	GRD	
72	0.428	GRD	
72	0.428	GRD	
73	10.44	GRD	
74	16.55	GRD	
74	16.55	GRD	
75	1.705	GRD	
76	0.361	GRD	
77	0.609	GRD	
78	0.551	GRD	
79	8.193	GRD	
80	6.523	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
81	17.45	GRD	
82	13.23	GRD	
83	15.57	GRD	
84	17.98	GRD	
85	17.38	GRD	
86	1.999	GRD	
87	20.97	GRD	
88	8.48	GRD	
89	12.43	GRD	
90	10.8	GRD	
91	13.6	GRD	
92	18.75	GRD	
93	19.4	GRD	
94	13.8	GRD	
95	20.1	GRD	
96	7.57	GRD	
97	20	GRD	
98	19.5	GRD	
99	21.1	GRD	
100	21.3	GRD	
101	15.9	GRD	
102	1.22	GRD	
103	4.21	GRD	
104	3.71	GRD	
105	6.19	GRD	
106	24.1	GRD	
107	0.422	GRD	
108	0.768	GRD	
108	0.768	VEN	
109	0.881	GRD	
110	1.41	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
111	0.254	GRD	
112	0.352	GRD	
113	1.39	GRD	
114	3.83	GRD	
115	0.553	GRD	
116	7.22	GRD	
117	1.67	GRD	
118	7.38	GRD	
119	21.9	GRD	
120	1	GRD	
121	15.7	GRD	
122	20.1	GRD	
123	19.3	GRD	
124	17	GRD	
125	17.1	GRD	
126	21.2	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-438

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W604095	☐	19-012	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604146	☐	19-013	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604133	☐	19-013	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604022	☐	19-009	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604104	☐	19-012	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604087	☐	19-012	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604066	☐	19-011	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604058	☐	19-011	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604044	☐	19-011	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604032	☐	19-009	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604029	☐	19-009	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604121	☐	19-013	low grade		☑	☐	☐
1.52	3.00	1.48	OVB, GRD	1.45	98	W604017	☐	19-009	low grade		☐	☐	☐
1.52	3.00	1.48	OVB, GRD	1.45	98	W604018	☐	19-009	low grade		☐	☐	☑
3.00	4.50	1.50	GRD	1.45	97	W604019	☐	19-009	low grade		☐	☐	☐
4.50	5.50	1.00	GRD	1.00	100	W604020	☐	19-009	low grade		☐	☐	☐
5.50	6.30	0.80	GRD	0.65	81	W604021	☐	19-009	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
6.30	7.00	0.70	GRD	0.70	100	W604023	☐	19-009	low grade		☐	☐	☐
7.00	8.30	1.30	GRD	1.30	100	W604024	☐	19-009	low grade		☐	☐	☐
8.30	9.00	0.70	GRD, GRD	0.70	100	W604025	☐	19-009	low grade		☐	☐	☐
9.00	10.15	1.15	GRD	1.10	96	W604026	☐	19-009	low grade		☐	☐	☐
10.15	11.00	0.85	GRD	0.80	94	W604027	☐	19-009	low grade		☐	☐	☐
11.00	11.82	0.82	GRD	0.75	91	W604028	☐	19-009	low grade		☐	☐	☐
11.82	12.89	1.07	GRD	1.05	98	W604030	☐	19-009	low grade		☐	☐	☐
12.89	14.05	1.16	GRD	1.10	95	W604031	☐	19-009	low grade		☐	☐	☐
14.05	15.50	1.45	GRD	1.40	97	W604033	☐	19-011	low grade		☐	☐	☐
15.50	16.50	1.00	GRD	1.00	100	W604034	☐	19-011	low grade		☐	☐	☐
16.50	16.97	0.47	GRD	0.47	100	W604035	☐	19-011	low grade		☐	☐	☐
16.97	17.30	0.33	GRD, VEN	0.30	91	W604036	☐	19-006	High grade		☐	☐	☐
17.30	18.30	1.00	GRD, VEN	1.00	100	W604037	☐	19-011	low grade		☐	☐	☐
18.30	19.30	1.00	GRD	1.00	100	W604038	☐	19-011	low grade		☐	☐	☐
19.30	19.88	0.58	GRD, GRD	0.50	86	W604039	☐	19-011	low grade		☐	☐	☐
19.88	21.05	1.17	GRD	1.15	98	W604040	☐	19-011	low grade		☐	☐	☐
21.05	21.87	0.82	GRD	0.80	98	W604041	☐	19-011	low grade		☐	☐	☐
21.87	22.87	1.00	GRD	0.95	95	W604042	☐	19-011	low grade		☐	☐	☐
22.87	23.17	0.30	GRD	0.30	100	W604043	☐	19-011	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
23.17	24.13	0.96	GRD	0.96	100	W604045	☐	19-011	low grade		☐	☐	☐
24.13	25.63	1.50	GRD	1.40	93	W604046	☐	19-011	low grade		☐	☐	☐
24.13	25.63	1.50	GRD	1.40	93	W604047	☐	19-011	low grade		☐	☐	☑
25.63	27.02	1.39	GRD	1.32	95	W604048	☐	19-011	low grade		☐	☐	☐
27.02	28.10	1.08	GRD	1.05	97	W604049	☐	19-011	low grade		☐	☐	☐
28.10	28.80	0.70	GRD	0.70	100	W604050	☐	19-011	low grade		☐	☐	☐
28.80	29.11	0.31	VEN, GRD	0.31	100	W604051	☐	19-011	low grade		☐	☐	☐
29.11	30.11	1.00	GRD	1.00	100	W604052	☐	19-011	low grade		☐	☐	☐
30.11	31.55	1.44	GRD	1.40	97	W604053	☐	19-011	low grade		☐	☐	☐
31.55	32.21	0.66	GRD	0.65	98	W604054	☐	19-011	low grade		☐	☐	☐
31.55	32.21	0.66	GRD	0.65	98	W604055	☐	19-011	low grade		☐	☑	☐
32.21	32.59	0.38	GRD	0.38	100	W604056	☐	19-011	low grade		☐	☐	☐
32.59	33.52	0.93	GRD	0.90	97	W604057	☐	19-011	low grade		☐	☐	☐
33.52	35.02	1.50	GRD	1.50	100	W604059	☐	19-011	low grade		☐	☐	☐
35.02	36.44	1.42	GRD	1.40	99	W604060	☐	19-011	low grade		☐	☐	☐
36.44	36.89	0.45	GRD	0.40	89	W604061	☐	19-011	low grade		☐	☐	☐
36.89	38.05	1.16	GRD	1.15	99	W604062	☐	19-011	low grade		☐	☐	☐
38.05	39.55	1.50	GRD	1.50	100	W604063	☐	19-011	low grade		☐	☐	☐
39.55	40.55	1.00	GRD	1.00	100	W604064	☐	19-011	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
40.55	41.12	0.57	GRD	0.50	88	W604065	☐	19-011	low grade		☐	☐	☐
41.12	42.50	1.38	GRD	1.38	100	W604067	☐	19-011	low grade		☐	☐	☐
42.50	43.00	0.50	GRD	0.50	100	W604068	☐	19-011	low grade		☐	☐	☐
43.00	44.35	1.35	GRD, GRD	1.30	96	W604069	☐	19-011	low grade		☐	☐	☐
44.35	44.85	0.50	GRD	0.50	100	W604070	☐	19-011	low grade		☐	☐	☐
44.85	46.15	1.30	GRD	1.30	100	W604071	☐	19-011	low grade		☐	☐	☐
46.15	47.25	1.10	GRD	1.10	100	W604072	☐	19-011	low grade		☐	☐	☐
47.25	48.75	1.50	GRD	1.50	100	W604073	☐	19-011	low grade		☐	☐	☐
48.75	50.07	1.32	GRD	1.25	95	W604074	☐	19-012	low grade		☐	☐	☐
50.07	50.50	0.43	GRD	0.43	100	W604075	☐	19-012	low grade		☐	☐	☐
50.07	50.50	0.43	GRD	0.43	100	W604076	☐	19-012	low grade		☐	☑	☐
50.50	51.50	1.00	GRD, GRD	1.00	100	W604077	☐	19-012	low grade		☐	☐	☐
51.50	53.00	1.50	GRD, GRD	1.50	100	W604078	☐	19-012	low grade		☐	☐	☐
53.00	53.85	0.85	GRD	0.85	100	W604079	☐	19-012	low grade		☐	☐	☐
53.85	54.37	0.52	GRD	0.50	96	W604080	☐	19-012	low grade		☐	☐	☐
54.37	55.87	1.50	GRD	1.50	100	W604081	☐	19-012	low grade		☐	☐	☐
55.87	57.00	1.13	GRD	1.10	97	W604082	☐	19-012	low grade		☐	☐	☐
57.00	58.45	1.45	GRD, GRD	1.40	97	W604083	☐	19-012	low grade		☐	☐	☐
58.45	59.95	1.50	GRD, GRD	1.50	100	W604084	☐	19-012	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
59.95	61.45	1.50	GRD	1.50	100	W604085	☐	19-012	low grade		☐	☐	☐
61.45	62.57	1.12	GRD	1.10	98	W604086	☐	19-012	low grade		☐	☐	☐
62.57	63.50	0.93	GRD	0.90	97	W604088	☐	19-012	low grade		☐	☐	☐
63.50	65.00	1.50	GRD	1.50	100	W604089	☐	19-012	low grade		☐	☐	☐
63.50	65.00	1.50	GRD	1.50	100	W604090	☐	19-012	low grade		☐	☐	☑
65.00	66.50	1.50	GRD	1.50	100	W604091	☐	19-012	low grade		☐	☐	☐
66.50	68.00	1.50	GRD	1.50	100	W604092	☐	19-012	low grade		☐	☐	☐
68.00	69.50	1.50	GRD	1.46	97	W604093	☐	19-012	low grade		☐	☐	☐
69.50	71.00	1.50	GRD	1.40	93	W604094	☐	19-012	low grade		☐	☐	☐
71.00	72.00	1.00	GRD	0.97	97	W604096	☐	19-012	low grade		☐	☐	☐
72.00	73.00	1.00	GRD, GRD	0.95	95	W604097	☐	19-012	low grade		☐	☐	☐
73.00	74.00	1.00	GRD	1.00	100	W604098	☐	19-012	low grade		☐	☐	☐
74.00	75.07	1.07	GRD, GRD	1.00	93	W604099	☐	19-012	low grade		☐	☐	☐
75.07	76.17	1.10	GRD	1.00	91	W604100	☐	19-012	low grade		☐	☐	☐
76.17	76.65	0.48	GRD	0.41	85	W604101	☐	19-012	low grade		☐	☐	☐
76.65	77.23	0.58	GRD	0.50	86	W604102	☐	19-012	low grade		☐	☐	☐
77.23	77.57	0.34	VEN, GRD	0.33	97	W599151	☐	19-006	High grade		☐	☐	☐
77.57	78.27	0.70	GRD	0.60	86	W604103	☐	19-012	low grade		☐	☐	☐
78.27	79.25	0.98	GRD	0.98	100	W604105	☐	19-012	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
79.25	79.90	0.65	GRD	0.65	100	W604106	☐	19-012	low grade		☐	☐	☐
79.90	80.20	0.30	GRD	0.28	93	W604107	☐	19-012	low grade		☐	☐	☐
80.20	81.50	1.30	GRD	1.21	93	W604108	☐	19-012	low grade		☐	☐	☐
81.50	83.00	1.50	GRD	1.50	100	W604109	☐	19-012	low grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.50	100	W604110	☐	19-012	low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	W604111	☐	19-012	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W604112	☐	19-012	low grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.37	91	W604113	☐	19-012	low grade		☐	☐	☐
89.00	90.15	1.15	GRD	1.15	100	W604114	☐	19-013	low grade		☐	☐	☐
90.15	91.15	1.00	GRD	1.00	100	W604115	☐	19-013	low grade		☐	☐	☐
91.15	92.15	1.00	GRD	1.00	100	W604150	☐	19-013	low grade		☐	☐	☐
92.15	93.00	0.85	GRD	0.85	100	W604116	☐	19-013	low grade		☐	☐	☐
93.00	94.50	1.50	GRD	1.48	99	W604117	☐	19-013	low grade		☐	☐	☐
94.50	95.72	1.22	GRD	1.22	100	W604118	☐	19-013	low grade		☐	☐	☐
95.72	97.25	1.53	GRD, GRD	1.50	98	W604119	☐	19-013	low grade		☐	☐	☐
97.25	98.75	1.50	GRD	1.50	100	W604120	☐	19-013	low grade		☐	☐	☐
98.75	100.25	1.50	GRD	1.48	99	W604122	☐	19-013	low grade		☐	☐	☐
100.25	101.75	1.50	GRD	1.50	100	W604123	☐	19-013	low grade		☐	☐	☐
101.75	102.75	1.00	GRD	0.98	98	W604124	☐	19-013	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
102.75	104.25	1.50	GRD	1.50	100	W604125	☐	19-013	low grade		☐	☐	☐
104.25	105.75	1.50	GRD	1.50	100	W604126	☐	19-013	low grade		☐	☐	☐
105.75	106.60	0.85	GRD	0.81	95	W604127	☐	19-013	low grade		☐	☐	☐
105.75	106.60	0.85	GRD	0.81	95	W604128	☐	19-013	low grade		☐	☐	☑
106.60	106.93	0.33	GRD, GRD	0.32	97	W604129	☐	19-013	low grade		☐	☐	☐
106.93	108.04	1.11	GRD	1.10	99	W604151	☐	19-013	low grade		☐	☐	☐
108.04	108.72	0.68	VEN	0.68	100	W604130	☐	19-013	low grade		☐	☐	☐
108.72	109.43	0.71	GRD	0.68	96	W604131	☐	19-013	low grade		☐	☐	☐
109.43	109.94	0.51	GRD, GRD	0.46	90	W604132	☐	19-013	low grade		☐	☐	☐
109.94	110.72	0.78	GRD, GRD	0.78	100	W604134	☐	19-013	low grade		☐	☐	☐
110.72	111.60	0.88	GRD	0.78	89	W604135	☐	19-013	low grade		☐	☐	☐
111.60	111.92	0.32	VEN, GRD	0.32	100	W599152	☐	19-006	High grade		☐	☐	☐
111.92	113.00	1.08	VEN, GRD	1.05	97	W604136	☐	19-013	low grade		☐	☐	☐
113.00	114.18	1.18	GRD	1.15	97	W604137	☐	19-013	low grade		☐	☐	☐
114.18	114.49	0.31	GRD	0.30	97	W604138	☐	19-013	low grade		☐	☐	☐
114.49	115.13	0.64	GRD	0.60	94	W604139	☐	19-013	low grade		☐	☐	☐
114.49	115.13	0.64	GRD	0.60	94	W604140	☐	19-013	low grade		☐	☑	☐
115.13	116.63	1.50	GRD	1.50	100	W604141	☐	19-013	low grade		☐	☐	☐
116.63	118.13	1.50	GRD	1.46	97	W604142	☐	19-013	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
118.13	119.63	1.50	GRD	1.46	97	W604143	☐	19-013	low grade		☐	☐	☐
119.63	121.13	1.50	GRD	1.50	100	W604144	☐	19-013	low grade		☐	☐	☐
121.13	122.63	1.50	GRD	1.50	100	W604145	☐	19-013	low grade		☐	☐	☐
122.63	124.13	1.50	GRD	1.50	100	W604147	☐	19-013	low grade		☐	☐	☐
124.13	125.63	1.50	GRD	1.50	100	W604148	☐	19-013	low grade		☐	☐	☐
125.63	126.49	0.86	GRD	0.78	91	W604149	☐	19-013	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	1.52			☐	☐	☐	☐	casing
19-012	W604087	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-012	W604095	0.00	0.00	1.76	260	☐	☐	☐	☑ KL-STD6	standard KL-6
19-012	W604104	0.00	0.00	0.28	620	☐	☐	☐	☑ ME-6	STD ME-6
19-011	W604044	0.00	0.00	0.00	50	☐	☐	☑	☐	blank
19-011	W604058	0.00	0.00	1.76	330	☐	☐	☐	☑ KL-STD6	STD KL-6
19-011	W604066	0.00	0.00	0.28	570	☐	☐	☐	☑ ME-6	standard ME-6
19-009	W604022	0.00	0.00	0.27	490	☐	☐	☐	☑ ME-6	standard ME-6
19-009	W604029	0.00	0.00	1.61	610	☐	☐	☐	☑ KL-STD6	STANDARD KL-6
19-009	W604032	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-013	W604121	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-013	W604133	0.00	0.00	1.65	50	☐	☐	☐	☑ KL-STD6	standard KL-6
19-013	W604146	0.00	0.00	0.28	420	☐	☐	☐	☑ ME-6	standard ME-6
19-009	W604017	1.52	3.00	0.03	1860	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-009	W604018	1.52	3.00	0.03	1830	☐	☑	☐	☐	Coarse reject duplicate
19-009	W604019	3.00	4.50	0.00	2120	☐	☐	☐	☐	
19-009	W604020	4.50	5.50	0.00	2070	☐	☐	☐	☐	
19-009	W604021	5.50	6.30	0.00	2040	☐	☐	☐	☐	
19-009	W604023	6.30	7.00	0.07	2040	☐	☐	☐	☐	
19-009	W604024	7.00	8.30	0.01	2230	☐	☐	☐	☐	
19-009	W604025	8.30	9.00	0.02	2140	☐	☐	☐	☐	
19-009	W604026	9.00	10.15	0.00	2410	☐	☐	☐	☐	
19-009	W604027	10.15	11.00	0.00	2090	☐	☐	☐	☐	
19-009	W604028	11.00	11.82	0.01	2300	☐	☐	☐	☐	
19-009	W604030	11.82	12.89	0.00	2440	☐	☐	☐	☐	
19-009	W604031	12.89	14.05	0.01	2280	☐	☐	☐	☐	
19-011	W604033	14.05	15.50	0.01	2340	☐	☐	☐	☐	
19-011	W604034	15.50	16.50	0.00	2170	☐	☐	☐	☐	
19-011	W604035	16.50	16.97	0.03	1470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-006	W604036	16.97	17.30	8.89	150	☐	☐	☐	☐	high grade batch sheet
19-011	W604037	17.30	18.30	0.08	1470	☐	☐	☐	☐	
19-011	W604038	18.30	19.30	0.18	1990	☐	☐	☐	☐	
19-011	W604039	19.30	19.88	0.02	2030	☐	☐	☐	☐	
19-011	W604040	19.88	21.05	0.01	2200	☐	☐	☐	☐	
19-011	W604041	21.05	21.87	0.03	2940	☐	☐	☐	☐	
19-011	W604042	21.87	22.87	0.01	2860	☐	☐	☐	☐	
19-011	W604043	22.87	23.17	0.04	420	☐	☐	☐	☐	
19-011	W604045	23.17	24.13	0.01	2690	☐	☐	☐	☐	
19-011	W604046	24.13	25.63	0.00	2290	☐	☐	☐	☐	
19-011	W604047	24.13	25.63	0.01	2380	☐	☑	☐	☐	coarse reject duplicate
19-011	W604048	25.63	27.02	0.01	2310	☐	☐	☐	☐	
19-011	W604049	27.02	28.10	0.00	2300	☐	☐	☐	☐	
19-011	W604050	28.10	28.80	0.00	2410	☐	☐	☐	☐	
19-011	W604051	28.80	29.11	0.10	220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-011	W604052	29.11	30.11	0.01	2110	☐	☐	☐	☐	
19-011	W604053	30.11	31.55	0.02	2390	☐	☐	☐	☐	
19-011	W604054	31.55	32.21	0.02	2090	☐	☐	☐	☐	
19-011	W604055	31.55	32.21	0.02	1990	☑	☐	☐	☐	1/4 duplicate
19-011	W604056	32.21	32.59	0.40	1050	☐	☐	☐	☐	
19-011	W604057	32.59	33.52	0.04	1640	☐	☐	☐	☐	
19-011	W604059	33.52	35.02	0.01	2580	☐	☐	☐	☐	
19-011	W604060	35.02	36.44	0.02	2560	☐	☐	☐	☐	
19-011	W604061	36.44	36.89	0.02	2260	☐	☐	☐	☐	
19-011	W604062	36.89	38.05	0.03	2220	☐	☐	☐	☐	
19-011	W604063	38.05	39.55	0.02	1720	☐	☐	☐	☐	
19-011	W604064	39.55	40.55	0.33	930	☐	☐	☐	☐	
19-011	W604065	40.55	41.12	0.21	260	☐	☐	☐	☐	
19-011	W604067	41.12	42.50	0.01	1600	☐	☐	☐	☐	
19-011	W604068	42.50	43.00	0.03	2020	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-011	W604069	43.00	44.35	0.01	2740	☐	☐	☐	☐	
19-011	W604070	44.35	44.85	0.02	1800	☐	☐	☐	☐	
19-011	W604071	44.85	46.15	0.01	2440	☐	☐	☐	☐	
19-011	W604072	46.15	47.25	0.01	2440	☐	☐	☐	☐	
19-011	W604073	47.25	48.75	0.01	2650	☐	☐	☐	☐	
19-012	W604074	48.75	50.07	0.01	2390	☐	☐	☐	☐	
19-012	W604075	50.07	50.50	0.07	1180	☐	☐	☐	☐	
19-012	W604076	50.07	50.50	0.10	1140	☑	☐	☐	☐	1/4 dup
19-012	W604077	50.50	51.50	0.00	2570	☐	☐	☐	☐	
19-012	W604078	51.50	53.00	0.00	2590	☐	☐	☐	☐	
19-012	W604079	53.00	53.85	0.01	1820	☐	☐	☐	☐	
19-012	W604080	53.85	54.37	0.02	3040	☐	☐	☐	☐	
19-012	W604081	54.37	55.87	0.01	2230	☐	☐	☐	☐	
19-012	W604082	55.87	57.00	0.01	2130	☐	☐	☐	☐	
19-012	W604083	57.00	58.45	0.01	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-012	W604084	58.45	59.95	0.01	2400	☐	☐	☐	☐	
19-012	W604085	59.95	61.45	0.01	2460	☐	☐	☐	☐	
19-012	W604086	61.45	62.57	0.01	2300	☐	☐	☐	☐	
19-012	W604088	62.57	63.50	0.01	2140	☐	☐	☐	☐	
19-012	W604089	63.50	65.00	0.02	2210	☐	☐	☐	☐	
19-012	W604090	63.50	65.00	0.02	2080	☐	☑	☐	☐	coarse reject duplicate
19-012	W604091	65.00	66.50	0.01	2110	☐	☐	☐	☐	
19-012	W604092	66.50	68.00	0.01	1880	☐	☐	☐	☐	
19-012	W604093	68.00	69.50	0.01	1360	☐	☐	☐	☐	
19-012	W604094	69.50	71.00	0.01	1510	☐	☐	☐	☐	
19-012	W604096	71.00	72.00	0.01	1900	☐	☐	☐	☐	
19-012	W604097	72.00	73.00	0.00	2080	☐	☐	☐	☐	
19-012	W604098	73.00	74.00	0.01	2110	☐	☐	☐	☐	
19-012	W604099	74.00	75.07	0.00	2280	☐	☐	☐	☐	
19-012	W604100	75.07	76.17	0.00	2210	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-012	W604101	76.17	76.65	0.44	450	☐	☐	☐	☐	
19-012	W604102	76.65	77.23	0.01	1770	☐	☐	☐	☐	
19-006	W599151	77.23	77.57	1.01	200	☐	☐	☐	☐	High grade sample
19-012	W604103	77.57	78.27	0.07	1190	☐	☐	☐	☐	
19-012	W604105	78.27	79.25	0.01	2250	☐	☐	☐	☐	
19-012	W604106	79.25	79.90	0.00	2250	☐	☐	☐	☐	
19-012	W604107	79.90	80.20	0.04	2100	☐	☐	☐	☐	
19-012	W604108	80.20	81.50	0.07	2340	☐	☐	☐	☐	
19-012	W604109	81.50	83.00	0.00	2220	☐	☐	☐	☐	
19-012	W604110	83.00	84.50	0.00	2340	☐	☐	☐	☐	
19-012	W604111	84.50	86.00	0.00	2380	☐	☐	☐	☐	
19-012	W604112	86.00	87.50	0.00	2270	☐	☐	☐	☐	
19-012	W604113	87.50	89.00	0.00	2280	☐	☐	☐	☐	
19-013	W604114	89.00	90.15	0.00	2370	☐	☐	☐	☐	
19-013	W604115	90.15	91.15	0.00	2530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-013	W604150	91.15	92.15	0.01	2120	☐	☐	☐	☐	
19-013	W604116	92.15	93.00	0.01	1250	☐	☐	☐	☐	
19-013	W604117	93.00	94.50	0.01	2700	☐	☐	☐	☐	
19-013	W604118	94.50	95.72	0.01	2490	☐	☐	☐	☐	
19-013	W604119	95.72	97.25	0.00	2630	☐	☐	☐	☐	
19-013	W604120	97.25	98.75	0.00	2520	☐	☐	☐	☐	
19-013	W604122	98.75	100.25	0.00	2340	☐	☐	☐	☐	
19-013	W604123	100.25	101.75	0.00	2190	☐	☐	☐	☐	
19-013	W604124	101.75	102.75	0.00	2120	☐	☐	☐	☐	
19-013	W604125	102.75	104.25	0.00	2360	☐	☐	☐	☐	
19-013	W604126	104.25	105.75	0.00	2470	☐	☐	☐	☐	
19-013	W604127	105.75	106.60	0.01	2200	☐	☐	☐	☐	
19-013	W604128	105.75	106.60	0.01	2200	☐	☑	☐	☐	coarse reject duplicate
19-013	W604129	106.60	106.93	0.13	2250	☐	☐	☐	☐	
19-013	W604151	106.93	108.04	0.01	2100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-013	W604130	108.04	108.72	0.04	430	☐	☐	☐	☐	
19-013	W604131	108.72	109.43	0.01	1780	☐	☐	☐	☐	
19-013	W604132	109.43	109.94	0.10	710	☐	☐	☐	☐	
19-013	W604134	109.94	110.72	0.03	1030	☐	☐	☐	☐	
19-013	W604135	110.72	111.60	0.13	340	☐	☐	☐	☐	
19-006	W599152	111.60	111.92	4.20	110	☐	☐	☐	☐	HIGH GRADE BATCH
19-013	W604136	111.92	113.00	0.11	1570	☐	☐	☐	☐	
19-013	W604137	113.00	114.18	0.01	1910	☐	☐	☐	☐	
19-013	W604138	114.18	114.49	5.70	220	☐	☐	☐	☐	
19-013	W604139	114.49	115.13	0.01	1660	☐	☐	☐	☐	
19-013	W604140	114.49	115.13	0.01	1800	☑	☐	☐	☐	1/4 dup
19-013	W604141	115.13	116.63	0.00	1990	☐	☐	☐	☐	
19-013	W604142	116.63	118.13	0.01	1840	☐	☐	☐	☐	
19-013	W604143	118.13	119.63	0.00	2320	☐	☐	☐	☐	
19-013	W604144	119.63	121.13	0.01	2220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-013	W604145	121.13	122.63	0.00	2450	☐	☐	☐	☐	
19-013	W604147	122.63	124.13	0.00	2390	☐	☐	☐	☐	
19-013	W604148	124.13	125.63	0.00	2390	☐	☐	☐	☐	
19-013	W604149	125.63	126.49	0.00	2370	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.04	7.05	FT	42	50	NUL	1	fault (above) and grda below			
11.80	11.81	FT	42	60	NUL	1	fault (above) and grd (below)			
16.97	17.30	VN	37	60	NUL	1	galena and pyrite filled gouged faulted vein with intense carbonate alteration above.			
								Gn	5	BL
								Py	5	BL
31.30	31.50	ST		50	NUL	2	two small 1mm wide pyrite filled stringer veinlets			
								Py	0.5	DI
32.20	32.56	FT	42	60	NUL	1	gouged fault zone with a 2 cm wide pyrite filled clay gouge at start of structure. Disseminated pyrite for rest of interval			
								Py	1	DI
33.50	33.52	VN	37	80	NUL	1	small 1 cm wide pyrite bearing quartz vein			
								Py	5	DI
40.73	40.80	VN	37	70	NUL	1	small 2 cm wide pyrite vein with hematite staining along vein margin hosted within phyllic alteration halo			
								Py	5	DI
63.45	63.46	FT	42	25	NUL	1	small fault surface between GRDA (bove) and brecciated altered grda (below); zone is 5 cm wide			
73.35	73.45	FT	42	25	NUL	1	small rubbly fault within granodiorite			
76.25	76.60	VN	37	60	NUL	1	small vein zone with diseeminated pyrite, silicified grd.			
								Py	1	DI
77.23	77.53	VN	37	60	NUL	3	set of 3 quartz carbonate veinlets that are 1-2 cm wide and contain pyrite, galena, sphalerite, and chalcopyrite.			
								Py	5	BL
								Sp	1	DI
								Cp	1	DI
								Gn	5	BL
84.62	84.65	VN	37	60	NUL	1	small 1 cm wide pyrite bearing quartz veinlet			
								Py	1	DI
85.56	85.60	VN	37	70	NUL	1	small 1 cm wide pyrite bearing quartz veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
90.68	92.83	ST		70	NUL	13	set of small mm wide quartz veinlets containing disseminated pyrite and chlorite along the margin			
								Py	0.5	DI
105.93	105.94	VN	37	70	NUL	1	small 1 mm wide pyrite bearing fracture in granodiorite.			
								Py	1	DI
107.74	107.83	VN	37	80	NUL	1	one 9 cm wide quartz carbonate vein with diseeminated blebby pyrite on the lower 3 cm margin of vein. Disseminated pyrte throughout, weak phyllic alteration grading into argillic for 15 cm below the vein, and grading into propylitic alteration 10 cm above the vein. Fine grained stringy sooty black mienral accompanies pyrite, and may potenitally be a sulfosalt			
								Py	1	DI
								Un	0.1	DI
108.18	108.22	VN	37	80	NUL	1	one small 4 cm wide quartz carbonate veinlet with blebby subhedral fine grained sphalerite and pyrite			
								Sp	1	DI
								Py	1	DI
109.43	109.73	GO	34	70	NUL	1	small 30 cm wide gouge zone with sulphide bearing whitish brown fault gouge, pyritic. Possibly fault related			
								Py	0.5	DI
111.60	111.92	VN	37	70	NUL	1	30 cm wide quartz vein with four 1 cm wide bands of fine-grained sphalerite (?), and disseminated aubhedral blebby pyrite and galena, with gougy clay material on the lower portion of the vein (which is associated with the pyrite and galena. Two 1 cm sphalerite bands are on the upper portion of the vein. The centre of the vein contains chaotic quartz carbonate infill with less sulphides			
								Gn	1	BA
								Py	1	BA
								Sp	1	BA
112.39	112.44	DY	37	50	NUL	1	small fine grained pinkish brown aplite dyke			
112.61	112.65	DY	37	60	NUL	1	small fine grained pinkish black dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
114.33	114.38	VN	37	80	NUL	1	small quartz carbonate vein with galena, pyrite, and sphalerite. Intergrown galena sphalerite and pyrite are all mixed with each other in this vein			
								Sp	1	BA
								Gn	1	BA
								Py	1	BA
114.80	115.00	GO	34	30	NUL	1	gouged light white to brown clay altered fault zone with sericite altered gouge.			
122.48	122.54	DY	37	60	NUL	1	small fine grained pinkish brown aplite dyke within unaltered granodiorite			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382889	6890874	1291.95	316.99

ZONE: Exploration

SECTION:

HOLE: KL -19-439

CLAIM: YD09217

Contractor: Kluane Drilling

Drill: 2

Core Size: NTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 08 - Sep 11, 2019

Geology Logged By: K. Willms

SURVEY			
Depth (m)	Azimuth	Dip	Method
32	32.26	-49.4	Reflex
316.99	34.96	-49.2	Reflex

TARGET: Central Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3	3	OVB
3	6.58	3.58	GRD
6.58	18	11.42	GRD
18	20	2	GRD
20	22.35	2.35	GRD
22.35	23.83	1.48	GRD
23.83	36	12.17	GRD
36	42.3	6.3	GRD
42.3	58.27	15.97	GRD
58.27	64.01	5.74	GRD
64.01	66.7	2.69	GRD
66.7	77.87	11.17	GRD
77.87	90.5	12.63	GRD
90.5	111.53	21.03	GRD
111.53	112.18	0.65	FLT
112.18	151.83	39.65	GRD

SAMPLES	
Numbers:	W599167 to W599170, w603144 to W603166, W603601 to W603648, W603651 to W603750
Total:	175
Batch:	006, 015, 016, 020, 025, 033, 036
Certificates:	WH19239257, WH19239261, WH19239275, WH19239296, WH19239342, WH19249611, WH19250393

COMMENTS

Very good mineralized intersect in this exploration hole.

151.83	153	1.17	GRD
153	179.64	26.64	GRD
179.64	194.16	14.52	GRD
194.16	198	3.84	GRD
198	204.05	6.05	GRD
204.05	205.83	1.78	GRD
205.83	216.53	10.7	GRD
216.53	218.62	2.09	GRD
218.62	226.12	7.5	GRD
226.12	227.2	1.08	FLT
227.2	237	9.8	GRD
237	242.3	5.3	GRD
242.3	251.23	8.93	GRD
251.23	252	0.77	GRD
252	254.9	2.9	FLR
254.9	255.7	0.8	FLR
255.7	263.34	7.64	GRD
263.34	263.81	0.47	QFP
263.81	265.46	1.65	GRD
265.46	266.6	1.14	FLT
266.6	267.73	1.13	VEN
267.73	268.15	0.42	GRD
268.15	268.22	0.07	VEN
268.22	269.65	1.43	GRD
269.65	272.43	2.78	GRD
272.43	272.61	0.18	VEN
272.61	275.45	2.84	FLT
275.45	287.4	11.95	GRD
287.4	292.58	5.18	GRD
292.58	293.4	0.82	FLT
293.4	303	9.6	GRD
303	304.45	1.45	FLT

304.45	305.41	0.96	FLT
305.41	316.99	11.58	GRD

Box Log

KL -19-439

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.52	5.52
2	5.52	9.14
3	9.14	13.38
4	13.38	17.14
5	17.14	20.66
6	20.66	24.38
7	24.38	28.47
8	28.47	32.79
9	32.79	36.94
10	36.94	40.85
11	40.85	45.05
12	45.05	48.83
13	48.83	53.22
14	53.22	57.44
15	57.44	62
16	62	66.23
17	66.23	70.05
18	70.05	73.9
19	73.9	77.85
20	77.85	82.13
21	82.13	86.44
22	86.44	90.64
23	90.64	94.45
24	94.45	98.24
25	98.24	102.6
26	102.6	106.62
27	106.62	110.58
28	110.58	114.38
29	114.38	118.49
30	118.49	122.7
31	122.7	126.86
32	126.86	131.28
33	131.28	135.63
34	135.63	139.58
35	139.58	143.67
36	143.67	147.81
37	147.81	151.9
38	151.9	155.67
39	155.67	159.97
40	159.97	164.35
41	164.35	168.1
42	168.1	172.36
43	172.36	176.78
44	176.78	181.07
45	181.07	185.2
46	185.2	189.17
47	189.17	193.1
48	193.1	197.09
49	197.09	201.22
50	201.22	205.66
51	205.66	210.06
52	210.06	214.29
53	214.29	218.31
54	218.31	222.42
55	222.42	226.42
56	226.42	230.4
57	230.4	234.65
58	234.65	238.52
59	238.52	242.62
60	242.62	246.89
61	246.89	251.23
62	251.23	255.39
63	255.39	259.61
64	259.61	263.46
65	263.46	267.38
66	267.38	271.35
67	271.35	275.45
68	275.45	279.55
69	279.55	283.38
70	283.38	287.1
71	287.1	290.97
72	290.97	295
73	295	298.83
74	298.83	302.64
75	302.64	307.12
76	307.12	311.02
77	311.02	315.3
78	315.3	316.99

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-439									
	142.37	11	NTW	GRD	766.7	517.3	2.47	3.1	
	144.87	15	NTW	GRD	1030.4	682.8	2.43	3.0	
	233.05	11.5	NTW	GRD	792.2	516.9	2.44	2.9	
	251.97	14	NTW	GRD	931.3	608.2	2.35	2.9	
	253.72	10	NTW	FLR	708.9	480.8	2.51	3.1	
	265.02	17	NTW	GRD	1160.6	767.8	2.41	3.0	
	266.79	10	NTW	VEN	998.9	769.3	3.53	4.4	
	267.38	17	NTW	VEN	1454	1070.4	3.02	3.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	OVB	--	Overburden and organics.							
						DK	BR					
3.00	6.58	3.58	GRD	MG	Weathered and oxidized granodiorite with localized zones of intense rubble and fracturing. Product of top of the hole/near surface processes.							
						MD	GY	RB	OXI	1I		
						LT	BR	FR	OXI	2I		
						LT	OR					
6.58	7.15	0.57	GRD	MG	Strongly argillic altered GRD within more competent and fresh granodiorite. Weak to moderate oxidation present.							
						MD	WH	RB	ARG	3I		
						LT	BR		ARG	4I		
7.15	12.70	5.55	GRD	MG	Light to medium orange/brown, weakly to moderately oxidized granodiorite that has strongly fractured intervals within. Where oxidation has not pervasively altered the rock, weak to moderate argillic and weak propylitic alteration is present. Oxidized veins are present within this interval (see secondary structures), up to 12cm wide.							
						MD	BR		OXI	2I		
						MD	OR		ARG	2I		
						LT	BR	RB	OXI	3I	Py	0.1
						LT	OR	FR	PRO	1I	Un	0.1
						LT	GN		ARG	3I		
									ARG	1I		
									OXI	1I		
12.70	13.40	0.70	GRD	MG	Propylitic altered granodiorite (weak) with trace smokey quartz breccia clast.							
						LT	GN					
						LT	BR		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
13.40	16.29	2.89	GRD	MG	Light to medium orange/brown, weakly to moderately oxidized granodiorite that has strongly fractured intervals within. Where oxidation has not pervasively altered the rock, weak to moderate argillic and weak propylitic alteration is present. Oxidized veins are present within this interval (see secondary structures), up to 12cm wide.							
16.29	18.00	1.71	GRD	MG	unaltered granodiorite.							
18.00	20.00	2.00	GRD	MG	orange / pink weathered granodiorite with underlying agrillic alteration that has been overprinted by oxidation. Minor carbonate stringers and veinlets crosscutting at 65TCA.							
						MD	BR	PA	ARG	3I	Py	0.1
						MD	OR		OXI	2I		
									ARG	2I		
20.00	22.35	2.35	GRD	MG	Fresh looking, competent and unaltered (trace propylitic) granodioroite.							
						MD	GY		PRO	1I		
						LT	GN					
						LT	PK					
22.35	23.83	1.48	GRD	MG	orange / pink weathered granodiorite. Minor carbonate stringers and veinlets crosscutting at 65TCA.							
						MD	BR	PA	OXI	2I	Ca	1
						MD	OR					
23.83	34.75	10.92	GRD	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.							
						MD	OR	PA	OXI	2I		
						MD	GY	FR	ARG	2I	Ca	1
						MD	BR					
						LT	OR		ARG	3I		
						LT	BR					
34.75	35.12	0.37	GRD	MG	argillic altered granodiorite that has been overprinted by weak weathering. Feldpsar clasts are bleached white and very swollen. Limonite and goethite found in fractures.							
						MD	BR	FR	ARG	3I	Li	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	OR		ARG	2I	Go	1
						MD	WH					
						LT	OR		OXI	2I		
35.12	36.00	0.88	GRD	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.							
36.00	37.35	1.35	GRD	MG	Argillic altered granodiorite that is weathered to light/medium orange pervasively throughout. Intervals of fresh alrgillic alteration is presnt that has weak propylitic overprinting. Strongly fractured throughout, with oxidation along fracture planes (1cm halo). Oxidized vein (~5cm) cuts granodiorite.							
						MD	OR		ARG	2I		
						LT	GN	PA	OXI	2I		
						LT	OR	FR	PRO	2I	Py	0.1
						LT	BR		OXI	3I		
									PRO	1I		
37.35	38.17	0.82	GRD	MG	weakly propylitic altered granodiorite with minor argillic alteration patch that carries oxidized fractures (1cm halo on average).							
						LT	GN		ARG	1I		
									PRO	2I		
38.17	38.34	0.17	VEN	FG	oxidized vein cutting propylitic altered granodioroite.							
						MD	BL				Py	5
38.34	42.30	3.96	GRD	MG	Argillic altered granodiorite that is weathered to light/medium orange pervasively throughout. Intervals of fresh alrgillic alteration is presnt that has weak propylitic overprinting. Strongly fractured throughout, with oxidation along fracture planes (1cm halo). Oxidized vein (~5cm) cuts granodiorite.							
42.30	58.27	15.97	GRD	MG	Widespread zone of unaltered granodiorite that has sporadic intervals of weakly argillic/propylitic alteration. Minor carbonate veining crusscuts unit sporadically throughout as veinlets and microfracture infill locally. Magnetic mafic clasts found within granodiroite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	FR				
58.27	60.00	1.73	GRD	MG	Weak to moderately argillic altered granodiorite with zones of weak propylitic overprinting found in proximity to fine grained, pink to light brown aplite dykes that cut GRD (65 TCA)							
						MD	WH		ARG	3I		
						LT	WH	FR	PRO	1I	Py	0.1
						LT	GN		ARG	2I		
						LT	OR					
60.00	60.25	0.25	GRD	MG	strongly fractured zone of argillic/propylitic altered GRD. Minor smokey fractures and stringers resent within.							
						LT	BR					
						LT	GN					
60.25	64.01	3.76	GRD	MG	Weak to moderately argillic altered granodiorite with zones of weak propylitic overprinting found in proximity to fine grained, pink to light brown aplite dykes that cut GRD (65 TCA)							
64.01	66.70	2.69	GRD	MG	unaltered granodiorite with trace (very trace) propylitic alteration. Minor argillic alteration along fracture planes that has decomposing clays.							
						MD	GY		PRO	1I		
						LT	GN					
66.70	67.78	1.08	GRD	MG	bleached white to faint green coloured, moderately to strongly argillic altered granodiorite with weak propylitic overprinting. Argillic zone has medium pink aplite dyke cutting (see secondary).							
						MD	WH		ARG	4I		
						LT	GN		PRO	2I		
									ARG	3I		
									PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
67.78	73.15	5.37	GRD	MG	Light to medium green, intermixed phyllic to propylitic altered granodiorite. Alteration zone has disseminated pyrite found throughout, as well as in sporadic quartz and quartz carbonate veinlets and stringers found within. Fine grained, pink aplite dykes cut granodiorite locally. Minor patches of argillic alteration occur sporadically throughout. Rubbly fracture zone present for 1.5m along start of interval (67.8-69.2m).							
						MD	GN	PA	PHC	2I		
						LT	GN	RB	ARG	1I	Py	0.5
						LT	WH	FR	PHC	3I		
									PRO	3I		
									PRO	2I		
									ARG	2I		
73.15	75.90	2.75	GRD	MG	Interval of alternating weak to moderate argillic alteration, weak phyllic alteration and unaltered granodiorite with pink feldspar grains.							
						MD	WH	MO	ARG	3I		
						LT	GN	PA	POT	2I		
						LT	PK		POT	1I		
									ARG	2I		
									PHC	2I		
75.90	77.87	1.97	GRD	MG	Interval of argillic to phyllic/propyllitic altered granodiorite. Argillic alteration is largely overprited by propylitic alteration (white clay altered clasts are altered to light green colour, along with chloritic green groundmass). 70cm zone of fractured and rubbly, fine grained dyke and clay gouge present within (may be fault, but only has partial gouge infill.							
						MD	WH	FR	ARG	2I		
						LT	GN		PRO	2I		
77.87	90.50	12.63	GRD	MG	Moderate to locally strong argillic altered granodiorite with intermittent patches of trace to weak propylitic alteration, up to 70cm wide. Minor clay and carbonate stringers present. Argillic alteartion does not completely replace all grains within GRD matrix, leaving only partial clay alteation zones that have a washed/bleached appearance.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	WH	PA	PRO	1I		
						LT	PK	MO	PRO	2I		
						LT	GN		POT	1I		
									ARG	3I		
90.50	97.54	7.04	GRD	MG	Weak to moderate propylitic altered granodiorite with potentially trace phyllic alteration (?) (most grains have chlorite alteration, but there are zones of disseminated pyrite and possible sericite(?)). Locally fractured with minor seams of narrow clay infil (grey). Quartz carbonate stringers cutting throughout along with a fine grained black mineral that resembles the look of tourmaline(?) but is found infilling stringer zones.							
						MD	GN		PRO	2I	Py	1
						LT	GN		PRO	3I	To	0.1
									PHC	2I		
97.54	99.75	2.21	GRD	MG	argillic to trace potassic altered granodiorite (pink feldpsar colouration) with alternating unaltered / fresh granodiorite within. Minor quartz carbonate stringers and veinlets present. Fine grained, pink aplite dyke (16cm) cuts GRD.							
						MD	WH		ARG	3I		
						LT	PK	PA	ARG	2I		
						LT	GN	MO	PRO	2I		
									POT	1I		
99.75	104.00	4.25	GRD	MG	Fresh looking granodiorite with intermixed zones of argillic and propylitic alteration (overprinting also present, along with seperately altered zones). Minor black magnetic fragments found in GRD.							
						MD	WH		POT	1I		
						LT	PK		ARG	2I		
						LT	GN		PRO	1I		
									PRO	2I		
104.00	111.53	7.53	GRD	MG	Dominantly weak, ranging to moderately propylitic altered granodirite with sporadic argillic alteration zones (weak). Chlorite alteration replaces most feldspar clasts in GRD.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
111.53	112.00	0.47	FLT	--	Faulted and gouged fault zone consisting of micro fragments (<0.5cm) of propylitic altered granodiorite. Footwall of fault hosts a 5cm quartz-smokey quartz-carbonate vein with sulphide veining. Fault appears ~80TCA.							
						MD	BL	PB			Ak	1
						LT	GN	RB	PRO	2I	Py	1
						DK	GY	FL				
112.00	112.18	0.18	VEN	FG	Smokey quartz-ankerite vein that is highly fractured, found along the footwall of fault zone. Vein hosts disseminated pyrite.							
						MD	BL				Py	5
						DK	GY	FR			Ak	3
112.18	116.50	4.32	GRD	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.							
						MD	WH	FR	POT	1I		
						MD	GN		PRO	2I		
						LT	PK	PA	ARG	1I		
						LT	GN		PRO	3I		
116.50	118.49	1.99	GRD	MG	Moderately propylitic altered granodiorite within interval of trace propylitic and potassic alteration							
						MD	GN					
118.49	132.62	14.13	GRD	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.							
132.62	133.46	0.84	FLT	MG	zone of faults crossing propylitic altered granodiorite. Faults are identified by thin gouged and rubby fracture zones, which have smokey quartz and pyrite disseminated along contacts. 5 fault structures present in interval (1-4cm wide).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	PB				
						LT	GN	FR	PRO	2I	Py	2
133.46	151.83	18.37	GRD	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.							
151.83	153.00	1.17	GRD	MG	Moderately propylitic to weakly phyllic altered granodiorite with disseminated pyrite throughout. Gouged quartz veins cut granodiorite, along with fine grained green dyke.							
						MD	GN	FR	PRO	3I	Py	1
									PHC	2I		
153.00	179.64	26.64	GRD	MG	Granodiorite ranging from fresh to weakly propylitic altered, with weak to trace localized potassic and argillic altered intervals. Intermittent areas of moderately propylitic altered granodiorite are present within, but rare. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones. Minor magnetite flooding is present locally, along with mafic clasts in the granodiorite.							
						MD	GN	FR			Py	0.1
						MD	WH					
						LT	PK	PA				
						LT	GN	MO				
179.64	194.16	14.52	GRD	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.							
						MD	GN	PA	ARG	3I		
						MD	WH	FR	ARG	2I	Py	1
						LT	GN		PRO	2I		
									PRO	4I		
									PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
194.16	198.00	3.84	GRD	MG	Unaltered, competent granodiorite with minor fine grained pink aplite dykes cutting.							
						MD	GY	FR				
198.00	204.05	6.05	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
204.05	205.83	1.78	GRD	MG	Granodiorite with trace propylitic alteration.							
205.83	216.53	10.70	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	2I	Py	1
						MD	WH		ARG	3I		
									ARG	2I		
									PRO	3I		
216.53	218.62	2.09	GRD	MG	Granodioroite with trace to no propylitic alteration.							
						MD	GN		PRO	1I		
218.62	223.52	4.90	GRD	MG	moderately propylitic altered granodiorite that alternates with weakly altered zones. Minor veining and dykes within.							
						MD	GN		PRO	2I		
									PRO	3I		
223.52	226.12	2.60	GRD	MG	moderate to strongly argillic altered granodiorite. Minor highly fractured and decomposed zones present within.							
						MD	WH		ARG	4I		
									ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
226.12	227.20	1.08	FLT	MG	Faulted and rubbly propylitic altered granodiorite. Fault zone contains gouged and swollen dark grey quartz vein zones that host disseminated pyrite, sphalerite. Arsenopyrite may be present.							
						MD	GY	RB	ARG	3I	Sp	1
						MD	WH	FR	PRO	2I	Py	2
						LT	GN					
227.20	237.00	9.80	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	2I		
						MD	WH		ARG	2I	Py	0.1
						LT	PK		ARG	3I		
						LT	GN		PRO	3I		
237.00	242.30	5.30	GRD	MG	Granodioroite with trace to no propylitic alteration.							
						MD	GN		PRO	1I		
						MD	GY		PRO	2I		
242.30	251.23	8.93	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	2I		
									ARG	2I		
									PRO	3I		
251.23	252.00	0.77	GRD	MG	weak to moderately phyllic/propylitic altered granodiorite that is fractured throughout and contains minor rubbly and gouge seams. Interval has veinlets, stringers and microfracturs throughout that are mineralized with pyrite and carbonate. Forms the hangingwall sulphide halo of deeper mineralized zone.							
						MD	GN	NE	PRO	2I	Py	6

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	RB	PHC	2I		
								FR	PHC	3I		
252.00	254.90	2.90	FLR	MG	Phyllic altered granodiorite that is part of a faulted, fractured vein zone. Vein zone is breacciated, consisting of a dense network of mineralized fractures, veinlets and stringers throughout that are chaotic in their orientation and form a net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue. Minor disseminated sphalerite (black zoning into honey brown), galena, and arsenopyrite is present throughout.							
						MD	GY	RB	PRO	2I	As	2
						MD	GN	NE	PHC	3I	Py	5
						MD	BL	BX	PHC	2I	Gn	1
								FR			Sp	2
254.90	255.70	0.80	FLR	FG	light grey to green rubbly and clay gouged fault zone with a lense of k-spar rich granodioriote (potassic). Fault zone is 30TCA in hangingo wall and footwall contacts.							
						LT	GY	RB	CLY	3I		
						LT	GN					
						LT	PK					
255.70	256.60	0.90	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	PK	FR	HEM	2I		
						LT	GN	RB	PRO	1I	Py	0.1
						LT	PK		PRO	2I		
256.60	258.00	1.40	GRD	MG	argillic altered granodiorite with hematitic alteration along fracture planes.							
						MD	RD	FR	HEM	3I		
						MD	GN		PRO	2I		
						LT	GN	RB	ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
258.00	263.34	5.34	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
263.34	263.81	0.47	QFP	FG	Strongly fractured and rubbly, light brown quartz feldpar porphyry dyke. Fine grained quartz eyes present throughout. Mineralization in the form of weak vein breccia zones are found along the hanging wall and footwall of dyke. Contacts too fractured to get angle.							
263.81	265.46	1.65	GRD	MG	Weakly phyllic to propylitic altered granodiorite found above massive sulphide vein zone. Granodiorite interval is mineralized throughout, consisting of veinlets and stringers throughout that form a weak net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue.							
						MD	GY	NE	PRO	1I	As	0.1
						LT	GN	RB	PHC	2I	Py	5
								FR				
265.46	266.60	1.14	FLT	FG	Rubbly and faulted granodiorite vein zone (Same as above) that is soft and decomposing. Dissemianted pyrite and trace arsenopyrite/galena is present scattered amongst mineralized fault zone.							
						MD	GY	FR	CLY	2I	Py	5
						LT	GN	RB	BLE	2I	As	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
266.60	266.69	0.09	VEN	CG	Massive sulphide vein zone consisting of three massive sulphide veins (11, 17, 31cm) and smaller intermittent stringers and veinlets of massive sulphide found between, in zones of grey (sericite or quartz flooding) to green altered granodiorite. Massive sulphide veins host massive galena enveloped by red to black sphalerite and intermixed pyrite and arsenopyrite. Carbonate, in the form of white and tan (ankerite) is found as blebs within the massive sulphide quartz veins, and as an ankerite vein with massive galena along the footwall contact of the vein zone. Massive sulphide stringers consisting of sphalerite, galena, pyrite and arsenopyrite eminate from the massive sulphide veins, with dissemianted sulphide (dominantly pyrite) found between major zones.							
						MD	GY	CR	SER	2I	Sp	4
						LT	GY	ZO	PHC	2I	Gn	7
						LT	GN	BX	PHC	3I	Py	2
								SW	SER	3I	Py	3
								NE				
								MA			As	5
266.69	266.83	0.14	VEN	CG	Massive sulphide vein cutting at 55TCA							
266.83	267.28	0.45	VEN	CG	granodiorite with massive sulphide stringers and disseminated pyrite throughout.							
267.28	267.73	0.45	VEN	CG	Massive sulphide vein cutting at 70TCA							
											Sp	5
											Py	30
											Gn	5
											As	15
267.73	268.15	0.42	GRD	CG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout.							
						LT	GN		PRO	2I	Py	3
									PHC	2I		
268.15	268.22	0.07	VEN	CG	Massive sulphide vein cutting at 72TCA. Vein crosses phyllic altered granodiorite with minor argillic gouge along footwall. Vein consists of massive galena, sphalerite, arsenopyrite and pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								MA			Py	8
											Gn	20
											As	15
											Sp	5
268.22	269.65	1.43	GRD	MG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout. Mineralized stringers and veinlets crosscut granodiorite sproadically. Argillic and decomposing clay altered zone found within.							
						LT	GN		ARG	2I	Py	5
									PHC	3I		
									CLY	2I		
									PHC	2I		
269.65	272.43	2.78	GRD	MG	Propylitic altered granodiorite with sporadic argillic alteration within. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
									PRO	2I		
									ARG	1I	Py	2
272.43	272.61	0.18	VEN	MG	Quartz carbonate vein brecia zone cutting altered granodiorite. Vein consists of intermixed white carbonate and tan ankerite within quartz, which hosts blebby to semi massive arsenopyrite, sphalerite, galena and pyrite. Vein cuts 40TCA. Argillic and rubbly hanging wall granodiorite contact.							
											Sp	3
											As	9
											Ak	15
											Gn	5
											Py	4
272.61	275.45	2.84	FLT	MG	Alternating zones of decomposing and strongly fractured/rubbled fault zones (with sporadic dissemianted mineralization) and strongly altered and bleached granodiorite (propylitic and minor argillic).							
						MD	WH	RB	ARG	3I	Py	2
						LT	GY	FR	PRO	3I		
						LT	GN		PHC	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
275.45	287.40	11.95	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
287.40	291.00	3.60	GRD	MG	Light to medium green, weakly to moderately propylitic altered granodiorite with a K-spar rich potassic altered interval within. Unit is fractured and friable. Minor carbonate stringers within, but overall sulphide contentent is very minimal.							
291.00	292.00	1.00	GRD	MG	K-spar rich zone within propylitic altered granodiorite. Entire section has pink alteration.							
						MD	PK		POT	3I		
									POT	2I		
292.00	292.58	0.58	GRD	MG	Light to medium green, weakly to moderately propylitic altered granodiorite with a K-spar rich potassic altered interval within. Unit is fractured and friable. Minor carbonate stringers within, but overall sulphide contentent is very minimal.							
292.58	293.40	0.82	FLT	MG	Medium green propylitic altered granodiorite that is strongly rubbled and fractured. Represents a likely faut zone. Soft black quartz breccia stringer is present within at 30tCA.							
						MD	GN	RB	PRO	2I	Py	2
						MD	BR	FR	PRO	3I		
						MD	BL					
293.40	303.00	9.60	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN	PA	PRO	3I		
						LT	GN	FR	PRO	2I	Cl	5
						LT	PK		POT	2I		
									CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
303.00	304.45	1.45	FLT	MG	Low angle clay gouged fault zone cutting light green, trace propylitic altered granodiorite. No slicks present, but it is easy to tell offset has taken place.							
						LT	GN	SH	PRO	1I		
304.45	305.41	0.96	FLT	FG	Clay gouged and faulted zone of granodiorite with minor sulphides within. Black gouge zones are present with disseminated pyrite within. Faulting appears to follow 35TCA. See secondary structures for mineralized black gouge zones.							
						MD	GY	SH	PRO	1I	Py	1
						LT	GN	RB				
305.41	316.99	11.58	GRD	MG	Dominantly unaltered granodiorite with patchy areas of weak propylitic alteration. Minor fracture zones present within.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	3.00	3.00	OVB	OVB	--	Overburden and organics.
3.00	6.58	3.58	GRD	GRD	MG	Weathered and oxidized granodiorite with localized zones of intense rubble and fracturing. Product of top of the hole/near surface processes.
6.58	7.15	0.57	GRD	GRDA	MG	Strongly argillic altered GRD within more competent and fresh granodiorite. Weak to moderate oxidation present.
7.15	12.70	5.55	GRD	GRDA	MG	Light to medium orange/brown, weakly to moderately oxidized granodiorite that has strongly fractured intervals within. Where oxidation has not pervasively altered the rock, weak to moderate argillic and weak propylitic alteration is present. Oxidized veins are present within this interval (see secondary structures), up to 12cm wide.
12.70	13.40	0.70	GRD	GRDA	MG	Propylitic altered granodiorite (weak) with trace smokey quartz breccia clast.
13.40	16.29	2.89	GRD	GRDA	MG	Light to medium orange/brown, weakly to moderately oxidized granodiorite that has strongly fractured intervals within. Where oxidation has not pervasively altered the rock, weak to moderate argillic and weak propylitic alteration is present. Oxidized veins are present within this interval (see secondary structures), up to 12cm wide.
16.29	18.00	1.71	GRD	GRDA	MG	unaltered granodiorite.
18.00	20.00	2.00	GRD	GRDA	MG	orange / pink weathered granodiorite with underlying agrillic alteration that has been overprinted by oxidation. Minor carbonate stringers and veinlets crosscutting at 65TCA.
20.00	22.35	2.35	GRD	GRD	MG	Fresh looking, competent and unaltered (trace propylitic) granodioroite.
22.35	23.83	1.48	GRD	GRDA	MG	orange / pink weathered granodiorite. Minor carbonate stringers and veinlets crosscutting at 65TCA.
23.83	34.75	10.92	GRD	GRD	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.
34.75	35.12	0.37	GRD	GRD	MG	argillic altered granodiorite that has been overprinted by weak weathering. Feldpsar clasts are bleached white and very swollen. Limonite and goethite found in fractures.
35.12	36.00	0.88	GRD	GRD	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.
36.00	37.35	1.35	GRD	GRDA	MG	Argillic altered granodiorite that is weathered to light/medium orange pervasively throughout. Intervals of fresh alrgillic alteration is presnt that has weak propylitic overprinting. Strongly fractured throughout, with oxidation along fracture planes (1cm halo). Oxidized vein (~5cm) cuts granodiorite.
37.35	38.17	0.82	GRD	GRDA	MG	weakly propylitic altered granodiorite with minor argillic alteration patch that carries oxidized fractures (1cm halo on average).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
38.17	38.34	0.17	VEN	GRDA	FG	oxidized vein cutting propylitic altered granodioroite.
38.34	42.30	3.96	GRD	GRDA	MG	Argillic altered granodiorite that is weathered to light/medium orange pervasively throughout. Intervals of fresh alrgillic alteration is presnt that has weak propylitic overprinting. Strongly fractured throughout, with oxidation along fracture planes (1cm halo). Oxidized vein (~5cm) cuts granodiorite.
42.30	58.27	15.97	GRD	GRD	MG	Widespread zone of unaltered granodiorite that has sporadic intervals of weakly argillic/propylitic alteration. Minor carbonate veining crusscuts unit sporadically throughout as veinlets and microfracture infill locally. Magnetic mafic clasts found within granodiroite.
58.27	60.00	1.73	GRD	GRDA	MG	Weak to moderately argillic altered granodiorite with zones of weak propylitic overprinting found in proximity to fine grained, pink to light brown aplite dykes that cut GRD (65 TCA)
60.00	60.25	0.25	GRD	GRDA	MG	strongly fractured zone of argillic/propylitic altered GRD. Minor smokey fractures and stringers resent within.
60.25	64.01	3.76	GRD	GRDA	MG	Weak to moderately argillic altered granodiorite with zones of weak propylitic overprinting found in proximity to fine grained, pink to light brown aplite dykes that cut GRD (65 TCA)
64.01	66.70	2.69	GRD	GRD	MG	unaltered granodiorite with trace (very trace) propylitic alteration. Minor argillic alteration along fracture planes that has decomposing clays.
66.70	67.78	1.08	GRD	GRDM	MG	bleached white to faint green coloured, moderately to strongly argillic altered granodiorite with weak propylitic overprinting. Argillic zone has medium pink aplite dyke cutting (see secondary).
67.78	73.15	5.37	GRD	GRDM	MG	Light to medium green, intermixed phyllic to propylitic altered granodiorite. Alteration zone has disseminated pyrite found throughout, as well as in sporadic quartz and quartz carbonate veinlets and stringers found within. Fine grained, pink aplite dykes cut granodiorite locally. Minor patches of argillic alteration occur sporadically throughout. Rubbly fracture zone present for 1.5m along start of interval (67.8-69.2m).
73.15	75.90	2.75	GRD	GRDM	MG	Interval of alternating weak to moderate argillic alteration, weak phyllic alteration and unaltered granodiorite with pink feldspar grains.
75.90	77.87	1.97	GRD	GRDM	MG	Interval of argillic to phyllic/propyllitic altered granodiorite. Argillic alteration is largely overprited by propylitic alteration (white clay altered clasts are altered to light green colour, along with chloritic green groundmass). 70cm zone of fractured and rubbly, fine grained dyke and clay gouge present within (may be fault, but only has partial gouge infill.
77.87	90.50	12.63	GRD	GRDA	MG	Moderate to locally strong argillic altered granodiorite with intermittent patches of trace to weak propylitic alteration, up to 70cm wide. Minor clay and carbonate stringers present. Argillic alteartion does not completely replace all grains within GRD matrix, leaving only partial clay alteation zones that have a washed/bleached appearance.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
90.50	97.54	7.04	GRD	GRDA	MG	Weak to moderate propylitic altered granodiorite with potentially trace phyllic alteration (?) (most grains have chlorite alteration, but there are zones of disseminated pyrite and possible sericite(?)). Locally fractured with minor seams of narrow clay infil (grey). Quartz carbonate stringers cutting throughout along with a fine grained black mineral that resembles the look of tourmaline(?) but is found infilling stringer zones.
97.54	99.75	2.21	GRD	GRDA	MG	argillic to trace potassic altered granodiorite (pink feldpsar colouration) with alternating unaltered / fresh granodiorite within. Minor quartz carbonate stringers and veinlets present. Fine grained, pink aplite dyke (16cm) cuts GRD.
99.75	104.00	4.25	GRD	GRDA	MG	Fresh looking granodiorite with intermixed zones of argillic and propylitic alteration (overprinting also present, along with seperately altered zones). Minor black magnetic fragments found in GRD.
104.00	111.53	7.53	GRD	GRDA	MG	Dominantly weak, ranging to moderately propylitic altered granodirite with sporadic argillic alteration zones (weak). Chlorite alteration replaces most feldspar clasts in GRD.
111.53	112.00	0.47	FLT	FLT	--	Faulted and gouged fault zone consisting of micro fragments (<0.5cm) of propylitic altered granodiorite. Footwall of fault hosts a 5cm quartz-smokey quartz-carbonate vein with sulphide veining. Fault appears ~80TCA.
112.00	112.18	0.18	VEN	FLT	FG	Smokey quartz-ankerite vein that is highly fractured, found along the footwall of fault zone. Vein hosts disseminated pyrite.
112.18	116.50	4.32	GRD	GRDA	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.
116.50	118.49	1.99	GRD	GRDA	MG	Moderately propylitic altered granodiorite within interval of trace propylitic and potassic alteration
118.49	132.62	14.13	GRD	GRDA	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.
132.62	133.46	0.84	FLT	GRDA	MG	zone of faults crossing propylitic altered granodiorite. Faults are identified by thin gouged and rubby fracture zones, which have smokey quartz and pyrite disseminated along contacts. 5 fault structures present in interval (1-4cm wide).
133.46	151.83	18.37	GRD	GRDA	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (trace), with intermittent areas of moderately propylitic altered granodiorite. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones.
151.83	153.00	1.17	GRD	GRDM	MG	Moderately propylitic to weakly phyllic altered granodiorite with disseminated pyrite throughout. Gouged quartz veins cut granodiorite, along with fine grained green dyke.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
153.00	179.64	26.64	GRD	GRD	MG	Granodiorite ranging from fresh to weakly propylitic altered, with weak to trace localized potassic and argillic altered intervals. Intermittent areas of moderately propylitic altered granodiorite are present within, but rare. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones. Minor magnetite flooding is present locally, along with mafic clasts in the granodiorite.
179.64	194.16	14.52	GRD	GRDA	MG	Unaltered granodiorite with sporadic patch zone of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.
194.16	198.00	3.84	GRD	GRD	MG	Unaltered, competent granodiorite with minor fine grained pink aplite dykes cutting.
198.00	204.05	6.05	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
204.05	205.83	1.78	GRD	GRD	MG	Granodiorite with trace propylitic alteration.
205.83	216.53	10.70	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
216.53	218.62	2.09	GRD	GRD	MG	Granodioroite with trace to no propylitic alteration.
218.62	223.52	4.90	GRD	GRDA	MG	moderately propylitic altered granodiorite that alternates with weakly altered zones. Minor veining and dykes within.
223.52	226.12	2.60	GRD	GRDA	MG	moderate to strongly argillic altered granodiorite. Minor highly fractured and decomposed zones present within.
226.12	227.20	1.08	FLT	FLTM	MG	Faulted and rubbly propylitic altered granodiorite. Fault zone contains gouged and swollen dark grey quartz vein zones that host disseminated pyrite, sphalerite. Arsenopyrite may be present.
227.20	237.00	9.80	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
237.00	242.30	5.30	GRD	GRD	MG	Granodioroite with trace to no propylitic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
242.30	251.23	8.93	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
251.23	252.00	0.77	GRD	GRDM	MG	weak to moderately phyllic/propylitic altered granodiorite that is fractured throughout and contains minor rubbly and gouge seams. Interval has veinlets, stringers and microfracturs throughout that are mineralized with pyrite and carbonate. Forms the hangingwall sulphide halo of deeper mineralized zone.
252.00	254.90	2.90	FLR	VEIN	MG	Phyllic altered granodiorite that is part of a faulted, fractured vein zone. Vein zone is breacciated, consisting of a dense network of mineralized fractures, veinlets and stringers throughout that are chaotic in their orientation and form a net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue. Minor disseminated sphalerite (black zoning into honey brown), galena, and arsenopyrite is present throughout.
254.90	255.70	0.80	FLR	FLT	FG	light grey to green rubbly and clay gouged fault zone with a lense of k-spar rich granodioriote (potassic). Fault zone is 30TCA in hangingo wall and footwall contacts.
255.70	256.60	0.90	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
256.60	258.00	1.40	GRD	GRDA	MG	argillic altered granodiorite with hematitic alteration along fracture planes.
258.00	263.34	5.34	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
263.34	263.81	0.47	QFP	DYK	FG	Strongly fractured and rubbly, light brown quartz feldpar porphyry dyke. Fine grained quartz eyes present throughout. Mineralization in the form of weak vein breccia zones are found along the hanging wall and footwall of dyke. Contacts too fractured to get angle.
263.81	265.46	1.65	GRD	GRDM	MG	Weakly phyllic to propylitic altered granodiorite found above massive sulphide vein zone. Granodiorite interval is mineralized throughout, consisting of veinlets and stringers throughout that form a weak net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
265.46	266.60	1.14	FLT	FLTM	FG	Rubbly and faulted granodiorite vein zone (Same as above) that is soft and decomposing. Dissemianted pyrite and trace arsenopyrite/galena is present scattered amongst mineralized fault zone.
266.60	266.69	0.09	VEN	VEIN	CG	Massive sulphide vein zone consisting of three massive sulphide veins (11, 17, 31cm) and smaller intermittent stringers and veinlets of massive sulphide found between, in zones of grey (sericite or quartz flooding) to green altered granodiorite. Massive sulphide veins host massive galena enveloped by red to black sphalerite and intermixed pyrite and arsenopyrite. Carbonate, in the form of white and tan (ankerite) is found as blebs within the massive sulphide quartz veins, and as an ankerite vein with massive galena along the footwall contact of the vein zone. Massive sulphide stringers consisting of sphalerite, galena, pyrite and arsenopyrite eminate from the massive sulphide veins, with dissemianted sulphide (dominantly pyrite) found between major zones.
266.69	266.83	0.14	VEN	VEIN	CG	Massive sulphide vein cutting at 55TCA
266.83	267.28	0.45	VEN	VEIN	CG	granodiorite with massive sulphide stringers and disseminated pyrite throughout.
267.28	267.73	0.45	VEN	VEIN	CG	Massive sulphide vein cutting at 70TCA
267.73	268.15	0.42	GRD	GRDM	CG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout.
268.15	268.22	0.07	VEN	VEIN	CG	Massive sulphide vein cutting at 72TCA. Vein crosses phyllic altered granodiorite with minor argillic gouge along footwall. Vein consists of massive galena, sphalerite, arsenopyrite and pyrite.
268.22	269.65	1.43	GRD	GRDM	MG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout. Mineralized stringers and veinlets crosscut granodiorite sproadically. Argillic and decomposing clay altered zone found within.
269.65	272.43	2.78	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic alteration within. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
272.43	272.61	0.18	VEN	VEIN	MG	Quartz carbonate vein brecia zone cutting altered granodiorite. Vein consists of intermixed white carbonate and tan ankerite within quartz, which hosts blebby to semi massive arsenopyrite, sphalerite, galena and pyrite. Vein cuts 40TCA. Argillic and rubbly hanging wall granodiorite contact.
272.61	275.45	2.84	FLT	FLTM	MG	Alternating zones of decomposing and strongly fractured/rubbled fault zones (with sporadic dissemianted mineralization) and strongly altered and bleached granodiorite (propylitic and minor argillic).
275.45	287.40	11.95	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
287.40	291.00	3.60	GRD	GRDA	MG	Light to medium green, weakly to moderately propylitic altered granodiorite with a K-spar rich potassic altered interval within. Unit is fractured and friable. Minor carbonate stringers within, but overall sulphide contentent is very minimal.
291.00	292.00	1.00	GRD	GRDA	MG	K-spar rich zone within propylitic altered granodiorite. Entire section has pink alteration.
292.00	292.58	0.58	GRD	GRDA	MG	Light to medium green, weakly to moderately propylitic altered granodiorite with a K-spar rich potassic altered interval within. Unit is fractured and friable. Minor carbonate stringers within, but overall sulphide contentent is very minimal.
292.58	293.40	0.82	FLT	FLTA	MG	Medium green propylitic altered granodiorite that is strongly rubbled and fractured. Represents a likely faut zone. Soft black quartz breccia stringer is present within at 30tCA.
293.40	303.00	9.60	GRD	GRDA	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.
303.00	304.45	1.45	FLT	FLT	MG	Low angle clay gouged fault zone cutting light green, trace propylitic altered granodiorite. No slicks present, but it is easy to tell offset has taken place.
304.45	305.41	0.96	FLT	FLTM	FG	Clay gouged and faulted zone of granodiorite with minor sulphides within. Black gouge zones are present with disseminated pyrite within. Faulting appears to follow 35TCA. See secondary structures for mineralized black gouge zones.
305.41	316.99	11.58	GRD	GRDA	MG	Dominantly unaltered granodiorite with patchy areas of weak propylitic alteration. Minor fracture zones present within.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	OVB	--	Overburden and organics.							
						DK	BR					
3.00	6.58	3.58	GRD	MG	Weathered and oxidized granodiorite with localized zones of intense rubble and fracturing. Product of top of the hole/near surface processes.							
						LT	OR	FR	OXI	1I		
						LT	BR	RB	OXI	2I		
						MD	GY					
6.58	18.00	11.42	GRD	MG	Light to medium orange/brown, weakly to moderately oxidized granodiorite that has strongly fractured intervals within. Where oxidation has not pervasively altered the rock, weak to moderate argillic and weak propylitic alteration is present. Oxidized veins are present within this interval (see secondary structures), up to 12cm wide.							
									ARG	1I		
									PRO	1I		
						MD	OR		ARG	3I		
						LT	BR		OXI	1I		
						MD	BR		OXI	3I		
						LT	GN	FR	OXI	2I	Un	0.1
						LT	OR	RB	ARG	2I	Py	0.1
18.00	20.00	2.00	GRD	MG	orange / pink weathered granodiorite with underlying agrillic alteration that has been overprinted by oxidation. Minor carbonate stringers and veinlets crosscutting at 65TCA.							
						MD	BR	PA	OXI	2I	Py	0.1
									ARG	3I		
						MD	OR		ARG	2I		
20.00	22.35	2.35	GRD	MG	Fresh looking, competent and unaltered (trace propylitic) granodioroite.							
						MD	GY					
						LT	GN		PRO	1I		
						LT	PK					
22.35	23.83	1.48	GRD	MG	orange / pink weathered granodiorite. Minor carbonate stringers and veinlets crosscutting at 65TCA.							
						MD	OR	PA	OXI	2I	Ca	1
						MD	BR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.83	36.00	12.17	GRD	MG	Unaltered granodiorite with sporadic patch zones of weathered granodiorite that has underlying kaolinitic argillic alteration. Fractured zones in weathered/argillic zones have limonitic and goethite filled fracture surfaces.							
						MD	GY	PA	ARG	2I	Ca	1
						LT	BR	FR	OXI	2I		
						LT	OR		ARG	3I		
						MD	OR					
						MD	BR					
36.00	42.30	6.30	GRD	MG	Argillic altered granodiorite that is weathered to light/medium orange pervasively throughout. Intervals of fresh alrgillic alteration is presnt that has weak propylitic overprinting. Strongly fractured throughout, with oxidation along fracture planes (1cm halo). Oxidized vein (~5cm) cuts granodiorite.							
						LT	GN	FR	OXI	3I	Py	0.1
									PRO	2I		
						MD	OR		PRO	1I		
						LT	OR		OXI	2I		
						LT	BR	PA	ARG	2I		
42.30	58.27	15.97	GRD	MG	Widespread zone of unaltered granodiorite that has sporadic intervals of weakly argillic/propylitic alteration. Minor carbonate veining crusscuts unit sporadically throughout as veinlets and microfracture infill locally. Magnetic mafic clasts found within granodiroite.							
						MD	GY	FR				
58.27	64.01	5.74	GRD	MG	Weak to moderately argillic altered granodiorite with zones of weak propylitic overprinting found in proximity to fine grained, pink to light brown aplite dykes that cut GRD (65 TCA). Trace zone of potassic alteration overprinting argillic zone.							
						LT	WH		ARG	3I		
						LT	OR		PRO	1I		
						LT	GN	FR	POT	2I	Py	0.1
						MD	WH		ARG	2I		
64.01	66.70	2.69	GRD	MG	unaltered granodiorite with trace (very trace) propylitic alteration. Minor argillic alteration along fracture planes that has decomposing clays.							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	1I		
66.70	77.87	11.17	GRD	MG	Interval of weakly to moderately propylitic and phyllic altered granodiorite with intermittent interals of moderate to strong argillic alteration sporadically throughout. Altered granodiorite zone has dissemianted pyrite largely throughout entire interval, except where argillic alteration zones occur (combined with ligt green colouration with lack of strong chlorite suggests phyllic alteration). Argillic altered granodiorite has highly fractured and rubbly sections, which appear associated to the emplacement of fine grained, pink aplite dykes. Local patches of unaltered granodiorite occur, but are rare within. Pyrite is found as disseminations throughout phyllic/propylitic alteration zones and as fracture infill.							
									PRO	2I		
						LT	WH	FR	SER	1I	Py	0.1
									PHC	2I		
									PRO	4I		
						LT	PK		PRO	3I		
									ARG	4I		
						MD	WH		ARG	2I		
						MD	GN	PA	PHC	3I		
						LT	GN	RB	ARG	3I		
77.87	90.50	12.63	GRD	MG	Moderate to locally strong argillic altered granodiorite with intermittent patches of trace to weak propylitic alteration, up to 70cm wide. Minor clay and carbonate stringers present. Argillic alteartion does not completely replace all grains within GRD matrix, leaving only partial clay alteation zones that have a washed/bleached appearance.							
						LT	GN	PA	POT	1I		
						LT	PK		PRO	2I		
									PRO	1I		
						MD	WH	MO	ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
90.50	111.53	21.03	GRD	MG	Interval of dominantly weak to moderate propylitic alteration with local phyllic and argillic alteration zones intermittently throughout. Propylitic/phyllic altered zones have dissemianted pyrite throughout, along with minor pyrite stringers. Moderately argillic altered granodiorite has partially replaced to fully replaced clay feldspars, and typically has a weak propylitic overprint. Localized intervals of unaltered granodiorite occur, which typically carry pink feldspars (weak potassic?). Fine grained orange and green aplite dykes present within (see secondary structures).							
						MD	WH	PA	POT	2I	Py	0.1
						MD	GN		PRO	2I		
						LT	GN	FR	ARG	2I		
						LT	WH	MO	PHC	2I		
						LT	PK		PRO	3I		
									ARG	3I		
111.53	112.18	0.65	FLT	--	Faulted and gouged fault zone consisting of micro fragments (<0.5cm) of propylitic altered granodiorite. Footwall of fault hosts a 5cm quartz-smokey quartz-carbonate vein with sulphide veining. Fault appears ~80TCA.							
						LT	GN	PB	PRO	2I	Py	1
						DK	GY	RB			Ak	1
						MD	BL	FL				
112.18	151.83	39.65	GRD	MG	Weakly propylitic altered granodiorite with local potassic and argillic altered intervals (weak to trace). Intermittent areas of moderately propylitic altered granodiorite are present within. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones. Faulting and gouge zones locally present within.							
						LT	GN		PRO	3I		
						LT	PK	FR	PRO	2I	Py	0.1
						MD	WH	PA	ARG	1I		
						MD	GN		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
151.83	153.00	1.17	GRD	MG	Moderately propylitic to weakly phyllic altered granodiorite with disseminated pyrite throughout. Gouged quartz veins cut granodiorite, along with fine grained green dyke.							
						MD	GN	FR	PRO	3I	Py	1
									PHC	2I		
153.00	179.64	26.64	GRD	MG	Granodiorite ranging from fresh to weakly propylitic altered, with weak to trace localized potassic and argillic altered intervals. Intermittent areas of moderately propylitic altered granodiorite are present within, but rare. Potassic alteration is weak, appearing as minor pink potassic staining of feldspars, while argillic alteration is typically confined to localized fracture zones. Minor magnetite flooding is present locally, along with mafic clasts in the granodiorite.							
						LT	GN					
						LT	PK	MO				
						MD	WH	FR				
						MD	GN	PA			Py	0.1
179.64	194.16	14.52	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						LT	GN		PRO	2I		
									PRO	4I		
									ARG	3I		
						MD	GN	FR	PRO	3I		
						MD	WH	PA	ARG	2I	Py	1
194.16	198.00	3.84	GRD	MG	Unaltered, competent granodiorite with minor fine grained pink aplite dykes cutting.							
						MD	GY	FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
198.00	204.05	6.05	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	3I	Py	0.1
									ARG	2I		
						LT	WH		PRO	2I		
204.05	205.83	1.78	GRD	MG	Granodiorite with trace propylitic alteration.							
						LT	GN		PRO	1I		
205.83	216.53	10.70	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
									ARG	2I		
						MD	GN		ARG	3I	Py	1
									PRO	3I		
						MD	WH		PRO	2I		
216.53	218.62	2.09	GRD	MG	Granodioroite with trace to no propylitic alteration.							
						MD	GN		PRO	1I		
218.62	226.12	7.50	GRD	MG	Weak to moderately propylitic altered granodiorite with argillic overprinting along fracture and rubble zones. Propylitic alteration grades into argillic altered granodiorite with trace proylitic overprinting at 223.5m.							
									ARG	2I		
						MD	GN		PRO	3I	Sp	1
						LT	GN		ARG	3I	Py	1
						MD	WH		PRO	2I	Gn	1
226.12	227.20	1.08	FLT	MG	mineralized vein zone in faulted and strongly argillic altered grd. Pyrite, arsonopyrite, galena, sphalerite occur in vein section. Ankerite appears to infill and replace mineralized vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	RB	PRO	2I	Sp	1
						LT	GN					
						MD	WH	FR	ARG	3I	Py	2
227.20	237.00	9.80	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		ARG	2I		
						MD	WH		PRO	2I	Py	0.1
						LT	GN		PRO	3I		
						LT	PK		ARG	3I		
237.00	242.30	5.30	GRD	MG	Granodioroite with trace to no propylitic alteration.							
						MD	GN		PRO	1I		
						MD	GY		PRO	2I		
242.30	251.23	8.93	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	3I		
									PRO	2I		
									ARG	2I		
251.23	252.00	0.77	GRD	MG	weak to moderately phyllic/propylitic altered granodiorite that is fractured throughout and contains minor rubbly and gouge seams. Interval has veinlets, stringers and microfracturs throughout that are mineralized with pyrite and carbonate. Forms the hangingwall sulphide halo of deeper mineralized zone.							
						LT	GN	NE	PHC	3I	Py	6
						MD	GN	RB	PRO	2I		
								FR	PHC	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
252.00	254.90	2.90	FLR	MG	Phyllic altered granodiorite that is part of a faulted, fractured vein zone. Vein zone is breacciated, consisting of a dense network of mineralized fractures, veinlets and stringers throughout that are chaotic in their orientation and form a net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue. Minor disseminated sphalerite (black zoning into honey brown), galena, and arsenopyrite is present throughout. 60 TCA							
						MD	GN	RB	PRO	2I	Gn	1
						MD	BL	NE	PHC	2I	Py	5
						MD	GY	FR	PHC	3I	As	2
								BX			Sp	2
254.90	255.70	0.80	FLR	FG	light grey to green rubbly and clay gouged fault zone with a lense of k-spar rich granodioriote (potassic). Fault zone is 30TCA in hangingo wall and footwall contacts.							
						LT	PK					
						LT	GN	RB	CLY	3I		
						LT	GY					
255.70	263.34	7.64	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	PK	FR	HEM	2I	Py	0.1
						LT	PK		PRO	1I		
						LT	GN	RB	PRO	2I		
263.34	263.81	0.47	QFP	FG	Strongly fractured and rubbly, light brown quartz feldpar porphyry dyke. Fine grained quartz eyes present throughout. Mineralization in the form of weak vein breccia zones are found along the hanging wall and footwall of dyke. Contacts too fractured to get angle.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
263.81	265.46	1.65	GRD	MG	Weakly phyllic to propylitic altered granodiorite found above massive sulphide vein zone. Granodiorite interval is mineralized throughout, consisting of veinlets and stringers throughout that form a weak net textured interval. Fractures and rubbly gouge and present as thin seams throughout the interal. Veins range from quartz to smokey quartz to quartz carbonate. Pyrite is the dominant mineral, along with ankerite and carbonate gangue.							
						MD	GY	FR	PRO	1I	Py	5
						LT	GN	RB	PHC	2I	As	0.1
								NE				
265.46	266.60	1.14	FLT	FG	Rubbly and faulted granodiorite vein zone (Same as above) that is soft and decomposing. Dissemianted pyrite and trace arsenopyrite/galena is present scattered amongst mineralized fault zone.							
						MD	GY	FR	CLY	2I	As	1
						LT	GN	RB	BLE	2I	Py	5
266.60	267.73	1.13	VEN	CG	Massive sulphide vein zone consisting of three massive sulphide veins (11, 17, 31cm) and smaller intermittent stringers and veinlets of massive sulphide found between, in zones of grey (sericite or quartz flooding) to green altered granodiorite. Massive sulphide veins host massive galena enveloped by red to black sphalerite and intermixed pyrite and arsenopyrite. Carbonate, in the form of white and tan (ankerite) is found as blebs within the massive sulphide quartz veins, and as an ankerite vein with massive galena along the footwall contact of the vein zone. Massive sulphide stringers consisting of sphalerite, galena, pyrite and arsenopyrite eminate from the massive sulphide veins, with dissemianted sulphide (dominantly pyrite) found between major zones.							
						MD	GY	NE	SER	3I	As	5
								SW			Sp	4
						LT	GY	BX	PHC	3I	Gn	7
						LT	GN	MA	PHC	2I	Py	3
								CR				
								ZO	SER	2I	Py	2
267.73	268.15	0.42	GRD	CG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									PHC	2I		
						LT	GN		PRO	2I	Py	3
268.15	268.22	0.07	VEN	CG	Massive sulphide vein cutting at 72TCA. Vein crosses phyllic altered granodiorite with minor argillic gouge along footwall. Vein consists of massive galena, sphalerite, arsenopyrite and pyrite.							
								MA			Sp	5
											Py	8
											Gn	20
											As	15
268.22	269.65	1.43	GRD	MG	Propylitic to phyllic altered granodiorite with disseminated pyrite throughout. Mineralized stringers and veinlets crosscut granodiorite sproadically. Argillic and decomposing clay altered zone found within.							
									PHC	3I		
									ARG	2I		
									CLY	2I		
						LT	GN		PHC	2I	Py	5
269.65	272.43	2.78	GRD	MG	Propylitic altered granodiorite with sporadic argillic alteration within. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
									PRO	2I	Py	2
									ARG	1I		
272.43	272.61	0.18	VEN	MG	Quartz carbonate vein brecia zone cutting altered granodiorite. Vein consists of intermixed white carbonate and tan ankerite within quartz, which hosts blebby to semi massive arsenopyrite, sphalerite, galena and pyrite. Vein cuts 40TCA. Argillic and rubbly hanging wall granodiorite contact.							
											Py	4
											Gn	5
											Sp	3
											As	9
											Ak	15
272.61	275.45	2.84	FLT	MG	Alternating zones of decomposing and strongly fractured/rubbled fault zones (with sporadic dissemianted mineralization) and strongly altered and bleached granodiorite (propylitic and minor argillic).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	RB	ARG	3I	Py	2
						LT	GN	FR	PHC	1I		
						MD	WH		PRO	3I		
275.45	287.40	11.95	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
287.40	292.58	5.18	GRD	MG	Light to medium green, weakly to moderately propylitic altered granodiorite with a K-spar rich potassic altered interval within. Unit is fractured and friable. Minor carbonate stringers within, but overall sulphide contentent is very minimal.							
						LT	GN		PRO	3I		
						MD	GN		PRO	2I		
						MD	PK		POT	2I		
292.58	293.40	0.82	FLT	MG	Medium green propylitic altered granodiorite that is strongly rubbled and fractured. Represents a likely faut zone. Soft black quartz breccia stringer is present within at 30tCA.							
						MD	BR	FR	PRO	3I	Py	2
						MD	BL	RB	PRO	2I		
						MD	GN					
293.40	303.00	9.60	GRD	MG	Propylitic altered granodiorite with sporadic argillic Granodiorite with alteration that ranges from dominantly propylitic (weak to moderate), to weakly/moderately argillic altered granodiorite with weak propylitic overprinting. GRD is highly fractured in particular intervals. Quartz carbonate veining bearing pyrite and other minor sulphdies are present locally.							
						MD	GN		PRO	2I		
									CHL	3I		
						LT	GN	FR	POT	2I		
						LT	PK	PA	PRO	3I	Cl	5
303.00	304.45	1.45	FLT	MG	Low angle (10TCA) clay gouged fault zone cutting light green, trace propylitic altered granodiorite. No slicks present, but it is easy to tell offset has taken place.							
						LT	GN	SH	PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
304.45	305.41	0.96	FLT	FG	Clay gouged and faulted zone of granodiorite with minor sulphides within. Black gouge zones are present with disseminated pyrite within. Faulting appears to follow 35TCA. See secondary structures for mineralized black gouge zones.							
						MD	GY	SH				
						LT	GN	RB	PRO	1I	Py	1
305.41	316.99	11.58	GRD	MG	Dominantly unaltered granodiorite with patchy areas of weak propylitic alteration. Minor fracture zones present within.							
								FR	PRO	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0	0	0.00	0	--	--	--	
1.52	3.05	1.53	1.17	76	0.00	0	--	1H	6W	
3.05	6.10	3.05	2.6	85	0.23	8	--	2H	4W	
6.10	9.14	3.04	3.03	100	1.28	42	--	2H	3W	
9.14	12.19	3.05	2.84	93	1.86	61	--	3H	2W	
12.19	15.24	3.05	2.94	96	1.89	62	--	3H	2W	
15.24	18.29	3.05	2.98	98	0.50	16	--	3H	2W	
18.29	21.34	3.05	2.82	92	1.30	43	--	3H	2W	
21.34	24.38	3.04	3.04	100	1.49	49	--	3H	2W	
24.38	27.43	3.05	2.87	94	1.27	42	--	2H	2W	
27.43	30.48	3.05	2.89	95	2.12	70	--	3H	2W	
30.48	33.53	3.05	3.04	100	1.05	34	--	3H	2W	
33.53	36.58	3.05	2.73	90	1.30	43	--	3H	2W	
36.58	39.62	3.04	3.04	100	1.91	63	--	3H	3W	
39.62	42.67	3.05	3.03	99	2.22	73	--	3H	2W	
42.67	45.72	3.05	3.05	100	0.65	21	--	3H	2W	
45.72	48.77	3.05	3.05	100	1.30	43	--	4H	1W	
48.77	51.82	3.05	2.81	92	1.49	49	--	4H	1W	
51.82	54.86	3.04	3.04	100	1.59	52	--	4H	1W	
54.86	57.91	3.05	3.05	100	2.39	78	--	5H	1W	
57.91	60.96	3.05	2.78	91	1.26	41	--	2H	1W	
60.96	64.01	3.05	3.03	99	1.52	50	--	3H	1W	
64.01	67.06	3.05	3.03	99	2.19	72	--	3H	1W	
67.06	70.10	3.04	2.83	93	0.53	17	--	3H	1W	
70.10	73.15	3.05	3.05	100	2.32	76	--	3H	1W	
73.15	76.20	3.05	3.05	100	1.98	65	--	3H	1W	
76.20	79.25	3.05	3.05	100	1.48	49	--	3H	1W	
79.25	82.30	3.05	3.05	100	1.47	48	--	3H	1W	
82.30	85.34	3.04	3.04	100	2.58	85	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
85.34	88.39	3.05	3.05	100	1.74	57	--	3H	1W	
88.39	91.44	3.05	3.05	100	1.68	55	--	3H	1W	
91.44	94.49	3.05	2.92	96	0.99	32	--	3H	1W	
94.49	97.54	3.05	3.05	100	1.64	54	--	3H	1W	
97.54	100.58	3.04	2.99	98	2.30	76	--	4H	1W	
100.58	103.63	3.05	2.95	97	1.98	65	--	4H	1W	
103.63	106.68	3.05	2.93	96	1.67	55	--	3H	1W	
106.68	109.73	3.05	2.98	98	1.73	57	--	4H	1W	
109.73	112.78	3.05	3.05	100	1.66	54	--	4H	1W	
112.78	115.82	3.04	2.88	95	1.01	33	--	3H	1W	
115.82	118.87	3.05	3.05	100	1.60	52	--	4H	1W	
118.87	121.92	3.05	3.03	99	1.62	53	--	4H	1W	
121.92	124.97	3.05	3.05	100	1.53	50	--	4H	1W	
124.97	128.02	3.05	3.04	100	2.23	73	--	4H	1W	
128.02	131.06	3.04	3.01	99	2.57	85	--	4H	1W	
131.06	134.11	3.05	3.05	100	1.91	63	--	2H	1W	
134.11	137.16	3.05	3.04	100	2.14	70	--	3H	1W	
137.16	140.21	3.05	3.05	100	1.82	60	--	3H	1W	
140.21	143.26	3.05	3	98	2.00	66	--	4H	1W	
143.26	146.30	3.04	2.97	98	1.32	43	--	3H	1W	
146.30	149.35	3.05	3.05	100	1.47	48	--	3H	1W	
149.35	152.40	3.05	2.7	89	0.50	16	--	4H	1W	
152.40	155.45	3.05	2.78	91	1.77	58	--	3H	1W	
155.45	158.50	3.05	3.05	100	2.86	94	--	4H	1W	
158.50	161.54	3.04	3.04	100	2.87	94	--	4H	1W	
161.54	164.59	3.05	3.05	100	1.99	65	--	3H	1W	
164.59	167.64	3.05	2.85	93	1.74	57	--	3H	1W	
167.64	170.69	3.05	3.05	100	2.13	70	--	4H	1W	
170.69	173.74	3.05	2.96	97	2.62	86	--	3H	1W	
173.74	176.78	3.04	3.04	100	2.98	98	--	3H	1W	
176.78	179.83	3.05	3.05	100	2.98	98	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
179.83	182.88	3.05	2.94	96	2.15	70	--	3H	1W	
182.88	185.93	3.05	3.05	100	1.92	63	--	3H	1W	
185.93	188.98	3.05	3.05	100	2.23	73	--	3H	1W	
188.98	192.02	3.04	3.04	100	1.41	46	--	4H	1W	
192.02	195.07	3.05	2.64	87	1.62	53	--	3H	1W	
195.07	198.12	3.05	3.05	100	2.04	67	--	4H	1W	
198.12	201.17	3.05	2.94	96	2.45	80	--	3H	1W	
201.17	204.22	3.05	3.05	100	2.77	91	--	4H	1W	
204.22	207.26	3.04	3	99	2.28	75	--	4H	1W	
207.26	210.31	3.05	3.05	100	2.69	88	--	4H	1W	
210.31	213.36	3.05	2.98	98	2.48	81	--	4H	1W	
213.36	216.41	3.05	3.05	100	1.54	50	--	3H	1W	
216.41	219.46	3.05	3.05	100	2.47	81	--	4H	1W	
219.46	222.50	3.04	2.94	97	1.33	44	--	3H	1W	
222.50	225.55	3.05	2.89	95	1.97	65	--	3H	1W	
225.55	228.60	3.05	2.75	90	1.08	35	--	3H	1W	
228.60	231.65	3.05	3.05	100	1.69	55	--	3H	1W	
231.65	234.70	3.05	2.83	93	0.88	29	--	3H	1W	
234.70	237.74	3.04	3.04	100	1.64	54	--	3H	1W	
237.74	240.79	3.05	2.73	90	1.50	49	--	4H	1W	
240.79	243.84	3.05	3.03	99	1.94	64	--	3H	1W	
243.84	246.89	3.05	3.05	100	2.08	68	--	3H	1W	
246.89	249.94	3.05	2.9	95	2.02	66	--	3H	1W	
249.94	252.98	3.04	3.04	100	1.80	59	--	3H	1W	
252.98	256.03	3.05	3.02	99	2.30	75	--	2H	1W	
256.03	259.08	3.05	2.94	96	0.91	30	--	3H	1W	
259.08	262.13	3.05	3.02	99	1.87	61	--	3H	1W	
262.13	265.18	3.05	2.76	90	0.36	12	--	3H	1W	
265.18	268.22	3.04	3.04	100	1.68	55	--	2H	1W	
268.22	271.27	3.05	2.73	90	1.19	39	--	2H	1W	
271.27	274.32	3.05	3	98	2.06	68	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
274.32	277.37	3.05	3.05	100	1.47	48	--	3H	1W	
277.37	280.42	3.05	2.95	97	1.62	53	--	3H	1W	
280.42	283.46	3.04	2.78	91	0.53	17	--	3H	1W	
283.46	286.51	3.05	3.05	100	1.37	45	--	3H	1W	
286.51	289.56	3.05	2.93	96	0.70	23	--	3H	1W	
289.56	292.61	3.05	2.79	91	0.95	31	--	3H	1W	
292.61	295.66	3.05	2.98	98	0.56	18	--	3H	1W	
295.66	298.70	3.04	3.02	99	1.12	37	--	3H	1W	
298.70	301.75	3.05	3.05	100	1.18	39	--	3H	1W	
301.75	304.80	3.05	2.9	95	1.43	47	--	2H	1W	
304.80	307.85	3.05	3.05	100	1.84	60	--	3H	1W	
307.85	310.90	3.05	3.05	100	1.89	62	--	4H	1W	
310.90	313.94	3.04	2.98	98	1.84	61	--	4H	1W	
313.94	316.99	3.05	2.96	97	2.52	83	--	4H	1W	

Magnetic Suscepatibility

KL -19-439

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
3	3.31	OVB	
3	3.31	GRD	
4	5.11	GRD	
5	11	GRD	
6	20.3	GRD	
7	0.526	GRD	
8	0.441	GRD	
9	0.303	GRD	
10	1.11	GRD	
11	0.379	GRD	
12	0.31	GRD	
13	0.251	GRD	
14	0.424	GRD	
15	0.387	GRD	
16	9.26	GRD	
17	5.96	GRD	
18	16.1	GRD	
18	16.1	GRD	
19	1.09	GRD	
20	12.7	GRD	
20	12.7	GRD	
21	14.1	GRD	
22	14.1	GRD	
23	0.334	GRD	
24	17.9	GRD	
25	25.4	GRD	
26	6.45	GRD	
27	22.5	GRD	
28	23.6	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	28.8	GRD	
30	20.3	GRD	
31	6.54	GRD	
32	4.32	GRD	
33	5.1	GRD	
34	3.23	GRD	
35	2.96	GRD	
36	5.9	GRD	
36	5.9	GRD	
37	0.116	GRD	
38	0.362	GRD	
39	0.059	GRD	
40	0.632	GRD	
41	0.485	GRD	
42	0.546	GRD	
43	17.6	GRD	
44	14.9	GRD	
45	6.78	GRD	
46	12.3	GRD	
47	15.7	GRD	
48	14.3	GRD	
49	26.3	GRD	
50	17.6	GRD	
51	11.3	GRD	
52	18.1	GRD	
53	19.8	GRD	
54	27.2	GRD	
55	0.837	GRD	
56	16.7	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
57	2.58	GRD	
58	1.94	GRD	
59	0.997	GRD	
60	0.255	GRD	
61	0.465	GRD	
62	4.17	GRD	
63	0.303	GRD	
64	18.7	GRD	
65	29.6	GRD	
66	25.91	GRD	
67	6.819	GRD	
68	0	GRD	
69	11.88	GRD	
70	0.208	GRD	
71	0.274	GRD	
72	0.285	GRD	
73	1.224	GRD	
74	0.685	GRD	
75	14.29	GRD	
76	0.831	GRD	
77	0.23	GRD	
78	9.659	GRD	
79	3.454	GRD	
80	1.29	GRD	
81	0.922	GRD	
82	0.697	GRD	
83	0.536	GRD	
84	0.57	GRD	
85	4.84	GRD	
86	2.477	GRD	
87	30.19	GRD	
88	23.83	GRD	
89	4.168	GRD	
90	7.467	GRD	
91	0.851	GRD	
92	0.393	GRD	
93	0.497	GRD	
94	1.153	GRD	
95	0.642	GRD	
96	0.393	GRD	
97	1.232	GRD	
98	0.604	GRD	
99	25.74	GRD	
100	2.081	GRD	
101	0.91	GRD	
102	6.439	GRD	
103	0.485	GRD	
104	7.897	GRD	
105	1.147	GRD	
106	0.408	GRD	
107	0.411	GRD	
108	1.161	GRD	
109	0.731	GRD	
110	0.401	GRD	
111	0.496	GRD	
112	0.453	FLT	
113	2.436	GRD	
114	2.345	GRD	
115	1.574	GRD	
116	0.532	GRD	
117	2.643	GRD	
118	0.747	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
119	0.419	GRD	
120	0.87	GRD	
121	1.804	GRD	
122	0.806	GRD	
123	5.711	GRD	
124	16.86	GRD	
125	29.11	GRD	
126	29.7	GRD	
127	29.66	GRD	
128	16.93	GRD	
129	11.76	GRD	
130	0.598	GRD	
131	2.491	GRD	
132	3.054	GRD	
133	0.531	GRD	
134	0.267	GRD	
135	0.519	GRD	
136	2.957	GRD	
137	1.013	GRD	
138	0.599	GRD	
139	9.792	GRD	
140	0.376	GRD	
141	10.63	GRD	
142	0.777	GRD	
143	4.507	GRD	
144	0.257	GRD	
145	0.415	GRD	
146	12.48	GRD	
147	0.492	GRD	
148	0.652	GRD	
149	9.228	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
150	0.44	GRD	
151	3.301	GRD	
152	0.342	GRD	
153	0.432	GRD	
153	0.432	GRD	
154	9.134	GRD	
155	2.153	GRD	
156	20.91	GRD	
157	1.08	GRD	
158	14.17	GRD	
159	12.54	GRD	
160	29.32	GRD	
161	9.443	GRD	
162	2.769	GRD	
163	24.75	GRD	
164	1.124	GRD	
165	8.07	GRD	
166	23.7	GRD	
167	11.21	GRD	
168	11.59	GRD	
169	0.949	GRD	
170	3.281	GRD	
171	0.289	GRD	
172	14.74	GRD	
173	1.395	GRD	
174	0.985	GRD	
175	0.941	GRD	
176	27.19	GRD	
177	30.93	GRD	
178	1.996	GRD	
179	0.871	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
180	0.601	GRD	
181	0.188	GRD	
182	0.274	GRD	
183	0.875	GRD	
184	0.575	GRD	
185	0.468	GRD	
186	5.231	GRD	
187	0.677	GRD	
188	1.384	GRD	
189	0.196	GRD	
190	3.193	GRD	
191	20.46	GRD	
192	0.505	GRD	
193	2.962	GRD	
194	12.91	GRD	
195	12.05	GRD	
196	18.98	GRD	
197	4.56	GRD	
198	0.31	GRD	
198	0.31	GRD	
199	0.64	GRD	
200	0.407	GRD	
201	7.787	GRD	
202	0.666	GRD	
203	0.528	GRD	
204	3.408	GRD	
205	1.4	GRD	
206	0.358	GRD	
207	0.173	GRD	
208	0.237	GRD	
209	0.424	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
210	5.858	GRD	
211	0.492	GRD	
212	0.365	GRD	
213	0.316	GRD	
214	0.343	GRD	
215	0.633	GRD	
216	0.428	GRD	
217	6.256	GRD	
218	5.465	GRD	
219	0.576	GRD	
220	0.427	GRD	
221	0.134	GRD	
222	0.253	GRD	
223	0.264	GRD	
224	0.255	GRD	
225	0.696	GRD	
226	0.388	GRD	
227	0.303	FLT	
228	0.469	GRD	
229	0.306	GRD	
230	0.578	GRD	
231	0.447	GRD	
232	0.44	GRD	
233	0.675	GRD	
234	0.899	GRD	
235	3.506	GRD	
236	0.295	GRD	
237	0.352	GRD	
237	0.352	GRD	
238	0.514	GRD	
239	4.484	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
240	2.947	GRD	
241	7.87	GRD	
242	0.804	GRD	
243	0.664	GRD	
244	6.137	GRD	
245	0.733	GRD	
246	0.348	GRD	
247	0.418	GRD	
248	0.353	GRD	
249	0.36	GRD	
250	0.397	GRD	
251	0.341	GRD	
252	0.312	FLR	
252	0.312	GRD	
253	0.186	FLR	
254	0.283	FLR	
255	0.451	FLR	
256	0.644	GRD	
257	0.312	GRD	
258	0.274	GRD	
259	0.418	GRD	
260	0.355	GRD	
261	0.263	GRD	
262	0.218	GRD	
263	0.616	GRD	
264	0.124	GRD	
265	0.239	GRD	
266	0.368	FLT	
267	0.518	VEN	
268	0.208	GRD	
269	0.412	GRD	
270	0.567	GRD	
271	0.356	GRD	
272	0.457	GRD	
273	0.453	FLT	
274	0.196	FLT	
275	0.461	FLT	
276	0.446	GRD	
277	0.436	GRD	
278	0.403	GRD	
279	0.767	GRD	
280	0.727	GRD	
281	1.524	GRD	
282	3.698	GRD	
283	1.126	GRD	
284	0.671	GRD	
285	0.74	GRD	
286	0.555	GRD	
287	0.416	GRD	
288	0.471	GRD	
289	0.195	GRD	
290	0.491	GRD	
291	0.322	GRD	
292	0.165	GRD	
293	0.644	FLT	
294	0.626	GRD	
295	0.472	GRD	
296	0.848	GRD	
297	0.709	GRD	
298	1.409	GRD	
299	117.7	GRD	
300	0.834	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
301	2.535	GRD	
302	0.867	GRD	
303	0.669	GRD	
303	0.669	FLT	
304	0.952	FLT	
305	0.366	FLT	
306	0.619	GRD	
307	2.497	GRD	
308	1.439	GRD	
309	3.374	GRD	
310	3.927	GRD	
311	4.434	GRD	
312	0.392	GRD	
313	0.617	GRD	
314	1.758	GRD	
315	15.06	GRD	
316	16.8	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-439

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603718	☐	19-025	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603150	☐	19-015	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603736	☐	19-033	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603710	☐	19-025	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603702	☐	19-025	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603680	☐	19-020	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603665	☐	19-020	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603658	☐	19-020	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603633	☐	19-036	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603605	☐	19-033	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603157	☐	19-015	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603743	☐	19-033	low grade		☑	☐	☐
6.50	7.37	0.87	GRD	0.80	92	w603144	☐	19-015	low grade		☐	☐	☐
7.37	8.46	1.09	GRD	1.08	99	W603145	☐	19-015	low grade		☐	☐	☐
8.46	8.77	0.31	GRD	0.31	100	W603146	☐	19-015	low grade		☐	☐	☐
8.77	9.83	1.06	GRD	1.00	94	W603147	☐	19-015	low grade		☐	☐	☐
9.83	11.03	1.20	GRD	1.20	100	W603148	☐	19-015	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
11.03	11.59	0.56	GRD	0.53	95	W603149	☐	19-015	low grade		☐	☐	☐
11.59	12.49	0.90	GRD	0.90	100	W603151	☐	19-015	low grade		☐	☐	☐
12.49	13.49	1.00	GRD	1.00	100	W603152	☐	19-015	low grade		☐	☐	☐
13.49	14.00	0.51	GRD	0.50	98	W603153	☐	19-015	low grade		☐	☐	☐
14.00	14.50	0.50	GRD	0.50	100	W603154	☐	19-015	low grade		☐	☐	☐
14.50	15.40	0.90	GRD	0.85	94	W603155	☐	19-015	low grade		☐	☐	☐
15.40	16.05	0.65	GRD	0.52	80	W603156	☐	19-015	low grade		☐	☐	☐
32.70	34.13	1.43	GRD	1.43	100	W603158	☐	19-015	low grade		☐	☐	☐
34.13	35.46	1.33	GRD	1.16	87	W603159	☐	19-015	low grade		☐	☐	☐
35.46	36.79	1.33	GRD	1.14	86	W603160	☐	19-015	low grade		☐	☐	☐
36.79	37.61	0.82	GRD	0.82	100	W603161	☐	19-015	low grade		☐	☐	☐
37.61	38.34	0.73	GRD	0.73	100	W603162	☐	19-016	low grade		☐	☐	☐
38.34	39.25	0.91	GRD	0.91	100	W603163	☐	19-016	low grade		☐	☐	☐
39.25	40.31	1.06	GRD	1.06	100	W603164	☐	19-016	low grade		☐	☐	☐
40.31	41.20	0.89	GRD	0.89	100	W603165	☐	19-016	low grade		☐	☐	☐
41.20	42.30	1.10	GRD	1.08	98	W603166	☐	19-016	low grade		☐	☐	☐
69.12	70.12	1.00	GRD	1.00	100	W603651	☐	19-020	low grade		☐	☐	☐
70.12	70.55	0.43	GRD	0.43	100	W603652	☐	19-020	low grade		☐	☐	☐
70.55	71.64	1.09	GRD	1.09	100	W603653	☐	19-020	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
91.00	92.00	1.00	GRD	1.00	100	W603654	☐	19-020	low grade		☐	☐	☐
92.00	92.75	0.75	GRD	0.70	93	W603655	☐	19-020	low grade		☐	☐	☐
92.75	93.65	0.90	GRD	0.90	100	W603656	☐	19-020	low grade		☐	☐	☐
103.30	104.34	1.04	GRD	1.04	100	W603657	☐	19-020	low grade		☐	☐	☐
104.34	105.60	1.26	GRD	1.16	92	W603659	☐	19-020	low grade		☐	☐	☐
105.60	106.30	0.70	GRD	0.70	100	W603660	☐	19-020	low grade		☐	☐	☐
106.30	107.05	0.75	GRD	0.75	100	W603661	☐	19-020	low grade		☐	☐	☐
107.05	108.00	0.95	GRD	0.95	100	W603662	☐	19-020	low grade		☐	☐	☐
108.00	109.00	1.00	GRD	1.00	100	W603663	☐	19-020	low grade		☐	☐	☐
109.00	110.07	1.07	GRD	1.07	100	W603664	☐	19-020	low grade		☐	☐	☐
110.07	110.99	0.92	GRD	0.92	100	W603666	☐	19-020	low grade		☐	☐	☐
110.99	111.68	0.69	GRD	0.69	100	W603667	☐	19-020	low grade		☐	☐	☐
111.68	112.18	0.50	FLT	0.50	100	W603668	☐	19-020	low grade		☐	☐	☐
112.18	113.10	0.92	FLT, GRD	0.92	100	W603669	☐	19-020	low grade		☐	☐	☐
113.10	114.20	1.10	GRD	1.00	91	W603670	☐	19-020	low grade		☐	☐	☐
131.00	131.72	0.72	GRD	0.72	100	W603671	☐	19-020	low grade		☐	☐	☐
131.00	131.72	0.72	GRD	0.72	100	W603672	☐	19-020	low grade		☐	☑	☐
131.72	132.65	0.93	GRD	0.93	100	W603673	☐	19-020	low grade		☐	☐	☐
132.65	133.47	0.82	GRD	0.82	100	W603674	☐	19-020	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
133.47	134.50	1.03	GRD	1.03	100	W603675	☐	19-020	low grade		☐	☐	☐
134.50	135.63	1.13	GRD	1.13	100	W603676	☐	19-020	low grade		☐	☐	☐
140.60	141.70	1.10	GRD	1.08	98	W603677	☐	19-020	low grade		☐	☐	☐
141.70	142.35	0.65	GRD	0.65	100	W603678	☐	19-020	low grade		☐	☐	☐
142.35	142.73	0.38	GRD	0.38	100	W603679	☐	19-020	low grade		☐	☐	☐
142.73	143.82	1.09	GRD	1.05	96	W603681	☐	19-020	low grade		☐	☐	☐
143.82	144.71	0.89	GRD	0.82	92	W603682	☐	19-020	low grade		☐	☐	☐
144.71	145.09	0.38	GRD	0.38	100	W603683	☐	19-020	low grade		☐	☐	☐
144.71	145.09	0.38	GRD	0.38	100	W603684	☐	19-020	low grade		☐	☐	☑
145.09	145.69	0.60	GRD	0.60	100	W603700	☐	19-020	low grade		☐	☐	☐
145.69	146.78	1.09	GRD	1.05	96	W603685	☐	19-020	low grade		☐	☐	☐
146.78	147.24	0.46	GRD	0.46	100	W603686	☐	19-020	low grade		☐	☐	☐
147.24	148.19	0.95	GRD	0.95	100	W603687	☐	19-020	low grade		☐	☐	☐
148.19	149.19	1.00	GRD	1.00	100	W603688	☐	19-020	low grade		☐	☐	☐
149.19	150.12	0.93	GRD	0.93	100	W603689	☐	19-020	low grade		☐	☐	☐
150.12	150.83	0.71	GRD	0.71	100	W603690	☐	19-025	Low grade		☐	☐	☐
150.83	151.90	1.07	GRD	1.07	100	W603691	☐	19-025	Low grade		☐	☐	☐
151.90	152.73	0.83	GRD	0.83	100	W603692	☐	19-025	Low grade		☐	☐	☐
152.73	153.37	0.64	GRD	0.54	84	W603693	☐	19-025	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
153.37	154.51	1.14	GRD	1.14	100	W603694	☐	19-025	Low grade		☐	☐	☐
182.10	183.10	1.00	GRD	1.00	100	W603695	☐	19-025	Low grade		☐	☐	☐
183.10	183.40	0.30	GRD	0.30	100	W603696	☐	19-025	Low grade		☐	☐	☐
183.40	184.30	0.90	GRD	0.90	100	W603697	☐	19-025	Low grade		☐	☐	☐
183.40	184.30	0.90	GRD	0.90	100	W603698	☐	19-025	Low grade		☐	☑	☐
184.30	185.20	0.90	GRD	0.90	100	W603699	☐	19-025	Low grade		☐	☐	☐
186.35	187.35	1.00	GRD	1.00	100	W603701	☐	19-025	Low grade		☐	☐	☐
187.35	188.35	1.00	GRD	1.00	100	W603703	☐	19-025	Low grade		☐	☐	☐
188.35	189.35	1.00	GRD	1.00	100	W603704	☐	19-025	Low grade		☐	☐	☐
189.35	190.07	0.72	GRD	0.72	100	W603705	☐	19-025	Low grade		☐	☐	☐
190.07	192.45	2.38	GRD	2.35	99	W603706	☐	19-025	Low grade		☐	☐	☐
192.45	192.99	0.54	GRD	0.54	100	W603707	☐	19-025	Low grade		☐	☐	☐
192.99	194.04	1.05	GRD	1.05	100	W603708	☐	19-025	Low grade		☐	☐	☐
197.60	198.70	1.10	GRD	1.10	100	W603709	☐	19-025	Low grade		☐	☐	☐
198.70	199.45	0.75	GRD	0.68	91	W603711	☐	19-025	Low grade		☐	☐	☐
199.45	200.55	1.10	GRD	1.10	100	W603712	☐	19-025	Low grade		☐	☐	☐
200.55	201.55	1.00	GRD	1.00	100	W603713	☐	19-025	Low grade		☐	☐	☐
201.55	202.68	1.13	GRD	1.13	100	W603714	☐	19-025	Low grade		☐	☐	☐
202.68	203.50	0.82	GRD	0.82	100	W603715	☐	19-025	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
203.50	205.00	1.50	GRD	1.50	100	W603716	☐	19-025	Low grade		☐	☐	☐
205.00	205.83	0.83	GRD	0.83	100	W603717	☐	19-025	Low grade		☐	☐	☐
205.83	206.48	0.65	GRD, GRD	0.65	100	W603719	☐	19-025	Low grade		☐	☐	☐
206.48	207.26	0.78	GRD	0.78	100	W603720	☐	19-025	Low grade		☐	☐	☐
207.26	208.46	1.20	GRD	1.20	100	W603721	☐	19-025	Low grade		☐	☐	☐
207.26	208.46	1.20	GRD	1.20	100	W603722	☐	19-025	Low grade		☐	☐	☑
208.46	209.46	1.00	GRD	1.00	100	W603723	☐	19-025	Low grade		☐	☐	☐
209.46	211.37	1.91	GRD	1.91	100	W603724	☐	19-025	Low grade		☐	☐	☐
211.37	211.67	0.30	GRD	0.30	100	W603725	☐	19-025	Low grade		☐	☐	☐
211.67	213.13	1.46	GRD	1.44	99	W603726	☐	19-025	Low grade		☐	☐	☐
213.13	213.76	0.63	GRD	0.57	90	W603727	☐	19-025	Low grade		☐	☐	☐
213.76	214.76	1.00	GRD	1.00	100	W603728	☐	19-025	Low grade		☐	☐	☐
214.76	215.63	0.87	GRD	0.87	100	W603729	☐	19-025	Low grade		☐	☐	☐
215.63	216.53	0.90	GRD	0.90	100	W603730	☐	19-025	Low grade		☐	☐	☐
216.53	217.53	1.00	GRD, GRD	1.00	100	W603732	☐	19-033	low grade		☐	☐	☐
217.53	219.70	2.17	GRD	2.17	100	W603733	☐	19-033	low grade		☐	☐	☐
219.70	220.70	1.00	GRD	1.00	100	W603734	☐	19-033	low grade		☐	☐	☐
220.70	221.03	0.33	GRD	0.33	100	W603735	☐	19-033	low grade		☐	☐	☐
221.03	222.08	1.05	GRD	1.05	100	W603737	☐	19-033	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
222.08	224.32	2.24	GRD	2.23	100	W603738	☐	19-033	low grade		☐	☐	☐
224.32	226.12	1.80	GRD	1.80	100	W603739	☐	19-033	low grade		☐	☐	☐
226.12	226.87	0.75	GRD, FLT	0.71	95	W603740	☐	19-033	low grade		☐	☐	☐
226.87	227.42	0.55	FLT	0.55	100	W603741	☐	19-033	low grade		☐	☐	☐
227.42	228.60	1.18	GRD	1.12	95	W603742	☐	19-033	low grade		☐	☐	☐
228.60	229.80	1.20	GRD	1.20	100	W603744	☐	19-033	low grade		☐	☐	☐
229.80	230.61	0.81	GRD	0.79	98	W603745	☐	19-033	low grade		☐	☐	☐
230.61	231.71	1.10	GRD	1.09	99	W603746	☐	19-033	low grade		☐	☐	☐
231.71	232.02	0.31	GRD	0.30	97	W603747	☐	19-033	low grade		☐	☐	☐
232.02	233.02	1.00	GRD	1.00	100	W603748	☐	19-033	low grade		☐	☐	☐
232.02	233.02	1.00	GRD	1.00	100	W603749	☐	19-033	low grade		☐	☐	☑
233.02	234.65	1.63	GRD	1.60	98	W603750	☐	19-033	low grade		☐	☐	☐
234.65	235.70	1.05	GRD	1.05	100	W603601	☐	19-033	low grade		☐	☐	☐
235.70	236.00	0.30	GRD	0.30	100	W603602	☐	19-033	low grade		☐	☐	☐
236.00	237.00	1.00	GRD	1.00	100	W603731	☐	19-033	low grade		☐	☐	☐
249.49	250.00	0.51	GRD	0.50	98	W603603	☐	19-033	low grade		☐	☐	☐
250.00	251.14	1.14	GRD	1.14	100	W603604	☐	19-033	low grade		☐	☐	☐
251.14	251.87	0.73	GRD	0.73	100	W603606	☐	19-033	low grade		☐	☐	☐
251.87	252.74	0.87	GRD	0.87	100	W603607	☐	19-033	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
252.74	253.65	0.91	FLR	0.90	99	W603608	☐	19-033	low grade		☐	☐	☐
253.65	254.00	0.35	FLR	0.35	100	W603609	☐	19-033	low grade		☐	☐	☐
254.00	254.90	0.90	FLR	0.90	100	W603610	☐	19-033	low grade		☐	☐	☐
254.90	255.70	0.80	FLR, FLR	0.80	100	W603611	☐	19-033	low grade		☐	☐	☐
255.70	256.60	0.90	GRD, FLR	0.90	100	W603612	☐	19-033	low grade		☐	☐	☐
255.70	256.60	0.90	GRD, FLR	0.90	100	W603613	☐	19-033	low grade		☐	☑	☐
256.60	257.60	1.00	GRD	1.00	100	W603614	☐	19-033	low grade		☐	☐	☐
257.60	260.00	2.40	GRD	2.40	100	W603615	☐	19-033	low grade		☐	☐	☐
260.00	261.00	1.00	GRD	1.00	100	W603616	☐	19-033	low grade		☐	☐	☐
261.00	261.73	0.73	GRD	0.70	96	W603617	☐	19-033	low grade		☐	☐	☐
261.73	262.80	1.07	GRD	1.07	100	W603618	☐	19-033	low grade		☐	☐	☐
262.80	263.34	0.54	GRD	0.49	91	W603619	☐	19-033	low grade		☐	☐	☐
263.34	263.90	0.56	GRD, QFP	0.56	100	W603620	☐	19-033	low grade		☐	☐	☐
263.90	265.00	1.10	GRD	1.05	95	W603621	☐	19-036	Low grade		☐	☐	☐
265.00	265.38	0.38	GRD	0.38	100	W603622	☐	19-036	Low grade		☐	☐	☐
265.38	266.04	0.66	GRD	0.66	100	W599167	☐	19-006	High grade		☐	☐	☐
266.04	266.63	0.59	FLT	0.59	100	W603623	☐	19-036	Low grade		☐	☐	☐
266.63	267.13	0.50	VEN	0.50	100	W599168	☐	19-006	High grade		☐	☐	☐
267.13	267.73	0.60	VEN	0.55	92	W599169	☐	19-006	High grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
267.73	268.23	0.50	GRD, VEN	0.50	100	W603624	☐	19-036	Low grade		☐	☐	☐
267.73	268.23	0.50	GRD, VEN	0.50	100	W603625	☐	19-036	Low grade		☐	☐	☑
268.23	268.84	0.61	GRD	0.61	100	W603626	☐	19-036	Low grade		☐	☐	☐
268.84	269.63	0.79	GRD	0.79	100	W603627	☐	19-036	Low grade		☐	☐	☐
269.63	271.35	1.72	GRD	1.58	92	W603628	☐	19-036	Low grade		☐	☐	☐
271.35	272.39	1.04	GRD	1.00	96	W603629	☐	19-036	Low grade		☐	☐	☐
272.39	272.80	0.41	GRD	0.41	100	W599170	☐	19-006	High grade		☐	☐	☐
272.80	274.19	1.39	FLT	1.39	100	W603630	☐	19-036	Low grade		☐	☐	☐
274.19	275.20	1.01	FLT	0.97	96	W603631	☐	19-036	Low grade		☐	☐	☐
275.20	275.50	0.30	FLT	0.30	100	W603632	☐	19-036	Low grade		☐	☐	☐
275.50	276.50	1.00	GRD	1.00	100	W603634	☐	19-036	Low grade		☐	☐	☐
276.50	278.28	1.78	GRD	1.75	98	W603635	☐	19-036	Low grade		☐	☐	☐
278.28	278.64	0.36	GRD	0.36	100	W603636	☐	19-036	Low grade		☐	☐	☐
278.64	279.41	0.77	GRD	0.77	100	W603637	☐	19-036	Low grade		☐	☐	☐
279.41	280.42	1.01	GRD	0.94	93	W603638	☐	19-036	Low grade		☐	☐	☐
285.30	286.51	1.21	GRD	1.21	100	W603639	☐	19-036	Low grade		☐	☐	☐
286.51	286.81	0.30	GRD	0.30	100	W603640	☐	19-036	Low grade		☐	☐	☐
286.81	287.91	1.10	GRD	0.95	86	W603641	☐	19-036	Low grade		☐	☐	☐
292.61	293.10	0.49	FLT	0.49	100	W603642	☐	19-036	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
292.61	293.10	0.49	FLT	0.49	100	W603643	☐	19-036	Low grade		☐	☑	☐
293.10	294.10	1.00	FLT	1.00	100	W603644	☐	19-036	Low grade		☐	☐	☐
303.00	304.45	1.45	GRD, FLT	1.27	88	W603645	☐	19-036	Low grade		☐	☐	☐
304.45	305.21	0.76	FLT, FLT	0.76	100	W603646	☐	19-036	Low grade		☐	☐	☐
305.21	305.66	0.45	FLT	0.45	100	W603647	☐	19-036	Low grade		☐	☐	☐
305.66	306.94	1.28	GRD	1.22	95	W603648	☐	19-036	Low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	6.50			☐	☐	☐	☐	
19-036	W603633	0.00	0.00	0.00	50	☐	☐	☑	☐	
19-020	W603658	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-020	W603665	0.00	0.00	0.29	600	☐	☐	☐	☑ ME-6	
19-020	W603680	0.00	0.00	1.63	260	☐	☐	☐	☑ KL-STD6	
19-033	W603605	0.00	0.00	0.29	640	☐	☐	☐	☑ ME-6	
19-033	W603736	0.00	0.00	0.30	620	☐	☐	☐	☑ ME-6	
19-033	W603743	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-025	W603702	0.00	0.00	0.01	30	☐	☐	☑	☐	
19-025	W603710	0.00	0.00	1.80	810	☐	☐	☐	☑ KL-STD6	
19-025	W603718	0.00	0.00	0.26	630	☐	☐	☐	☑ ME-6	
19-015	W603150	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-015	W603157	0.00	0.00	0.27	390	☐	☐	☐	☑ ME-6	
19-015	w603144	6.50	7.37	0.00	2360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-015	W603145	7.37	8.46	0.00	2290	☐	☐	☐	☐	
19-015	W603146	8.46	8.77	0.02	3480	☐	☐	☐	☐	
19-015	W603147	8.77	9.83	0.01	1840	☐	☐	☐	☐	
19-015	W603148	9.83	11.03	0.03	1730	☐	☐	☐	☐	
19-015	W603149	11.03	11.59	1.04	1540	☐	☐	☐	☐	
19-015	W603151	11.59	12.49	0.03	1620	☐	☐	☐	☐	
19-015	W603152	12.49	13.49	0.01	1680	☐	☐	☐	☐	
19-015	W603153	13.49	14.00	0.06	2100	☐	☐	☐	☐	
19-015	W603154	14.00	14.50	0.01	1250	☐	☐	☐	☐	
19-015	W603155	14.50	15.40	0.00	2060	☐	☐	☐	☐	
19-015	W603156	15.40	16.05	0.00	2070	☐	☐	☐	☐	
		16.05	32.70			☐	☐	☐	☐	
19-015	W603158	32.70	34.13	0.00	2130	☐	☐	☐	☐	
19-015	W603159	34.13	35.46	0.03	2480	☐	☐	☐	☐	
19-015	W603160	35.46	36.79	0.00	2090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-015	W603161	36.79	37.61	0.00	2390	☐	☐	☐	☐	
19-016	W603162	37.61	38.34	0.03	2130	☐	☐	☐	☐	
19-016	W603163	38.34	39.25	0.39	1270	☐	☐	☐	☐	
19-016	W603164	39.25	40.31	0.00	1890	☐	☐	☐	☐	
19-016	W603165	40.31	41.20	0.01	1590	☐	☐	☐	☐	
19-016	W603166	41.20	42.30	0.00	2090	☐	☐	☐	☐	
		42.30	69.12			☐	☐	☐	☐	
19-020	W603651	69.12	70.12	0.01	2890	☐	☐	☐	☐	
19-020	W603652	70.12	70.55	0.05	950	☐	☐	☐	☐	
19-020	W603653	70.55	71.64	0.01	1990	☐	☐	☐	☐	
		71.64	91.00			☐	☐	☐	☐	
19-020	W603654	91.00	92.00	0.01	3040	☐	☐	☐	☐	
19-020	W603655	92.00	92.75	0.02	1840	☐	☐	☐	☐	
19-020	W603656	92.75	93.65	0.01	2370	☐	☐	☐	☐	
		93.65	######			☐	☐	☐	☐	
19-020	W603657	103.30	104.34	0.00	2600	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-020	W603659	104.34	105.60	0.01	2560	☐	☐	☐	☐	
19-020	W603660	105.60	106.30	0.02	1840	☐	☐	☐	☐	
19-020	W603661	106.30	107.05	0.01	2580	☐	☐	☐	☐	
19-020	W603662	107.05	108.00	0.00	2740	☐	☐	☐	☐	
19-020	W603663	108.00	109.00	0.00	2400	☐	☐	☐	☐	
19-020	W603664	109.00	110.07	0.01	2080	☐	☐	☐	☐	
19-020	W603666	110.07	110.99	0.01	1710	☐	☐	☐	☐	
19-020	W603667	110.99	111.68	0.01	2640	☐	☐	☐	☐	
19-020	W603668	111.68	112.18	0.04	2110	☐	☐	☐	☐	
19-020	W603669	112.18	113.10	0.01	1630	☐	☐	☐	☐	
19-020	W603670	113.10	114.20	0.00	2690	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-020	W603671	131.00	131.72	0.01	2710	☐	☐	☐	☐	
19-020	W603672	131.00	131.72	0.01	2410	☑	☐	☐	☐	
19-020	W603673	131.72	132.65	0.01	3510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-020	W603674	132.65	133.47	0.03	740	☐	☐	☐	☐	
19-020	W603675	133.47	134.50	0.00	2790	☐	☐	☐	☐	
19-020	W603676	134.50	135.63	0.00	2620	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-020	W603677	140.60	141.70	0.00	2340	☐	☐	☐	☐	
19-020	W603678	141.70	142.35	0.00	2250	☐	☐	☐	☐	
19-020	W603679	142.35	142.73	0.04	1810	☐	☐	☐	☐	
19-020	W603681	142.73	143.82	0.00	2860	☐	☐	☐	☐	
19-020	W603682	143.82	144.71	0.01	4290	☐	☐	☐	☐	
19-020	W603683	144.71	145.09	0.05	880	☐	☐	☐	☐	
19-020	W603684	144.71	145.09	0.04	1040	☐	☑	☐	☐	
19-020	W603700	145.09	145.69	0.01	2990	☐	☐	☐	☐	
19-020	W603685	145.69	146.78	0.00	2690	☐	☐	☐	☐	
19-020	W603686	146.78	147.24	0.01	2220	☐	☐	☐	☐	
19-020	W603687	147.24	148.19	0.00	2930	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-020	W603688	148.19	149.19	0.01	2850	☐	☐	☐	☐	
19-020	W603689	149.19	150.12	0.00	2910	☐	☐	☐	☐	
19-025	W603690	150.12	150.83	0.02	2590	☐	☐	☐	☐	
19-025	W603691	150.83	151.90	0.01	3150	☐	☐	☐	☐	
19-025	W603692	151.90	152.73	0.07	1770	☐	☐	☐	☐	
19-025	W603693	152.73	153.37	0.00	2240	☐	☐	☐	☐	
19-025	W603694	153.37	154.51	0.00	2440	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-025	W603695	182.10	183.10	0.00	2850	☐	☐	☐	☐	
19-025	W603696	183.10	183.40	0.31	440	☐	☐	☐	☐	
19-025	W603697	183.40	184.30	0.01	1590	☐	☐	☐	☐	
19-025	W603698	183.40	184.30	0.01	2450	☑	☐	☐	☐	
19-025	W603699	184.30	185.20	1.66	1100	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-025	W603701	186.35	187.35	0.02	2740	☐	☐	☐	☐	
19-025	W603703	187.35	188.35	0.01	3430	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-025	W603704	188.35	189.35	0.01	3670	☐	☐	☐	☐	
19-025	W603705	189.35	190.07	0.01	3350	☐	☐	☐	☐	
19-025	W603706	190.07	192.45	0.00	2170	☐	☐	☐	☐	
19-025	W603707	192.45	192.99	0.07	730	☐	☐	☐	☐	
19-025	W603708	192.99	194.04	0.00	1980	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-025	W603709	197.60	198.70	0.01	1890	☐	☐	☐	☐	
19-025	W603711	198.70	199.45	0.05	2210	☐	☐	☐	☐	
19-025	W603712	199.45	200.55	0.04	2060	☐	☐	☐	☐	
19-025	W603713	200.55	201.55	0.01	2390	☐	☐	☐	☐	
19-025	W603714	201.55	202.68	0.01	2360	☐	☐	☐	☐	
19-025	W603715	202.68	203.50	0.01	1850	☐	☐	☐	☐	
19-025	W603716	203.50	205.00	0.01	3010	☐	☐	☐	☐	
19-025	W603717	205.00	205.83	0.01	3060	☐	☐	☐	☐	
19-025	W603719	205.83	206.48	0.01	2050	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-025	W603720	206.48	207.26	0.09	1980	☐	☐	☐	☐	
19-025	W603721	207.26	208.46	0.06	1400	☐	☐	☐	☐	
19-025	W603722	207.26	208.46	0.06	1350	☐	☑	☐	☐	
19-025	W603723	208.46	209.46	0.01	2340	☐	☐	☐	☐	
19-025	W603724	209.46	211.37	0.00	2300	☐	☐	☐	☐	
19-025	W603725	211.37	211.67	0.05	1590	☐	☐	☐	☐	
19-025	W603726	211.67	213.13	0.00	2100	☐	☐	☐	☐	
19-025	W603727	213.13	213.76	0.01	2380	☐	☐	☐	☐	
19-025	W603728	213.76	214.76	0.00	2590	☐	☐	☐	☐	
19-025	W603729	214.76	215.63	0.03	1710	☐	☐	☐	☐	
19-025	W603730	215.63	216.53	0.01	2960	☐	☐	☐	☐	
19-033	W603732	216.53	217.53	0.01	2390	☐	☐	☐	☐	
19-033	W603733	217.53	219.70	0.01	2310	☐	☐	☐	☐	
19-033	W603734	219.70	220.70	0.01	2380	☐	☐	☐	☐	
19-033	W603735	220.70	221.03	0.68	410	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-033	W603737	221.03	222.08	0.00	2210	☐	☐	☐	☐	
19-033	W603738	222.08	224.32	0.00	3020	☐	☐	☐	☐	
19-033	W603739	224.32	226.12	0.00	2470	☐	☐	☐	☐	
19-033	W603740	226.12	226.87	0.05	1000	☐	☐	☐	☐	
19-033	W603741	226.87	227.42	0.07	440	☐	☐	☐	☐	
19-033	W603742	227.42	228.60	0.02	1960	☐	☐	☐	☐	
19-033	W603744	228.60	229.80	0.01	1890	☐	☐	☐	☐	
19-033	W603745	229.80	230.61	0.01	1420	☐	☐	☐	☐	
19-033	W603746	230.61	231.71	0.00	1740	☐	☐	☐	☐	
19-033	W603747	231.71	232.02	0.08	1600	☐	☐	☐	☐	
19-033	W603748	232.02	233.02	0.00	2560	☐	☐	☐	☐	
19-033	W603749	232.02	233.02	0.00	2600	☐	☑	☐	☐	
19-033	W603750	233.02	234.65	0.01	2800	☐	☐	☐	☐	
19-033	W603601	234.65	235.70	0.00	3350	☐	☐	☐	☐	
19-033	W603602	235.70	236.00	0.06	1670	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-033	W603731	236.00	237.00	0.07	2220	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-033	W603603	249.49	250.00	0.00	1690	☐	☐	☐	☐	
19-033	W603604	250.00	251.14	0.00	2190	☐	☐	☐	☐	
19-033	W603606	251.14	251.87	0.04	730	☐	☐	☐	☐	
19-033	W603607	251.87	252.74	0.16	610	☐	☐	☐	☐	
19-033	W603608	252.74	253.65	0.13	640	☐	☐	☐	☐	
19-033	W603609	253.65	254.00	0.38	360	☐	☐	☐	☐	
19-033	W603610	254.00	254.90	0.16	600	☐	☐	☐	☐	
19-033	W603611	254.90	255.70	0.01	1500	☐	☐	☐	☐	
19-033	W603612	255.70	256.60	0.00	1750	☐	☐	☐	☐	
19-033	W603613	255.70	256.60	0.00	1520	☑	☐	☐	☐	
19-033	W603614	256.60	257.60	0.00	2830	☐	☐	☐	☐	
19-033	W603615	257.60	260.00	0.01	810	☐	☐	☐	☐	
19-033	W603616	260.00	261.00	0.02	1430	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-033	W603617	261.00	261.73	0.01	260	☐	☐	☐	☐	
19-033	W603618	261.73	262.80	0.01	420	☐	☐	☐	☐	
19-033	W603619	262.80	263.34	3.73	310	☐	☐	☐	☐	
19-033	W603620	263.34	263.90	0.01	300	☐	☐	☐	☐	
19-036	W603621	263.90	265.00	0.05	410	☐	☐	☐	☐	
19-036	W603622	265.00	265.38	0.04	480	☐	☐	☐	☐	
19-006	W599167	265.38	266.04	0.55	140	☐	☐	☐	☐	
19-036	W603623	266.04	266.63	0.51	420	☐	☐	☐	☐	
19-006	W599168	266.63	267.13	0.90	280	☐	☐	☐	☐	
19-006	W599169	267.13	267.73	11.05	320	☐	☐	☐	☐	
19-036	W603624	267.73	268.23	2.73	400	☐	☐	☐	☐	
19-036	W603625	267.73	268.23	2.84	390	☐	☑	☐	☐	
19-036	W603626	268.23	268.84	0.65	550	☐	☐	☐	☐	
19-036	W603627	268.84	269.63	0.06	1710	☐	☐	☐	☐	
19-036	W603628	269.63	271.35	0.02	2290	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-036	W603629	271.35	272.39	0.30	630	☐	☐	☐	☐	
19-006	W599170	272.39	272.80	2.02	470	☐	☐	☐	☐	
19-036	W603630	272.80	274.19	0.04	1260	☐	☐	☐	☐	
19-036	W603631	274.19	275.20	0.28	1350	☐	☐	☐	☐	
19-036	W603632	275.20	275.50	0.08	1360	☐	☐	☐	☐	
19-036	W603634	275.50	276.50	0.03	1920	☐	☐	☐	☐	
19-036	W603635	276.50	278.28	0.63	1750	☐	☐	☐	☐	
19-036	W603636	278.28	278.64	0.44	1620	☐	☐	☐	☐	
19-036	W603637	278.64	279.41	2.62	1440	☐	☐	☐	☐	
19-036	W603638	279.41	280.42	0.03	2880	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-036	W603639	285.30	286.51	0.00	3410	☐	☐	☐	☐	
19-036	W603640	286.51	286.81	0.12	930	☐	☐	☐	☐	
19-036	W603641	286.81	287.91	0.00	1950	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-036	W603642	292.61	293.10	0.31	440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-036	W603643	292.61	293.10	0.33	400	☑	☐	☐	☐	
19-036	W603644	293.10	294.10	0.02	2130	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-036	W603645	303.00	304.45	0.00	3600	☐	☐	☐	☐	
19-036	W603646	304.45	305.21	0.01	2790	☐	☐	☐	☐	
19-036	W603647	305.21	305.66	0.07	1480	☐	☐	☐	☐	
19-036	W603648	305.66	306.94	0.02	1850	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
8.60	8.63	VT	37	65	NUL	1	orange weathered quartz-carbonate vein cutting orange weathering argillic/propylitic altered granodiorite.			
9.86	10.00	VT	37	75	NUL	6	six (6) mm scale carbonate veinlets cutting orange weathering, argillic altered granodiorite at 75TCA			
11.03	11.59	VN	37	70	NUL	2	Two strongly weathered veins (14cm, 4cm) cutting orange weathering, argillic to propylitic altered granodiorite. Veins host orange and brown weathered limonite, which likely represents weathered sulphides.			
								Li	5	BN
								Go	2	BN
12.60	12.64	VT	37	80	NUL	1	3.5cm orange weathered carboante vein.			
13.40	13.42	VT	37	65	NUL	1	2cm quartz carbonate vein cutting orange weathering, argillic to propylitic altered granodiorite. Veins host orange and brown weathered limonite, which likely represents weathered sulphides.			
								Go	5	BN
								Li	10	BN
14.25	14.40	VT	37	70	NUL	3	oxidized and weathered quartz carbonate stringers cutting orange weathering, argillic to propylitic altered granodiorite. Veins host orange and brown weathered limonite, which likely represents weathered sulphides.			
38.23	38.34	VN	37	-	NUL	1	rubbly and fractured quartz-smokey quartz vein with weathered limonite and goethite. No visible minerals (weathering). Hosted within argililc/propylitic altered granodiorite with weathering.			
								Go	1	DI
								Li	1	DI
40.46	40.48	VN	37	60	NUL	1	2cm carbonate vein			
61.20	61.62	DY	37	65	NUL	1	light brown to slightly green, fine grained apligte dyke cutting weakly propylitic altered granodiorite. Sharp contacts with no halo on selvedges (within broad alteration halo)			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
61.36	61.41	DY	37	65	NUL	1	medium pink coloured aplite dyke cutting argillic altered granodiorite with weak propylitic overprinting. Sharp contacts with no halo on selvedges (within broad alteration halo)			
63.28	63.33	DY	37	70	NUL	1	medium pink aplite dyke cutting argillic altered granodiorite. Sharp contacts with no halo on selvedges (within broad alteration halo).			
67.66	67.70	DY	37	65	NUL	1	medium pink aplite dyke cutting argillic altered granodiorite.			
70.13	70.18	VN	37	70	NUL	1	Quartz carbonte vein hosting disseminated pyrite intermixed with medium pink/brown, fine grained dyke.			
								Py	4	DI
71.43	71.58	DY	37	30	NUL	1	medium pink to brown, fine grained dyke cutting propylitic to minor argillic altered granodiorite. Sharp contacts.			
72.83	72.85	VN	37	25	NUL	1	microshearing within propylitic altered granodiorite. Shear zone hosts unknown grey/black mineral as irregular disseminated masses.			
								Un	3	DI
83.85	84.00	VN	37	25	NUL	2	two 3-4cm quartz veins (barren) cutting argillic altered granodiorite.			
91.66	92.40	DY	37	-	NUL	3	highly fractured interval of weakly propylitic altered granodiorite found alongside fault zone (located below interval). Fractured zone carries numerous medium brown, fine grained dykes that average 4cm in width. One smokey quartz veinlet (2cm) present that hosts disseminated pyrite.			
								Py	1	DI
92.71	92.87	FT	42	75	NUL	2	Rubbly fault zone (8cm) with medium brown, fine grained dyke found along footwall and quartz-sulphide vein found in hanging wall. Disseminated pyrite is found in fault gouge and rubble. Vein hosts pyrite +- arsenopyrite.			
								As	0.5	DI
								Py	2	DI
96.50	96.70	DY	37	80	NUL	1	medium brown, fine grained dyke.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
98.24	98.50	DY	37	40	NUL	1	25 cm medium pink, fine grained aplite dyke cutting trace propylitic and potassic altered GRD. Trace chlorite grains found within dyke.			
99.80	100.00	VT	37	65	NUL	3	black stringers of smokey quartz and carbonate (mm scale) cutting propylitic/potassic altered granodiorite. Three stringer zones present that terminate at the end of interval, where a 1cm dyke is present at 75 tca.			
104.36	104.37	VT	37	55	NUL	1	quartz-smokey quartz-ankerite veinlet cutting propylitic altered granodiorite. Veinlet hosts disseminated pyrite.			
								Py	3	DI
105.89	105.91	VT	37	60	NUL	1	quartz-smokey quartz-ankerite veinlet cutting propylitic altered granodiorite. Veinlet hosts disseminated pyrite.			
								Py	3	DI
107.00	107.03	VT	37	78	NUL	1	banded carbonate-rhodochrosite veinlet cutting propylitic altered granodiorite. White carbonate forms the centre of the vein, with rhodochrosite along the outer edges, and fine carbonate stringers along the outside of the vein proper.			
110.99	111.04	VN	37	60	NUL	1	quartz-smokey quartz-carbonate vein hosting disseminated pyrite. Minor hematite throughout.			
								He	1	BL
								Py	2	DI
112.03	112.18	FT	42	-	NUL	1	smokey quartz vein found along the footwall of fault zone that cuts weakly propylitic altered granodiorite. Vein has ankerite, disseminated pyrite throughout.			
								Py	5	DI
132.62	133.46	FT	42	75	NUL	1	zone of faults crossing propylitic altered granodiorite. Faults are identified by thin gouged and rubby fracture zones, which have smokey quartz and pyrite disseminated along contacts. 5 fault structures present in interval (1-4cm wide).			
138.12	138.13	ST		67	NUL	1	quartz-carbonate (ankerite) stringer hosting dissemianted pyrite and blackjack sphalerite. Hosted within phyllic/propylitic altered granodiorite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2	DI
								Sp	4	DI
142.39	142.46	VN	37	80	NUL	2	4cm quartz carbonate vein hosted within weakly propylitic altered granodiorite. Vein is found along the footwall contact of a 5cm, green to pink, aplite dyke. Vein comprises a mix of white and smokey quartz, with a vuggy carbonate centre line. Disseminated pyrite (cubic, but slightly silver coloured) is found throughout.			
								Py	7	DI
144.87	145.03	VN	37	65	NUL	1	Quartz breccia vein zone hosted along the footwall of a small 5cm rubbly fault zone. Siliceous breccia zone hosts sporadic blebs of galena, pyrite, and black to honey brown to red sphalerite.			
								Gn	4	BL
								Sp	1	BL
								Py	2	BL
146.88	147.04	VT	37	70	NUL	4	stringer zone consisting of 4 quartz sulphide stringers (pyrite, minor sphalerite) cutting propylitic altered granodiorite.			
151.90	152.30	VN	37	80	NUL	1	Propylitic altered granodiorite hosting highly fractured and rubbly vein (fractured zone is 40cm, vein is 5-7cm). Disseminated pyrite hosted within			
161.34	161.35	VT	37	60	NUL	1	quartz carbonate veinlet cutting argillic/propylitic altered granodiorite.			
164.50	164.56	DY	37	25	NUL	1	fractured and broken up, medium pink aplite dyke.			
166.35	166.40	DY	37	80	NUL	1	fractured and broken, medium pink aplite dyke.			
175.38	174.40	DY	37	20	NUL	1	2cm pink aplite dyke.			
183.20	183.25	VN	37	60	NUL	1	Quartz carbonate vein cutting propylitic altered granodiorite. Vein has ankerite bands cutting along the outer edges, with blebby pyrite filling the centre lines of the vein.			
								Py	8	BL
187.37	190.00	DY	37	2	NUL	1	3.5cm wide, green fine grained dyke cutting directly down core axis for almost 3m. Upper portion of dyke is gouged and chlorite altered. Minor pyrite is present within.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	DI
190.44	190.46	VT	37	50	NUL	1	2cm quartz carbonate veinlet hosting trace pyrite. Ankerite present.			
								Py	0.5	DI
191.92	191.94	DY	37	-	NUL	1	highly fractured granodiorite hosting pink aplite dyke. No core axis measurement possible.			
192.50	193.00	VT	37	70	NUL	4	series of cm-scale (up to 2cm) quartz carbonate veinlets cutting phyllic and propylitic altered granodiorite. Viens host trace pyrite. Ankerite present.			
								Py	3	DI
195.70	195.72	DY	37	30	NUL	1	pink aplite dyke.			
198.75	199.08	VB	37	80	NUL	1	2cm quartz carbonate veinlet hosting trace pyrite found alongside smokey quartz-carbonate vein breccia. Breccia vein hosts disseminated pyrite and is strongly siliceous. Ankerite present that is vuggy within vein zone.			
								Py	3	DI
								Ak	8	BN
199.37	199.41	VT	37	85	NUL	2	Vuggy carbonate veinlets cutting propylitic altered granodiorite. Ankerite present.			
								Ak	60	BN
199.75	200.55	ST		75	NUL	6	ankerite stringers cutting propyltic granodiorite.			
202.00	203.50	ST		65	NUL	8	carbonate stringers cutting propylitic altered granodiorite. Includes one single 5cm quartz carbonate stringer zone.			
206.48	207.20	VN	37	40	NUL	5	Quartz carbonate vein zone within propylitic argillic altered granodiorite. Larger (cm scale, up to 5cm) carbonate vein breccia are present, which are crosscut and truncated by fractured. Carbonate breccias have minor smokey quartz and disseminated pyrite within. Breccia clasts are pebble sized. Quartz veinlet present (30TCA) with trace pyrite within. Pyrite disseminated throughout			
								Py	3	DI
207.35	207.45	VN	37	70	NUL	1	Smokey quartz vein cutting propylitic granodiorite. Vein hosts disseminated blebs of pyrite. Minor carbonate presetn.			
								Py	6	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
208.35	208.40	VN	37	80	NUL	1	quartz carbonate (ankerite) vein cutting propylitic altered granodiorite. Minor disseminated pyrite present.			
								Py	1	DI
211.55	211.59	VN	37	75	NUL	1	carbonate vein cutting propylitic altered granodiorite. Disseminated blebs of pyrite within and along selvedges.			
								Py	6	DI
214.76	214.78	VT	37	60	NUL	1	1.5cm quartz carbonate stringer hosting pyrite, red to black sphalerite and trace galena.			
								Py	3	DI
								Sp	7	DI
								Gn	1	DI
215.57	215.58	ST		70	NUL	1	carbonate stringer			
218.92	219.00	DY	37	70	NUL	1	multi-coloured, fine grained dyke (green, orange, yellow, red) with 0.5m carbonate veinlet cutting within. Argillic altered halo within granodiroite.			
219.62	219.64	DY	37	70	NUL	1	pink aplite dyke.			
220.71	220.74	VN	37	80	NUL	1	banded quartz carbonate vein with alternating bands of quartz and carbonate. Hosted within propylitic altered granodiorite. Vein hosts disseminated pyrite, sphalerite and trace galena.			
								Py	15	BL
								Sp	5	DI
220.94	220.97	VT	37	85	NUL	1	banded quartz carbonate vein with alternating bands of quartz and carbonate. Hosted within propylitic altered granodiorite. Vein hosts disseminated pyrite, sphalerite and trace galena.			
								Py	5	DI
								Sp	5	DI
								Gn	0.1	DI
225.32	225.35	DY	37	80	NUL	1	pink aplite dyke within argillic altered granodiorite.			
235.83	235.87	VN	37	50	NUL	1	Quartz carbonate stringer system found along selvedges of 2cm gouged propylitic granodiorite. Hosts disseminated pyrite throughout.			
								Py	6	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
243.84	243.87	DY	37	40	NUL	1	dark pink aplite dyke cutting argillic altered granodiorite.			
244.51	244.53	DY	37	40	NUL	1	dark pink aplite dyke. Hanging wall of dyke is strongly argillic altered, while footwall of dyke is weakly propylitic altered.			
246.80	246.84	VN	37	55	NUL	1	5cm quartz vein with minor smokey quartz and fine carbonate stringers within. Quartz vein hosts blebby pyrite and sphalerite (blackjack). Vein is truncated by a low angle fracture (20TCA), showing crosscutting relations. Vein is older than fracture series.			
								Sp	3	BL
								Py	7	BL
253.70	253.80	VN	37	55	NUL	1	Black quartz vein within mineralized vein zone. Hosts disseminated pyrite.			
								Py	8	DI
260.80	260.82	VT	37	55	NUL	1	tank ankerite and white carbonate vein. Vein is crosscut by a jointset that trends 70TCA and has 6cm of offset (dextral).			
262.80	263.34	VB	37	70	NUL	1	Rubbly fault zone found along the contact between GRD and QFP dyke (fault zone is found in GRD). Rubble zone carries smokey grey and black quartz breccia that hosts disseminated pyrite.			
								Py	2	DI
263.81	264.00	VB	37	-	NUL	1	Rubbly fault zone found along the contact between GRD and QFP dyke (fault zone is found in GRD). Rubble zone carries smokey grey and black quartz breccia that hosts disseminated pyrite.			
								Py	2	DI
268.79	268.82	VT	37	70	NUL	1	Smokey black quartz gouge zone hosting disseminated pyrite. Found within propylitic altered granodiorite.			
								Py	5	DI
269.55	269.63	VT	37	70	NUL	1	Narrow bands of black quartz gouge hosting disseminated pyrite, found within propylitic altered granodiorite.			
								Py	4	DI
275.17	275.38	FT	42	50	NUL	1	Rubbly fault zone within propylitic altered granodiorite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
275.78	275.80	VT	37	70	NUL	1	Veinlet of pyrite and minor sphalerite cutting granodiorite.			
								Sp	2	DI
								Py	5	DI
276.70	276.85	VT	37	68	NUL	5	Zone of quartz carbonate stringers cutting propylitic/argillic (trace) altered granodiorite. Veins host disseminated pyrite and honey brown sphalerite.			
								Py	7	DI
								Sp	3	DI
278.45	278.58	VN	37	78	NUL	1	banded quartz carbonate (white, tan) vein zone that consists of two bands of sulphide bearing quartz veining, hosted withinn weakly propylitic altered granodiorite. Veins host disseminated pyrite, sphalerite, arsenopyrite and trace galena(?)			
								Py	5	DI
								As	2	DI
								Sp	4	DI
279.37	279.39	VT	37	60	NUL	1	1.5-2cm quartz vein hosting abundant blebs of chalcopyrite and minor pyrite.			
								Cp	12	BL
								Py	5	DI
286.54	286.57	VN	37	55	NUL	1	Quartz carbonate (ankerite) vein hosting blebby black to red sphalerite and galena.			
								Gn	3	BL
								Sp	15	BL
292.94	293.96	VB	37	15	NUL	1	Low angle smokey black vein breccia surrounding narrow brown dyke(?) within faulted and gougey granodiorite.			
								Py	4	DI
305.26	305.47	VB	37	33	NUL	1	black gouged breccia zone along fault contact. Hosts disseminated pyrite.			
								Py	5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383060	6889477	1444.969	131.06

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-440

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 08 - Sep 09, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
11	34.66	-49.3	Reflex
131	38.26	-49.3	Reflex

TARGET: Resource infill drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	2.86	1.34	GRD
2.86	10.62	7.76	GRD
10.62	12.17	1.55	GRD
12.17	17.44	5.27	QFP
17.44	34.63	17.19	GRD
34.63	35.04	0.41	GRD
35.04	35.5	0.46	GRD
35.5	37.5	2	GRD
37.5	37.74	0.24	APL
37.74	41	3.26	GRD
41	42.31	1.31	GRD
42.31	47.75	5.44	GRD
47.75	48.46	0.71	GRD
48.46	48.85	0.39	VEN
48.85	49.17	0.32	GRD

SAMPLES	
Numbers:	W599154, W599156, W604152 to W604314
Total:	165
Batch:	006, 013, 017, 018, 021, 022, 023
Certificates:	WH19235045, WH19235075, WH19239268, WH19239277, WH19239280, WH19239282, WH19250393

COMMENTS

49.17	49.8	0.63	GRD
49.8	52.6	2.8	GRD
52.6	55.5	2.9	GRD
55.5	58.06	2.56	GRD
58.06	64.38	6.32	GRD
64.38	75.1	10.72	GRD
75.1	79.37	4.27	GRD
79.37	79.59	0.22	APL
79.59	80.3	0.71	GRD
80.3	82.6	2.3	GRD
82.6	86	3.4	GRD
86	88	2	GRD
88	91.28	3.28	GRD
91.28	93.05	1.77	GRD
93.05	93.18	0.13	VEN
93.18	94.35	1.17	GRD
94.35	94.52	0.17	GRD
94.52	94.6	0.08	VEN
94.6	95.2	0.6	GRD
95.2	100.19	4.99	GRD
100.19	100.75	0.56	GRD
100.75	101.07	0.32	GRD
101.07	101.33	0.26	GRD
101.33	101.7	0.37	GRD
101.7	104.9	3.2	GRD
104.9	105.25	0.35	GRD
105.25	105.37	0.12	VEN
105.37	105.82	0.45	GRD
105.82	107.38	1.56	GRD
107.38	107.7	0.32	GRD
107.7	109.41	1.71	GRD
109.41	109.71	0.3	GRD

109.71	111.44	1.73	GRD
111.44	112.41	0.97	GRD
112.41	113.41	1	GRD
113.41	114.42	1.01	GRD
114.42	115.7	1.28	GRD
115.7	117.63	1.93	GRD
117.63	124.5	6.87	GRD
124.5	125.32	0.82	GRD
125.32	125.6	0.28	GRD
125.6	131.06	5.46	GRD

Box Log

KL -19-440

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.37	5.65
2	5.65	9.58
3	9.58	13.56
4	13.56	18
5	18	22.12
6	22.12	26
7	26	29.79
8	29.79	33.63
9	33.63	37.74
10	37.74	41.56
11	41.56	45.43
12	45.43	49.36
13	49.36	53.3
14	53.3	57.8
15	57.8	62.1
16	62.1	66.22
17	66.22	70.1
18	70.1	74.25
19	74.25	78.09
20	78.09	82.3
21	82.3	86.75
22	86.75	91.02
23	91.02	95.38
24	95.38	99.46
25	99.46	103.91
26	103.91	108.11
27	108.11	112.22
28	112.22	116.55
29	116.55	120.9
30	120.9	124.91
31	124.91	129.31
32	129.31	131.06

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-440									
	12.21	21	NTW	QFP	1386.3	927.3	2.33	3.0	
	12.85	15	NTW	QFP	985.2	664.3	2.32	3.1	
	37.54	20	NTW	APL	1346.1	889.7	2.38	3.0	
	48.52	9	NTW	VEN	656.8	511	2.58	4.5	
	70.63	12	NTW	GRD	743.9	521.4	2.19	3.3	
	79.38	15	NTW	APL	895.4	586.8	2.11	2.9	
	94.53	7.5	NTW	VEN	666	504.3	3.14	4.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden/casing							
1.52	2.86	1.34	GRD	MG	mix of unaltered granodiorite and rubble/sandy material. This could be soil mixed in with a small amount of unaltered medium grey granodiorite.							
						MD	GY					
2.86	5.00	2.14	GRD	MG	medium grey unaltered granodiorite with weak rusty ox staining on fractures							
						MD	GY					
5.00	6.75	1.75	GRD	MG	medium grained light orange to brown to white argillic altered, oxidized, fractured granodiorite with 4 small cm-wide pyrite bearing quartz veins developed. Weakly silicified and clay altered granodiorite.							
						LT	OR		CLY	2I	Py	0.5
						LT	WH		OXI	2I	Py	0.5
						LT	GY		ARG	2I		
						LT	BN					
6.75	7.62	0.87	GRD	MG	medium grey unaltered granodiorite							
						MD	GY					
7.62	10.62	3.00	GRD	MG	light grey to brown to light green argillic altered granodiorite with a weak to moderate propylitic overprint.							
						LT	GY					
						LT	BN		ARG	2I		
						LT	GN		PRO	2I		
10.62	12.17	1.55	GRD	MG	medium grey unaltered granodiorite							
						MD	GY					
12.17	12.67	0.50	QFP	FG	finegrained chill margin of dyke, no visible porphyry clasts, sharp upper contact							
						DK	GY					
12.67	17.13	4.46	QFP	MG	medium grained dark grey QFP dyke with 1cm wide feldspar grains subangular that have been partially chloritized and clay altered.							
						LT	GN		SIL	1I	Py	0.1
						LT	WH					
						DK	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
17.13	17.44	0.31	QFP	FG	fine=grained chill margin of QFP dyke with no visible porphyry clasts							
						DK	GY					
17.44	20.49	3.05	GRD	MG	medium grained light white to green to medium grey moderately argillic altered grd with a weak to moderate propylitic overprint.							
						MD	GY		ARG	2I		
						LT	WH		PRO	2I		
						LT	GN					
20.49	22.00	1.51	GRD	MG	unaltered medium grey granodiorite with weak oxide staining on sub-mm fractures							
						MD	GY					
22.00	23.14	1.14	GRD	MG	bleached whitish brown to medium grey to light green clay/arg granodiorite. Weak mm scale carbonate chlorite stringer veinlets cut at 30 ACTA							
						MD	OR		OXI	1I		
						LT	WH		ARG	1I		
						LT	BN		BLE	1I		
23.14	24.90	1.76	GRD	MG	relatively unaltered medium grey granodiorite with weak to trace propylitic alteration							
						MD	GY		PRO	1I		
24.90	28.45	3.55	GRD	MG	medium grained orangeish brown to grey and light white granodiorite with a weak clay alteration, weak bleaching, weach oxidation, and weak argillic alteration. Oxidation is confined to fractures surfaces and bleaching is pervasive. Argillic alteration is patchy pervasive							
						MD	GY		OXI	1I		
						LT	BN		CLY	1I		
						LT	WH		BLE	1I		
									ARG	2I		
28.45	30.44	1.99	GRD	MG	medium grained light grey to green propylitic altered grd overprinting previous arg alteration. Mm-scale pyrite veinlets present from 26.90 to 27.0 (set of two). Lower section of interval contains onel ong carbonate/chlorite veinlet (mm-wide) that runs from 29.8 to 30.44m at a high angle TCA (10 ACTA							
						MD	GY		ARG	2I	Py	0.5
						LT	GN		PRO	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
30.44	34.63	4.19	GRD	MG	Medium grained, light greyish brown to tan brown weak propylitically altered granodiorite with oxidative staining pervasive throughout section. Small mm scale carbonate veinlets present in lower section of interval. Propylitic alteration overprints weak argillic alteration							
						MD	GY		BLE	1I	Py	0.1
						LT	WH		PRO	2I		
						LT	BN		OXI	1I		
									ARG	2I		
34.63	35.04	0.41	GRD	MG	medium grained argillic and clay altered light grey to white granodiorite with a 2.5 cm wide pyrite filled quartz vein, trending 70 ACTA. Sericite alteration on fractures							
						MD	BN		PRO	2I		
						LT	GY		CLY	2I	Py	2
						LT	WH		ARG	3I		
									PHC	2I		
35.04	35.50	0.46	VEN	FG	heavily fractured, rubbly zone that likely has a lot of core loss. Small fragments of core in this interval are chaotic, heavily oxidized and have small vuggy sections on the core. Fine grained black bands and quartz carbonate breccia veinlets occur sporadically throughout interval. Likely some sort of quartz carbonate breccia. Disseminated pyrite present throughout as well as hosted in mm-scale pyrite veinlets that trend 70-80 ACTA							
						MD	GY				Py	0.5
						LT	BN		SIL	3I	Py	0.5
35.50	37.50	2.00	GRD	MG	light wht to brown, medium grey, argillic altered granodiorite with a propylitic overprint. Small mm scale quartz carbonate veinlets occur throughout interval at a 80 ACTA.							
						MD	GY		ARG	2I		
						LT	WH					
						LT	BN		PRO	2I	Py	0.1
37.50	37.74	0.24	APL	FG	finegrained pinkish brown aplite dyke 40 ACTA							
						LT	BN					
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.74	41.00	3.26	GRD	MG	medium grey to light green propylitically altered granodiorite with small sub-mm scale carbonate veinlets and trace disseminated pyrite.							
						MD	GY		PRO	2I	Py	0.1
						LT	GN		ARG	1I		
41.00	42.31	1.31	GRD	MG	faulted, rubbly, clay altered +- PRO altered light greenish grey granodiorite, likely related to faulting.							
						LT	GN		ARG	1I		
						LT	GY		PRO	1I		
									CLY	3I		
42.31	47.75	5.44	GRD	MG	weakly propylitic altered granodiorite, medium grey to gree, with weak mm-scale pyrite filled quartz stringers throghout interval (from 44.75 to 47.25)							
						MD	GY		PRO	2I	Py	0.1
						MD	GN				Py	0.1
47.75	48.46	0.71	GRD	MG	faulted, rubbly, oxidized granodiorite, likely related to faulting. Core loss experienced here. Weak silicification and bleached oxidation on small fragments of core throughout interval.							
						LT	BN		BLE	2I	Py	0.1
									OXI	2I		
48.46	48.85	0.39	VEN	FG	Siliceous buff white to grey pyrite bearing quartz vein with dicrete disseminated blebby patchy bands of subhedral pyrite and sphalerite. A fine-grained buff dull grey mineral is present on fracture surfaces. Weak sericite alteration on fracture surfaces.							
						LT	WH		SER	2I	Py	2
						LT	GY		CLY	2I	Py	3
									SIL	3I	Sp	2
48.85	49.17	0.32	GRD	MG	buff grey to dark grey PRO altered grd with disseminated pyrite.							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
49.17	49.80	0.63	GRD	MG	medium buff brown to whiteish grey mineralized granodiorite with set of quartz carbonate veinlets running 80 ACTA and disseminated pyrite throughout.							
						LT	GY		CLY	1I	Py	0.5
						LT	BN		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
49.80	50.50	0.70	GRD	MG	moderate propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
50.50	51.00	0.50	GRD	MG	unaltered medium grey granodiorite							
						MD	GY					
51.00	52.60	1.60	GRD	MG	medium grained propylitic altered granodiorite overprinting argillic alteration							
						MD	GY		ARG	1I		
						LT	GN		PRO	2I		
52.60	55.50	2.90	GRD	MG	mgmedium grey to green, weakly propylitic altered granodiorite with weak mm scale quartz carbonate veinlets							
55.50	58.06	2.56	GRD	MG	medium grained light white to greenish propylitic ltered granodiorite with weak mm scale carbonate stringer veinets developed that run 80 ACTA (rare, only two in interval)							
						MD	GY		PRO	3I		
						LT	GN		ARG	1I		
58.06	63.60	5.54	GRD	MG	medium grained, relatively unaltered granodiorite. 20 cm interval in core is propylitic altered, but besides that, most of this interval is unaltered granodiorite.							
63.60	63.80	0.20	GRD	MG	weakly propylitic alterd grd with trace pyrite mineralization after a quartz carbonate stringer sub mm veinlet							
						MD	GY		PRO	1I	Py	0.1
						LT	GN					
63.80	64.38	0.58	GRD	MG	medium grained, fractured granodiorite, unaltered							
64.38	66.00	1.62	GRD	MG	weakly propylitic altered granodiorite with small 0.5cm qtzcarb vein, barren of pyrite							
						MD	GY					
						LT	GN		PRO	2I		
66.00	68.68	2.68	GRD	MG	moderate argillic altered whitish brown to grey granodiorite, feldspars have altered to clay, oxidation is pervasive throughout interval.							
						MD	GY					
						LT	WH		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN					
68.68	70.32	1.64	GRD	MG	weakly argillic altred granodiorite with a weak propylitic overprint. Medium greyish green with well developed quartz carbonate stringer veinlets containing disseminated pyrite. Quartz carbonate veinlet trend 70 ACTA and contain dissem pyrite.							
						MD	GY		ARG	1I	Py	0.5
						MD	GN		PRO	2I		
70.32	70.80	0.48	GRD	MG	set of eight 0.5 cm wide quartz carbonate strigner veinlets containing disseminated pyrite. Dissem pyrite persists through granodiorite in this interval. Moderate propylitic alteratio							
						MD	GY		PRO	3I	Py	1
						LT	GN					
70.80	73.87	3.07	GRD	MG	weak to trace argillic altered granodiorite. Relatively unaltered. Patchy argillic alteration							
						MD	GY		ARG	1I		
						LT	GN					
						LT	WH					
73.87	75.10	1.23	GRD	MG	light white to greenish grey clay atered granodiorite with moderate argillic alteration. Weak propylitic overprint. 3 hi angle quartz carbonate veinlets trending 15 ACTA have small oxidation haloes evneloping the veinlets.							
						MD	GY		ARG	3I		
						LT	GN					
						LT	WH		PRO	1I		
75.10	76.00	0.90	GRD	MG	weakly argillic altered grd with 2 low angle quartz carboante veinlets trending 25 ATCA							
						MD	GN					
						MD	GY		ARG	1I		
76.00	77.30	1.30	GRD	MG	relatively unaltered granodiorite. Very weak to trace arg alteration confined to fracture surfaces							
						MD	GY					
77.30	77.50	0.20	GRD	MG	weakly argillic altered grd with 2 low angle quartz carboante veinlets trending 25 ATCA							
									ARG	1I		
77.50	79.37	1.87	GRD	MG	relatively unaltered granodiorite. Very weak to trace arg alteration confined to fracture surfaces							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
79.37	79.59	0.22	APL	FG	fine-grained light pinkish to brown aplite dyke with weak silcification and patchy hem staining. No sulphides							
						LT	PK					
						LT	BN					
79.59	80.30	0.71	GRD	MG	unaltered granodiorite.							
						MD	GY					
80.30	81.00	0.70	GRD	MG	weaky propylitic altered granodiorite.							
						MD	GY		PRO	1I		
						MD	GN					
81.00	81.15	0.15	GRD	MG	mineralized GRD with a 0.4 cm wide quartz carbonate veinlet containing disseminated pyrite. Moderate propylitic alteration							
						MD	GN		PRO	2I	Py	0.5
						MD	GY					
81.15	82.60	1.45	GRD	MG	weakly argillic and propylitic altered grd with small mm-scale quartz carbonate stringers (rare, only two in interval).							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
						LT	WH		ARG	2I		
82.60	86.00	3.40	GRD	MG	medium grained very trace propylitic altered granodiorite, only one small 0.4 cm wide quartz carbonate veinlet with disseminated pyrite alongi ts margin is the only point of interest in this interval.							
						MD	GY		PRO	1I	Py	0.1
						LT	GN					
86.00	88.00	2.00	GRD	MG	Medium grained, light greyish green to greenish grey propylitically altered granodiorite with weak patchy pervasive silicification. Set of 6 small 2-4 mm wide quartz carbonate veinlets that contain disseminated pyrite along their margins. Trace disseminated pyrite throughout interval.							
						MD	GN					
						LT	GN		ARG	1I	Py	0.5
						LT	GY		PRO	3I		
88.00	91.28	3.28	GRD	MG	medium grained light greyish green, patchy weak propylitically altered granodiorite.							
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		PRO	2I		
91.28	93.05	1.77	GRD	MG	medium grained patchy argillic and propylitic altered granodiorite with sparse mm scale quartz carbonate veinlets that are barren of sulphides.							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
						LT	WH					
93.05	93.18	0.13	VEN	FG	fine-grained quartz carbonate vein from 93.05 to 9.10 with a siliceous alteration halo from 9.10 to 93.18. Vein contains disseminated blebby subhedral pyrite, galena, and sphalerite. Pyrite is disseminated along the margins of quartz injections within quartz carbonate vein itself, and can be seen overprinting intergron galena and sphalerite, which are present as patchy subhedral blebs along the margin of where quartz and carbonate are present. Second small rhodochrosite veinlet at 93.11 to 93.12n has pyrite along its margin and the centre of the veinlet contains infilling subhedral galena.							
						LT	WH		SIL	4I	Sp	0.5
						LT	GY				Py	2
											Gn	0.5
93.18	94.35	1.17	GRD	MG	medium grained, propylitic and argillic altered granodiorite within a broader mineralized interval. Light whiteish grey to greenish grey, propylitic alteration increases as you end the interval, which grades into silicified grano with disseminated pyrite.							
						MD	GY					
						LT	GY		ARG	3I	Py	0.1
						LT	WH		PRO	3I		
						LT	GN					
94.35	94.52	0.17	GRD	FG	fine-grained silicified grd with disseminated pyrite and two 1 cm wide quartz veins containing disseminated pyrite.							
						LT	GY		PRO	3I	Py	1
						LT	GN		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
94.52	94.60	0.08	VEN	MG	Fine grained light grey to dark grey, patchy white, quartz carbonate vein containing semi-massive sulfide mineralization. Disseminated blebby pyrite, arsenopyrite, and sphalerite contained within. Subhedral pyrite and arsenopyrite are intergrown with each other and form subhedral blebs up to 5mm by 5 mm. Sphalerite seems to be associated with carbonate, and carbonate stringers can be seen cutting pyrite and arsenopyrite, suggesting that sphalerite was a later phase of mineralizing fluid. Siliceous core of vein, grading into more carbonate rich margins.							
						MD	GY		SIL	5I	As	2
						LT	GY				Sp	1
						LT	WH				Py	5
94.60	95.20	0.60	GRD	FG	Fine grained weakly silicified and propylitically altered granodiorite with trace disseminated pyrite associated with silicification.							
						LT	GY		PRO	3I	Py	0.5
						LT	GN		SIL	3I		
95.20	100.19	4.99	GRD	MG	Medium grained, medium grey with patchy greenish grey, relatively unaltered granodiorite with trace propylitic alteration. Rare sub-mm scale carbonate fractures have small oxidative haloes around them. Small sub-mm scale quartz carbonate veinlets contain trace disseminated pyrite.							
						MD	GY		PRO	1I	Py	0.01
						MD	GN					
100.19	100.75	0.56	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with a weak propylitic overprint.							
						LT	GY		ARG	2I		
						LT	GN		PRO	2I		
100.75	101.07	0.32	GRD	MG	fine grained, silicified and propylitically altered granodiorite with disseminated pyrite thorughout interval.							
						LT	GN		PRO	2I		
						LT	GY		SIL	3I	Py	0.25
101.07	101.33	0.26	GRD	MG	rubbly gouged light brown to grey mineralized fault with finegrained sooty grey clay along the upper margin. Rubble in the interval and disseminated pyrite in the rock fragments within							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		OXI	2I		
						LT	BN		SIL	3I	Py	1
101.33	101.70	0.37	GRD	MG	fine to mediu grained greyish green granodiorite with weak silicification and propylitic alteration; disseminated pyrite throughout.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	2I		
101.70	104.90	3.20	GRD	MG	medium grained patchy moderate argillic altered granodiorite with a weak propylitic overprint. Light white to brownish grey, with oxidation extending below 30 ATCA fractures ~5-10 cm.							
						MD	GY		ARG	3I		
						LT	WH		OXI	2I		
						LT	BN					
104.90	105.25	0.35	GRD	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.							
						MD	GY		PRO	3I	Py	0.5
						LT	GN		SIL	1I		
105.25	105.37	0.12	VEN	FG	fine-grained white to whitish grey quartz carbonate vein with a large band of pyrite between 105.25-105.31, grading into a mix of subhedral pyrite and fine-grained galena.							
						LT	WH		SIL	4I	Py	2
						LT	GY		CLY	4I	Py	3
											Gn	1
105.37	105.82	0.45	GRD	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.							
						MD	GY		PRO	2I	Py	0.5
						LT	GN		SIL	1I		
105.82	107.38	1.56	GRD	MG	medium grained medium grey to greenish grey moderately propylitic altered granodiorite.							
						MD	GN		PRO	2I		
						MD	GY					
107.38	107.70	0.32	GRD	FG	fine grained weakly silicified granodiorite with small 3mm to 5 mm quartz carbonate veinlets that trend 80 ATCA. Veinlets hst disseminated pyrite, and disseminated pyrite is present throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						LT	GN		SIL	2I	Py	0.5
						LT	GY		PRO	2I		
107.70	109.41	1.71	GRD	MG	medium grained moderately argillic altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
						LT	BN					
109.41	109.71	0.30	GRD	FG	fine-grained weakly silicified granodiorite with fine-grained disseminated pyrite trending roughly 80 ATCA. Small sub-mm stringers contain banded fine grained pyrite.							
						LT	GN		SIL	2I		
						LT	GY		PRO	2I	Py	1
109.71	111.44	1.73	GRD	MG	amedium greenish grey weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
111.44	112.41	0.97	GRD	MG	medium to fine grained, weakly silicified propylitically altered granodiorite with weak sub mm hairline stringer veinlets with trace PY. Two 5 mm wide quartz veinlets cut 50 ATCA and contain trace pyrite.							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	1I		
112.41	113.41	1.00	GRD	MG	medium grained light greenish grey granodiorite, moderately propylitically altered.							
						MD	GY		PRO	3I		
						LT	GN					
113.41	114.42	1.01	GRD	MG	fine grained moderate argillic altered granodiorite with a moderate propylitic overprint. Quartz carbonate veining developed sparsely (sub-mm) throughout, likely related to faulting at fractures that run 40 ATCA (oxidized frx).							
						LT	GN					
						LT	GY		PRO	3I	Py	0.5
						LT	BN		ARG	2I		
114.42	115.70	1.28	GRD	MG	medium grained medium grey unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
115.70	117.63	1.93	GRD	MG	medium grained, weakly porpylitic altered granodiorite with weak argillic alteration related to fractures							
						MD	GY		PRO	2I		
						LT	GN		ARG	1I		
117.63	124.50	6.87	GRD	MG	medium grained, light grey to whitish green, weak to moderate argillic altered with a moderate propylitic overprint, granodiorite. Well developed quartz veins run ~45-60 ATCA that host disseminated trace pyrite. In this interval, there are 19 small quartz veinlets to veins that contain trace disseminated pyrite.							
						LT	GY		PRO	3I	Py	0.5
						LT	GN		ARG	2I		
						LT	WH					
124.50	125.32	0.82	GRD	MG	medium grained greenish grey propylitic altered granodiorite with weak silicification. Trace disseminated pyrite							
						LT	GN		PRO	3I	Py	0.1
						LT	GN					
125.32	125.60	0.28	GRD	FG	fine grained heavily propylitic altered grd with large quartz injections throughout whole interval. Trace pyrite present in this section.							
						MD	GN		PRO	3I		
						LT	WH		SIL	3I	Py	1
125.60	131.06	5.46	GRD	MG	medium grained weakly propylitic altered granodiorite							
						MD	GY					
						LT	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.52	1.52	OVB	---	--	overburden/casing
1.52	2.86	1.34	GRD	GRD	MG	mix of unaltered granodiorite and rubble/sandy material. This could be soil mixed in with a small amount of unaltered medium grey granodiorite.
2.86	5.00	2.14	GRD	GRDA	MG	medium grey unaltered granodiorite with weak rusty ox staining on fractures
5.00	6.75	1.75	GRD	GRDA	MG	medium grained light orange to brown to white argillic altered, oxidized, fractured granodiorite with 4 small cm-wide pyrite bearing quartz veins developed. Weakly silicified and clay altered granodiorite.
6.75	7.62	0.87	GRD	GRDA	MG	medium grey unaltered granodiorite
7.62	10.62	3.00	GRD	GRDA	MG	light grey to brown to light green argillic altered granodiorite with a weak to moderate propylitic overprint.
10.62	12.17	1.55	GRD	GRD	MG	medium grey unaltered granodiorite
12.17	12.67	0.50	QFP	DYK	FG	finegrained chill margin of dyke, no visible porphyry clasts, sharp upper contact
12.67	17.13	4.46	QFP	DYK	MG	medium grained dark grey QFP dyke with 1cm wide feldspar grains subangular that have been partially chloritized and clay altered.
17.13	17.44	0.31	QFP	DYK	FG	fine=grained chill margin of QFP dyke with no visible porphyry clasts
17.44	20.49	3.05	GRD	GRDA	MG	medium grained light white to green to medium grey moderately argillic altered grd with a weak to moderate propylitic overprint.
20.49	22.00	1.51	GRD	GRDA	MG	unaltered medium grey granodiorite with weak oxide staining on sub-mm fractures
22.00	23.14	1.14	GRD	GRDA	MG	bleached whitish brown to medium grey to light green clay/arg granodiorite. Weak mm scale carbonate chlorite stringer veinlets cut at 30 ACTA
23.14	24.90	1.76	GRD	GRDA	MG	relatively unaltered medium grey granodiorite with weak to trace propylitic alteration
24.90	28.45	3.55	GRD	GRDA	MG	medium grained orangeish brown to grey and light white granodiorite with a weak clay alteration, weak bleaching, weach oxidation, and weak argillic alteration. Oxidation is confined to fractures surfaces and bleaching is pervasive. Argillic alteration is patchy pervasive
28.45	30.44	1.99	GRD	GRDA	MG	medium grained light grey to green propylitic altered grd overprinting previous arg alteration. Mm-scale pyrite veinlets present from 26.90 to 27.0 (set of two). Lower section of interval contains onel ong carbonate/chlorite veinlet (mm-wide) that runs from 29.8 to 30.44m at a high angle TCA (10 ACTA
30.44	34.63	4.19	GRD	GRDA	MG	Medium grained, light greyish brown to tan brown weak propylitically altered granodiorite with oxidative staining pervasive throughout section. Small mm scale carbonate veinlets present in lower section of interval. Propylitic alteration overprints weak argillic alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
34.63	35.04	0.41	GRD	GRDA	MG	medium grained argillic and clay altered light grey to white granodiorite with a 2.5 cm wide pyrite filled quartz vein, trending 70 ACTA. Sericite alteration on fractures
35.04	35.50	0.46	VEN	GRDM	FG	heavily fractured, rubbly zone that likely has a lot of core loss. Small fragments of core in this interval are chaotic, heavily oxidized and have small vuggy sections on the core. Fine grained black bands and quartz carbonate breccia veinlets occur sporadically throughout interval. Likely some sort of quartz carbonate breccia. Disseminated pyrite present throughout as well as hosted in mm-scale pyrite veinlets that trend 70-80 ACTA
35.50	37.50	2.00	GRD	GRDA	MG	light wht to brown, medium grey, argillic altered granodiorite with a propylitic overprint. Small mm scale quartz carbonate veinlets occur throughout interval at a 80 ACTA.
37.50	37.74	0.24	APL	DYK	FG	finegrained pinkish brown aplite dyke 40 ACTA
37.74	41.00	3.26	GRD	GRDA	MG	medium grey to light green propylitically altered granodiorite with small sub-mm scale carbonate veinlets and trace disseminated pyrite.
41.00	42.31	1.31	GRD	GRDF	MG	faulted, rubbly, clay altered +- PRO altered light greenish grey granodiorite, likely related to faulting.
42.31	47.75	5.44	GRD	GRDA	MG	weakly propylitic altered granodiorite, medium grey to gree, with weak mm-scale pyrite filled quartz stringers throghout interval (from 44.75 to 47.25)
47.75	48.46	0.71	GRD	GRDF	MG	faulted, rubbly, oxidized granodiorite, likely related to faulting. Core loss experienced here. Weak silicification and bleached oxidation on small fragments of core throughout interval.
48.46	48.85	0.39	VEN	VEIN	FG	Siliceous buff white to grey pyrite bearing quartz vein with dicrete disseminated blebby patchy bands of subhedral pyrite and sphalerite. A fine-grained buff dull grey mineral is present on fracture surfaces. Weak sericite alteration on fracture surfaces.
48.85	49.17	0.32	GRD	GRDM	MG	buff grey to dark grey PRO altered grd with disseminated pyrite.
49.17	49.80	0.63	GRD	GRDM	MG	medium buff brown to whiteish grey mineralized granodiorite with set of quartz carbonate veinlets running 80 ACTA and disseminated pyrite throughout.
49.80	50.50	0.70	GRD	GRDA	MG	moderate propylitic altered granodiorite
50.50	51.00	0.50	GRD	GRDA	MG	unaltered medium grey granodiorite
51.00	52.60	1.60	GRD	GRDA	MG	medium grained propylitic altered granodiorite overprinting argillic alteration
52.60	55.50	2.90	GRD	GRDA	MG	mgmedium grey to green, weakly propylitic altered granodiorite with weak mm scale quartz carbonate veinlets
55.50	58.06	2.56	GRD	GRDA	MG	medium grained light white to greenish propylitic ltered granodiorite with weak mm scale carbonate stringer veinets developed that run 80 ACTA (rare, only two in interval)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
58.06	63.60	5.54	GRD	GRD	MG	medium grained, relatively unaltered granodiorite. 20 cm interval in core is propylitic altered, but besides that, most of this interval is unaltered granodiorite.
63.60	63.80	0.20	GRD	GRD	MG	weakly propylitic alterd grd with trace pyrite mineralization after a quartz carbonate stringer sub mm veinlet
63.80	64.38	0.58	GRD	GRD	MG	medium grained, fractured granodiorite, unaltered
64.38	66.00	1.62	GRD	GRDA	MG	weakly propylitic altered granodiorite with small 0.5cm qtzcarb vein, barren of pyrite
66.00	68.68	2.68	GRD	GRDA	MG	moderate argillic altered whitish brown to grey granodiorite, feldspars have altered to clay, oxidation is pervasive throughout interval.
68.68	70.32	1.64	GRD	GRDA	MG	weakly argillic altred granodiorite with a weak propylitic overprint. Medium greyish green with well developed quartz carbonate stringer veinlets containing disseminated pyrite. Quartz carbonate veinlet trend 70 ACTA and contain dissem pyrite.
70.32	70.80	0.48	GRD	GRDA	MG	set of eight 0.5 cm wide quartz carbonate strigner veinlets containing disseminated pyrite. Dissem pyrite persists through granodiorite in this interval. Moderate propylitic alteratio
70.80	73.87	3.07	GRD	GRDA	MG	weak to trace argillic altered granodiorite. Relatively unaltered. Patchy argillic alteration
73.87	75.10	1.23	GRD	GRDA	MG	light white to greenish grey clay atered granodiorite with moderate argillic alteration. Weak propylitic overprint. 3 hi angle quartz carbonate veinlets trending 15 ACTA have small oxidation haloes evneloping the veinlets.
75.10	76.00	0.90	GRD	GRD	MG	weakly argillic altered grd with 2 low angle quartz carboante veinlets trending 25 ATCA
76.00	77.30	1.30	GRD	GRD	MG	relatively unaltered granodiorite. Very weak to trace arg alteration confined to fracture surfaces
77.30	77.50	0.20	GRD	GRD	MG	weakly argillic altered grd with 2 low angle quartz carboante veinlets trending 25 ATCA
77.50	79.37	1.87	GRD	GRD	MG	relatively unaltered granodiorite. Very weak to trace arg alteration confined to fracture surfaces
79.37	79.59	0.22	APL	DYK	FG	fine-grained light pinkish to brown aplite dyke with weak silcification and patchy hem staining. No sulphides
79.59	80.30	0.71	GRD	GRD	MG	unaltered granodiorite.
80.30	81.00	0.70	GRD	GRDA	MG	weaky propylitic altered granodiorite.
81.00	81.15	0.15	GRD	GRDA	MG	mineralized GRD with a 0.4 cm wide quartz carbonate veinlet containing disseminated pyrite. Moderate propylitic alteration
81.15	82.60	1.45	GRD	GRDA	MG	weakly argillic and propylitic altered grd with small mm-scale quartz carbonate stringers (rare, only two in interval).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
82.60	86.00	3.40	GRD	GRD	MG	medium grained very trace propylitic altered granodiorite, only one small 0.4 cm wide quartz carbonate veinlet with disseminated pyrite alongi ts margin is the only point of interest in this interval.
86.00	88.00	2.00	GRD	GRDM	MG	Medium grained, light greyish green to greenish grey propylitically altered granodiorite with weak patchy pervasive silicification. Set of 6 small 2-4 mm wide quartz carbonate veinlets that contain disseminated pyrite along their margins. Trace disseminated pyrite throughout interval.
88.00	91.28	3.28	GRD	GRDA	MG	medium grained light greyish green, patchy weak propylitically altered granodiorite.
91.28	93.05	1.77	GRD	GRDA	MG	medium grained patchy argillic and propylitic altered granodiorite with sparse mm scale quartz carbonate veinlets that are barren of sulphides.
93.05	93.18	0.13	VEN	VEIN	FG	fine-grained quartz carbonate vein from 93.05 to 9.10 with a siliceous alteration halo from 9.10 to 93.18. Vein contains disseminated blebby subhedral pyrite, galena, and sphalerite. Pyrite is disseminated along the margins of quartz injections within quartz carbonate vein itself, and can be seen overprinting intergron galena and sphalerite, which are present as patchy subhedral blebs along the margin of where quartz and carbonate are present. Second small rhodochrosite veinlet at 93.11 to 93.12n has pyrite along its margin and the centre of the veinlet contains infilling subhedral galena.
93.18	94.35	1.17	GRD	GRDM	MG	medium grained, propylitic and argillic altered granodiorite within a broader mineralized interval. Light whiteish grey to greenish grey, propylitic alteration increases as you end the interval, which grades into silicified grano with disseminated pyrite.
94.35	94.52	0.17	GRD	GRDM	FG	fine-grained silicified grd with disseminated pyrite and two 1 cm wide quartz veins containing disseminated pyrite.
94.52	94.60	0.08	VEN	VEIN	MG	Fine grained light grey to dark grey, patchy white, quartz carbonate vein containing semi-massive sulfide mineralization. Disseminated blebby pyrite, arsenopyrite, and sphalerite contained within. Subhedral pyrite and arsenopyrite are intergrown with each other and form subhedral blebs up to 5mm by 5 mm. Sphalerite seems to be associated with carbonate, and carbonate stringers can be seen cutting pyrite and arsenopyrite, suggesting that sphalerite was a later phase of mineralizing fluid. Siliceous core of vein, grading into more carbonate rich margins.
94.60	95.20	0.60	GRD	GRDM	FG	Fine grained weakly silicified and propylitically altered granodiorite with trace disseminated pyrite associated with silicification.
95.20	100.19	4.99	GRD	GRDA	MG	Medium grained, medium grey with patchy greenish grey, relatively unaltered granodiorite with trace propylitic alteration. Rare sub-mm scale carbonate fractures have small oxidative haloes around them. Small sub-mm scale quartz carbonate veinlets contain trace disseminated pyrite.
100.19	100.75	0.56	GRD	GRDA	MG	medium grained, weak to moderate argillic altered granodiorite with a weak propylitic overprint.
100.75	101.07	0.32	GRD	GRDM	MG	fine grained, silicified and propylitically altered granodiorite with disseminated pyrite thorughout interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
101.07	101.33	0.26	GRD	FLTM	MG	rubbly gouged light brown to grey mineralized fault with finegrained sooty grey clay along the upper margin. Rubble in the interval and disseminated pyrite in the rock fragments within
101.33	101.70	0.37	GRD	GRDM	MG	fine to mediu grained greyish green granodiorite with weak silicification and propylitic alteration; disseminated pyrite throughout.
101.70	104.90	3.20	GRD	GRDA	MG	medium grained patchy moderate argillic altered granodiorite with a weak propylitic overprint. Light white to brownish grey, with oxidation extending below 30 ATCA fractures ~5-10 cm.
104.90	105.25	0.35	GRD	GRDM	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.
105.25	105.37	0.12	VEN	VEIN	FG	fine-grained white to whitish grey quartz carbonate vein with a large band of pyrite between 105.25-105.31, grading into a mix of subhedral pyrite and fine-grained galena.
105.37	105.82	0.45	GRD	GRDM	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.
105.82	107.38	1.56	GRD	GRDA	MG	medium grained medium grey to greenish grey moderately propylitic altered granodiorite.
107.38	107.70	0.32	GRD	GRDM	FG	fine grained weakly silicified granodiorite with small 3mm to 5 mm quartz carbonate veinlets that trend 80 ATCA. Veinlets hst disseminated pyrite, and disseminated pyrite is present throughout interval.
107.70	109.41	1.71	GRD	GRDA	MG	medium grained moderately argillic altered granodiorite
109.41	109.71	0.30	GRD	GRDM	FG	fine-grained weakly silicified granodiorite with fine-grained disseminated pyrite trending roughly 80 ATCA. Small sub-mm stringers contain banded fine grained pyrite.
109.71	111.44	1.73	GRD	GRDA	MG	amedium greenish grey weakly propylitic altered granodiorite
111.44	112.41	0.97	GRD	GRDM	MG	medium to fine grained, weakly silicified propylitically altered granodiorite with weak sub mm hairline stringer veinlets with trace PY. Two 5 mm wide quartz veinlets cut 50 ATCA and contain trace pyrite.
112.41	113.41	1.00	GRD	GRDA	MG	medium grained light greenish grey granodiorite, moderately propylitically altered.
113.41	114.42	1.01	GRD	GRDM	MG	fine grained moderate argillic altered granodiorite with a moderate propylitic overprint. Quartz carbonate veining developed sparsely (sub-mm) throughout, likely related to faulting at fractures that run 40 ATCA (oxidized frx).
114.42	115.70	1.28	GRD	GRDA	MG	medium grained medium grey unaltered granodiorite
115.70	117.63	1.93	GRD	GRDA	MG	medium grained, weakly porpylitic altered granodiorite with weak argillic alteration related to fractures

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
117.63	124.50	6.87	GRD	GRDA	MG	medium grained, light grey to whitish green, weak to moderate argillic altered with a moderate propylitic overprint, granodiorite. Well developed quartz veins run ~45-60 ATCA that host disseminated trace pyrite. In this interval, there are 19 small quartz veinlets to veins that contain trace disseminated pyrite.
124.50	125.32	0.82	GRD	GRDA	MG	medium grained greenish grey propylitic altered granodiorite with weak silicification. Trace disseminated pyrite
125.32	125.60	0.28	GRD	GRDM	FG	fine grained heavily propylitic altered grd with large quartz injections throughout whole interval. Trace pyrite present in this section.
125.60	131.06	5.46	GRD	GRDA	MG	medium grained weakly propylitic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden/casing							
1.52	2.86	1.34	GRD	MG	mix of unaltered granodiorite and rubble/sandy material. This could be soil mixed in with a small amount of unaltered medium grey granodiorite.							
						MD	GY					
2.86	10.62	7.76	GRD	MG	medium grey with oxidized rusty patches and alternating weakly argillic altered and weakly propylitic altered granodiorite with intervals of unatlered medium grey granodiorite. One small pyrite bearing quartz vein in argillic altered granoiorite at 5.5m.							
						MD	BN		OXI	1I	Py	0.1
						LT	TN		PRO	1I	Py	0.5
						MD	GY		ARG	2I		
10.62	12.17	1.55	GRD	MG	medium grey unaltered granodiorite							
						MD	GY					
12.17	17.44	5.27	QFP	MG	dark grey fine grained groundmass with light greenish white feldspar porphyritic feldspar clasts up to 1cm in size (subangular), disseminated fine-grained quartz and disseminated subhedral pyrite. Chill margins on either contact of dyke where there are no feldspar clasts, a finer grained groundmass, and a darker grey colour are present on upper and lower contacts with granodiorite and chill margins extend for 60 cm on the upper contact and 30 cms on the lower contact							
						LT	WH					
						DK	GY		SIL	1I		
						LT	GN		PRO	2I		
17.44	34.63	17.19	GRD	MG	medium grained medium grey to tan brown to whitish green patchily altered granodiorite, with sparse intervals of unaltered granodiorite within. Weakly argillic altered with a weak to moderate propylitic overprint. Weak veining is developed within section, with two small mm scale pyrite bearing quartz veins within a patch of moderately propylitic altered granodiorite.							
						LT	GN		OXI	1I		
						MD	GY		ARG	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		PRO	2I		
34.63	35.04	0.41	GRD	MG	medium grained argillic and clay altered light grey to white granodiorite with a 2.5 cm wide pyrite filled quartz vein, trending 70 ACTA. Sericite alteration on fractures							
									ARG	3I		
						LT	WH		PRO	2I		
						MD	BN		PHC	2I		
						LT	GY		CLY	2I	Py	2
35.04	35.50	0.46	GRD	FG	heavily fractured, rubbly zone that likely has a lot of core loss. Small fragments of core in this interval are chaotic, heavily oxidized and have small vuggy sections on the core. Fine grained black bands and quartz carbonate breccia veinlets occur sporadically throughout interval. Likely some sort of quartz carbonate breccia. Disseminated pyrite present throughout as well as hosted in mm-scale pyrite veinlets that trend 70-80 ACTA							
						LT	BN				Py	0.5
						MD	GY		SIL	3I	Py	0.5
35.50	37.50	2.00	GRD	MG	light wht to brown, medium grey, argillic altered granodiorite with a propylitic overprint. Small mm scale quartz carbonate veinlets occur throughout interval at a 80 ACTA.							
						MD	GY		PRO	2I		
						LT	WH					
						LT	BN		ARG	2I	Py	0.1
37.50	37.74	0.24	APL	FG	finegrained pinkish brown aplite dyke 40 ACTA							
						LT	PK					
						LT	BN					
37.74	41.00	3.26	GRD	MG	medium grey to light green propylitically altered granodiorite with small sub-mm scale carbonate veinlets and trace disseminated pyrite.							
						MD	GY		PRO	2I	Py	0.1
						LT	GN		ARG	1I		
41.00	42.31	1.31	GRD	MG	faulted, rubbly, clay altered +- PRO altered light greenish grey granodiorite, likely related to faulting.							
									PRO	1I		
						LT	GN		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		CLY	3I		
42.31	47.75	5.44	GRD	MG	weakly propylitic altered granodiorite, medium grey to gree, with weak mm-scale pyrite filled quartz stringers throghout interval (from 44.75 to 47.25)							
						MD	GY				Py	0.1
						MD	GN		PRO	2I	Py	0.1
47.75	48.46	0.71	GRD	MG	faulted, rubbly, oxidized granodiorite, likely related to faulting. Core loss experienced here. Weak silicification and bleached oxidation on small fragments of core throughout interval.							
									BLE	2I		
						LT	BN		OXI	2I	Py	0.1
48.46	48.85	0.39	VEN	FG	Siliceous buff white to grey pyrite bearing quartz vein with dicrete disseminated blebby patchy bands of subhedral pyrite and sphalerite. A fine-grained buff dull grey mineral is present on fracture surfaces. Weak sericite alteration on fracture surfaces.							
						LT	GY		SER	2I	Sp	2
									SIL	3I	Py	3
						LT	WH		CLY	2I	Py	2
48.85	49.17	0.32	GRD	MG	buff grey to dark grey PRO altered grd with disseminated pyrite.							
						MD	GY		PRO	2I	Py	0.1
						MD	GN					
49.17	49.80	0.63	GRD	MG	medium buff brown to whiteish grey mineralized granodiorite with set of quartz carbonate veinlets running 80 ACTA and disseminated pyrite throughout.							
						LT	GY		PRO	2I	Py	0.5
						LT	BN		CLY	1I	Py	0.5
49.80	52.60	2.80	GRD	MG	meidum grained medium grey to green, variably argillic and propylitic altered granodiorite with patches of unaltered granodiorite within.							
						MD	GY		ARG	1I		
						LT	GN		PRO	1I		
52.60	55.50	2.90	GRD	MG	mgmedium grey to green, weakly propylitic altered granodiorite with weak mm scale quartz carbonate veinlets							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
55.50	58.06	2.56	GRD	MG	medium grained light white to greenish propylitic ltered granodiorite with weak mm scale carbonate stringer veinets developed that run 80 ACTA (rare, only two in interval)							
						MD	GY		PRO	3I		
						LT	GN		ARG	1I		
58.06	64.38	6.32	GRD	MG	medium grained, relatively unaltered granodiorite. 20 cm interval in core is propylitic altered, but besides that, most of this interval is unaltered granodiorite.							
64.38	75.10	10.72	GRD	MG	medium grained, light brown to whitish green, medium grey to light greenish grey altered granodiorite. Variable alteration throughout interval, including moderate to strong argillic alteration, weak argillic alteration overprinted by weak propylitic alteration and trace propylitic alteration. Interval contains a few m l ong intervals of unaltered granodiorite, but the greater part of the interval is altered. Weak .5 cm widehigh angle carbonate veinlets cut core and have weak oxidation staining on their margins that could represent faulted horizons. 70 ACTA quartz carbonate veinlets persist throughout interval and contian disseminated pyrite , generally coinciding with greater intensity of propylitic alteration							
						MD	GY		BLE	1I		
						LT	WH		OXI	1I		
						LT	BN		ARG	2I	Py	0.1
						LT	GN		PRO	2I	Py	0.1
75.10	79.37	4.27	GRD	MG	medium grained medium grey relatively unaltered granodiorite with weak patchy argillic alteration related to low angle quartz carbonate veinlets (15-25 ACTA) Majority of interval is unaltered granodiorite.							
						MD	GY					
						LT	GN		ARG	1I		
79.37	79.59	0.22	APL	FG	fine-grained light pinkish to brown aplite dyke with weak silcification and patchy hem staining. No sulphides							
						LT	PK					
						LT	BN					
79.59	80.30	0.71	GRD	MG	unaltered granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
80.30	82.60	2.30	GRD	MG	medium grained medium grey to greenish grey weak propylitic altered granodiorite with weak argillic alteration. Two intervals contain quartz carb veinlets 80 ATCA that contain disseminated pyrite. Propyitic alteration increases as you near the pyrite veinlet zones							
						MD	GY		ARG	1I	Py	0.2
						MD	GN		PRO	2I		
82.60	86.00	3.40	GRD	MG	medium grained, very trace propylitic altered granodiorite, only one small 0.4 cm wide quartz carbonate veinlet with disseminated pyrite along veinlet margin is the only point of interest in this interval.							
						MD	GY		PRO	1I	Py	0.1
						LT	GN					
86.00	88.00	2.00	GRD	MG	Medium grained, light greyish green to greenish grey propylitically altered granodiorite with weak patchy pervasive silicification. Set of 6 small 2-4 mm wide quartz carbonate veinlets that contain disseminated pyrite along their margins. Trace disseminated pyrite throughout interval.							
						MD	GN		PRO	3I	Py	0.5
						LT	GY		ARG	1I		
						LT	GN					
88.00	91.28	3.28	GRD	MG	medium grained light greyish green, patchy weak propylitically altered granodiorite.							
						LT	GN					
						LT	GY		PRO	2I		
91.28	93.05	1.77	GRD	MG	medium grained patchy argillic and propylitic altered granodiorite with sparse mm scale quartz carbonate veinlets that are barren of sulphides.							
						MD	GN					
						LT	WH		ARG	2I		
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
93.05	93.18	0.13	VEN	FG	fine-grained quartz carbonate vein from 93.05 to 9.10 with a siliceous alteration halo from 9.10 to 93.18. Vein contains disseminated blebby subhedral pyrite, galena, and sphalerite. Pyrite is disseminated along the margins of quartz injections within quartz carbonate vein itself, and can be seen overprinting intergron galena and sphalerite, which are present as patchy subhedral blebs along the margin of where quartz and carbonate are present. Second small rhodochrosite veinlet at 93.11 to 93.12n has pyrite along its margin and the centre of the veinlet contains infilling subhedral galena.							
											Sp	0.5
						LT	GY		SIL	4I	Gn	0.5
						LT	WH				Py	2
93.18	94.35	1.17	GRD	MG	medium grained, propylitic and argillic altered granodiorite within a broader mineralized interval. Light whiteish grey to greenish grey, propylitic alteration increases as you end the interval, which grades into silicified grano with disseminated pyrite.							
						LT	GN		PRO	3I	Py	0.1
						LT	WH		ARG	3I		
						LT	GY					
						MD	GY					
94.35	94.52	0.17	GRD	FG	fine-grained silicified grd with disseminated pyrite and two 1 cm wide quartz veins containing disseminated pyrite.							
						LT	GY		SIL	2I		
						LT	GN		PRO	3I	Py	1
94.52	94.60	0.08	VEN	MG	Fine grained light grey to dark grey, patchy white, quartz carbonate vein containing semi-massive sulfide mineralization. Disseminated blebby pyrite, arsenopyrite, and sphalerite contained within. Subhedral pyrite and arsenopyrite are intergrown with each other and form subhedral blebs up to 5mm by 5 mm. Sphalerite seems to be associated with carbonate, and carbonate stringers can be seen cutting pyrite and arsenopyrite, suggesting that sphalerite was a later phase of mineralizing fluid. Siliceous core of vein, grading into more carbonate rich margins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY				Py	5
						LT	WH		SIL	5I	As	2
						LT	GY				Sp	1
94.60	95.20	0.60	GRD	FG	Fine grained weakly silicified and propylitically altered granodiorite with trace disseminated pyrite associated with silicification.							
						LT	GY		SIL	3I		
						LT	GN		PRO	3I	Py	0.5
95.20	100.19	4.99	GRD	MG	Medium grained, medium grey with patchy greenish grey, relatively unaltered granodiorite with trace propylitic alteration. Rare sub-mm scale carbonate fractures have small oxidative haloes around them. Small sub-mm scale quartz carbonate veinlets contain trace disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	1I	Py	0.01
100.19	100.75	0.56	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with a weak propylitic overprint.							
						LT	GN		PRO	2I		
						LT	GY		ARG	2I		
100.75	101.07	0.32	GRD	MG	fine grained, silicified and propylitically altered granodiorite with disseminated pyrite thorughout interval.							
						LT	GN		PRO	2I		
						LT	GY		SIL	3I	Py	0.25
101.07	101.33	0.26	GRD	MG	rubbly gouged light brown to grey mineralized fault with finegrained sooty grey clay along the upper margin. Rubble in the interval and disseminated pyrite in the rock fragments within							
						LT	GY		OXI	2I	Py	1
						LT	BN		SIL	3I		
101.33	101.70	0.37	GRD	MG	fine to mediu grained greyish green granodiorite with weak silicification and propylitic alteration; disseminated pyrite throughout.							
						MD	GN		PRO	2I		
						MD	GY		SIL	2I	Py	0.5
101.70	104.90	3.20	GRD	MG	medium grained patchy moderate argillic altered granodiorite with a weak propylitic overprint. Light white to brownish grey, with oxidation extending below 30 ATCA fractures ~5-10 cm.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						LT	BN		OXI	2I		
						MD	GY		ARG	3I		
104.90	105.25	0.35	GRD	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.							
						MD	GY		SIL	1I	Py	0.5
						LT	GN		PRO	3I		
105.25	105.37	0.12	VEN	FG	fine-grained white to whitish grey quartz carbonate vein with a large band of pyrite between 105.25-105.31, grading into a mix of subhedral pyrite and fine-grained galena.							
						LT	WH		CLY	4I	Py	3
						LT	GY		SIL	4I	Gn	1
											Py	2
105.37	105.82	0.45	GRD	FG	fine grained silicified and propylitic altered granodiorite with dissmeinated pyrite throughout.							
						MD	GY		PRO	2I		
						LT	GN		SIL	1I	Py	0.5
105.82	107.38	1.56	GRD	MG	medium grained medium grey to greenish grey moderately propylitic altered granodiorite.							
						MD	GY					
						MD	GN		PRO	2I		
107.38	107.70	0.32	GRD	FG	fine grained weakly silicified granodiorite with small 3mm to 5 mm quartz carbonate veinlets that trend 80 ATCA. Veinlets hst disseminated pyrite, and disseminated pyrite is present throughout interval.							
						MD	GY		PRO	2I	Py	0.5
						LT	GN		SIL	2I		
						LT	GY					
107.70	109.41	1.71	GRD	MG	medium grained moderately argillic altered granodiorite							
						LT	BN					
						MD	GY		ARG	3I		
						LT	WH					
109.41	109.71	0.30	GRD	FG	fine-grained weakly silicified granodiorite with fine-grained disseminated pyrite trending roughly 80 ATCA. Small sub-mm stringers contain banded fine grained pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		SIL	2I	Py	1
						LT	GN		PRO	2I		
109.71	111.44	1.73	GRD	MG	amedium greenish grey weakly propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	1I		
111.44	112.41	0.97	GRD	MG	medium to fine grained, weakly silicified propylitically altered granodiorite with weak sub mm hairline stringer veinlets with trace PY. Two 5 mm wide quartz veinlets cut 50 ATCA and contain trace pyrite.							
						MD	GY		PRO	1I	Py	0.5
						MD	GN		SIL	2I		
112.41	113.41	1.00	GRD	MG	medium grained light greenish grey granodiorite, moderately propylitically altered.							
						MD	GY					
						LT	GN		PRO	3I		
113.41	114.42	1.01	GRD	MG	fine grained moderate argillic altered granodiorite with a moderate propylitic overprint. Quartz carbonate veining developed sparsely (sub-mm) throughout, likely related to faulting at fractures that run 40 ATCA (oxidized frx).							
						LT	BN		ARG	2I	Py	0.5
						LT	GN					
						LT	GY		PRO	3I		
114.42	115.70	1.28	GRD	MG	medium grained medium grey unaltered granodiorite							
						MD	GY					
115.70	117.63	1.93	GRD	MG	medium grained, weakly porpylitic altered granodiorite with weak argillic alteration related to fractures							
						MD	GY		ARG	1I		
						LT	GN		PRO	2I		
117.63	124.50	6.87	GRD	MG	medium grained, light grey to whitish green, weak to moderate argillic altered with a moderate propylitic overprint, granodiorite. Well developed quartz veins run ~45-60 ATCA that host disseminated trace pyrite. In this interval, there are 19 small quartz veinlets to veins that contain trace disseminated pyrite.							
						LT	GN					
						LT	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		ARG	2I		
124.50	125.32	0.82	GRD	MG	medium grained greenish grey propylitic altered granodiorite with weak silicification. Trace disseminated pyrite							
						LT	GN		PRO	3I	Py	0.1
						LT	GN					
125.32	125.60	0.28	GRD	FG	fine grained heavily propylitic altered grd with large quartz injections throughout whole interval. Trace pyrite present in this section.							
						MD	GN		SIL	3I	Py	1
						LT	WH		PRO	3I		
125.60	131.06	5.46	GRD	MG	medium grained weakly propylitic altered granodiorite with rare quartz veinlets trending 30 ATCA							
						LT	GN		PRO	2I		
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0	0	0.00	0	--	--	--	
1.52	3.05	1.53	0.8	52	0.11	7	--	2H	5W	
3.05	4.57	1.52	1.43	94	0.78	51	--	4H	2W	
4.57	6.10	1.53	1.31	86	0.83	54	--	3H	1W	
6.10	7.62	1.52	1.45	95	1.13	74	--	3H	2W	
7.62	9.14	1.52	1.4	92	1.20	79	--	3H	2W	
9.14	10.67	1.53	1.43	93	0.43	28	--	3H	3W	
10.67	12.19	1.52	1.52	100	1.42	93	--	4H	1W	
12.19	13.72	1.53	1.52	99	1.40	92	--	3H	2W	
13.72	15.24	1.52	1.52	100	1.47	97	--	3H	2W	minor iron staining
15.24	18.29	3.05	2.89	95	2.75	90	--	3H	2W	
18.29	21.34	3.05	3.05	100	1.82	60	--	3H	2W	
21.34	24.38	3.04	2.93	96	2.21	73	--	3H	2W	
24.38	27.43	3.05	2.85	93	1.93	63	--	3H	2W	
27.43	30.48	3.05	2.98	98	2.42	79	--	3H	2W	
30.48	33.53	3.05	2.97	97	1.73	57	--	3H	2W	
33.53	36.58	3.05	2.85	93	1.78	58	--	3H	2W	Iron staining and carbonate infill
36.58	39.62	3.04	2.96	97	1.80	59	--	3H	2W	iron staining and carbonate infill
39.62	42.67	3.05	2.9	95	1.70	56	--	3H	2W	
42.67	45.72	3.05	3.02	99	2.20	72	--	4H	2W	Chlorite and carbonate infill
45.72	48.77	3.05	2.98	98	2.30	75	--	4H	1W	
48.77	51.82	3.05	3.02	99	1.73	57	--	4H	1W	chlorite and carbonate infill
51.82	54.86	3.04	3.04	100	2.58	85	--	4H	1W	chlorite and carbonate infill
54.86	57.91	3.05	2.96	97	2.82	92	--	3H	1W	
57.91	60.96	3.05	2.95	97	2.74	90	--	4H	4W	
60.96	64.01	3.05	0	0	0.00	0	--	--	--	
64.01	67.06	3.05	2.75	90	1.51	50	--	3H	2W	Clay and carbonate
67.06	70.10	3.04	2.88	95	1.94	64	--	3H	2W	clay and carbonate
70.10	73.15	3.05	2.92	96	1.52	50	--	3H	2W	Clay and general iron staining

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
73.15	76.20	3.05	2.98	98	1.93	63	--	3H	1W	Clay and Carbonate
76.20	79.25	3.05	2.94	96	2.64	87	--	4H	1W	Chlorite and carbonate
79.25	82.30	3.05	2.84	93	1.77	58	--	4H	1W	Chlorite and carbonate
82.30	85.34	3.04	2.89	95	2.36	78	--	4H	1W	
85.34	88.39	3.05	2.98	98	2.03	67	--	3H	1W	Carbonate infill
88.39	89.92	1.53	1.52	99	1.48	97	--	4H	1W	Chlorite and carbonate infill
89.92	92.96	3.04	3.04	100	2.96	97	--	4H	1W	Chlorite, carbonate and minor sulphide infill
92.96	96.01	3.05	2.93	96	2.63	86	--	4H	1W	
96.01	98.76	2.75	2.75	100	2.70	98	--	4H	2W	General iron staining and carbonate
98.76	100.58	1.82	1.68	92	1.63	90	--	4H	1W	General iron staining and chlorite infill
100.58	103.63	3.05	2.84	93	1.43	47	--	4H	1W	Chlorite and minor sulphide infill
103.63	106.68	3.05	2.7	89	1.46	48	--	3H	1W	
106.68	109.42	2.74	2.59	95	1.40	51	--	3H	1W	Clay and carbonate infill
109.42	111.25	1.83	1.7	93	1.50	82	--	3H	1W	
111.25	114.30	3.05	2.98	98	1.92	63	--	3H	1W	Clay and minor chlorite infill
114.30	117.35	3.05	3.02	99	1.82	60	--	3H	1W	
117.35	120.40	3.05	3.05	100	2.72	89	--	3H	1W	Clay and Chlorite infill
120.40	123.44	3.04	2.99	98	2.67	88	--	3H	1W	Clay and chlorite infill
123.44	126.49	3.05	2.97	97	2.83	93	--	3H	1W	
126.49	128.02	1.53	1.5	98	1.38	90	--	3H	1W	
128.02	131.06	3.04	2.87	94	2.10	69	--	3H	1W	

Magnetic Suscepatibility

KL -19-440

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	Highly fractured
2	18.76	GRD	
3	10.95	GRD	
4	2.904	GRD	
5	1.948	GRD	
6	12.49	GRD	
7	4.116	GRD	
8	0.306	GRD	
9	0.376	GRD	
10	0.165	GRD	
11	21.03	GRD	
12	2.344	GRD	
13	0.494	QFP	
14	0.417	QFP	
15	0.291	QFP	
16	0.58	QFP	
17	0.913	QFP	
18	0.235	GRD	
19	0.324	GRD	
20	0.328	GRD	
21	11.24	GRD	
22	1.14	GRD	
23	0.911	GRD	
24	11.16	GRD	
25	13.15	GRD	
26	0.517	GRD	
27	0.174	GRD	
28	0.449	GRD	
29	0.474	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.699	GRD	
31	5.774	GRD	
32	0.242	GRD	
33	0.373	GRD	
34	0.358	GRD	
35	0.159	GRD	
36	0.385	GRD	
37	0.744	GRD	
38	0.499	GRD	
39	8.739	GRD	
40	0.499	GRD	
41	13.51	GRD	
41	13.51	GRD	
42	0.534	GRD	
43	12.57	GRD	
44	6.979	GRD	
45	9.183	GRD	
46	9.817	GRD	
47	1.996	GRD	
48	1.208	GRD	
49	0.191	GRD	
50	0.477	GRD	
51	0.504	GRD	
52	0.358	GRD	
53	13.63	GRD	
54	20.56	GRD	
55	7.68	GRD	
56	0.465	GRD	
57	0.332	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	0.999	GRD	
59	7.249	GRD	
60	13.47	GRD	
61	16.67	GRD	
62	17.66	GRD	
63	12.08	GRD	
64	7.508	GRD	
65	1.39	GRD	
66	0.582	GRD	
67	7.015	GRD	
68	2.519	GRD	
69	0.51	GRD	
70	0.478	GRD	
71	0.542	GRD	
72	23.91	GRD	
73	20.12	GRD	
74	13.35	GRD	
75	19.1	GRD	
76	21.23	GRD	
77	4.475	GRD	
78	24.9	GRD	
79	20.44	GRD	
80	16.47	GRD	
81	0.647	GRD	
82	1.095	GRD	
83	14.72	GRD	
84	20.09	GRD	
85	15.77	GRD	
86	0.507	GRD	
86	0.507	GRD	
87	0.334	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
88	0.628	GRD	
88	0.628	GRD	
89	1.951	GRD	
90	26.23	GRD	
91	1.676	GRD	
92	2.339	GRD	
93	0.488	GRD	
94	0.49	GRD	
95	0.954	GRD	
96	21.2	GRD	
97	22.03	GRD	
98	18.85	GRD	
99	16.08	GRD	
100	2.397	GRD	
101	0.393	GRD	
102	4.742	GRD	
103	0.672	GRD	
104	3.301	GRD	
105	0.732	GRD	
106	0.436	GRD	
107	0.375	GRD	
108	0.778	GRD	
109	1.012	GRD	
110	1.617	GRD	
111	25.48	GRD	
112	8.629	GRD	
113	0.268	GRD	
114	0.175	GRD	
115	0.599	GRD	
116	0.628	GRD	
117	17.45	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
118	0.459	GRD	
119	0.448	GRD	
120	0.351	GRD	
121	0.569	GRD	
122	0.891	GRD	
123	0.265	GRD	
124	0.202	GRD	
125	4.796	GRD	
126	12.3	GRD	
127	1.696	GRD	
128	0.482	GRD	
129	23.14	GRD	
130	0.657	GRD	
131	0.495	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-440

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W604280	☐	19-022	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604161	☐	19-017	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604293	☐	19-022	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604267	☐	19-021	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604259	☐	19-021	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604242	☐	19-021	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604225	☐	19-018	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604210	☐	19-018	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604205	☐	19-018	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604184	☐	19-017	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604179	☐	19-017	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604306	☐	19-022	low grade	KL-STD6	☐	☐	☐
1.37	2.87	1.50	OVB	0.62	41	W604152	☐	19-013	low grade		☐	☐	☐
2.87	4.37	1.50	GRD	1.28	85	W604153	☐	19-013	low grade		☐	☐	☐
4.37	5.29	0.92	GRD	0.92	100	W604154	☐	19-017	low grade		☐	☐	☐
5.29	5.72	0.43	GRD	0.38	88	W604155	☐	19-017	low grade		☐	☐	☐
5.72	6.60	0.88	GRD	0.78	89	W604156	☐	19-017	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
6.60	8.10	1.50	GRD	1.48	99	W604157	☐	19-017	low grade		☐	☐	☐
8.10	9.14	1.04	GRD	0.98	94	W604158	☐	19-017	low grade		☐	☐	☐
9.14	10.00	0.86	GRD	0.75	87	W604159	☐	19-017	low grade		☐	☐	☐
10.00	10.64	0.64	GRD	0.64	100	W604160	☐	19-017	low grade		☐	☐	☐
10.64	11.18	0.54	GRD	0.50	93	W604162	☐	19-017	low grade		☐	☐	☐
11.18	12.17	0.99	GRD	0.98	99	W604163	☐	19-017	low grade		☐	☐	☐
12.17	13.67	1.50	GRD, QFP	1.50	100	W604164	☐	19-017	low grade		☐	☐	☐
13.67	15.17	1.50	QFP	1.50	100	W604165	☐	19-017	low grade		☐	☐	☐
15.17	16.17	1.00	QFP	0.96	96	W604166	☐	19-017	low grade		☐	☐	☐
15.17	16.17	1.00	QFP	0.96	96	W604167	☐	19-017	low grade		☐	☑	☐
16.17	17.44	1.27	QFP	1.27	100	W604168	☐	19-017	low grade		☐	☐	☐
17.44	18.40	0.96	GRD, QFP	0.90	94	W604169	☐	19-017	low grade		☐	☐	☐
18.40	19.35	0.95	GRD	0.90	95	W604170	☐	19-017	low grade		☐	☐	☐
19.35	19.87	0.52	GRD	0.45	87	W604171	☐	19-017	low grade		☐	☐	☐
19.87	20.34	0.47	GRD	0.46	98	W604172	☐	19-017	low grade		☐	☐	☐
19.87	20.34	0.47	GRD	0.46	98	W604173	☐	19-017	low grade		☐	☐	☑
20.34	21.34	1.00	GRD	1.00	100	W604174	☐	19-017	low grade		☐	☐	☐
21.34	22.25	0.91	GRD	0.89	98	W604175	☐	19-017	low grade		☐	☐	☐
22.25	23.75	1.50	GRD	1.38	92	W604176	☐	19-017	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
23.75	25.25	1.50	GRD	1.45	97	W604177	☐	19-017	low grade		☐	☐	☐
25.25	26.75	1.50	GRD	1.40	93	W604178	☐	19-017	low grade		☐	☐	☐
26.75	28.25	1.50	GRD	1.50	100	W604180	☐	19-017	low grade		☐	☐	☐
28.25	28.88	0.63	GRD	0.63	100	W604181	☐	19-017	low grade		☐	☐	☐
28.88	29.30	0.42	GRD	0.40	95	W604182	☐	19-017	low grade		☐	☐	☐
29.30	29.75	0.45	GRD	0.44	98	W604183	☐	19-017	low grade		☐	☐	☐
29.75	30.46	0.71	GRD	0.70	99	W604185	☐	19-017	low grade		☐	☐	☐
30.46	31.00	0.54	GRD	0.52	96	W604186	☐	19-017	low grade		☐	☐	☐
31.00	31.67	0.67	GRD	0.60	90	W604187	☐	19-017	low grade		☐	☐	☐
31.67	32.50	0.83	GRD	0.75	90	W604188	☐	19-017	low grade		☐	☐	☐
32.50	32.80	0.30	GRD	0.30	100	W604189	☐	19-017	low grade		☐	☐	☐
32.80	33.17	0.37	GRD	0.35	95	W604190	☐	19-017	low grade		☐	☐	☐
33.17	34.00	0.83	GRD	0.70	84	W604191	☐	19-017	low grade		☐	☐	☐
34.00	34.60	0.60	GRD	0.60	100	W604192	☐	19-017	low grade		☐	☐	☐
34.60	34.92	0.32	GRD	0.28	88	W604193	☐	19-017	low grade		☐	☐	☐
34.92	35.54	0.62	GRD	0.58	94	W604194	☐	19-018	low grade		☐	☐	☐
35.54	35.94	0.40	GRD	0.40	100	W604195	☐	19-018	low grade		☐	☐	☐
35.94	36.36	0.42	GRD	0.42	100	W604196	☐	19-018	low grade		☐	☐	☐
36.36	36.87	0.51	GRD	0.50	98	W604197	☐	19-018	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
36.87	38.37	1.50	GRD	1.37	91	W604198	☐	19-018	low grade		☐	☐	☐
36.87	38.37	1.50	GRD	1.37	91	W604199	☐	19-018	low grade		☐	☐	☑
38.37	39.87	1.50	GRD	1.50	100	W604200	☐	19-018	low grade		☐	☐	☐
39.87	41.50	1.63	GRD	1.30	80	W604201	☐	19-018	low grade		☐	☐	☐
41.50	43.00	1.50	GRD	1.50	100	W604202	☐	19-018	low grade		☐	☐	☐
43.00	44.50	1.50	GRD	1.50	100	W604203	☐	19-018	low grade		☐	☐	☐
44.50	46.00	1.50	GRD	1.50	100	W604204	☐	19-018	low grade		☐	☐	☐
46.00	46.75	0.75	GRD	0.75	100	W604206	☐	19-018	low grade		☐	☐	☐
46.75	47.14	0.39	GRD	0.29	74	W604207	☐	19-018	low grade		☐	☐	☐
47.14	47.75	0.61	GRD	0.50	82	W604208	☐	19-018	low grade		☐	☐	☐
47.75	48.54	0.79	GRD, GRD	0.66	84	W604209	☐	19-018	low grade		☐	☐	☐
48.54	48.84	0.30	VEN	0.29	97	W599154	☐	19-006	High grade		☐	☐	☐
48.84	49.84	1.00	VEN	0.86	86	W604211	☐	19-018	low grade		☐	☐	☐
49.84	51.34	1.50	GRD	1.46	97	W604212	☐	19-018	low grade		☐	☐	☐
51.34	52.84	1.50	GRD	1.50	100	W604213	☐	19-018	low grade		☐	☐	☐
52.84	54.34	1.50	GRD	1.45	97	W604214	☐	19-018	low grade		☐	☐	☐
54.34	55.84	1.50	GRD	1.38	92	W604215	☐	19-018	low grade		☐	☐	☐
55.84	57.00	1.16	GRD	1.13	97	W604216	☐	19-018	low grade		☐	☐	☐
55.84	57.00	1.16	GRD	1.13	97	W604217	☐	19-018	low grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
57.00	57.60	0.60	GRD	0.60	100	W604218	☐	19-018	low grade		☐	☐	☐
57.60	59.10	1.50	GRD	1.50	100	W604219	☐	19-018	low grade		☐	☐	☐
59.10	60.60	1.50	GRD	1.45	97	W604220	☐	19-018	low grade		☐	☐	☐
60.60	62.10	1.50	GRD	1.47	98	W604221	☐	19-018	low grade		☐	☐	☐
62.10	63.60	1.50	GRD	1.50	100	W604222	☐	19-018	low grade		☐	☐	☐
63.60	64.38	0.78	GRD	0.75	96	W604223	☐	19-018	low grade		☐	☐	☐
64.38	64.80	0.42	GRD, GRD	0.40	95	W604224	☐	19-018	low grade		☐	☐	☐
64.80	65.80	1.00	GRD	1.00	100	W604226	☐	19-018	low grade		☐	☐	☐
65.80	66.44	0.64	GRD	0.60	94	W604227	☐	19-018	low grade		☐	☐	☐
66.44	67.18	0.74	GRD	0.69	93	W604228	☐	19-018	low grade		☐	☐	☐
67.18	68.68	1.50	GRD	1.50	100	W604229	☐	19-018	low grade		☐	☐	☐
68.68	69.65	0.97	GRD	0.90	93	W604230	☐	19-018	low grade		☐	☐	☐
69.65	70.32	0.67	GRD	0.65	97	W604231	☐	19-018	low grade		☐	☐	☐
70.32	70.80	0.48	GRD	0.48	100	W604232	☐	19-018	low grade		☐	☐	☐
70.80	71.80	1.00	GRD	0.93	93	W604233	☐	19-018	low grade		☐	☐	☐
71.80	73.00	1.20	GRD	1.16	97	W604234	☐	19-021	low grade		☐	☐	☐
73.00	73.87	0.87	GRD	0.87	100	W604235	☐	19-021	low grade		☐	☐	☐
73.87	75.10	1.23	GRD	1.17	95	W604236	☐	19-021	low grade		☐	☐	☐
75.10	76.60	1.50	GRD, GRD	1.50	100	W604237	☐	19-021	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
76.60	78.00	1.40	GRD	1.35	96	W604238	☐	19-021	low grade		☐	☐	☐
78.00	79.37	1.37	GRD	1.30	95	W604239	☐	19-021	low grade		☐	☐	☐
79.37	80.85	1.48	GRD, APL	1.45	98	W604240	☐	19-021	low grade		☐	☐	☐
80.85	81.15	0.30	GRD	0.30	100	W604241	☐	19-021	low grade		☐	☐	☐
81.15	82.00	0.85	GRD	0.84	99	W604243	☐	19-021	low grade		☐	☐	☐
82.00	82.60	0.60	GRD	0.60	100	W604244	☐	19-021	low grade		☐	☐	☐
82.60	84.00	1.40	GRD, GRD	1.40	100	W604245	☐	19-021	low grade		☐	☐	☐
84.00	84.50	0.50	GRD	0.49	98	W604246	☐	19-021	low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	W604247	☐	19-021	low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	W604248	☐	19-021	low grade		☐	☐	☑
86.00	86.60	0.60	GRD, GRD	0.57	95	W604249	☐	19-021	low grade		☐	☐	☐
86.60	87.15	0.55	GRD	0.55	100	W604250	☐	19-021	low grade		☐	☐	☐
87.15	88.00	0.85	GRD	0.85	100	W604251	☐	19-021	low grade		☐	☐	☐
88.00	89.00	1.00	GRD, GRD	1.00	100	W604252	☐	19-021	low grade		☐	☐	☐
88.00	89.00	1.00	GRD, GRD	1.00	100	W604253	☐	19-021	low grade		☐	☑	☐
89.00	89.90	0.90	GRD	0.90	100	W604254	☐	19-021	low grade		☐	☐	☐
89.90	90.88	0.98	GRD	0.88	90	W604255	☐	19-021	low grade		☐	☐	☐
90.88	91.28	0.40	GRD	0.30	75	W604256	☐	19-021	low grade		☐	☐	☐
91.28	92.28	1.00	GRD, GRD	1.00	100	W604257	☐	19-021	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
92.28	92.96	0.68	GRD	0.68	100	W604258	☐	19-021	low grade		☐	☐	☐
92.96	93.26	0.30	GRD	0.30	100	W604260	☐	19-021	low grade		☐	☐	☐
93.26	94.00	0.74	GRD	0.74	100	W604261	☐	19-021	low grade		☐	☐	☐
94.00	94.35	0.35	GRD	0.35	100	W604262	☐	19-021	low grade		☐	☐	☐
94.35	94.65	0.30	GRD, GRD	0.30	100	W599156	☐	19-006	High grade		☐	☐	☐
94.65	95.13	0.48	GRD	0.44	92	W604263	☐	19-021	low grade		☐	☐	☐
95.13	96.13	1.00	GRD	0.96	96	W604264	☐	19-021	low grade		☐	☐	☐
96.13	97.18	1.05	GRD	1.05	100	W604265	☐	19-021	low grade		☐	☐	☐
97.18	98.68	1.50	GRD	1.50	100	W604266	☐	19-021	low grade		☐	☐	☐
98.68	100.18	1.50	GRD	1.50	100	W604268	☐	19-021	low grade		☐	☐	☐
100.18	100.77	0.59	GRD	0.58	98	W604269	☐	19-021	low grade		☐	☐	☐
100.77	101.32	0.55	GRD	0.55	100	W604270	☐	19-021	low grade		☐	☐	☐
101.32	102.50	1.18	GRD	1.18	100	W604271	☐	19-021	low grade		☐	☐	☐
102.50	102.95	0.45	GRD	0.45	100	W604272	☐	19-021	low grade		☐	☐	☐
102.95	104.00	1.05	GRD	1.00	95	W604273	☐	19-021	low grade		☐	☐	☐
104.00	105.16	1.16	GRD	1.10	95	W604274	☐	19-022	low grade		☐	☐	☐
105.16	105.46	0.30	GRD	0.30	100	W604275	☐	19-022	low grade		☐	☐	☐
105.46	105.80	0.34	GRD	0.30	88	W604276	☐	19-022	low grade		☐	☐	☐
105.80	106.65	0.85	GRD	0.80	94	W604277	☐	19-022	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
106.65	107.38	0.73	GRD	0.70	96	W604278	☐	19-022	low grade		☐	☐	☐
107.38	107.70	0.32	GRD, GRD	0.30	94	W604279	☐	19-022	low grade		☐	☐	☐
107.70	108.70	1.00	GRD, GRD	0.95	95	W604281	☐	19-022	low grade		☐	☐	☐
108.70	109.24	0.54	GRD	0.50	93	W604282	☐	19-022	low grade		☐	☐	☐
109.24	109.70	0.46	GRD	0.43	93	W604283	☐	19-022	low grade		☐	☐	☐
109.70	110.70	1.00	GRD	1.00	100	W604284	☐	19-022	low grade		☐	☐	☐
110.70	111.44	0.74	GRD	0.70	95	W604285	☐	19-022	low grade		☐	☐	☐
110.70	111.44	0.74	GRD	0.70	95	W604286	☐	19-022	low grade		☐	☑	☐
111.44	111.75	0.31	GRD, GRD	0.30	97	W604287	☐	19-022	low grade		☐	☐	☐
111.75	112.41	0.66	GRD	0.65	98	W604288	☐	19-022	low grade		☐	☐	☐
112.41	113.41	1.00	GRD, GRD	1.00	100	W604289	☐	19-022	low grade		☐	☐	☐
113.41	113.82	0.41	GRD, GRD	0.40	98	W604290	☐	19-022	low grade		☐	☐	☐
113.82	114.22	0.40	GRD	0.39	98	W604291	☐	19-022	low grade		☐	☐	☐
114.22	114.52	0.30	GRD	0.30	100	W604292	☐	19-022	low grade		☐	☐	☐
114.52	115.52	1.00	GRD	1.00	100	W604294	☐	19-022	low grade		☐	☐	☐
115.52	116.45	0.93	GRD	0.86	92	W604295	☐	19-022	low grade		☐	☐	☐
116.45	117.63	1.18	GRD	1.15	97	W604296	☐	19-022	low grade		☐	☐	☐
117.63	118.16	0.53	GRD, GRD	0.50	94	W604297	☐	19-022	low grade		☐	☐	☐
118.16	118.66	0.50	GRD	0.50	100	W604298	☐	19-022	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
118.16	118.66	0.50	GRD	0.50	100	W604299	☐	19-022	low grade		☐	☐	☑
118.66	119.30	0.64	GRD	0.54	84	W604300	☐	19-022	low grade		☐	☐	☐
119.30	120.45	1.15	GRD	1.15	100	W604301	☐	19-022	low grade		☐	☐	☐
120.45	121.60	1.15	GRD	1.15	100	W604302	☐	19-022	low grade		☐	☐	☐
121.60	122.15	0.55	GRD	0.52	95	W604303	☐	19-022	low grade		☐	☐	☐
122.15	122.69	0.54	GRD	0.53	98	W604304	☐	19-022	low grade		☐	☐	☐
122.69	123.35	0.66	GRD	0.51	77	W604305	☐	19-022	low grade		☐	☐	☐
123.35	124.08	0.73	GRD	0.71	97	W604307	☐	19-022	low grade		☐	☐	☐
124.08	125.05	0.97	GRD	0.96	99	W604308	☐	19-022	low grade		☐	☐	☐
125.05	125.88	0.83	GRD	0.72	87	W604309	☐	19-022	low grade		☐	☐	☐
125.88	127.00	1.12	GRD	1.10	98	W604310	☐	19-022	low grade		☐	☐	☐
127.00	128.12	1.12	GRD	1.10	98	W604311	☐	19-022	low grade		☐	☐	☐
128.12	128.56	0.44	GRD	0.42	95	W604312	☐	19-022	low grade		☐	☐	☐
128.56	130.00	1.44	GRD	1.42	99	W604313	☐	19-022	low grade		☐	☐	☐
130.00	131.06	1.06	GRD	0.90	85	W604314	☐	19-023	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-017	W604161	0.00	0.00	0.27	410	☐	☐	☐	☑ ME-6	standard ME-6
19-017	W604179	0.00	0.00	1.78	60	☐	☐	☐	☑ KL-STD6	STD KL-6
19-017	W604184	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-022	W604280	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-022	W604293	0.00	0.00	0.29	650	☐	☐	☐	☑ ME-6	STD ME-6
19-022	W604306	0.00	0.00	1.79	1210	☐	☐	☐	☑ KL-STD6	STD KL-6
19-021	W604242	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-021	W604259	0.00	0.00	0.26	580	☐	☐	☐	☑ ME-6	STD ME-6
19-021	W604267	0.00	0.00	1.80	1130	☐	☐	☐	☑ KL-STD6	STD KL-6
19-018	W604205	0.00	0.00	0.27	630	☐	☐	☐	☑ ME-6	STD ME-6
19-018	W604210	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-018	W604225	0.00	0.00	1.80	420	☐	☐	☐	☑ KL-STD6	STD KL-6
19-013	W604152	1.37	2.87	0.54	2310	☐	☐	☐	☐	
19-013	W604153	2.87	4.37	0.05	2700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-017	W604154	4.37	5.29	0.01	2320	☐	☐	☐	☐	
19-017	W604155	5.29	5.72	0.05	380	☐	☐	☐	☐	
19-017	W604156	5.72	6.60	0.00	2310	☐	☐	☐	☐	
19-017	W604157	6.60	8.10	0.00	2350	☐	☐	☐	☐	
19-017	W604158	8.10	9.14	0.01	1170	☐	☐	☐	☐	
19-017	W604159	9.14	10.00	0.20	1420	☐	☐	☐	☐	
19-017	W604160	10.00	10.64	0.13	1910	☐	☐	☐	☐	
19-017	W604162	10.64	11.18	0.00	2560	☐	☐	☐	☐	
19-017	W604163	11.18	12.17	0.00	2410	☐	☐	☐	☐	
19-017	W604164	12.17	13.67	0.00	1810	☐	☐	☐	☐	
19-017	W604165	13.67	15.17	0.03	1050	☐	☐	☐	☐	
19-017	W604166	15.17	16.17	0.05	780	☐	☐	☐	☐	
19-017	W604167	15.17	16.17	0.03	1180	☑	☐	☐	☐	1/4 dup
19-017	W604168	16.17	17.44	0.00	1630	☐	☐	☐	☐	
19-017	W604169	17.44	18.40	0.02	1240	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-017	W604170	18.40	19.35	0.01	2280	☐	☐	☐	☐	
19-017	W604171	19.35	19.87	0.03	1680	☐	☐	☐	☐	
19-017	W604172	19.87	20.34	0.05	1230	☐	☐	☐	☐	
19-017	W604173	19.87	20.34	0.05	1250	☐	☑	☐	☐	coarse dup
19-017	W604174	20.34	21.34	0.00	2430	☐	☐	☐	☐	
19-017	W604175	21.34	22.25	0.00	2450	☐	☐	☐	☐	
19-017	W604176	22.25	23.75	0.00	2840	☐	☐	☐	☐	
19-017	W604177	23.75	25.25	0.00	2440	☐	☐	☐	☐	
19-017	W604178	25.25	26.75	0.07	2340	☐	☐	☐	☐	
19-017	W604180	26.75	28.25	0.04	3130	☐	☐	☐	☐	
19-017	W604181	28.25	28.88	0.01	2370	☐	☐	☐	☐	
19-017	W604182	28.88	29.30	0.10	1630	☐	☐	☐	☐	
19-017	W604183	29.30	29.75	0.01	2100	☐	☐	☐	☐	
19-017	W604185	29.75	30.46	0.01	4190	☐	☐	☐	☐	
19-017	W604186	30.46	31.00	0.00	2510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-017	W604187	31.00	31.67	0.00	2170	☐	☐	☐	☐	
19-017	W604188	31.67	32.50	0.07	2130	☐	☐	☐	☐	
19-017	W604189	32.50	32.80	0.01	2780	☐	☐	☐	☐	
19-017	W604190	32.80	33.17	0.08	2430	☐	☐	☐	☐	
19-017	W604191	33.17	34.00	0.05	1200	☐	☐	☐	☐	
19-017	W604192	34.00	34.60	0.11	1560	☐	☐	☐	☐	
19-017	W604193	34.60	34.92	0.21	210	☐	☐	☐	☐	
19-018	W604194	34.92	35.54	3.66	150	☐	☐	☐	☐	
19-018	W604195	35.54	35.94	0.11	660	☐	☐	☐	☐	
19-018	W604196	35.94	36.36	0.02	1830	☐	☐	☐	☐	
19-018	W604197	36.36	36.87	0.02	920	☐	☐	☐	☐	
19-018	W604198	36.87	38.37	0.01	1930	☐	☐	☐	☐	
19-018	W604199	36.87	38.37	0.01	1910	☐	☑	☐	☐	coarse duplicate
19-018	W604200	38.37	39.87	0.01	2290	☐	☐	☐	☐	
19-018	W604201	39.87	41.50	0.00	2320	☐	☐	☐	☐	sample interval extended due to poor core recovery from 41 to 41.5 m

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-018	W604202	41.50	43.00	0.01	2250	☐	☐	☐	☐	
19-018	W604203	43.00	44.50	0.00	2450	☐	☐	☐	☐	
19-018	W604204	44.50	46.00	0.01	2280	☐	☐	☐	☐	
19-018	W604206	46.00	46.75	0.01	2320	☐	☐	☐	☐	
19-018	W604207	46.75	47.14	0.02	2920	☐	☐	☐	☐	
19-018	W604208	47.14	47.75	0.01	2270	☐	☐	☐	☐	
19-018	W604209	47.75	48.54	0.02	1370	☐	☐	☐	☐	
19-006	W599154	48.54	48.84	8.74	440	☐	☐	☐	☐	HI GRADE
19-018	W604211	48.84	49.84	0.23	530	☐	☐	☐	☐	
19-018	W604212	49.84	51.34	0.01	2310	☐	☐	☐	☐	
19-018	W604213	51.34	52.84	0.00	2230	☐	☐	☐	☐	
19-018	W604214	52.84	54.34	0.00	2350	☐	☐	☐	☐	
19-018	W604215	54.34	55.84	0.01	2410	☐	☐	☐	☐	
19-018	W604216	55.84	57.00	0.01	2910	☐	☐	☐	☐	
19-018	W604217	55.84	57.00	0.01	3750	☑	☐	☐	☐	1/4 DUP

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-018	W604218	57.00	57.60	0.01	4730	☐	☐	☐	☐	
19-018	W604219	57.60	59.10	0.00	2130	☐	☐	☐	☐	
19-018	W604220	59.10	60.60	0.00	2420	☐	☐	☐	☐	
19-018	W604221	60.60	62.10	0.00	2490	☐	☐	☐	☐	
19-018	W604222	62.10	63.60	0.00	2340	☐	☐	☐	☐	
19-018	W604223	63.60	64.38	0.00	2230	☐	☐	☐	☐	
19-018	W604224	64.38	64.80	0.01	2330	☐	☐	☐	☐	
19-018	W604226	64.80	65.80	0.00	2430	☐	☐	☐	☐	
19-018	W604227	65.80	66.44	0.01	1310	☐	☐	☐	☐	
19-018	W604228	66.44	67.18	0.00	2560	☐	☐	☐	☐	
19-018	W604229	67.18	68.68	0.00	2360	☐	☐	☐	☐	
19-018	W604230	68.68	69.65	0.05	1810	☐	☐	☐	☐	
19-018	W604231	69.65	70.32	0.12	1560	☐	☐	☐	☐	
19-018	W604232	70.32	70.80	0.12	960	☐	☐	☐	☐	
19-018	W604233	70.80	71.80	0.00	2310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-021	W604234	71.80	73.00	0.00	2400	☐	☐	☐	☐	
19-021	W604235	73.00	73.87	0.00	2360	☐	☐	☐	☐	
19-021	W604236	73.87	75.10	0.00	2280	☐	☐	☐	☐	
19-021	W604237	75.10	76.60	0.00	2310	☐	☐	☐	☐	
19-021	W604238	76.60	78.00	0.00	2450	☐	☐	☐	☐	
19-021	W604239	78.00	79.37	0.00	2460	☐	☐	☐	☐	
19-021	W604240	79.37	80.85	0.00	2070	☐	☐	☐	☐	
19-021	W604241	80.85	81.15	0.02	1830	☐	☐	☐	☐	
19-021	W604243	81.15	82.00	0.00	2400	☐	☐	☐	☐	
19-021	W604244	82.00	82.60	0.00	2340	☐	☐	☐	☐	
19-021	W604245	82.60	84.00	0.00	2430	☐	☐	☐	☐	
19-021	W604246	84.00	84.50	0.05	2120	☐	☐	☐	☐	
19-021	W604247	84.50	86.00	0.00	2420	☐	☐	☐	☐	
19-021	W604248	84.50	86.00	0.00	2460	☐	☑	☐	☐	coarse reject duplicate
19-021	W604249	86.00	86.60	0.05	1320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-021	W604250	86.60	87.15	0.51	380	☐	☐	☐	☐	
19-021	W604251	87.15	88.00	0.02	1550	☐	☐	☐	☐	
19-021	W604252	88.00	89.00	0.01	2350	☐	☐	☐	☐	
19-021	W604253	88.00	89.00	0.00	2460	☑	☐	☐	☐	1/4 duplicate
19-021	W604254	89.00	89.90	0.01	2360	☐	☐	☐	☐	
19-021	W604255	89.90	90.88	0.02	2400	☐	☐	☐	☐	
19-021	W604256	90.88	91.28	0.04	2270	☐	☐	☐	☐	
19-021	W604257	91.28	92.28	0.01	1970	☐	☐	☐	☐	
19-021	W604258	92.28	92.96	0.04	1990	☐	☐	☐	☐	
19-021	W604260	92.96	93.26	0.83	710	☐	☐	☐	☐	
19-021	W604261	93.26	94.00	0.01	2420	☐	☐	☐	☐	
19-021	W604262	94.00	94.35	0.04	1250	☐	☐	☐	☐	
19-006	W599156	94.35	94.65	3.58	860	☐	☐	☐	☐	HIGH GRADE
19-021	W604263	94.65	95.13	0.10	360	☐	☐	☐	☐	
19-021	W604264	95.13	96.13	0.02	2250	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-021	W604265	96.13	97.18	0.01	2220	☐	☐	☐	☐	
19-021	W604266	97.18	98.68	0.00	2540	☐	☐	☐	☐	
19-021	W604268	98.68	100.18	0.00	2230	☐	☐	☐	☐	
19-021	W604269	100.18	100.77	0.00	1990	☐	☐	☐	☐	
19-021	W604270	100.77	101.32	1.60	750	☐	☐	☐	☐	
19-021	W604271	101.32	102.50	0.05	1610	☐	☐	☐	☐	
19-021	W604272	102.50	102.95	0.02	1870	☐	☐	☐	☐	
19-021	W604273	102.95	104.00	0.01	2490	☐	☐	☐	☐	
19-022	W604274	104.00	105.16	0.03	1760	☐	☐	☐	☐	
19-022	W604275	105.16	105.46	1.83	530	☐	☐	☐	☐	
19-022	W604276	105.46	105.80	0.31	300	☐	☐	☐	☐	
19-022	W604277	105.80	106.65	0.02	1890	☐	☐	☐	☐	
19-022	W604278	106.65	107.38	0.01	1800	☐	☐	☐	☐	
19-022	W604279	107.38	107.70	0.07	1010	☐	☐	☐	☐	
19-022	W604281	107.70	108.70	0.00	2510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-022	W604282	108.70	109.24	0.04	4850	☐	☐	☐	☐	
19-022	W604283	109.24	109.70	0.30	1510	☐	☐	☐	☐	
19-022	W604284	109.70	110.70	0.00	2270	☐	☐	☐	☐	
19-022	W604285	110.70	111.44	0.00	2460	☐	☐	☐	☐	
19-022	W604286	110.70	111.44	0.00	2560	☑	☐	☐	☐	1/4 dup
19-022	W604287	111.44	111.75	0.00	3000	☐	☐	☐	☐	
19-022	W604288	111.75	112.41	0.00	3160	☐	☐	☐	☐	
19-022	W604289	112.41	113.41	0.01	1860	☐	☐	☐	☐	
19-022	W604290	113.41	113.82	0.01	1410	☐	☐	☐	☐	
19-022	W604291	113.82	114.22	0.02	1670	☐	☐	☐	☐	
19-022	W604292	114.22	114.52	0.01	2160	☐	☐	☐	☐	
19-022	W604294	114.52	115.52	0.00	3160	☐	☐	☐	☐	
19-022	W604295	115.52	116.45	0.01	2280	☐	☐	☐	☐	
19-022	W604296	116.45	117.63	0.00	2650	☐	☐	☐	☐	
19-022	W604297	117.63	118.16	0.00	3890	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-022	W604298	118.16	118.66	0.00	3310	☐	☐	☐	☐	
19-022	W604299	118.16	118.66	0.00	3240	☐	☑	☐	☐	coarse dup
19-022	W604300	118.66	119.30	0.00	4630	☐	☐	☐	☐	
19-022	W604301	119.30	120.45	0.00	2520	☐	☐	☐	☐	
19-022	W604302	120.45	121.60	0.00	3620	☐	☐	☐	☐	
19-022	W604303	121.60	122.15	0.00	2510	☐	☐	☐	☐	
19-022	W604304	122.15	122.69	0.03	2570	☐	☐	☐	☐	
19-022	W604305	122.69	123.35	0.00	2410	☐	☐	☐	☐	
19-022	W604307	123.35	124.08	0.00	3060	☐	☐	☐	☐	
19-022	W604308	124.08	125.05	0.01	3110	☐	☐	☐	☐	
19-022	W604309	125.05	125.88	0.00	2380	☐	☐	☐	☐	
19-022	W604310	125.88	127.00	0.00	2820	☐	☐	☐	☐	
19-022	W604311	127.00	128.12	0.00	2120	☐	☐	☐	☐	
19-022	W604312	128.12	128.56	0.01	1560	☐	☐	☐	☐	
19-022	W604313	128.56	130.00	0.00	2530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-023	W604314	130.00	131.06	0.00	2170	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.35	5.42	VN	37	70	NUL	2	two small 1 cm wide quartz veins with dissemianted blebbly pyrite dispersed thorughout them. Host rock is oxidized granodiorite.			
								Py	2	DI
								Py	1	BA
12.14	17.45	DY	37	70	NUL	1	finegrained quartz feldspar porphyritic dyke with fine-grained chill margins on upper and lower contact			
27.80	27.86	DY	37	30	NUL	1	small brownish pink fine gained aplite dyke			
28.90	29.20	ST		80	NUL	2	two small pyrite bearing quartz veins 0.5cm wide, In propylitic altered granodiorite			
								Py	0.5	DI
32.83	33.10	ST		70	NUL	3	small quartz carbonate veinlets with fine-grained disseminated pyrite on their margins. Wallrock is altered Propylitic granodiorite with weak sericite alteration			
								Py	0.5	DI
34.63	34.87	VN	37	75	NUL	1	fine grained sooty grey to white siliceous quartz vein filled with pyrite (specifically a pyrite filled fracture from 34.70-34.73 trending 70 ACTA). Disseminated pyrite and sericite alteration extends around this siliceous pyrite filled vein, to the extent of this measurement.			
								Py	2	DI
								Py	2	BA
37.47	37.74	DY	37	40	NUL	1	fine grained pinkish brown dyke with patchy blebs of almost agglomerated patchy snowflake texture (rare)			
40.90	40.95	FT	42	15	NUL	1	oxidized fracture, folowing this fractures is a altered fault zone with rubbly clay altered grnaodiorite until 42.5m			
44.80	45.05	ST		80	NUL	3	set of 3 stringer quartz carbonate veinlets that are pyrite filled, with weak propylitic alteration haloes that are 2cm wide			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
46.77	47.12	ST		70	NUL	4	set of 4 stringer quartz carbonate veinlets that are pyrite filled, with weak propylitic alteration haloes that are 4 cm wide			
								Py	0.5	DI
47.75	48.30	FT	42	60	NUL	1	large, rubbly , fractured fault zone directly above a high grade vein zone			
48.30	48.75	VN	37	70	NUL	1	quartz vein, heavily silicified with disseminated patchy pyrite and a small interval (~3cm) with sphalerite. Entire interval consists of silicified quartz vein with disseminated pyrite and sphalerite. Weak sericite alteration on fractures surfaces and minor oxidation throughout.			
								Py	2	DI
								Sp	2	DI
49.24	49.30	FT	42	70	NUL	1	one small 4 cm wide clay gouged competent fault in granodiorite			
49.36	49.85	ST		70	NUL	7	small stringer zone consisting of quartz carbonate veinlets with disseminated pyrite associated with them. Each veinlet is 3-6 mm wide. Interval is propylitically alterered - moderate.			
								Py	0.5	DI
53.59	53.61	VT	37	70	NUL	1	one small 2 mm wide quartz carbonate veinlet with a weak 1 cm propylitic alteration halo, some hematite staining throughout			
								Py	0.5	DI
54.46	54.48	VT	37	70	NUL	1	one small 2 mm wide quartz carbonate veinlet with a weak 3 cm propylitic alteration halo			
								Py	0.5	DI
55.54	55.57	VT	37	80	NUL	1	one small 2 mm wide quartz carbonate veinlet with a weak 1 cm propylitic alteration halo			
								Py	0.5	DI
56.27	56.29	VT	37	70	NUL	1	one small 1 cm wide quartz carbonate veinlet with one mm wide thin black red seam (hematite?) trace idsseminated pyrite			
								Py	0.3	DI
57.20	57.36	VT	37	80	NUL	2	Two 1 cm wide quartz carbonate veinlets with propylitic alteration halo extending 3 cm on either side			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
68.68	68.82	VT	37	70	NUL	2	two 1 cm wide quartz carbonate veinlets with trace PY on margins			
								Py	1	DI
70.32	70.75	ST		50	NUL	3	three 1 cm wide quartz carbonate veinlets with trace PY on margins			
								Py	1	DI
71.45	71.48	FT	42	20	NUL	1	small low angle carbonate fault, surrounding grd is strongly clay altered, this likely represents a fault			
74.87	74.88	FT	42	20	NUL	1	small low angle carbonate fault, surrounding grd is strongly clay altered, this likely represents a fault			
75.43	75.45	VT	37	30	NUL	1	small low angle carbonate veinlet, surrounding grd is strongly clay altered.			
77.30	77.32	VT	37	25	NUL	1	small low angle carbonate veinlet, surrounding grd is strongly clay altered.			
79.40	79.60	DY	37	60	NUL	1	fine grained aplite dyke, pinkish brown			
86.05	86.10	VT	37	70	NUL	1	small 1 cm wide quarta veinlet with disseminated pyrite			
								Py	0.5	DI
86.75	87.15	ST		45	NUL	3	threee small 1 cm wide quartz veinlets with disseminated pyrite.			
								Py	1	DI
94.35	94.63	ST		75	NUL	3	two small 1 cm wid quartz veins with pyrite, 1 8 cm wide polymetallic vein on bottom of interval (94.55-94.63m) with galena, pyrite, arsenopyrite, and sphalerite			
								Gn	1	DI
								Sp	1	DI
								Py	1	DI
								As	1	DI
101.06	101.30	FT	42	70	NUL	1	small faulted gouge zone with weak sulfide mineralization throughout interval.			
								Py	0.5	DI
105.26	105.38	VN	37	80	NUL	1	quartz vein with weak sericite and clay alteration, contains pyrite, galena, and sphalerite.			
								Sp	1	DI
								Py	1	DI
								Gn	1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
105.42	105.80	ST		60	NUL	2	small quartz carbonate veinlets containing disseminated pyrite			
								Py	0.5	DI
107.38	107.70	FT	42	50	NUL	1	small clay gouged and veind mineralized fault			
								Py	0.5	DI
111.44	111.75	ST		50	NUL	2	two small quartz veins 5 mm wide that contain trace disseminated pyrite.			
								Py	0.5	DI
113.10	113.15	FT	42	40	NUL	1	small fault gouge section in propylitically altered granodiorite			
113.41	113.42	FT	42	50	NUL	1	small fault surface where below is silicificied trace mineralization that extends to 113.82m			
117.63	118.30	ST		45	NUL	6	set of 1 cm wide quartz veins with no visible sulphides			
119.20	119.28	BX	34	80	NUL	1	one 8 cm wide quartz carbonate filled breccia vein with propylitic altered granodiorite clasts within, subrounded to subangular.			
120.45	121.70	ST		40	NUL	2	two small quartz carbonate veins with trace disseminated pyrite			
								Py	0.5	DI
122.16	123.60	ST		40	NUL	7	seven small quartz veinlets that are mm scale, containing trace disseminated pyrite			
								Py	0.2	DI
125.32	125.56	BV		--	NUL	1	small zone of strong silicification within a propylitic altered groundmass. Quartz veins are sporadic and random; host trace disseminated pyrite and weak tourmaline alteration			
								Py	0.2	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382993	6889522	1446.098	134.42

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-441

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 09 - Sep 10, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
14	36.36	-51.2	Reflex
134	38.26	-50.5	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.33	1.33	OVB
1.33	5	3.67	GRD
5	5.85	0.85	GRD
5.85	5.91	0.06	VEN
5.91	8.4	2.49	GRD
8.4	11.35	2.95	QFP
11.35	13.85	2.5	GRD
13.85	14.42	0.57	QFP
14.42	18.44	4.02	GRD
18.44	18.47	0.03	VEN
18.47	19.29	0.82	GRD
19.29	19.36	0.07	VEN
19.36	19.6	0.24	GRD
19.6	25.45	5.85	QFP
25.45	25.72	0.27	MAF
25.72	27	1.28	GRD

SAMPLES	
Numbers:	W599157 to W599158, W604315 to W604474, W604476 to W604492
Total:	179
Batch:	006, 023, 024, 026, 027, 028
Certificates:	WH19239282, WH19239291, WH19239309, WH19239315, WH19239317, WH19250393

COMMENTS

27	32	5	GRD
32	32.38	0.38	GRD
32.38	32.63	0.25	VEN
32.63	34.16	1.53	GRD
34.16	34.86	0.7	GRD
34.86	39.9	5.04	GRD
39.9	40.5	0.6	GRD
40.5	43	2.5	GRD
43	49.09	6.09	GRD
49.09	49.27	0.18	GRD
49.27	51.5	2.23	GRD
51.5	53.75	2.25	GRD
53.75	55	1.25	GRD
55	56	1	GRD
56	56.8	0.8	GRD
56.8	59.5	2.7	GRD
59.5	62	2.5	GRD
62	62.67	0.67	GRD
62.67	63.5	0.83	GRD
63.5	63.65	0.15	VEN
63.65	65.09	1.44	GRD
65.09	65.25	0.16	VEN
65.25	65.52	0.27	GRD
65.52	65.57	0.05	VEN
65.57	66.46	0.89	GRD
66.46	66.54	0.08	VEN
66.54	67.57	1.03	GRD
67.57	68.15	0.58	GRD
68.15	72.75	4.6	GRD
72.75	74.9	2.15	GRD
74.9	75.08	0.18	APL
75.08	77.6	2.52	GRD

77.6	78.7	1.1	GRD
78.7	79.69	0.99	GRD
79.69	79.86	0.17	GRD
79.86	81.8	1.94	GRD
81.8	83.67	1.87	GRD
83.67	83.72	0.05	APL
83.72	87.25	3.53	GRD
87.25	88.5	1.25	GRD
88.5	90.5	2	GRD
90.5	91.15	0.65	GRD
91.15	92	0.85	GRD
92	92.93	0.93	GRD
92.93	92.99	0.06	VEN
92.99	94.9	1.91	GRD
94.9	95.75	0.85	GRD
95.75	96.5	0.75	GRD
96.5	97.85	1.35	GRD
97.85	103.4	5.55	GRD
103.4	104.74	1.34	GRD
104.74	104.94	0.2	GRD
104.94	106.36	1.42	GRD
106.36	106.56	0.2	VEN
106.56	109.3	2.74	GRD
109.3	111.6	2.3	GRD
111.6	112.07	0.47	GRD
112.07	113.32	1.25	GRD
113.32	113.7	0.38	GRD
113.7	118	4.3	GRD
118	124.5	6.5	GRD
124.5	131	6.5	GRD
131	134.42	3.42	GRD

Box Log

KL -19-441

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.33	5.35
2	5.35	9.33
3	9.33	13.64
4	13.64	17.86
5	17.86	22.14
6	22.14	26.55
7	26.55	30.33
8	30.33	34.36
9	34.36	38.35
10	38.35	42.26
11	42.26	45.78
12	45.78	49.7
13	49.7	53.75
14	53.75	57.89
15	57.89	62.14
16	62.14	66.28
17	66.28	70.73
18	70.73	75.05
19	75.05	79.31
20	79.31	83.45
21	83.45	87.77
22	87.77	92.15
23	92.15	96.34
24	96.34	100.5
25	100.5	104.6
26	104.6	108.95
27	108.95	113.05
28	113.05	117.16
29	117.16	121.52
30	121.52	125.87
31	125.87	130.22
32	130.22	134.42

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-441									
	10.04	15	NTW	QFP	946.1	612.3	2.23	2.8	
	25.58	16	NTW	MAF	1058.3	704.8	2.34	3.0	
	60.24	18	NTW	GRD	1237	824	2.43	3.0	
	80.2	12	NTW	GRD	790.5	508.6	2.33	2.8	
	106.38	12	NTW	VEN	784.5	516	2.31	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.33	1.33	OVB	--	overburden							
1.33	5.00	3.67	GRD	MG	mixture of unaltered medium grey granodiorite and overbudren/clay/muc. Competent rock starts at 5 m in this hole. Before that, rock is a mixture between clay, granodiorite, mud, and rubble.							
						MD	GY					
5.00	5.85	0.85	GRD	MG	weakly propylitic altered and bleached granodiorite, tan white to light grey							
						MD	GY		PRO	1I		
						LT	GY		BLE	1I		
5.85	5.91	0.06	VEN	FG	one 13mm wide and one 10 mm wide quartz carbonate veinlet with disseminated pyrite hosted within vein and in section between two veinlets							
						MD	WH		SIL	2I		
						LT	GY		PRO	3I	Py	0.5
5.91	8.40	2.49	GRD	MG	moderate propylitic altered granodiorite with a weak to moderate argillic overprint. Weak sub-mm scale quartz carbonate stringer veinlets (3) occur in interval (non-significant). Weak oxidation on fracture surfaces							
						MD	GY					
						LT	GN		PRO	3I		
						LT	BN		ARG	2I		
8.40	11.35	2.95	QFP	MG	fine grained, buff white to tan brown with medium grey intervals, feldspar porphyryitic dyke with small carbonate stringer veinlets (sub-mm), weakly oxidized likely due to proximity to surface/faulting							
						LT	BN					
						LT	WH					
11.35	13.85	2.50	GRD	MG	medium grained light white to medium grey moderate argillically altered granodiorite, trace bleaching and oxidation							
						MD	GY					
						LT	BF		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
13.85	14.42	0.57	QFP	FG	fine grained medium greyish pink dyke with fine-grained feldspar grains, could be a quartz feldspar porphyry dyke, but fine-grained							
						MD	GY					
						LT	PK					
14.42	18.44	4.02	GRD	MG	medium grey to greenish grey, weakly argillic altered granodiorite with a weak to moderate propylitic overprint. Weak mm-scale quartz carbonate veinlets occur from 17.30 to 18.29 as you approach a clay altered fault gouge hosting a small quartz crabonate vein.							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I		
18.44	18.47	0.03	VEN	FG	clay altered faulted interval hosting a quartz carbonate vein with disseminated pyrite, and a fine-grained black mineral on the lower contact							
						MD	BN		CLY	3I	Py	1
									SIL	3I		
18.47	19.29	0.82	GRD	MG	moderate argillic altered granodiorite with a moderate propylitic overprint							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I		
19.29	19.36	0.07	VEN	FG	quartz carbonate breccia vein with angular carbonate clasts, lightly silicified with a siliceous halo extending 3 cm around this zone. Zone contains disseminated pyrite							
						MD	GY		PRO	2I		
						LT	WH		SIL	2I	Py	0.5
19.36	19.60	0.24	GRD	MG	weakly argillic and propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY		ARG	1I		
19.60	25.45	5.85	QFP	MG	Variably altered, feldspar porphyritic dyke, medium grey to greenish grey with white angular feldspar grains. Occurring sporadically throughout dyke are small quartz carbonate veinlets that are barren of sulphides.							
						MD	GY					
						MD	GN					
25.45	25.72	0.27	MAF	FG	fine grained dark grey to black mafic dyke; magnetic. Fine grained hornblende in groundmass							
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.72	27.00	1.28	GRD	MG	heavily clay altered and oxidized, bleached granodiorite. Medium brown to brownish grey							
						MD	BN		BLE	2I		
						MD	GY		ARG	2I		
									OXI	2I		
									CLY	3I		
27.00	32.00	5.00	GRD	MG	medium grey to greenish grey, patchily oxide stained, fractured granodiorite with weak propylitic alteration and rare quartz veining (sub-mm) running 30 ATCA with trace dissemianted pyrite							
						MD	BN		OXI	2I		
						MD	GY		PRO	1I	Py	0.1
									BLE	2I		
32.00	32.38	0.38	GRD	MG	weakly pitted, oxidized, brown, fractured granodiorite with sericite alteration and clay alteration along fractures. Potential for disseminated sulphides within vugs, not identifiable from fractured fragments, but potentially there due to proximity to vein							
						MD	BF		BLE	2I		
									CLY	3I		
									SER	2I		
									OXI	2I		
32.38	32.63	0.25	VEN	FG	quartz carbonate breccia vein with galena, sphalerite, pyrite +- arsenopyrite. Oxidized and pitted, vuggy texture within vein. Above and below vein is heavily oxidized grd.							
						MD	GY				Sp	2
						LT	WH		SIL	4I	Py	0.5
											Gn	1
32.63	34.16	1.53	GRD	MG	medium grained light brown to grey, moderately propylitic altered granodiorite with weak bleaching and oxidation.							
						MD	GY					
						LT	BN					
34.16	34.86	0.70	GRD	MG	medium grained strongly propylitic altered granodiorite with weak 2mm wide quartz carbonate veinlets and disseminated pyrite within them and in surrounding host rock.							
						MD	BN		SIL	1I		
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.86	36.00	1.14	GRD	MG	weak propylitic and trace argillic alteration							
36.00	36.50	0.50	GRD	MG	bleached and oxidized portion of granodiorite with moderate argillic alteration							
36.50	39.90	3.40	GRD	MG	weakly oxidized and bleached granodiorite with weak propylitic alteration and weak argillic alteration							
39.90	40.50	0.60	GRD	MG	medium grained moderately propylitic altered granodiorite with disseminated tourmaline blebs. Weak quartz veining devleoped here (mm-scale) with weak tourmaline blebs developed in quartz vein							
						MD	GN		PRO	3I	To	1
						MD	GY					
40.50	43.00	2.50	GRD	MG	medium grained unaltered granodiorite. Weak argillic alteration only related to fractures. Medium grey							
						MD	GY		ARG	1I		
43.00	45.00	2.00	GRD	MG	moderate argillic alteration in granodiorite, trace propylitic. Oxidation on fracture surfaces							
						MD	GY		ARG	3I		
						LT	WH					
45.00	47.00	2.00	GRD	MG	trace propylitic altered granodiorite, no argillic alteration							
						MD	GY		PRO	1I		
47.00	49.09	2.09	GRD	MG	moderate argillic altered granodiorite with a weak propylitic overprint							
						MD	GY					
						LT	WH					
						LT	GN					
49.09	49.27	0.18	GRD	MG	mineralized strongly argilliic and weakly phyllic altered granodiorite with quartz vein 3 cm wide with galena, pyrtie, and trace sphalerite.							
						LT	WH		ARG	4I	Gn	0.1
						LT	GY		PHC	2I	Py	0.5
											Sp	0.1
49.27	51.50	2.23	GRD	MG	medium grained, greenish grey weak to moderately proplylitic altered granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						LT	GN		PRO	2I		
51.50	53.75	2.25	GRD	MG	medium grained medium grey unaltered granodiorite with rare oxidized fractures							
						MD	GY					
53.75	55.00	1.25	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
55.00	56.00	1.00	GRD	MG	meidum grained, weakly propylitic altered granodiorite							
						MD	GY					
						LT	GN					
56.00	56.80	0.80	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..							
						MD	GN		PRO	3I	Py	0.1
						MD	GY					
56.80	59.50	2.70	GRD	MG	medium grained, salt and pepper textured granodiorite, relatively unaltered. Trace propylitic alteration							
						MD	GY		PRO	1I		
59.50	62.00	2.50	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval.							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
62.00	62.67	0.67	GRD	MG	medium grained medium grey to green weakly propylitic altered granodiorite.							
						MD	GN		PRO	1I		
						MD	GY					
62.67	63.50	0.83	GRD	MG	medium to fine grained, silicified and moderateely propylitic altered granodiorite with disseminated pyrite throughout interval, coincidign with zones of more intense propylitic alteration.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.50	63.65	0.15	VEN	MG	medium grained quartz vein with semimassive pyrite, arsenopyrite, galena, and sphalerite. Trace chalcopyrite on fracture surfaces.							
						MD	WH		SIL	5I	As	1
						MD	GY				Sp	1
											Ca	0.5
											Py	5
											Gn	1
63.65	65.09	1.44	GRD	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GN		PRO	4I	Py	1
						MD	GY					
65.09	65.25	0.16	VEN	MG	quartz carbonate vein trending 40 ATCA with dissemainted pyrite, trace arsenopyrite, trace galena, and one small 5 mm wide band of sphalerite.							
						MD	WH				As	0.5
						LT	GY		SIL	4I	Sp	0.75
						LT	GN				Gn	0.5
											Py	1.5
65.25	65.52	0.27	GRD	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
65.52	65.57	0.05	VEN	MG	quartz vein containing disseminated pyrite, trace galena and sphalerite.							
						MD	WH				Sp	1
						LT	GY		SIL	4I	Py	3
											Gn	1
65.57	66.46	0.89	GRD	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
66.46	66.54	0.08	VEN	MG	quartz vein with dissemianted blebby sphalerite, galena, carbonate, and quartz. Trace pyrite.							
						MD	BN		SIL	3I	Sp	1
						LT	WH				Gn	0.5
											Py	0.5
66.54	67.57	1.03	GRD	MG	meidium grained white to greenish grey moderate argillic altered grd with a weak propylitic overprint.							
						MD	GN		ARG	3I		
						MD	GY		PRO	2I		
						LT	WH					
67.57	68.15	0.58	GRD	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	3I	Py	1
68.15	72.75	4.60	GRD	MG	medium grained light white to greenish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint. Weak hairline carbonate stringers throughout interval are barren of sulphide							
						MD	GY					
						MD	GN		ARG	3I		
						LT	WH		PRO	2I		
72.75	74.90	2.15	GRD	MG	mediumg grained medium grey with patchy green weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
74.90	75.08	0.18	APL	FG	finegrained brownish grey aplite dyke trending 070 ATCA							
						MD	GY					
						MD	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
75.08	77.60	2.52	GRD	MG	medium grained light green to white moderately argillic altered granodiorite with a moderate propylitic overprint. Weak low angle (30-40 ATCA) 3-5 mm wide quartz carbonate veinlets are developed throghout interval, that have weak tourmaline alteration haloes that extend 3 mm oneither side.							
						MD	GY		PRO	3I		
						LT	GN		ARG	3I		
						LT	WH					
77.60	78.70	1.10	GRD	MG	strongly propylitic atered granodiorite with argillic alteration, and weak quartz carbonate stringers devleoped throughout, with weak disseminated pyrite throughout							
						MD	GY					
						LT	WH					
						LT	GN					
78.70	79.69	0.99	GRD	MG	moderate propylitic altered granodiorite overprinting weak argillic alteration.							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH		PRO	3I		
79.69	79.86	0.17	GRD	FG	zone of strong silicification and weak mineralization with many veinlets that trend 40 ATCA. Not a true quartzv ein, but a zone where there is a lot of intense silicification							
						MD	GY		CLY	2I		
						LT	WH		SIL	3I	Py	1
79.86	81.80	1.94	GRD	MG	medium grained, medium green to greenish grey moderate propylitic altered granodiorite with trace dissminated pyrite in hairline sub-mm stringer veinlets dispersed throughout intervals and along fracture surfaces							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
81.80	83.67	1.87	GRD	MG	meidumgrained, weakly propylitic altered granodiorite with no visible sulphides.							
						MD	GN		PRO	1I		
						MD	GY					
83.67	83.72	0.05	APL	FG	fine grained dark greyish aplite dyke; fine-grained							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
83.72	87.25	3.53	GRD	MG	medium grained medium grey, patchy green patchy trace propylitically altered granodiorite. Propylitic alteration is related to hairline quartz carbonate fractures which contain trace to no visible pyrite.							
						MD	GN		PRO	1I	Py	0.1
						MD	GY					
87.25	88.50	1.25	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing five 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GY		PRO	3I	Py	1
						MD	GN					
88.50	90.50	2.00	GRD	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration, patchy.							
						MD	GY		PRO	1I		
						MD	GN					
90.50	91.15	0.65	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing three 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GN		PRO	4I	Py	0.5
						MD	GY					
91.15	92.00	0.85	GRD	MG	medium grained trace prpoylitic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
92.00	92.93	0.93	GRD	MG	Medium to finegrained strongly propylitic altered granodiorite with trace disseminated pyrite throughout interval, hosted in sub-mm hairline pyrite stringers that trend 70 ATCA							
						MD	GN		SIL	1I	Py	0.5
						LT	GY		PRO	4I		
92.93	92.99	0.06	VEN	MG	breciated siliceous quartz carbonate vein with trace disseminated pyrite. Vein is medium grey and white, with a sort of banded texture to it, with minor disseminated tourmaline above and below							
						MD	GY				To	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	WH		SIL	3I	Py	0.5
92.99	94.90	1.91	GRD	MG	medium grained, light white to light grey, oxidized, rubbly granodiorite. Likely related to faulting, this granodiorite has a lot of sporadic clay alteration on fractures. Weak argillic alteration overprinted by weak propylitic alteration							
						MD	GY		PRO	1I		
						LT	BN		ARG	1I		
						LT	WH		CLY	3I		
94.90	95.75	0.85	GRD	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration							
						MD	GY					
						MD	GN					
95.75	96.50	0.75	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing one 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GN		PRO	3I	Py	0.25
						MD	GY					
96.50	97.85	1.35	GRD	MG	medium grained buff white to medium grey, reddish brown argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		ARG	3I		
						LT	GY		PRO	1I		
						LT	WH					
97.85	98.10	0.25	GRD	MG	two 3 cm wide quarz veins 50 ATCA that are barren of sulphides. Wea 1 mm tourmaline ateration envelopes on vein margin							
98.10	98.50	0.40	GRD	MG	moderately altered propylitic granodiorite with weak disseminated tourmaline							
98.50	99.00	0.50	GRD	MG	one 4 cm wide quartz vein barren of sulphide and one 2 cm wide brecciated quartz vein with trace sphalerite in this interval. Granodiorite is moderately propylitic altered granodiorite							
99.00	100.40	1.40	GRD	MG	rubbly fractured granodiorite with weak oxidation on fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.40	102.43	2.03	GRD	MG	faulted clay gougy granodiorite, possibly related to faulting, patchy blebby tourmaline alteration and clay alteration pervasive here, likely related to fluid flow due to faulting.							
102.43	102.63	0.20	CLY	MG	faulted clay horizon in altered mineralized granodiorite, trending 30 ATCA							
102.63	103.40	0.77	GRD	MG	moderately altered propylitic granodiorite with weak disseminated tourmaline							
103.40	104.74	1.34	GRD	MG	medium grained medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		PRO	2I		
						MD	GY					
						LT	WH		ARG	3I		
104.74	104.94	0.20	GRD	MG	medium grained tan brown to white faulted rubbly granodiorite, trending 70 ATCA, likely related to faulting.							
						LT	BN		CLY	2I		
						LT	WH					
104.94	106.36	1.42	GRD	MG	moderately altered propylitic granodiorite with weak disseminated pyrite hosted in strginer veinlets and disseminated within groundmass							
106.36	106.56	0.20	VEN	MG	barren quartz vein trending 50 ATCA with minor to trace chlorite, weak clay alteration and trace disseminated finegrained tourmaline.							
						MD	WH					
106.56	109.30	2.74	GRD	MG	light green to greenish grey, weakly argillic altered granodiorite with a moderate propylitic overprint. Trace finegrained disseminated tourmaline throughout interval, with ultra trace dissaminated fine grained pyrite throughout interval, with higher proportions being related to tourmaline							
						MD	GY		ARG	2I		
						LT	GN		PRO	2I	Py	0.1
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.30	111.60	2.30	GRD	MG	medium grained medium grey granodiorite with patchy weak argillic alteration and traec patchy propylitic alteration.							
						MD	GY		ARG	1I		
						MD	GN		PRO	1I		
111.60	112.07	0.47	GRD	FG	faaulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).							
						MD	GY					
						MD	WH		SIL	4I	Py	0.5
						MD	GN		PRO	3I		
112.07	113.32	1.25	GRD	MG	medium grained, moderately propylitic altered granodiorite, with disseminated patchy tourmaline alteration and weak silicification.							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH					
113.32	113.70	0.38	VEN	MG	faulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).							
113.70	118.00	4.30	GRD	MG	medium grained, medium grey to greenish grey trace propylitic altered granodiorite with hairline carbonate fractures that are barren of sulfide							
						MD	GY		PRO	1I		
118.00	124.50	6.50	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with six 5-10 mm wide quartz carbonate veinlets that all trend 40 ATCA that have trace disseminated pyrite, smaller hairline frx in same orientation have trace pyrite, too							
						MD	GY		ARG	1I	Py	0.5
						MD	GN		PRO	3I		
124.50	131.00	6.50	GRD	MG	weak argillic alterd granodiorite with a weak propylitic overprint.							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
131.00	133.00	2.00	GRD	MG	unaltered granodioirite. Trace propylitic alteration near EOH.							
						MD	GY					
133.00	134.42	1.42	GRD	MG	trace propylitic altered granodiorite							
						MD	GY					
						MD	GN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.33	1.33	OVB	OVB	--	overburden
1.33	5.00	3.67	GRD	GRD	MG	mixture of unaltered medium grey granodiorite and overbudren/clay/muc. Competent rock starts at 5 m in this hole. Before that, rock is a mixture between clay, granodiorite, mud, and rubble.
5.00	5.85	0.85	GRD	GRDA	MG	weakly propylitic altered and bleached granodiorite, tan white to light grey
5.85	5.91	0.06	VEN	VEIN	FG	one 13mm wide and one 10 mm wide quartz carbonate veinlet with disseminated pyrite hosted within vein and in section between two veinlets
5.91	8.40	2.49	GRD	GRDA	MG	moderate propylitic altered granodiorite with a weak to moderate argillic overprint. Weak sub-mm scale quartz carbonate stringer veinlets (3) occur in interval (non-significant). Weak oxidation on fracture surfaces
8.40	11.35	2.95	QFP	DYK	MG	fine grained, buff white to tan brown with medium grey intervals, feldspar porphyryitic dyke with small carbonate stringer veinlets (sub-mm), weakly oxidized likely due to proximity to surface/faulting
11.35	13.85	2.50	GRD	GRDA	MG	medium grained light white to medium grey moderate argillically altered granodiorite, trace bleaching and oxidation
13.85	14.42	0.57	QFP	DYK	FG	fine grained medium greyish pink dyke with fine-grained feldspar grains, could be a quartz feldspar porphyry dyke, but fine-grained
14.42	18.44	4.02	GRD	GRDA	MG	medium grey to greenish grey, weakly argillic altered granodiorite with a weak to moderate propylitic overprint. Weak mm-scale quartz carbonate veinlets occur from 17.30 to 18.29 as you approach a clay altered fault gouge hosting a small quartz crabonate vein.
18.44	18.47	0.03	VEN	VEIN	FG	clay altered faulted interval hosting a quartz carbonate vein with disseminated pyrite, and a fine-grained black mineral on the lower contact
18.47	19.29	0.82	GRD	GRDA	MG	moderate argillic altered granodiorite with a moderate propylitic overprint
19.29	19.36	0.07	VEN	VEIN	FG	quartz carbonate breccia vein with angular carbonate clasts, lightly silicified with a siliceous halo extending 3 cm around this zone. Zone contains disseminated pyrite
19.36	19.60	0.24	GRD	GRDA	MG	weakly argillic and propylitic altered granodiorite
19.60	25.45	5.85	QFP	DYK	MG	Variably altered, feldspar porphyritic dyke, medium grey to greenish grey with white angular feldspar grains. Occurring sporadically throughout dyke are small quartz carbonate veinlets that are barren of sulphides.
25.45	25.72	0.27	MAF	DYK	FG	fine grained dark grey to black mafic dyke; magnetic. Fine grained hornblende in groundmass
25.72	27.00	1.28	GRD	GRDA	MG	heavily clay altered and oxidized, bleached granodiorite. Medium brown to brownish grey

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
27.00	32.00	5.00	GRD	GRDA	MG	medium grey to greenish grey, patchily oxide stained, fractured granodiorite with weak propylitic alteration and rare quartz veining (sub-mm) running 30 ATCA with trace dissemianted pyrite
32.00	32.38	0.38	GRD	GRDM	MG	weakly pitted, oxidized, brown, fractured granodiorite with sericite alteration and clay alteration along fractures. Potential for disseminated sulphides within vugs, not identifiable from fractured fragments, but potentially there due to proximity to vein
32.38	32.63	0.25	VEN	VEIN	FG	quartz carbonate breccia vein with galena, sphalerite, pyrite +- arsenopyrite. Oxidized and pitted, vuggy texture within vein. Above and below vein is heavily oxidized grd.
32.63	34.16	1.53	GRD	GRDA	MG	medium grained light brown to grey, moderately propylitic altered granodiorite with weak bleaching and oxidation.
34.16	34.86	0.70	GRD	GRDM	MG	medium grained strongly propylitic altered granodiorite with weak 2mm wide quartz carbonate veinlets and disseminated pyrite within them and in surrounding host rock.
34.86	36.00	1.14	GRD	GRDA	MG	weak propylitic and trace argillic alteration
36.00	36.50	0.50	GRD	GRDA	MG	bleached and oxidized portion of granodiorite with moderate argillic alteration
36.50	39.90	3.40	GRD	GRDA	MG	weakly oxidized and bleached granodiorite with weak propylitic alteration and weak argillic alteration
39.90	40.50	0.60	GRD	GRDA	MG	medium grained moderately propylitic altered granodiorite with disseminated tourmaline blebs. Weak quartz veining devleoped here (mm-scale) with weak tourmaline blebs developed in quartz vein
40.50	43.00	2.50	GRD	GRD	MG	medium grained unaltered granodiorite. Weak argillic alteration only related to fractures. Medium grey
43.00	45.00	2.00	GRD	GRDA	MG	moderate argillic alteration in granodiorite, trace propylitic. Oxidation on fracture surfaces
45.00	47.00	2.00	GRD	GRDA	MG	trace propylitic altered granodiorite, no argillic alteration
47.00	49.09	2.09	GRD	GRDA	MG	moderate argillic altered granodiorite with a weak propylitic overprint
49.09	49.27	0.18	GRD	GRDM	MG	mineralized strongly argilliic and weakly phyllic altered granodiorite with quartz vein 3 cm wide with galena, pyrtie, and trace sphalerite.
49.27	51.50	2.23	GRD	GRDA	MG	medium grained, greenish grey weak to moderately proplylitic altered granodiorite.
51.50	53.75	2.25	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with rare oxidized fractures
53.75	55.00	1.25	GRD	GRDM	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..
55.00	56.00	1.00	GRD	GRDA	MG	meidum grained, weakly propylitic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
56.00	56.80	0.80	GRD	GRDM	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..
56.80	59.50	2.70	GRD	GRDA	MG	medium grained, salt and pepper textured granodiorite, relatively unaltered. Trace propylitic alteration
59.50	62.00	2.50	GRD	GRDM	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval.
62.00	62.67	0.67	GRD	GRDA	MG	medium grained medium grey to green weakly propylitic altered granodiorite.
62.67	63.50	0.83	GRD	GRDM	MG	medium to fine grained, silicified and moderateely propylitic altered granodiorite with disseminated pyrite throughout interval, coincidign with zones of more intense propylitic alteration.
63.50	63.65	0.15	VEN	VEIN	MG	medium grained quartz vein with semimassive pyrite, arsenopyrite, galena, and sphalerite. Trace chalcopyrite on fracture surfaces.
63.65	65.09	1.44	GRD	GRDM	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.
65.09	65.25	0.16	VEN	VEIN	MG	quartz carbonate vein trending 40 ATCA with dissemainted pyrite, trace arsenopyrite, trace galena, and one small 5 mm wide band of sphalerite.
65.25	65.52	0.27	GRD	GRDM	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.
65.52	65.57	0.05	VEN	VEIN	MG	quartz vein containing disseminated pyrite, trace galena and sphalerite.
65.57	66.46	0.89	GRD	GRDM	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.
66.46	66.54	0.08	VEN	VEIN	MG	quartz vein with dissemianted blebby sphalerite, galena, carbonate, and quartz. Trace pyrite.
66.54	67.57	1.03	GRD	GRDA	MG	meidium grained white to greenish grey moderate argillic altered grd with a weak propylitic overprint.
67.57	68.15	0.58	GRD	GRDM	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.
68.15	72.75	4.60	GRD	GRDA	MG	medium grained light white to greenish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint. Weak hairline carbonate stringers throughout interval are barren of sulphide
72.75	74.90	2.15	GRD	GRDA	MG	mediumg grained medium grey with patchy green weakly propylitic altered granodiorite
74.90	75.08	0.18	APL	DYK	FG	finegrained brownish grey aplite dyke trending 070 ATCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
75.08	77.60	2.52	GRD	GRDA	MG	medium grained light green to white moderately argillic altered granodiorite with a moderate propylitic overprint. Weak low angle (30-40 ATCA) 3-5 mm wide quartz carbonate veinlets are developed throghout interval, that have weak tourmaline alteration haloes that extend 3 mm oneither side.
77.60	78.70	1.10	GRD	GRDM	MG	strongly propylitic atered granodiorite with argillic alteration, and weak quartz carbonate stringers devleoped throughout, with weak disseminated pyrite throughout
78.70	79.69	0.99	GRD	GRDA	MG	moderate propylitic altered granodiorite overprinting weak argillic alteration.
79.69	79.86	0.17	GRD	GRDM	FG	zone of strong silicification and weak mineralization with many veinlets that trend 40 ATCA. Not a true quartzv ein, but a zone where there is a lot of intense silicification
79.86	81.80	1.94	GRD	GRDM	MG	medium grained, medium green to greenish grey moderate propylitic altered granodiorite with trace dissminated pyrite in hairline sub-mm stringer veinlets dispersed throughout intervals and along fracture surfaces
81.80	83.67	1.87	GRD	GRDA	MG	meidumgrained, weakly propylitic altered granodiorite with no visible sulphides.
83.67	83.72	0.05	APL	DYK	FG	fine grained dark greyish aplite dyke; fine-grained
83.72	87.25	3.53	GRD	GRDA	MG	medium grained medium grey, patchy green patchy trace propylitically altered granodiorite. Propylitic alteration is related to hairline quartz carbonate fractures which contain trace to no visible pyrite.
87.25	88.50	1.25	GRD	GRDM	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing five 1 cm wide quartz carbonate veinlets that host disseminated pyrite.
88.50	90.50	2.00	GRD	GRDA	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration, patchy.
90.50	91.15	0.65	GRD	GRDM	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing three 1 cm wide quartz carbonate veinlets that host disseminated pyrite.
91.15	92.00	0.85	GRD	GRDA	MG	medium grained trace prpoylitic altered granodiorite
92.00	92.93	0.93	GRD	GRDM	MG	Medium to finegrained strongly propylitic altered granodiorite with trace disseminated pyrite throughout interval, hosted in sub-mm hairline pyrite stringers that trend 70 ATCA
92.93	92.99	0.06	VEN	VEIN	MG	breciated siliceous quartz carbonate vein with trace disseminated pyrite. Vein is medium grey and white, with a sort of banded texture to it, with minor disseminated tourmaline above and below
92.99	94.90	1.91	GRD	GRDF	MG	medium grained, light white to light grey, oxidized, rubbly granodiorite. Likely related to faulting, this granodiorite has a lot of sporadic clay alteration on fractures. Weak argillic alteration overprinted by weak propylitic alteration
94.90	95.75	0.85	GRD	GRDA	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
95.75	96.50	0.75	GRD	GRDM	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing one 1 cm wide quartz carbonate veinlets that host disseminated pyrite.
96.50	97.85	1.35	GRD	GRDA	MG	medium grained buff white to medium grey, reddish brown argillic altered granodiorite with a weak propylitic overprint
97.85	98.10	0.25	GRD	GRDM	MG	two 3 cm wide quarz veins 50 ATCA that are barren of sulphides. Wea 1 mm tourmaline ateration envelopes on vein margin
98.10	98.50	0.40	GRD	GRDM	MG	moderately altered propylitic granodiorite with weak disseminated tourmaline
98.50	99.00	0.50	GRD	GRDM	MG	one 4 cm wide quartz vein barren of sulphide and one 2 cm wide brecciated quartz vein with trace sphalerite in this interval. Granodiorite is moderately propylitic altered granodiorite
99.00	100.40	1.40	GRD	GRDM	MG	rubbly fractured granodiorite with weak oxidation on fracture surfaces.
100.40	102.43	2.03	GRD	GRDM	MG	faulted clay gougy granodiorite, possibly related to faulting, patchy blebby tourmaline alteration and clay alteration pervasive here, likely related to fluid flow due to faulting.
102.43	102.63	0.20	CLY	GRDM	MG	faulted clay horizon in altered mineralized granodiorite, trending 30 ATCA
102.63	103.40	0.77	GRD	GRDM	MG	moderately altered propylitic granodiorite with weak disseminated tourmaline
103.40	104.74	1.34	GRD	GRDA	MG	medium grained medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint
104.74	104.94	0.20	GRD	GRDF	MG	medium grained tan brown to white faulted rubbly granodiorite, trending 70 ATCA, likely related to faulting.
104.94	106.36	1.42	GRD	GRDM	MG	moderately altered propylitic granodiorite with weak disseminated pyrite hosted in strginer veinlets and disseminated within groundmass
106.36	106.56	0.20	VEN	VEIN	MG	barren quartz vein trending 50 ATCA with minor to trace chlorite, weak clay alteration and trace disseminated finegrained tourmaline.
106.56	109.30	2.74	GRD	GRDA	MG	light green to greenish grey, weakly argillic altered granodiorite with a moderate propylitic overprint. Trace finegrained disseminated tourmaline throughout interval, with ultra trace dissaminated fine grained pyrite throughout interval, with higher proportions being related to tourmaline
109.30	111.60	2.30	GRD	GRDA	MG	medium grained medium grey granodiorite with patchy weak argillic alteration and traec patchy propylitic alteration.
111.60	112.07	0.47	GRD	VEIN	FG	faaulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).
112.07	113.32	1.25	GRD	GRDA	MG	medium grained, moderately propylitic altered granodiorite, with disseminated patchy tourmaline alteration and weak silicification.
113.32	113.70	0.38	VEN	VEIN	MG	faulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
113.70	118.00	4.30	GRD	GRDA	MG	medium grained, medium grey to greenish grey trace propylitic altered granodiorite with hairline carbonate fractures that are barren of sulfide
118.00	124.50	6.50	GRD	GRDM	MG	medium grained, moderate to strongly propylitic altered granodiorite with six 5-10 mm wide quartz carbonate veinlets that all trend 40 ATCA that have trace disseminated pyrite, smaller hairline frx in same orientation have trace pyrite, too
124.50	131.00	6.50	GRD	GRDA	MG	weak argillic alterd granodiorite with a weak propylitic overprint.
131.00	133.00	2.00	GRD	GRD	MG	unaltered granodioirite. Trace propylitic alteration near EOH.
133.00	134.42	1.42	GRD	GRD	MG	trace propylitic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.33	1.33	OVB	--	overburden							
1.33	5.00	3.67	GRD	MG	mixture of unaltered medium grey granodiorite and overbudren/clay/muc. Competent rock starts at 5 m in this hole. Before that, rock is a mixture between clay, granodiorite, mud, and rubble.							
						MD	GY					
5.00	5.85	0.85	GRD	MG	weakly propylitic altered and bleached granodiorite, tan white to light grey							
						MD	GY		BLE	1I		
						LT	GY		PRO	1I		
5.85	5.91	0.06	VEN	FG	one 13mm wide and one 10 mm wide quartz carbonate veinlet with disseminated pyrite hosted within vein and in section between two veinlets							
						MD	WH		SIL	2I	Py	0.5
						LT	GY		PRO	3I		
5.91	8.40	2.49	GRD	MG	moderate propylitic altered granodiorite with a weak to moderate argillic overprint. Weak sub-mm scale quartz carbonate stringer veinlets (3) occur in interval (non-significant). Weak oxidation on fracture surfaces							
						LT	BN					
						MD	GY		PRO	3I		
						LT	GN		ARG	2I		
8.40	11.35	2.95	QFP	MG	fine grained, buff white to tan brown with medium grey intervals, feldspar porphyryitic dyke with small carbonate stringer veinlets (sub-mm), weakly oxidized likely due to proximity to surface/faulting							
						LT	BN					
						LT	WH					
11.35	13.85	2.50	GRD	MG	medium grained light white to medium grey moderate argillically altered granodiorite, trace bleaching and oxidation							
						MD	GY					
						LT	BF		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
13.85	14.42	0.57	QFP	FG	fine grained medium greyish pink dyke with fine-grained feldspar grains, could be a quartz feldspar porphyry dyke, but fine-grained							
						MD	GY					
						LT	PK					
14.42	18.44	4.02	GRD	MG	medium grey to greenish grey, weakly argillic altered granodiorite with a weak to moderate propylitic overprint. Weak mm-scale quartz carbonate veinlets occur from 17.30 to 18.29 as you approach a clay altered fault gouge hosting a small quartz crabonate vein.							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I		
18.44	18.47	0.03	VEN	FG	clay altered faulted interval hosting a quartz carbonate vein with disseminated pyrite, and a fine-grained black mineral on the lower contact							
									CLY	3I		
						MD	BN		SIL	3I	Py	1
18.47	19.29	0.82	GRD	MG	moderate argillic altered granodiorite with a moderate propylitic overprint							
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
19.29	19.36	0.07	VEN	FG	quartz carbonate breccia vein with angular carbonate clasts, lightly silicified with a siliceous halo extending 3 cm around this zone. Zone contains disseminated pyrite							
						MD	GY		PRO	2I	Py	0.5
						LT	WH		SIL	2I		
19.36	19.60	0.24	GRD	MG	weakly argillic and propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY		ARG	1I		
19.60	25.45	5.85	QFP	MG	Variably altered, feldspar porphyritic dyke, medium grey to greenish grey with white angular feldspar grains. Occurring sporadically throughout dyke are small quartz carbonate veinlets that are barren of sulphides.							
						MD	GN					
						MD	GY					
25.45	25.72	0.27	MAF	FG	fine grained dark grey to black mafic dyke; magnetic. Fine grained hornblende in groundmass							
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.72	27.00	1.28	GRD	MG	heavily clay altered and oxidized, bleached granodiorite. Medium brown to brownish grey							
						MD	GY		CLY	3I		
									OXI	2I		
						MD	BN		BLE	2I		
									ARG	2I		
27.00	32.00	5.00	GRD	MG	medium grey to greenish grey, patchily oxide stained, fractured granodiorite with weak propylitic alteration and rare quartz veining (sub-mm) running 30 ATCA with trace dissemianted pyrite							
						MD	GY		PRO	1I	Py	0.1
									BLE	2I		
						MD	BN		OXI	2I		
32.00	32.38	0.38	GRD	MG	weakly pitted, oxidized, brown, fractured granodiorite with sericite alteration and clay alteration along fractures. Potential for disseminated sulphides within vugs, not identifiable from fractured fragments, but potentially there due to proximity to vein							
						MD	BF		BLE	2I		
									CLY	3I		
									SER	2I		
									OXI	2I		
32.38	32.63	0.25	VEN	FG	quartz carbonate breccia vein with galena, sphalerite, pyrite +- arsenopyrite. Oxidized and pitted, vuggy texture within vein. Above and below vein is heavily oxidized grd.							
											Gn	1
						LT	WH				Sp	2
						MD	GY		SIL	4I	Py	0.5
32.63	34.16	1.53	GRD	MG	medium grained light brown to grey, moderately propylitic altered granodiorite with weak bleaching and oxidation.							
						LT	BN					
						MD	GY					
34.16	34.86	0.70	GRD	MG	medium grained strongly propylitic altered granodiorite with weak 2mm wide quartz carbonate veinlets and disseminated pyrite within them and in surrounding host rock.							
						MD	BN		PRO	3I	Py	0.5
						MD	GY		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.86	39.90	5.04	GRD	MG	medium grained, medium grey to greenish grey, patchy brown, weakly argillic altered with a weak propylitic overprint granodiorite. Oxidation is confined to fracture surfaces, and some fracture surfaces host trace subhedral pryite (rare, only one in interval observed). Stronger argillic alteration is confined to fractures as well.							
						MD	GN					
						MD	GY					
39.90	40.50	0.60	GRD	MG	medium grained moderately propylitic altered granodiorite with disseminated tourmaline blebs. Weak quartz veining devleoped here (mm-scale) with weak tourmaline blebs developed in quartz vein							
						MD	GN					
						MD	GY		PRO	3I	To	1
40.50	43.00	2.50	GRD	MG	medium grained unaltered granodiorite. Weak argillic alteration only related to fractures. Medium grey							
						MD	GY		ARG	1I		
43.00	49.09	6.09	GRD	MG	medium grained, medium grey to greenish grey, patchy whiteish grey, patch brown, weak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint. Alternating intervals where ARG>PRO and where PRO>ARG for alteration.							
						LT	BF		ARG	2I		
						MD	GY					
						LT	GN		PRO	2I		
49.09	49.27	0.18	GRD	MG	mineralized strongly argilliic and weakly phyllic altered granodiorite with quartz vein 3 cm wide with galena, pyrtie, and trace sphalerite.							
						LT	GY		ARG	4I	Sp	0.1
						LT	WH		PHC	2I	Py	0.5
											Gn	0.1
49.27	51.50	2.23	GRD	MG	medium grained, greenish grey weak to moderately proplylitic altered granodiorite.							
						MD	GY		PRO	2I		
						LT	GN					
51.50	53.75	2.25	GRD	MG	medium grained medium grey unaltered granodiorite with rare oxidized fractures							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
53.75	55.00	1.25	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
55.00	56.00	1.00	GRD	MG	meidum grained, weakly propylitic altered granodiorite							
						LT	GN					
						MD	GY					
56.00	56.80	0.80	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval..							
						MD	GN					
						MD	GY		PRO	3I	Py	0.1
56.80	59.50	2.70	GRD	MG	medium grained, salt and pepper textured granodiorite, relatively unaltered. Trace propylitic alteration							
						MD	GY		PRO	1I		
59.50	62.00	2.50	GRD	MG	medium grained moderately propylitic altered granodiorite with weak mm-scale pyrite bearing quartz veins developed along fracture surfaces and disseminated throughout interval.							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5
62.00	62.67	0.67	GRD	MG	medium grained medium grey to green weakly propylitic altered granodiorite.							
						MD	GN		PRO	1I		
						MD	GY					
62.67	63.50	0.83	GRD	MG	medium to fine grained, silicified and moderateely propylitic altered granodiorite with disseminated pyrite throughout interval, coincidign with zones of more intense propylitic alteration.							
						MD	GY		PRO	4I		
						MD	GN		SIL	2I	Py	0.5
63.50	63.65	0.15	VEN	MG	medium grained quartz vein with semimassive pyrite, arsenopyrite, galena, and sphalerite. Trace chalcopyrite on fracture surfaces.							
											Ca	0.5
											As	1
						MD	GY				Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	WH		SIL	5I	Gn	1
											Py	5
63.65	65.09	1.44	GRD	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	4I	Py	1
65.09	65.25	0.16	VEN	MG	quartz carbonate vein trending 40 ATCA with dissemainted pyrite, trace arsenopyrite, trace galena, and one small 5 mm wide band of sphalerite.							
						LT	GY		SIL	4I	As	0.5
											Sp	0.75
						LT	GN				Py	1.5
						MD	WH				Gn	0.5
65.25	65.52	0.27	GRD	MG	medium grained greenish grey strongly propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	3I	Py	0.5
65.52	65.57	0.05	VEN	MG	quartz vein containing disseminated pyrite, trace galena and sphalerite.							
											Gn	1
						LT	GY		SIL	4I	Py	3
						MD	WH				Sp	1
65.57	66.46	0.89	GRD	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
66.46	66.54	0.08	VEN	MG	quartz vein with dissemianted blebby sphalerite, galena, carbonate, and quartz. Trace pyrite.							
						MD	BN				Py	0.5
											Gn	0.5
						LT	WH		SIL	3I	Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.54	67.57	1.03	GRD	MG	meidium grained white to greenish grey moderate argillic altered grd with a weak propylitic overprint.							
						MD	GY		ARG	3I		
						MD	GN		PRO	2I		
						LT	WH					
67.57	68.15	0.58	GRD	MG	medium grained greenish grey moderately propylitic altered granodiorite with disseminated pyrite throughout entire interval. Weak sub-mm hairline stringers sporadic throughout contain disseminated pyrite.							
						MD	GY		PRO	3I	Py	1
						MD	GN					
68.15	72.75	4.60	GRD	MG	medium grained light white to greenish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint. Weak hairline carbonate stringers throughout interval are barren of sulphide							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	3I		
72.75	74.90	2.15	GRD	MG	mediumg grained medium grey with patchy green weakly propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	1I		
74.90	75.08	0.18	APL	FG	finegrained brownish grey aplite dyke trending 070 ATCA							
						MD	BN					
						MD	GY					
75.08	77.60	2.52	GRD	MG	medium grained light green to white moderately argillic altered granodiorite with a moderate propylitic overprint. Weak low angle (30-40 ATCA) 3-5 mm wide quartz carbonate veinlets are developed throghout interval, that have weak tourmaline alteration haloes that extend 3 mm oneither side.							
						MD	GY		ARG	3I		
						LT	WH					
						LT	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.60	78.70	1.10	GRD	MG	strongly propylitic atered granodiorite with argillic alteration, and weak quartz carbonate stringers devleoped throughout, with weak disseminated pyrite throughout							
						MD	GY					
						LT	WH					
						LT	GN					
78.70	79.69	0.99	GRD	MG	moderate propylitic altered granodiorite overprinting weak argillic alteration.							
						MD	GY					
						MD	GN		PRO	3I		
						LT	WH		ARG	2I		
79.69	79.86	0.17	GRD	FG	zone of strong silicification and weak mineralization with many veinlets that trend 40 ATCA. Not a true quartzv ein, but a zone where there is a lot of intense silicification							
						LT	WH		CLY	2I	Py	1
						MD	GY		SIL	3I		
79.86	81.80	1.94	GRD	MG	medium grained, medium green to greenish grey moderate propylitic altered granodiorite with trace dissminated pyrite in hairline sub-mm stringer veinlets dispersed throughout intervals and along fracture surfaces							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
81.80	83.67	1.87	GRD	MG	meidumgrained, weakly propylitic altered granodiorite with no visible sulphides.							
						MD	GY		PRO	1I		
						MD	GN					
83.67	83.72	0.05	APL	FG	fine grained dark greyish aplite dyke; fine-grained							
						DK	GY					
83.72	87.25	3.53	GRD	MG	medium grained medium grey, patchy green patchy trace propylitically altered granodiorite. Propylitic alteration is related to hairline quartz carbonate fractures which contain trace to no visible pyrite.							
						MD	GN		PRO	1I	Py	0.1
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
87.25	88.50	1.25	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing five 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GY		PRO	3I	Py	1
						MD	GN					
88.50	90.50	2.00	GRD	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration, patchy.							
						MD	GY		PRO	1I		
						MD	GN					
90.50	91.15	0.65	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing three 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GY		PRO	4I	Py	0.5
						MD	GN					
91.15	92.00	0.85	GRD	MG	medium grained trace prpoylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	1I		
92.00	92.93	0.93	GRD	MG	Medium to finegrained strongly propylitic altered granodiorite with trace disseminated pyrite throughout interval, hosted in sub-mm hairline pyrite stringers that trend 70 ATCA							
						MD	GN		PRO	4I	Py	0.5
						LT	GY		SIL	1I		
92.93	92.99	0.06	VEN	MG	breciated siliceous quartz carbonate vein with trace disseminated pyrite. Vein is medium grey and white, with a sort of banded texture to it, with minor disseminated tourmaline above and below							
						MD	GY				Py	0.5
						MD	WH		SIL	3I	To	0.5
92.99	94.90	1.91	GRD	MG	medium grained, light white to light grey, oxidized, rubbly granodiorite. Likely related to faulting, this granodiorite has a lot of sporadic clay alteration on fractures. Weak argillic alteration overprinted by weak propylitic alteration							
						LT	WH		CLY	3I		
						MD	GY		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		PRO	1I		
94.90	95.75	0.85	GRD	MG	medium grained medium grey to greenish grey granodiorite with weak propylitic alteration							
						MD	GY					
						MD	GN					
95.75	96.50	0.75	GRD	MG	medium grained medium grey to greenish grey granodiorite with moderate propylitic alteration, containing one 1 cm wide quartz carbonate veinlets that host disseminated pyrite.							
						MD	GN					
						MD	GY		PRO	3I	Py	0.25
96.50	97.85	1.35	GRD	MG	medium grained buff white to medium grey, reddish brown argillic altered granodiorite with a weak propylitic overprint							
						LT	WH					
						MD	GN		PRO	1I		
						LT	GY		ARG	3I		
97.85	103.40	5.55	GRD	MG	medium grained, light green to medium grenish grey, moderate to srtongly propylitic altered granodiorite with patch blebs of dissaminated tourmaline, 10 quartz veins ranginf rom 1 cm to 3 cm wide (all trending ~30-50 TCA) with disseminated pyrite. Some disseminated pyrite hosted in hairline frx thorughout interval as well. Some sections are clay gouged and could be related to faulting.							
						LT	GN		CLY	3I	Py	0.75
						MD	GN					
						MD	GY		PRO	4I		
103.40	104.74	1.34	GRD	MG	medium grained medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		ARG	3I		
						LT	WH		PRO	2I		
						MD	GY					
104.74	104.94	0.20	GRD	MG	medium grained tan brown to white faulted rubbly granodiorite, trending 70 ATCA, likely related to faulting.							
						LT	WH					
						LT	BN		CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
104.94	106.36	1.42	GRD	MG	moderately altered propylitic granodiorite with weak disseminated pyrite hosted in strginer veinlets and disseminated within groundmass							
106.36	106.56	0.20	VEN	MG	barren quartz vein trending 50 ATCA with minor to trace chlorite, weak clay alteration and trace disseminated finegrained tourmaline.							
						MD	WH					
106.56	109.30	2.74	GRD	MG	light green to greenish grey, weakly argillic altered granodiorite with a moderate propylitic overprint. Trace finegrained disseminated tourmaline throughout interval, with ultra trace dissaminated fine grained pyrite throughout interval, with higher proportions being related to tourmaline							
						MD	GY					
						LT	GY		PRO	2I	Py	0.1
						LT	GN		ARG	2I		
109.30	111.60	2.30	GRD	MG	medium grained medium grey granodiorite with patchy weak argillic alteration and traec patchy propylitic alteration.							
						MD	GN		ARG	1I		
						MD	GY		PRO	1I		
111.60	112.07	0.47	GRD	FG	faulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).							
						MD	GN		SIL	4I	Py	0.5
						MD	GY		PRO	3I		
						MD	WH					
112.07	113.32	1.25	GRD	MG	medium grained, moderately propylitic altered granodiorite, with disseminated patchy tourmaline alteration and weak silicification.							
						LT	WH					
						MD	GY					
						MD	GN		PRO	2I		
113.32	113.70	0.38	GRD	MG	faulted, rubbly granodiorite with a sharp upper and lower contact trending 20 ATCA. Faulted, silcified granodiorite with 60% quartz and 40% grd. Faulted rubbly fragments contain trace visible sulfides (pyrite).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
113.70	118.00	4.30	GRD	MG	medium grained, medium grey to greenish grey trace propylitic altered granodiorite with hairline carbonate fractures that are barren of sulfide							
						MD	GY		PRO	1I		
118.00	124.50	6.50	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with series of 5-10 mm wide quartz carbonate veinlets that all trend 40 ATCA that have trace disseminated pyrite, smaller hairline frx in same orientation have trace pyrite, too							
						MD	GY		PRO	3I		
						MD	GN		ARG	1I	Py	0.5
124.50	131.00	6.50	GRD	MG	weak argillic alterd granodiorite with a weak propylitic overprint. Trae disseminated blebby tourmaline							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
131.00	134.42	3.42	GRD	MG	unaltered granodioirite. Trace propylitic alteration near EOH.							
						MD	GY					

KL -19-441

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.08	5	0.00	0	--	2H	5W	
1.52	3.05	1.53	0.8	52	0.18	12	--	2H	4W	
3.05	4.57	1.52	1.04	68	0.12	8	--	2H	4W	
4.57	6.10	1.53	1.4	92	0.92	60	--	3H	2W	
6.10	7.62	1.52	1.5	99	1.01	66	--	3H	2W	
7.62	9.14	1.52	1.43	94	0.64	42	--	3H	2W	
9.14	10.67	1.53	1.53	100	1.22	80	--	3H	2W	
10.67	13.72	3.05	1.39	46	1.26	41	--	3H	2W	
13.72	15.24	1.52	1.42	93	1.15	76	--	3H	2W	
15.24	16.76	1.52	1.41	93	1.32	87	--	3H	2W	
16.76	18.29	1.53	1.5	98	1.14	75	--	3H	2W	
18.29	21.34	3.05	3.05	100	2.68	88	--	3H	2W	
21.34	24.38	3.04	2.98	98	2.58	85	--	3H	2W	
24.38	25.91	1.53	1.44	94	1.28	84	--	3H	2W	
25.91	28.96	3.05	2.89	95	1.91	63	--	3H	2W	
28.96	32.00	3.04	3	99	0.83	27	--	3H	2W	
32.00	35.05	3.05	2.78	91	0.90	30	--	3H	2W	
35.05	38.10	3.05	2.77	91	1.25	41	--	3H	2W	
38.10	39.62	1.52	1.52	100	0.80	53	--	3H	2W	
39.62	41.15	1.53	1.39	91	0.52	34	--	3H	1W	
41.15	42.67	1.52	1.33	88	0.52	34	--	3H	1W	
42.67	44.20	1.53	1.53	100	0.78	51	--	3H	1W	
44.20	47.24	3.04	2.79	92	1.62	53	--	3H	1W	
47.24	50.29	3.05	2.9	95	2.16	71	--	3H	1W	
50.29	53.34	3.05	2.73	90	1.92	63	--	4H	1W	
53.34	56.39	3.05	3.02	99	1.99	65	--	4H	1W	
56.39	59.44	3.05	2.93	96	2.39	78	--	4H	1W	
59.44	62.48	3.04	2.98	98	2.90	95	--	4H	1W	
62.48	65.53	3.05	3.05	100	2.21	72	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
65.53	68.58	3.05	2.96	97	2.38	78	--	3H	1W	
68.58	71.63	3.05	3.02	99	2.88	94	--	3H	1W	
71.63	74.68	3.05	2.92	96	2.48	81	--	3H	1W	
74.68	77.72	3.04	2.97	98	2.23	73	--	3H	1W	
77.72	80.77	3.05	2.98	98	2.70	89	--	3H	1W	
80.77	83.82	3.05	3.05	100	2.75	90	--	4H	1W	
83.82	86.87	3.05	3.04	100	3.04	100	--	4H	1W	
86.87	89.92	3.05	3.04	100	2.98	98	--	4H	1W	
89.92	92.96	3.04	3.04	100	3.00	99	--	4H	1W	
92.96	96.01	3.05	2.83	93	1.37	45	--	3H	1W	
96.01	99.06	3.05	2.9	95	2.71	89	--	3H	1W	
99.06	102.11	3.05	2.67	88	1.06	35	--	3H	1W	
102.11	105.16	3.05	3.01	99	1.63	53	--	3H	1W	
105.16	108.20	3.04	2.91	96	2.30	76	--	3H	1W	
108.20	111.25	3.05	2.98	98	2.58	85	--	4H	1W	
111.25	114.30	3.05	2.91	95	1.58	52	--	3H	1W	
114.30	117.35	3.05	2.97	97	2.51	82	--	3H	1W	
117.35	120.40	3.05	3.05	100	3.00	98	--	4H	1W	
120.40	123.44	3.04	2.96	97	2.62	86	--	4H	1W	20 cm TAC 60, 2, 2, 1A, 1mm
123.44	126.49	3.05	2.99	98	2.22	73	--	3H	1W	30cm, TAC 70, 2,2, 0.5mm & 40cm, TAC 30, 3,3, 1mm CA
126.49	128.02	1.53	1.47	96	1.17	76	--	3H	1W	20cm, TAC 30, 3, 2, 1a, CA, 1mm
128.02	131.06	3.04	2.89	95	2.44	80	--	4H	1W	25cm, TAC 40, 3,3,1a, OX, 1mm & 15cm, TAC 70, 2,2,1a, CA
131.06	134.42	3.36	3.24	96	2.82	84	--	4H	1W	15cm, TAC 20, 2,2,1a,CA, 1mm & 25cm, TAC 70, 2,2,1a,CH,1mm

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0	GRD	
3	0.33	GRD	
4	0	GRD	
5	6.763	GRD	
5	6.763	GRD	
6	0.284	GRD	
7	4.649	GRD	
8	0.389	GRD	
9	0.259	QFP	
10	0.234	QFP	
11	0.299	QFP	
12	0.367	GRD	
13	0.7	GRD	
14	0.386	QFP	
15	0.262	GRD	
16	0.182	GRD	
17	0.469	GRD	
18	0.399	GRD	
19	1.563	GRD	
20	0.425	QFP	
21	1.706	QFP	
22	0.918	QFP	
23	0.593	QFP	
24	2.183	QFP	
25	0.327	QFP	
26	0.529	GRD	
27	1.078	GRD	
27	1.078	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.232	GRD	
29	0.199	GRD	
30	0	GRD	
31	0.165	GRD	
32	0.114	GRD	
32	0.114	GRD	
33	0.313	GRD	
34	0.361	GRD	
35	1.24	GRD	
36	1.298	GRD	
37	0.53	GRD	
38	0.718	GRD	
39	0.732	GRD	
40	0.804	GRD	
41	0.381	GRD	
42	12.26	GRD	
43	7.611	GRD	
43	7.611	GRD	
44	0.371	GRD	
45	3.486	GRD	
46	12.3	GRD	
47	9.926	GRD	
48	0.386	GRD	
49	0.34	GRD	
50	0.401	GRD	
51	0.714	GRD	
52	14.6	GRD	
53	12.64	GRD	
54	2.839	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	8.309	GRD	
55	8.309	GRD	
56	1.024	GRD	
56	1.024	GRD	
57	26.624	GRD	
58	23.98	GRD	
59	19.59	GRD	
60	22.49	GRD	
61	2.188	GRD	
62	0.173	GRD	
62	0.173	GRD	
63	0.232	GRD	
64	0.237	GRD	
65	0.224	GRD	
66	0.539	GRD	
67	0.27	GRD	
68	0.266	GRD	
69	0.757	GRD	
70	0.915	GRD	
71	0.444	GRD	
72	0.439	GRD	
73	15.84	GRD	
74	11.14	GRD	
75	0.284	APL	
76	0.367	GRD	
77	0.688	GRD	
78	0.962	GRD	
79	0.21	GRD	
80	0.329	GRD	
81	0.436	GRD	
82	6.779	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
83	0.888	GRD	
84	14.11	GRD	
85	19.07	GRD	
86	16.23	GRD	
87	0.846	GRD	
88	0.588	GRD	
89	14.55	GRD	
90	2.266	GRD	
91	0.408	GRD	
92	3.883	GRD	
92	3.883	GRD	
93	0.256	GRD	
94	0.451	GRD	
95	8.589	GRD	
96	4.109	GRD	
97	0.807	GRD	
98	0.14	GRD	
99	0.615	GRD	
100	0.2	GRD	
101	0.405	GRD	
102	0.441	GRD	
103	0.281	GRD	
104	1.248	GRD	
105	0.351	GRD	
106	0.388	GRD	
107	8.337	GRD	
108	0.323	GRD	
109	1.067	GRD	
110	19.02	GRD	
111	13.34	GRD	
112	0.235	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
113	0.463	GRD	
114	0.822	GRD	
115	1.077	GRD	
116	17.1	GRD	
117	18.38	GRD	
118	1.243	GRD	
118	1.243	GRD	
119	23.85	GRD	
120	27	GRD	
121	0.68	GRD	
122	0.053	GRD	
123	0.197	GRD	
124	0.198	GRD	
125	0.357	GRD	
126	0.514	GRD	
127	0.183	GRD	
128	0.539	GRD	
129	2.347	GRD	
130	0.277	GRD	
131	8.753	GRD	
131	8.753	GRD	
132	15.61	GRD	
133	0.575	GRD	
134	0.397	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-441

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W604445	☐	19-027	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604326	☐	19-023	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604463	☐	19-027	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604441	☐	19-027	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604423	☐	19-026	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604408	☐	19-026	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604375	☐	19-024	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604363	☐	19-024	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604357	☐	19-024	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604491	☐	19-028	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604343	☐	19-023	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604333	☐	19-023	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604395	☐	19-026	Low grade		☑	☐	☐
1.33	2.83	1.50	OVB, GRD	0.80	53	W604315	☐	19-023	low grade		☐	☐	☐
2.83	4.33	1.50	GRD	1.30	87	W604316	☐	19-023	low grade		☐	☐	☐
4.33	5.83	1.50	GRD	1.40	93	W604317	☐	19-023	low grade		☐	☐	☐
5.83	6.42	0.59	GRD	0.57	97	W604318	☐	19-023	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
6.42	7.35	0.93	GRD	0.80	86	W604319	☐	19-023	low grade		☐	☐	☐
6.42	7.35	0.93	GRD	0.80	86	W604320	☐	19-023	low grade		☐	☑	☐
7.35	7.78	0.43	GRD	0.43	100	W604321	☐	19-023	low grade		☐	☐	☐
7.78	8.42	0.64	GRD	0.57	89	W604322	☐	19-023	low grade		☐	☐	☐
8.42	8.89	0.47	QFP	0.47	100	W604323	☐	19-023	low grade		☐	☐	☐
8.89	9.92	1.03	QFP	1.00	97	W604324	☐	19-023	low grade		☐	☐	☐
9.92	11.30	1.38	QFP	1.30	94	W604325	☐	19-023	low grade		☐	☐	☐
11.30	11.80	0.50	QFP	0.50	100	W604327	☐	19-023	low grade		☐	☐	☐
11.80	12.30	0.50	GRD	0.50	100	W604328	☐	19-023	low grade		☐	☐	☐
12.30	13.00	0.70	GRD	0.70	100	W604329	☐	19-023	low grade		☐	☐	☐
13.00	13.86	0.86	GRD	0.85	99	W604330	☐	19-023	low grade		☐	☐	☐
13.86	14.43	0.57	QFP	0.54	95	W604331	☐	19-023	low grade		☐	☐	☐
14.43	15.41	0.98	GRD	0.95	97	W604332	☐	19-023	low grade		☐	☐	☐
15.41	15.93	0.52	GRD	0.50	96	W604334	☐	19-023	low grade		☐	☐	☐
15.93	17.43	1.50	GRD	1.50	100	W604335	☐	19-023	low grade		☐	☐	☐
17.43	18.29	0.86	GRD	0.83	97	W604336	☐	19-023	low grade		☐	☐	☐
18.29	18.59	0.30	GRD	0.30	100	W604337	☐	19-023	low grade		☐	☐	☐
18.59	19.24	0.65	GRD	0.55	85	W604338	☐	19-023	low grade		☐	☐	☐
19.24	19.65	0.41	GRD	0.40	98	W604339	☐	19-023	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
19.65	20.15	0.50	QFP	0.50	100	W604340	☐	19-023	low grade		☐	☐	☐
20.15	20.65	0.50	QFP	0.50	100	W604341	☐	19-023	low grade		☐	☐	☐
20.65	21.34	0.69	QFP	0.69	100	W604342	☐	19-023	low grade		☐	☐	☐
21.34	22.00	0.66	QFP	0.66	100	W604344	☐	19-023	low grade		☐	☐	☐
22.00	22.97	0.97	QFP	0.95	98	W604345	☐	19-023	low grade		☐	☐	☐
22.00	22.97	0.97	QFP	0.95	98	W604346	☐	19-023	low grade		☐	☐	☑
22.97	23.86	0.89	QFP	0.79	89	W604347	☐	19-023	low grade		☐	☐	☐
23.86	24.75	0.89	QFP	0.89	100	W604348	☐	19-023	low grade		☐	☐	☐
24.75	25.10	0.35	QFP	0.35	100	W604349	☐	19-023	low grade		☐	☐	☐
25.10	25.69	0.59	QFP	0.58	98	W604350	☐	19-024	low grade		☐	☐	☐
25.69	27.00	1.31	MAF	1.30	99	W604351	☐	19-024	low grade		☐	☐	☐
27.00	27.92	0.92	GRD, GRD	0.92	100	W604352	☐	19-024	low grade		☐	☐	☐
27.92	28.25	0.33	GRD	0.33	100	W604353	☐	19-024	low grade		☐	☐	☐
28.25	29.42	1.17	GRD	1.15	98	W604354	☐	19-024	low grade		☐	☐	☐
29.42	30.48	1.06	GRD	1.05	99	W604355	☐	19-024	low grade		☐	☐	☐
30.48	31.82	1.34	GRD	1.30	97	W604356	☐	19-024	low grade		☐	☐	☐
31.82	32.30	0.48	GRD	0.45	94	W604358	☐	19-024	low grade		☐	☐	☐
32.30	32.64	0.34	GRD	0.32	94	W599157	☐	19-006	High grade		☐	☐	☐
32.64	33.47	0.83	GRD	0.83	100	W604359	☐	19-024	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
33.47	34.47	1.00	GRD	1.00	100	W604360	☐	19-024	low grade		☐	☐	☐
34.47	34.83	0.36	GRD	0.35	97	W604361	☐	19-024	low grade		☐	☐	☐
34.83	36.00	1.17	GRD	1.15	98	W604362	☐	19-024	low grade		☐	☐	☐
36.00	36.50	0.50	GRD	0.49	98	W604364	☐	19-024	low grade		☐	☐	☐
36.50	38.00	1.50	GRD	1.48	99	W604365	☐	19-024	low grade		☐	☐	☐
38.00	39.00	1.00	GRD	1.00	100	W604366	☐	19-024	low grade		☐	☐	☐
39.00	39.92	0.92	GRD	0.92	100	W604367	☐	19-024	low grade		☐	☐	☐
39.92	40.45	0.53	GRD	0.51	96	W604368	☐	19-024	low grade		☐	☐	☐
39.92	40.45	0.53	GRD	0.51	96	W604369	☐	19-024	low grade		☐	☑	☐
40.45	41.95	1.50	GRD	1.50	100	W604370	☐	19-024	low grade		☐	☐	☐
41.95	43.45	1.50	GRD	1.50	100	W604371	☐	19-024	low grade		☐	☐	☐
43.45	44.87	1.42	GRD	1.40	99	W604372	☐	19-024	low grade		☐	☐	☐
44.87	46.00	1.13	GRD	1.13	100	W604373	☐	19-024	low grade		☐	☐	☐
46.00	47.50	1.50	GRD	1.50	100	W604374	☐	19-024	low grade		☐	☐	☐
47.50	48.25	0.75	GRD	0.74	99	W604376	☐	19-024	low grade		☐	☐	☐
48.25	49.00	0.75	GRD	0.75	100	W604377	☐	19-024	low grade		☐	☐	☐
49.00	49.30	0.30	GRD	0.29	97	W604378	☐	19-024	low grade		☐	☐	☐
49.30	50.30	1.00	GRD	1.00	100	W604379	☐	19-024	low grade		☐	☐	☐
50.30	51.80	1.50	GRD	1.50	100	W604380	☐	19-024	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
50.30	51.80	1.50	GRD	1.50	100	W604381	☐	19-024	low grade		☐	☐	☑
51.80	53.20	1.40	GRD	1.40	100	W604382	☐	19-024	low grade		☐	☐	☐
53.20	54.50	1.30	GRD	1.28	98	W604383	☐	19-024	low grade		☐	☐	☐
54.50	55.00	0.50	GRD	0.50	100	W604384	☐	19-024	low grade		☐	☐	☐
55.00	56.00	1.00	GRD, GRD	1.00	100	W604385	☐	19-024	low grade		☐	☐	☐
56.00	57.00	1.00	GRD, GRD	1.00	100	W604386	☐	19-024	low grade		☐	☐	☐
57.00	58.00	1.00	GRD	1.00	100	W604387	☐	19-024	low grade		☐	☐	☐
58.00	59.50	1.50	GRD	1.50	100	W604388	☐	19-024	low grade		☐	☐	☐
59.50	60.50	1.00	GRD, GRD	1.00	100	W604389	☐	19-024	low grade		☐	☐	☐
60.50	61.45	0.95	GRD	0.95	100	W604390	☐	19-026	Low grade		☐	☐	☐
61.45	62.25	0.80	GRD	0.80	100	W604391	☐	19-026	Low grade		☐	☐	☐
62.25	62.68	0.43	GRD	0.42	98	W604392	☐	19-026	Low grade		☐	☐	☐
62.68	63.29	0.61	GRD	0.61	100	W604393	☐	19-026	Low grade		☐	☐	☐
63.29	63.66	0.37	GRD	0.30	81	W599158	☐	19-006	High grade		☐	☐	☐
63.66	64.30	0.64	GRD	0.62	97	W604394	☐	19-026	Low grade		☐	☐	☐
64.30	64.69	0.39	GRD	0.39	100	W604396	☐	19-026	Low grade		☐	☐	☐
64.69	65.09	0.40	GRD	0.40	100	W604397	☐	19-026	Low grade		☐	☐	☐
65.09	65.57	0.48	VEN, GRD	0.48	100	W604398	☐	19-026	Low grade		☐	☐	☐
65.57	66.28	0.71	VEN, GRD	0.70	99	W604399	☐	19-026	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
66.28	66.58	0.30	GRD	0.30	100	W604400	☐	19-026	Low grade		☐	☐	☐
66.58	67.58	1.00	GRD	1.00	100	W604401	☐	19-026	Low grade		☐	☐	☐
66.58	67.58	1.00	GRD	1.00	100	W604402	☐	19-026	Low grade		☐	☑	☐
67.58	68.15	0.57	GRD	0.57	100	W604403	☐	19-026	Low grade		☐	☐	☐
68.15	69.65	1.50	GRD, GRD	1.50	100	W604404	☐	19-026	Low grade		☐	☐	☐
69.65	70.12	0.47	GRD	0.45	96	W604405	☐	19-026	Low grade		☐	☐	☐
70.12	70.42	0.30	GRD	0.30	100	W604406	☐	19-026	Low grade		☐	☐	☐
70.42	71.50	1.08	GRD	1.08	100	W604407	☐	19-026	Low grade		☐	☐	☐
71.50	73.00	1.50	GRD	1.50	100	W604409	☐	19-026	Low grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.50	100	W604410	☐	19-026	Low grade		☐	☐	☐
74.50	75.66	1.16	GRD	1.15	99	W604411	☐	19-026	Low grade		☐	☐	☐
75.66	76.50	0.84	GRD	0.84	100	W604412	☐	19-026	Low grade		☐	☐	☐
76.50	77.60	1.10	GRD	1.10	100	W604413	☐	19-026	Low grade		☐	☐	☐
76.50	77.60	1.10	GRD	1.10	100	W604414	☐	19-026	Low grade		☐	☐	☑
77.60	78.15	0.55	GRD, GRD	0.55	100	W604415	☐	19-026	Low grade		☐	☐	☐
78.15	78.72	0.57	GRD	0.57	100	W604416	☐	19-026	Low grade		☐	☐	☐
78.72	79.41	0.69	GRD	0.68	99	W604417	☐	19-026	Low grade		☐	☐	☐
79.41	79.88	0.47	GRD	0.47	100	W604418	☐	19-026	Low grade		☐	☐	☐
79.88	80.60	0.72	GRD	0.72	100	W604419	☐	19-026	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
80.60	81.20	0.60	GRD	0.60	100	W604420	☐	19-026	Low grade		☐	☐	☐
81.20	81.57	0.37	GRD	0.37	100	W604421	☐	19-026	Low grade		☐	☐	☐
81.57	83.00	1.43	GRD	1.40	98	W604422	☐	19-026	Low grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.50	100	W604424	☐	19-026	Low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	W604425	☐	19-026	Low grade		☐	☐	☐
86.00	87.42	1.42	GRD	1.42	100	W604426	☐	19-026	Low grade		☐	☐	☐
87.42	87.90	0.48	GRD	0.48	100	W604427	☐	19-026	Low grade		☐	☐	☐
87.90	88.42	0.52	GRD	0.50	96	W604428	☐	19-026	Low grade		☐	☐	☐
88.42	89.18	0.76	GRD	0.76	100	W604429	☐	19-026	Low grade		☐	☐	☐
89.18	89.50	0.32	GRD	0.32	100	W604430	☐	19-027	low grade		☐	☐	☐
89.50	90.50	1.00	GRD	1.00	100	W604431	☐	19-027	low grade		☐	☐	☐
90.50	91.03	0.53	GRD, GRD	0.53	100	W604432	☐	19-027	low grade		☐	☐	☐
91.03	92.15	1.12	GRD	1.10	98	W604433	☐	19-027	low grade		☐	☐	☐
92.15	92.89	0.74	GRD	0.67	91	W604434	☐	19-027	low grade		☐	☐	☐
92.15	92.89	0.74	GRD	0.67	91	W604435	☐	19-027	low grade		☐	☐	☑
92.89	93.20	0.31	GRD	0.30	97	W604436	☐	19-027	low grade		☐	☐	☐
93.20	94.00	0.80	GRD	0.70	88	W604437	☐	19-027	low grade		☐	☐	☐
94.00	94.85	0.85	GRD	0.82	96	W604438	☐	19-027	low grade		☐	☐	☐
94.85	95.70	0.85	GRD	0.85	100	W604439	☐	19-027	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
95.70	96.56	0.86	GRD	0.86	100	W604440	☐	19-027	low grade		☐	☐	☐
96.56	97.84	1.28	GRD	1.27	99	W604442	☐	19-027	low grade		☐	☐	☐
97.84	98.32	0.48	GRD	0.48	100	W604443	☐	19-027	low grade		☐	☐	☐
98.32	99.00	0.68	GRD	0.64	94	W604444	☐	19-027	low grade		☐	☐	☐
99.00	99.61	0.61	GRD	0.60	98	W604446	☐	19-027	low grade		☐	☐	☐
99.61	100.34	0.73	GRD	0.60	82	W604447	☐	19-027	low grade		☐	☐	☐
100.34	101.28	0.94	GRD	0.71	76	W604448	☐	19-027	low grade		☐	☐	☐
101.28	101.78	0.50	GRD	0.50	100	W604449	☐	19-027	low grade		☐	☐	☐
101.78	102.11	0.33	GRD	0.32	97	W604450	☐	19-027	low grade		☐	☐	☐
102.11	102.56	0.45	GRD	0.45	100	W604451	☐	19-027	low grade		☐	☐	☐
102.56	102.96	0.40	GRD	0.40	100	W604452	☐	19-027	low grade		☐	☐	☐
102.96	103.46	0.50	GRD	0.50	100	W604453	☐	19-027	low grade		☐	☐	☐
102.96	103.46	0.50	GRD	0.50	100	W604454	☐	19-027	low grade		☐	☑	☐
103.46	104.46	1.00	GRD	1.00	100	W604455	☐	19-027	low grade		☐	☐	☐
104.46	105.85	1.39	GRD	1.39	100	W604456	☐	19-027	low grade		☐	☐	☐
105.85	106.35	0.50	GRD	0.50	100	W604457	☐	19-027	low grade		☐	☐	☐
106.35	106.73	0.38	GRD	0.35	92	W604458	☐	19-027	low grade		☐	☐	☐
106.73	107.33	0.60	GRD	0.60	100	W604459	☐	19-027	low grade		☐	☐	☐
107.33	108.20	0.87	GRD	0.87	100	W604460	☐	19-027	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
108.20	109.70	1.50	GRD	1.45	97	W604461	☐	19-027	low grade		☐	☐	☐
109.70	111.00	1.30	GRD	1.20	92	W604462	☐	19-027	low grade		☐	☐	☐
111.00	111.55	0.55	GRD	0.55	100	W604464	☐	19-027	low grade		☐	☐	☐
111.55	112.12	0.57	GRD	0.50	88	W604465	☐	19-027	low grade		☐	☐	☐
112.12	112.74	0.62	GRD	0.60	97	W604466	☐	19-027	low grade		☐	☐	☐
112.74	113.30	0.56	GRD	0.50	89	W604467	☐	19-027	low grade		☐	☐	☐
113.30	113.80	0.50	GRD	0.45	90	W604468	☐	19-027	low grade		☐	☐	☐
113.80	115.00	1.20	GRD	1.18	98	W604469	☐	19-027	low grade		☐	☐	☐
115.00	115.50	0.50	GRD	0.50	100	W604470	☐	19-028	low grade		☐	☐	☐
115.50	117.00	1.50	GRD	0.50	33	W604471	☐	19-028	low grade		☐	☐	☐
117.00	118.00	1.00	GRD	1.00	100	W604472	☐	19-028	low grade		☐	☐	☐
118.00	118.50	0.50	GRD, GRD	0.50	100	W604473	☐	19-028	low grade		☐	☐	☐
118.50	119.75	1.25	GRD	1.25	100	W604474	☐	19-028	low grade		☐	☐	☐
119.75	120.55	0.80	GRD	0.80	100	W604476	☐	19-028	low grade		☐	☐	☐
120.55	121.26	0.71	GRD	0.70	99	W604477	☐	19-028	low grade		☐	☐	☐
121.26	122.60	1.34	GRD	1.30	97	W604478	☐	19-028	low grade		☐	☐	☐
121.26	122.60	1.34	GRD	1.30	97	W604479	☐	19-028	low grade		☐	☑	☐
122.60	123.40	0.80	GRD	0.80	100	W604480	☐	19-028	low grade		☐	☐	☐
123.40	124.00	0.60	GRD	0.60	100	W604481	☐	19-028	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
124.00	125.50	1.50	GRD	1.50	100	W604482	☐	19-028	low grade		☐	☐	☐
125.50	126.80	1.30	GRD	1.28	98	W604483	☐	19-028	low grade		☐	☐	☐
125.50	126.80	1.30	GRD	1.28	98	W604484	☐	19-028	low grade		☐	☐	☑
126.80	127.30	0.50	GRD	0.50	100	W604485	☐	19-028	low grade		☐	☐	☐
127.30	128.50	1.20	GRD	1.20	100	W604486	☐	19-028	low grade		☐	☐	☐
128.50	130.00	1.50	GRD	1.50	100	W604487	☐	19-028	low grade		☐	☐	☐
130.00	131.00	1.00	GRD	1.00	100	W604488	☐	19-028	low grade		☐	☐	☐
131.00	132.50	1.50	GRD, GRD	1.50	100	W604489	☐	19-028	low grade		☐	☐	☐
132.50	133.35	0.85	GRD	0.85	100	W604490	☐	19-028	low grade		☐	☐	☐
133.35	134.42	1.07	GRD	1.07	100	W604492	☐	19-028	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-024	W604357	0.00	0.00	0.24	600	☐	☐	☐	☑ ME-6	ME-6 STD
19-024	W604363	0.00	0.00	0.00	70	☐	☐	☑	☐	blank
19-024	W604375	0.00	0.00	1.65	1010	☐	☐	☐	☑ KL-STD6	
19-023	W604326	0.00	0.00	0.00	90	☐	☐	☑	☐	blank
19-023	W604333	0.00	0.00	0.25	610	☐	☐	☐	☑ ME-6	STD ME-6
19-023	W604343	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	STD ME16
19-028	W604491	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-027	W604441	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-027	W604445	0.00	0.00	1.70	90	☐	☐	☐	☑ KL-STD6	
19-027	W604463	0.00	0.00	0.26	600	☐	☐	☐	☑ ME-6	STD ME-6
19-026	W604395	0.00	0.00	0.00	230	☐	☐	☑	☐	BLANK
19-026	W604408	0.00	0.00	0.28	620	☐	☐	☐	☑ ME-6	STD ME-6
19-026	W604423	0.00	0.00	1.73	280	☐	☐	☐	☑ KL-STD6	STD KL-6
19-023	W604315	1.33	2.83	0.10	2330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-023	W604316	2.83	4.33	0.04	3300	☐	☐	☐	☐	
19-023	W604317	4.33	5.83	0.03	2120	☐	☐	☐	☐	
19-023	W604318	5.83	6.42	0.13	1850	☐	☐	☐	☐	
19-023	W604319	6.42	7.35	0.00	2190	☐	☐	☐	☐	
19-023	W604320	6.42	7.35	0.01	2180	☑	☐	☐	☐	1/4 dup
19-023	W604321	7.35	7.78	0.08	1280	☐	☐	☐	☐	
19-023	W604322	7.78	8.42	0.10	1230	☐	☐	☐	☐	
19-023	W604323	8.42	8.89	0.02	4210	☐	☐	☐	☐	
19-023	W604324	8.89	9.92	0.00	1650	☐	☐	☐	☐	
19-023	W604325	9.92	11.30	0.00	1930	☐	☐	☐	☐	
19-023	W604327	11.30	11.80	0.02	1190	☐	☐	☐	☐	
19-023	W604328	11.80	12.30	0.58	3230	☐	☐	☐	☐	
19-023	W604329	12.30	13.00	0.01	2790	☐	☐	☐	☐	
19-023	W604330	13.00	13.86	0.03	2950	☐	☐	☐	☐	
19-023	W604331	13.86	14.43	0.03	2800	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-023	W604332	14.43	15.41	0.01	1840	☐	☐	☐	☐	
19-023	W604334	15.41	15.93	0.32	670	☐	☐	☐	☐	
19-023	W604335	15.93	17.43	0.02	2170	☐	☐	☐	☐	
19-023	W604336	17.43	18.29	0.03	1310	☐	☐	☐	☐	
19-023	W604337	18.29	18.59	0.09	840	☐	☐	☐	☐	
19-023	W604338	18.59	19.24	0.01	1440	☐	☐	☐	☐	
19-023	W604339	19.24	19.65	0.16	1170	☐	☐	☐	☐	
19-023	W604340	19.65	20.15	0.02	1380	☐	☐	☐	☐	
19-023	W604341	20.15	20.65	0.01	1460	☐	☐	☐	☐	
19-023	W604342	20.65	21.34	0.01	1980	☐	☐	☐	☐	
19-023	W604344	21.34	22.00	0.14	990	☐	☐	☐	☐	
19-023	W604345	22.00	22.97	0.05	600	☐	☐	☐	☐	
19-023	W604346	22.00	22.97	0.05	580	☐	☑	☐	☐	coarse dup
19-023	W604347	22.97	23.86	0.04	800	☐	☐	☐	☐	
19-023	W604348	23.86	24.75	0.04	740	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-023	W604349	24.75	25.10	0.12	2560	☐	☐	☐	☐	
19-024	W604350	25.10	25.69	0.00	1470	☐	☐	☐	☐	
19-024	W604351	25.69	27.00	0.24	5290	☐	☐	☐	☐	
19-024	W604352	27.00	27.92	0.00	2810	☐	☐	☐	☐	
19-024	W604353	27.92	28.25	0.01	4650	☐	☐	☐	☐	
19-024	W604354	28.25	29.42	0.04	2470	☐	☐	☐	☐	
19-024	W604355	29.42	30.48	0.03	1760	☐	☐	☐	☐	
19-024	W604356	30.48	31.82	0.02	1770	☐	☐	☐	☐	
19-024	W604358	31.82	32.30	0.86	1810	☐	☐	☐	☐	
19-006	W599157	32.30	32.64	1.95	140	☐	☐	☐	☐	HIGH GRADE
19-024	W604359	32.64	33.47	0.04	950	☐	☐	☐	☐	
19-024	W604360	33.47	34.47	0.04	1680	☐	☐	☐	☐	
19-024	W604361	34.47	34.83	0.43	810	☐	☐	☐	☐	
19-024	W604362	34.83	36.00	0.00	1940	☐	☐	☐	☐	
19-024	W604364	36.00	36.50	0.11	1840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-024	W604365	36.50	38.00	0.01	2130	☐	☐	☐	☐	
19-024	W604366	38.00	39.00	0.01	2170	☐	☐	☐	☐	
19-024	W604367	39.00	39.92	0.00	2070	☐	☐	☐	☐	
19-024	W604368	39.92	40.45	0.40	4680	☐	☐	☐	☐	
19-024	W604369	39.92	40.45	0.04	4040	☑	☐	☐	☐	1/4 duplicate
19-024	W604370	40.45	41.95	0.01	1970	☐	☐	☐	☐	
19-024	W604371	41.95	43.45	0.00	2170	☐	☐	☐	☐	
19-024	W604372	43.45	44.87	0.01	2490	☐	☐	☐	☐	
19-024	W604373	44.87	46.00	0.02	2570	☐	☐	☐	☐	
19-024	W604374	46.00	47.50	0.00	2360	☐	☐	☐	☐	
19-024	W604376	47.50	48.25	0.00	2190	☐	☐	☐	☐	
19-024	W604377	48.25	49.00	0.00	2150	☐	☐	☐	☐	
19-024	W604378	49.00	49.30	0.01	830	☐	☐	☐	☐	
19-024	W604379	49.30	50.30	0.01	1680	☐	☐	☐	☐	
19-024	W604380	50.30	51.80	0.00	1750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-024	W604381	50.30	51.80	0.00	1750	☐	☑	☐	☐	coarse reject dup
19-024	W604382	51.80	53.20	0.00	2460	☐	☐	☐	☐	
19-024	W604383	53.20	54.50	0.01	2590	☐	☐	☐	☐	
19-024	W604384	54.50	55.00	0.00	2230	☐	☐	☐	☐	
19-024	W604385	55.00	56.00	0.01	2400	☐	☐	☐	☐	
19-024	W604386	56.00	57.00	0.00	2220	☐	☐	☐	☐	
19-024	W604387	57.00	58.00	0.00	2510	☐	☐	☐	☐	
19-024	W604388	58.00	59.50	0.00	2500	☐	☐	☐	☐	
19-024	W604389	59.50	60.50	0.00	2390	☐	☐	☐	☐	
19-026	W604390	60.50	61.45	0.01	2670	☐	☐	☐	☐	
19-026	W604391	61.45	62.25	0.00	2560	☐	☐	☐	☐	
19-026	W604392	62.25	62.68	0.00	2340	☐	☐	☐	☐	
19-026	W604393	62.68	63.29	0.04	720	☐	☐	☐	☐	
19-006	W599158	63.29	63.66	13.85	320	☐	☐	☐	☐	HIGH GRADE
19-026	W604394	63.66	64.30	0.14	1210	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-026	W604396	64.30	64.69	0.16	790	☐	☐	☐	☐	
19-026	W604397	64.69	65.09	0.07	870	☐	☐	☐	☐	
19-026	W604398	65.09	65.57	3.52	470	☐	☐	☐	☐	
19-026	W604399	65.57	66.28	0.10	930	☐	☐	☐	☐	
19-026	W604400	66.28	66.58	0.26	320	☐	☐	☐	☐	
19-026	W604401	66.58	67.58	0.01	2310	☐	☐	☐	☐	
19-026	W604402	66.58	67.58	0.01	1930	☑	☐	☐	☐	1/4 dup
19-026	W604403	67.58	68.15	0.03	2270	☐	☐	☐	☐	
19-026	W604404	68.15	69.65	0.01	2410	☐	☐	☐	☐	
19-026	W604405	69.65	70.12	0.08	2260	☐	☐	☐	☐	
19-026	W604406	70.12	70.42	0.01	750	☐	☐	☐	☐	
19-026	W604407	70.42	71.50	0.00	2010	☐	☐	☐	☐	
19-026	W604409	71.50	73.00	0.00	1790	☐	☐	☐	☐	
19-026	W604410	73.00	74.50	0.01	2400	☐	☐	☐	☐	
19-026	W604411	74.50	75.66	0.00	2070	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-026	W604412	75.66	76.50	0.00	2070	☐	☐	☐	☐	
19-026	W604413	76.50	77.60	0.01	2070	☐	☐	☐	☐	
19-026	W604414	76.50	77.60	0.01	2040	☐	☑	☐	☐	coarse reject dup
19-026	W604415	77.60	78.15	0.01	4080	☐	☐	☐	☐	
19-026	W604416	78.15	78.72	0.02	7850	☐	☐	☐	☐	
19-026	W604417	78.72	79.41	0.00	750	☐	☐	☐	☐	
19-026	W604418	79.41	79.88	0.23	1180	☐	☐	☐	☐	
19-026	W604419	79.88	80.60	0.05	950	☐	☐	☐	☐	
19-026	W604420	80.60	81.20	0.07	1280	☐	☐	☐	☐	
19-026	W604421	81.20	81.57	0.09	620	☐	☐	☐	☐	
19-026	W604422	81.57	83.00	0.01	2170	☐	☐	☐	☐	
19-026	W604424	83.00	84.50	0.01	2320	☐	☐	☐	☐	
19-026	W604425	84.50	86.00	0.00	2630	☐	☐	☐	☐	
19-026	W604426	86.00	87.42	0.00	2580	☐	☐	☐	☐	
19-026	W604427	87.42	87.90	0.08	900	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-026	W604428	87.90	88.42	0.13	740	☐	☐	☐	☐	
19-026	W604429	88.42	89.18	0.00	2530	☐	☐	☐	☐	
19-027	W604430	89.18	89.50	0.01	2600	☐	☐	☐	☐	
19-027	W604431	89.50	90.50	0.00	2580	☐	☐	☐	☐	
19-027	W604432	90.50	91.03	0.02	200	☐	☐	☐	☐	
19-027	W604433	91.03	92.15	0.00	2600	☐	☐	☐	☐	
19-027	W604434	92.15	92.89	0.01	1780	☐	☐	☐	☐	
19-027	W604435	92.15	92.89	0.02	1820	☐	☑	☐	☐	coarse reject duplicate
19-027	W604436	92.89	93.20	0.08	210	☐	☐	☐	☐	
19-027	W604437	93.20	94.00	0.01	1930	☐	☐	☐	☐	
19-027	W604438	94.00	94.85	0.01	4050	☐	☐	☐	☐	
19-027	W604439	94.85	95.70	0.00	2640	☐	☐	☐	☐	
19-027	W604440	95.70	96.56	0.01	2710	☐	☐	☐	☐	
19-027	W604442	96.56	97.84	0.00	2540	☐	☐	☐	☐	
19-027	W604443	97.84	98.32	0.01	2230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-027	W604444	98.32	99.00	0.05	1830	☐	☐	☐	☐	
19-027	W604446	99.00	99.61	0.02	1670	☐	☐	☐	☐	
19-027	W604447	99.61	100.34	0.12	490	☐	☐	☐	☐	
19-027	W604448	100.34	101.28	0.08	1120	☐	☐	☐	☐	
19-027	W604449	101.28	101.78	0.02	2120	☐	☐	☐	☐	
19-027	W604450	101.78	102.11	0.05	1130	☐	☐	☐	☐	
19-027	W604451	102.11	102.56	0.15	520	☐	☐	☐	☐	
19-027	W604452	102.56	102.96	0.03	1670	☐	☐	☐	☐	
19-027	W604453	102.96	103.46	0.01	2070	☐	☐	☐	☐	
19-027	W604454	102.96	103.46	0.01	2010	☑	☐	☐	☐	1/ dup
19-027	W604455	103.46	104.46	0.00	2650	☐	☐	☐	☐	
19-027	W604456	104.46	105.85	0.00	2330	☐	☐	☐	☐	
19-027	W604457	105.85	106.35	0.00	2310	☐	☐	☐	☐	
19-027	W604458	106.35	106.73	0.01	1690	☐	☐	☐	☐	
19-027	W604459	106.73	107.33	0.00	2960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-027	W604460	107.33	108.20	0.00	2290	☐	☐	☐	☐	
19-027	W604461	108.20	109.70	0.00	3040	☐	☐	☐	☐	
19-027	W604462	109.70	111.00	0.00	2520	☐	☐	☐	☐	
19-027	W604464	111.00	111.55	0.00	2670	☐	☐	☐	☐	
19-027	W604465	111.55	112.12	0.01	1650	☐	☐	☐	☐	
19-027	W604466	112.12	112.74	0.00	2060	☐	☐	☐	☐	
19-027	W604467	112.74	113.30	0.00	2140	☐	☐	☐	☐	
19-027	W604468	113.30	113.80	0.00	1830	☐	☐	☐	☐	
19-027	W604469	113.80	115.00	0.00	2500	☐	☐	☐	☐	
19-028	W604470	115.00	115.50	0.00	1860	☐	☐	☐	☐	
19-028	W604471	115.50	117.00	0.00	2260	☐	☐	☐	☐	
19-028	W604472	117.00	118.00	0.00	2450	☐	☐	☐	☐	
19-028	W604473	118.00	118.50	0.00	2720	☐	☐	☐	☐	
19-028	W604474	118.50	119.75	0.00	2860	☐	☐	☐	☐	
19-028	W604476	119.75	120.55	0.00	2400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-028	W604477	120.55	121.26	0.00	2530	☐	☐	☐	☐	
19-028	W604478	121.26	122.60	0.00	1920	☐	☐	☐	☐	
19-028	W604479	121.26	122.60	0.00	2010	☑	☐	☐	☐	1/4 dup
19-028	W604480	122.60	123.40	0.00	3280	☐	☐	☐	☐	
19-028	W604481	123.40	124.00	0.01	2150	☐	☐	☐	☐	
19-028	W604482	124.00	125.50	0.01	1750	☐	☐	☐	☐	
19-028	W604483	125.50	126.80	0.01	2390	☐	☐	☐	☐	
19-028	W604484	125.50	126.80	0.01	2430	☐	☑	☐	☐	coarse reject duplicate
19-028	W604485	126.80	127.30	0.01	2680	☐	☐	☐	☐	
19-028	W604486	127.30	128.50	0.01	2070	☐	☐	☐	☐	
19-028	W604487	128.50	130.00	0.00	2220	☐	☐	☐	☐	
19-028	W604488	130.00	131.00	0.00	3110	☐	☐	☐	☐	
19-028	W604489	131.00	132.50	0.00	2320	☐	☐	☐	☐	
19-028	W604490	132.50	133.35	0.00	2880	☐	☐	☐	☐	
19-028	W604492	133.35	134.42	0.00	2100	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.85	5.92	ST		80	NUL	2	small quartz carbonate veinlets 1 cm wide with dissemianted pyrite.			
								Py	1	DI
8.42	11.34	DY	37	80	NUL	1	small finegrained qfp dyke, variably altered and oxidized due to proximity to surface			
11.90	12.00	FT	42	80	NUL	1	fault gouged clay alterd grd			
13.86	14.40	DY	37	80	NUL	1	pinkish brown fine graied feldspar porphyry dyke within altered granodiorite			
18.44	18.48	VN	37	60	NUL	1	quartz carbonate vein with clay alteration, hosting disseminated pyrite and galena. Possibly sphalerite			
								Sp	0.5	DI
								Py	0.5	DI
								Gn	0.5	DI
19.31	19.38	BV		70	NUL	1	quartz carbonate breccia vein with disseminated pyrite and galena			
								Py	0.5	DI
								Gn	0.25	DI
19.61	25.42	DY	37	70	NUL	1	light grey quartz feldspar porphyry dyke with angular feldspar grains that are slightly chloritized, wuth disseminated quartz carbonate veining throughout interval.			
19.81	19.90	ST		70	NUL	3	small sub-mm carboante fractues in qfp dyke with disseminated pyrite along its margin			
								Py	0.1	DI
24.77	24.88	ST		80	NUL	2	set of two 2 cm wide quartz carbonate veins with quartz in the centre, and cabronate on the outer margins, dissemianted fine-grained black mienral is found along the contact between quartz and carbonate within the quartz, suggesting that a secondary pulse of siliceous fluid injected along a carbonate vein, causing dilation anad mineral precipitation along its outer margin when in contact with the carbonate.			
								Un	0.5	DI
25.42	25.70	DY	37	80	NUL	1	fine-graiend mafic dyke; magnetic, with a sharp lower and upper contact.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
28.00	28.02	VN	37	30	NUL	1	2 cm wide dark finegrained tourmaline (or sphalerite) (?) chlorite vein with disseminated pyrite along its margin.			
								Py	1	DI
31.90	31.92	FT	42	25	NUL	1	1 cm wide low angle fracture with clay altered granodiorite above and below. Fault measurements that bound the vein could be related to mineralization			
32.46	32.67	VN	37	75	NUL	1	15 cm wide quartz carbonate vein with disseminted galena, sphalerite, and pyrite. Brecciated chaotic nature to the veining, almost semi-stockwork like.			
								Gn	1	DI
								Sp	1	DI
								Py	1	DI
34.58	34.66	ST		80	NUL	3	set of 3 small 3 mm wide quartz cabonate veinlets with disseminated pyrite and fine-grained galena (?) along their margins.			
								Gn	0.1	DI
								Py	0.5	DI
34.60	34.66	ST		80	NUL	3	small set of quartz carbonate veinlets developed 3 mm in width, with disseminated pyrite and fine-grained galena (?) on their margins			
34.92	34.94	FT	42	25	NUL	1	small fault gouged interval in clay altered granodiorite			
36.13	36.15	VN	37	50	NUL	1	small quarta vein trending 50 TCA. Weak dissem pyrite hosted within			
								Py	0.5	DI
39.09	39.11	FT	42	20	NUL	1	small gouged faulted section of granodiorite, with a low angle clay gouged fracture possibly representing a small fault			
39.90	40.00	VT	37	30	NUL	1	small 3 cm wide quartz vein without sulphides and disseminated fine grained bands of tourmaline (trace)			
								To	0.25	DI
49.18	49.28	VT	37	70	NUL	1	small fine grained sooty grey to white quartz carbonate veinlet with fine-grained sooty mineral and disseminated pyrite.			
								Py	0.5	DI
54.49	54.52	DY	37	40	NUL	1	small fine grained pinkish brown aplite dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
54.50	56.90	ST		60	NUL	8	small sub-mm tight disseminated pyrite bearing fractures in propylitic altered granodiorite			
								Py	0.5	DI
59.50	61.50	ST		75	NUL	5	small sub-mm tight disseminated pyrite bearing fractures in propylitic altered granodiorite			
								Py	0.5	DI
63.47	63.66	VN	37	65	NUL	1	quartz vein containing semimassive sulfide. Pyrite, arsenopyrite, galena, and sphalerite all contained within this quartz vein.			
								Gn	2	DI
								Sp	1	DI
								Py	5	DI
								As	2	DI
65.09	65.29	VN	37	40	NUL	1	quartz carbonate vein with pyrtie, galena, and sphalerite. Clay altered upper contact, could be related to faulting			
								Py	1	DI
								Gn	0.5	DI
								Sp	1	BA
66.35	66.53	VN	37	70	NUL	1	sphalerite rich quartz vein			
								Sp	5	DI
74.88	75.08	DY	37	60	NUL	1	small pinkish brown fine grained aplite dyke			
75.60	78.00	ST		30	NUL	7	seven hairline frx with 1mm wide tourmaline alteration haloes around them			
								To	0.5	DI
79.50	81.42	ST		80	NUL	4	smal 1 cm wide quartz veinlets that contain dissemianted pyrite			
								Py	0.5	DI
83.66	83.72	DY	37	80	NUL	1	small pinkish brwn aplite dyke; fine grained			
87.50	87.75	ST		70	NUL	2	two small quartz veins 1 cm wide with pyrite			
								Py	1	DI
87.93	87.98	VN	37	80	NUL	1	small quartz carbonate vein with disseminated pyrite			
								Py	1	DI
90.50	91.00	ST		80	NUL	3	3 small 1 cm wide quartz veins with disseminated pyrite and a small silcificatin alteration halo extending around them.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	DI
92.93	93.05	VN	37	30	NUL	1	quartz carbonate vein breccia with trace disseminated pyrite.			
								Py	0.5	DI
93.05	93.10	FT	42	20	NUL	1	small 10 cm wide sharp fault zone clay gouged granodiorite with disseminated pyrite in clay gouge			
								Py	0.5	DI
97.90	98.60	ST		50	NUL	3	three small 2 cm wide quartz veinlets with troumaline alteration haloes around them that extend 2 mm			
99.93	99.96	VN	37	70	NUL	1	quartz breccia vein with quartz, sphalerite, and carbonate			
								Sp	1	DI
								Py	0.5	DI
100.50	102.00	ST		40	NUL	5	set of stringer veins with patchy tourmaline alteration and disseminated pyrite throughout interval, likely related to faulting			
								To	0.5	DI
								Py	0.5	DI
102.11	102.66	FT	42	30	NUL	1	clay gouged grd with disseminated pyrite, related to faulting below and above it.			
102.66	102.67	FT	42	20	NUL	1	sharp fault contact with grd below and clay gouged grd (mineralized) above.			
106.37	106.57	VN	37	50	NUL	1	one 10 cm wide quartz vein with troumaline alteration haloes on vein margin that extend 2 mm into wallrock. Clay alteration on upper contact with grd.			
111.60	111.63	FT	42	20	NUL	1	sharp fault contact with gouged rubbly siliceous GRD below			
111.90	112.05	VN	37	40	NUL	2	two small 3 cm wide quartz veinlets with troumaline alteration haloes around them that extend 2 mm			
								To	0.3	DI
118.03	118.05	VN	37	40	NUL	1	one small 2 cm wide quartz veinlet with troumaline alteration haloes around that extends 2 mm. Trace disseminated pyrite.			
								Py	0.5	DI
								To	0.1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
120.57	120.61	VN	37	40	NUL	1	one small 3 cm wide quartz veinlets with troumaline alteration haloes around them that extend 2 mm			
								To	0.1	DI
121.35	121.50	ST		40	NUL	2	two small 2 cm wide quartz veinlets with troumaline alteration haloes around them that extend 2 mm			
								To	0.1	DI
126.38	126.40	VN	37	80	NUL	1	small quartz carbonate veinlet with trace disseminated pyrite in siliceous propylitic granodiorite			
								Py	0.5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382998	6889391	1456.57	133.2

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-442

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 10 - Sep 11, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
13	36.16	-49.9	Reflex
133	37.56	-50.3	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	3.05	1.53	GRD
3.05	6.41	3.36	GRD
6.41	7.86	1.45	GRD
7.86	8.35	0.49	GRD
8.35	9.35	1	GRD
9.35	14	4.65	GRD
14	15.75	1.75	GRD
15.75	21.8	6.05	GRD
21.8	22.7	0.9	GRD
22.7	23.6	0.9	GRD
23.6	26	2.4	GRD
26	28	2	GRD
28	28.5	0.5	GRD
28.5	42.5	14	GRD
42.5	44.75	2.25	GRD

SAMPLES	
Numbers:	W593151 to W593179, W593181 to W593299, W593324, W599161 to W599163, W604493 to W604500
Total:	160
Batch:	006, 028, 030, 034, 035, 037
Certificates:	WH19239317, WH19239325, WH19239345, WH19242452, WH19242457, WH19250393, WH19283121

COMMENTS

44.75	45.23	0.48	GRD
45.23	45.68	0.45	VEN
45.68	46	0.32	GRD
46	48.33	2.33	GRD
48.33	48.6	0.27	VEN
48.6	49.64	1.04	GRD
49.64	49.68	0.04	APL
49.68	50.17	0.49	GRD
50.17	50.29	0.12	APL
50.29	52.77	2.48	GRD
52.77	53.07	0.3	GRD
53.07	54.7	1.63	GRD
54.7	66	11.3	GRD
66	68.4	2.4	GRD
68.4	69.8	1.4	GRD
69.8	73.25	3.45	GRD
73.25	73.52	0.27	VEN
73.52	76	2.48	GRD
76	77.18	1.18	GRD
77.18	80.5	3.32	GRD
80.5	86.7	6.2	GRD
86.7	87.33	0.63	GRD
87.33	89.7	2.37	GRD
89.7	90.7	1	GRD
90.7	93.17	2.47	GRD
93.17	93.75	0.58	GRD
93.75	95.75	2	GRD
95.75	95.85	0.1	VEN
95.85	96.81	0.96	GRD
96.81	96.83	0.02	VEN
96.83	100.3	3.47	GRD
100.3	100.6	0.3	GRD

100.6	102.56	1.96	GRD
102.56	104.7	2.14	GRD
104.7	108.62	3.92	GRD
108.62	109.64	1.02	GRD
109.64	112.2	2.56	GRD
112.2	112.9	0.7	GRD
112.9	113.9	1	GRD
113.9	119	5.1	GRD
119	120.09	1.09	GRD
120.09	123.5	3.41	GRD
123.5	123.9	0.4	MAF
123.9	133.2	9.3	QFP

Box Log

KL -19-442

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	5.2
2	5.2	9.14
3	9.14	13.23
4	13.23	16.48
5	16.48	20.72
6	20.72	24.8
7	24.8	28.83
8	28.83	32.67
9	32.67	36.89
10	36.89	41.02
11	41.02	44.91
12	44.91	48.96
13	48.96	53.22
14	53.22	57.27
15	57.27	61.26
16	61.26	65.15
17	65.15	69.3
18	69.3	73.43
19	73.43	77.18
20	77.18	80.89
21	80.89	84.51
22	84.51	88.33
23	88.33	92.7
24	92.7	96.76
25	96.76	100.79
26	100.79	105.04
27	105.04	109.22
28	109.22	113.52
29	113.52	117.8
30	117.8	121.92
31	121.92	126.3
32	126.3	130.29
33	130.29	133.2

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-442									
	20.5	11	NTW	GRD	739.2	491.8	2.38	3.0	
	41.75	12	NTW	GRD	665	436	1.96	2.9	
	45.32	9	NTW	VEN	589	429.3	2.31	3.7	
	48.46	14	NTW	VEN	944.3	659.2	2.39	3.3	
	97.75	10	NTW	GRD	566.7	380.3	2	3.0	
	127.2	12	NTW	QFP	858	581.8	2.53	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overbdurden							
1.52	3.05	1.53	GRD	MG	mixture of unalterd granodiorite and overbudrne							
						MD	GY					
3.05	3.50	0.45	GRD	MG	medium grained medium grey unaltered granodiorite with weak patchy zones of trace argillic alteration related to fractures							
						MD	GY		ARG	1I		
3.50	4.20	0.70	GRD	MG	weak to moderate argillic altered granodiorite with a higher density of fractures trending 70 ATCA							
						MD	BF		ARG	2I		
						MD	GY					
4.20	6.41	2.21	GRD	MG	medium grained medium grey unaltered granodiorite with weak patchy zones of trace argillic alteration related to fractures							
6.41	7.86	1.45	GRD	MG	mediu grained light brown to grey clay altered moerate argillic altered granodiorite.							
						MD	GY		ARG	3I		
						MD	BN					
7.86	8.35	0.49	GRD	MG	one 3 cm wide low angle quartz vein trending 010 ATCA runs through this interval. No visible sulfides but may still hold a bit of grade. Granodiorite above and below is oderately clay altered							
						MD	GY		CLY	3I		
						MD	BN		SIL	2I		
									ARG	3I		
8.35	9.35	1.00	GRD	MG	medium grained weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		ARG	2I		
						MD	BN		PRO	1I		
						LT	GN					
9.35	10.50	1.15	GRD	MG	relatively unaltered granodiorite with one small zone of propylitic alteration due to proximity to a fine-grained aplitic dyke that is 2 cm wide							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
10.50	10.96	0.46	GRD	MG	weakly propylitic altered granodiorite above a small aplite dyke that is 2 cm wide							
									PRO	2I		
10.96	11.03	0.07	APL	MG	small fine grained pinksih brown aplite dyke 70 ATCA							
11.03	11.90	0.87	GRD	MG	wekaly propylitic altered granodiorite							
									PRO	2I		
11.90	14.00	2.10	GRD	MG	relatively unaltered granodiorite with one small zone of propylitic alteration due to proximity to a fine-grained aplitic dyke that is 2 cm wide							
14.00	15.75	1.75	GRD	MG	medium grained weakly argillic and clay altered granodiorite, likely clay altered due to faulting.							
						MD	GY		CLY	2I		
						LT	GY		ARG	2I		
15.75	17.70	1.95	GRD	MG	medium grained medium grey unaltered granodiorite with one small interval of weak argillic alteration							
17.70	18.10	0.40	GRD	MG	brownish light grey weakly argillic altered granodiorite within a broader interval of unaltered granodiorite							
						MD	BN		ARG	2I		
						MD	GY					
18.10	21.80	3.70	GRD	MG	medium grained medium grey unaltered granodiorite with one small interval of weak argillic alteration							
21.80	22.70	0.90	GRD	MG	medium grained grey to greenish grey moderate propylitic altered granodiorite with a pyrite-bearing quartz filled fracture on the lower contact trending 25 ATC							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
22.70	23.60	0.90	GRD	MG	medium grained light grey granodiorite							
						MD	GY					
23.60	26.00	2.40	GRD	MG	medium grained, rubbly, light whitish grey to brownish grey, faulted, rubbly granodiorite. Moderate argillic alteration							
						LT	WH		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		CLY	2I	Py	0.5
26.00	28.00	2.00	GRD	MG	medium grained mediume grey to greenish grey trace proplytic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
28.00	28.50	0.50	GRD	MG	medium grained medium grey to brown low angle faulted granodiorite. Unaltered. Fault rtace runs 00 ATCA and is undulating between +10 - 10 ATCA							
						MD	GY					
28.50	35.00	6.50	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite							
35.00	36.00	1.00	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite							
36.00	37.00	1.00	GRD	MG	medium grained medium grey unaltered granodiorite with patchy zones up to 40 cm wide of weak to trace propylitic alteration and weak hairline stringer quartz carbonate veinlets with trace disseminated pyrite.							
37.00	39.00	2.00	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
39.00	42.50	3.50	GRD	MG	medium grained medium grey unaltered granodiorite with patchy zones up to 40 cm wide of weak to trace propylitic alteration and weak hairline stringer quartz carbonate veinlets with trace disseminated pyrite.							
						MD	GY					
42.50	44.75	2.25	GRD	MG	medium grained ligh grey to medium grey, greyish green weakly argillic altered grnodiorite with a weak propylitic overprint.							
						MD	GY		ARG	2I		
						MD	GN					
						LT	GY		PRO	2I		
44.75	45.23	0.48	GRD	MG	fine-grained, heavily silicified medium grey to sooty grey with orangish brown bands, mineralized granodiorite with two quartz carbonate veinlets developed 80 ATCA with sphalerite and galena. Disseminated pyrite throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I	Sp	0.5
						MD	BN		SIL	3I	Gn	0.5
											Py	1
45.23	45.68	0.45	VEN	MG	Siliceous banded quartz carbonate vein, with area of weak brecciation related to carbonate infill of original quartz vein. Blebby white to medium sooty grey patches, milky white oxdizied sectinos are likely iron carbonate. Dissemianted pyrite thorughout interval, as well as discrete bands of fine-grained sphalerite and galena. Bladed pyrite suggesets post-mineralization infilling in microfractures.							
						LT	BN		SIL	5I	Py	0.1
						LT	GY				Py	2
						LT	WH				Sp	1
											Gn	1
45.68	46.00	0.32	GRD	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval, as well as one small 1 cm wide mienralized veinlet with trace sphalerite and galena.							
						MD	GY		PRO	4I	Sp	0.1
						MD	GN		SIL	2I	Py	1
											Gn	0.1
46.00	48.33	2.33	GRD	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval							
						MD	GY		PRO	3I		
						MD	GN					
48.33	48.60	0.27	VEN	MG	medium grained quartz vein; glassy white to milky white with sooty grey patches. Milky white veinlets in quartz vein are carbonate veinlets. Subhedral blebby bands of pyrite, galena, and sphalerite are present throughout entire interval (the most intense being from 48.33 to 48.50 - from 48.50 to 48.60 is mostly siliceous with pyrite).							
						LT	WH		SIL	5I	Gn	2
						LT	GY				Sp	1
											Py	4
											Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
48.60	49.00	0.40	GRD	MG	weakly propylitic alterd granodiorite grading into unaltered granodiorite 50 cm from the vein above it.							
						MD	GY					
						MD	GN					
49.00	49.64	0.64	GRD	MG	unaltered granodiorite							
						MD	GY					
49.64	49.68	0.04	APL	FG	fine-grained pinkish brown aplite dyke							
						MD	BN					
						LT	PK					
49.68	50.17	0.49	GRD	MG	trace propylitically altered granodiorite							
						MD	GY					
						LT	GN		PRO	1I		
50.17	50.29	0.12	APL	FG	finegrained pinkish brown aplite dyke							
50.29	52.77	2.48	GRD	MG	trace propylitic altered granodiorite.							
						MD	GY		PRO	1I		
						MD	GN					
52.77	53.07	0.30	GRD	MG	mineralized granodiorite with trace disseminated pyrite and one 1 cm wide galena, sphalerite, pyrite bearing quart vein trending 80 TCA							
53.07	54.70	1.63	GRD	MG	weak to moderately propylitic altered granodiorite with two intervals that contains pyrite +- galena qurtz veins 2 cm wide. These zones have moderate to strong propylitic alteration haloes that extend 20 cm to either side of the sulfide veins.							
54.70	57.27	2.57	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							
						MD	GY		PRO	1I		
									ARG	0I		
57.27	57.50	0.23	GRD	MG	weakly propylitic altered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
57.50	60.50	3.00	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							
60.50	60.80	0.30	GRD	MG	trace propylitic altered granodiorite overprinting trace argillic alteratio							
						MD	GY					
						MD	GN					
60.80	62.70	1.90	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							
62.70	63.10	0.40	GRD	MG	trace propylitic altered granodiorite							
						MD	GN					
						MD	GY					
63.10	64.30	1.20	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							
64.30	65.15	0.85	GRD	MG	weak to moderately argillic altered granodiorite							
						MD	WH					
						MD	GY					
65.15	66.00	0.85	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.00	68.40	2.40	GRD	MG	moderate propyltiic altered granodiorite; medium greenish grey, with weak hairline tourmaline stringer veinlets throughout interval, as well as one blebby patch of disseminated tourmaline. Weak disseminated pyrite-bearing hairline veinlets are rare within interval (<3).							
						MD	GY		PRO	4I	To	0.5
						MD	GN				Py	0.25
68.40	69.80	1.40	GRD	MG	Strongly clay altered, bleached light white to greenish white granodiorite with disseminated pyrite in clay rich sections of interval. Sharp upper contact with strongly propylitic altered granodiorite above trending 60 TCA							
						LT	WH		ARG	4I	Py	0.5
						LT	GY		CLY	5I		
						LT	GN		PRO	1I		
69.80	73.25	3.45	GRD	MG	medium grained, light greyish green to light white moderately argillic altered granodiorite with a weak propylitic overprint.							
						LT	GN		ARG	3I		
						LT	WH		PRO	2I		
						LT	GY		CLY	1I		
73.25	73.52	0.27	VEN	FG	set of 7 tightly spaced quartz carbonate veinlets all trending 70 TCA. Essentially a siliceous quartz vein for this entire interval. Veins contain disseminated pyrite, galena, and sphalerite. Wallrock here is silicified and intensely propylitically altered granodiorite.							
						LT	GY		PRO	5I	Sp	0.5
						LT	GN				Gn	0.5
						LT	WH		SIL	4I	Py	1.5
73.52	76.00	2.48	GRD	MG	medium grained medium grey with patchy green, weakly propylitic altered granodiorite with hairline veinlets with trace propylitic alteration haloes							
						MD	GY		PRO	2I		
						MD	GN					
76.00	77.18	1.18	GRD	MG	medium grained light whiteish green to greenish grey argilic altered granodiorite with a trace propylitic overprint.							
						MD	GN		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	2I		
77.18	80.50	3.32	GRD	MG	medium grained medium grey sproadically trace propylitic altered granodiorite (related to hariline stringer veinlets 80 TCA with trace propylitic alteration haloes). This interval is mostly unaltered granodiorite.							
						MD	GY		PRO	0I		
80.50	81.40	0.90	GRD	MG	Faulted, rubbly clay altered granodiorite							
									CLY	4I		
81.40	81.70	0.30	GRD	MG	unaltered fractured granodiorite							
81.70	82.60	0.90	GRD	MG	faulted, rubbly chloritized and clay altered granodiorite							
									CLY	4I		
82.60	83.75	1.15	GRD	MG	unaltered weakly fractured granodiorite							
83.75	84.45	0.70	GRD	MG	faulted, rubbly granodiorite, chloritized and clay altered							
									CLY	3I		
84.45	84.60	0.15	GRD	MG	unaltered weakly fractured granodiorite							
84.60	85.50	0.90	GRD	MG	faulted, rubbly, clay altered granodiorite							
									CLY	4I		
85.50	86.70	1.20	GRD	MG	weakly fractured, weakly chloritized granodiorite							
86.70	87.33	0.63	GRD	MG	medium grained, medium grey to green weakly propylitic altered granodiorite with weak hairline stringers throughout and weak carbonte alteration on fracture surfaces							
						MD	GY		PRO	2I		
						MD	GN					
87.33	89.70	2.37	GRD	MG	medium grained mediu mgrey unaltered granodiorite							
						MD	GY					
89.70	90.70	1.00	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with 3 small 3 mm wide pyrite bearing quartz veins trending 80 TCA.							
						MD	GN		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
90.70	93.17	2.47	GRD	MG	medium grained, mediu grey with patchy green, weakly propylitic altered granodiorite with weak hairline quartz carbonate stringer veinlets and two 3 mm wide pyrite bearing quartz veinlets							
						MD	GY		PRO	2I	Py	0.5
						MD	GN					
93.17	93.75	0.58	GRD	MG	fin-grained, siliceous and strongly propylitic altered granodiorite with two quartz veins (~2 cm wide) that host disseminated pyrite.							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	4I		
93.75	95.75	2.00	GRD	MG	medium grained weak to trace propylitic altered granodiorite with one small 1 cm wide weak quartz carbonate vein trending 70 TCA with trace disseminated pyrite.							
						MD	GN					
						MD	GY					
95.75	95.85	0.10	VEN	FG	fine grained siliceous quartz carbonate vein with banded finegrained galena bands 1mm wide on the margin, and subhedral blebby pyrite disseminated within							
						MD	GY				Gn	0.25
						LT	WH				Py	1
95.85	96.81	0.96	GRD	MG	medium grained strongly propylitic altered granodiorite with trace disseminated pyrite thorughout interval							
						MD	GN					
						MD	GY		PRO	3I	Py	0.2
96.81	96.83	0.02	VEN	FG	fine grained white quartz carbonate vien with baded pyrite and galena, fine grained and trace. Each band is <1mm wide, and galena is on the margin of the vein and pyrite is hosted nearer to the center.							
						MD	GY		SIL	4I	Gn	0.5
						MD	WH				Py	1
96.83	100.30	3.47	GRD	MG	medium grained, moderate to strong propylitically altered granodiorite with weak hairline quartz carbonate stringer veinlets with trace disseminated pyrite throughout entire interval.							
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						LT	WH					
100.30	100.60	0.30	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
100.60	102.56	1.96	GRD	MG	medium grained greenish grey weakly argillic altered granodiorite							
						MD	GN					
						MD	GY					
102.56	104.70	2.14	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
104.70	108.62	3.92	GRD	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Sparse quart carbonate stringer veinlets (three) throughout interval containing trace dissemianted pyrite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
108.62	109.64	1.02	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
109.64	112.20	2.56	GRD	MG	medium grained light grey to whitish greyish green weak to moderately altered granodiorite							
						MD	GN		ARG	3I		
						MD	GY					
						LT	WH					
112.20	112.90	0.70	GRD	MG	medium to finegrained, medium green to greenish grey moederately propylitic altered granodiorite with weak clay alteration and trace disseminated pyrite within groundmass							
						MD	GN		PRO	3I	Py	0.5
						MD	GY		SIL	1I		
									CLY	2I		
112.90	113.90	1.00	GRD	MG	mexium grained medium grey to greenish grey weak to moderatly altered granodiorite with weak argillic alteration							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I		
113.90	116.00	2.10	GRD	MG	moderately argillic altered granodiorite							
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		ARG	3I		
116.00	116.80	0.80	GRD	MG	moderately propylitic altered granodiorite with weak disseminated trace pyrite throughout interval							
						MD	GN		PRO	3I	Py	0.5
116.80	117.33	0.53	GRD	MG	moderately argillic altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
117.33	117.63	0.30	GRD	MG	moderately propylitic alted granodiorite with weak trace disseminted pyrite in groundmass							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
117.63	119.00	1.37	GRD	MG	moderately argillic altered granodiorite							
						MD	GN		ARG	3I		
						LT	WH					
119.00	120.09	1.09	GRD	MG	medium grained moderate to strong porpylitically altered granodiorite with weak silicified and rubbly fractured sectionshosting disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	3I	Py	0.25
120.09	123.50	3.41	GRD	MG	medium grained weakl patchy argillic altered granodiorite with weak patchy propylitic alteration. Small carbonate and quartz stringer veinlets throughout interval; barren of sulfide							
						MD	GN		ARG	1I		
						MD	GY		PRO	1I		
123.50	123.90	0.40	MAF	FG	fine grained dark grey magnetic mafic dyke with disseminated subhedral epidote and pyrite, with fine-grained black specks disseminated wtihin groundmass (hornblende?)							
						DK	GY				Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.90	128.07	4.17	QFP	MG	prophyritic medium greenish grey with light whitish green chloritized and weakly clay altered feldspar grains (subangular; up to 3mm in size). Small subhedral quartz grains up to 2 mm in size are consistent thorughout dyke. Trace disseminated fine-grained pyrite occurs throughout dyke, and one 0.7 interval of dyke is heavily fractured and is moderately silicified and contains a higher proportion of disseminated pyrite.							
						MD	GY		CHL	2I	Py	0.25
						LT	GN					
128.07	128.80	0.73	QFP	MG	fractured, silicified interval of QFP dyke, with weak quartz carbonate veining developed throughout and a higher proprition of disseminated pyrite.							
						MD	GY					
						LT	WH		SIL	2I	Py	0.5
128.80	133.20	4.40	QFP	MG	prophyritic medium greenish grey with light whitish green chloritized and weakly clay altered feldspar grains (subangular; up to 3mm in size). Small subhedral quartz grains up to 2 mm in size are consistent thorughout dyke. Trace disseminated fine-grained pyrite occurs throughout dyke, and one 0.7 interval of dyke is heavily fractured and is moderately silicified and contains a higher proportion of disseminated pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.52	1.52	OVB	OVB	--	overbdurden
1.52	3.05	1.53	GRD	GRD	MG	mixture of unalterd granodiorite and overbudrne
3.05	3.50	0.45	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with weak patchy zones of trace argillic alteration related to fractures
3.50	4.20	0.70	GRD	GRD	MG	weak to moderate argillic altered granodiorite with a higher density of fractures trending 70 ATCA
4.20	6.41	2.21	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with weak patchy zones of trace argillic alteration related to fractures
6.41	7.86	1.45	GRD	GRDA	MG	mediu grained light brown to grey clay altered moerate argillic altered granodiorite.
7.86	8.35	0.49	GRD	GRDM	MG	one 3 cm wide low angle quartz vein trending 010 ATCA runs through this interval. No visible sulfides but may still hold a bit of grade. Granodiorite above and below is oderately clay altered
8.35	9.35	1.00	GRD	GRDA	MG	medium grained weak to moderately argillic altered granodiorite with a weak propylitic overprint
9.35	10.50	1.15	GRD	GRD	MG	relatively unaltered granodiorite with one small zone of propylitic alteration due to proximity to a fine-grained aplitic dyke that is 2 cm wide
10.50	10.96	0.46	GRD	GRD	MG	weakly propylitic altered granodiorite above a small aplite dyke that is 2 cm wide
10.96	11.03	0.07	APL	GRD	MG	small fine grained pinksih brown aplite dyke 70 ATCA
11.03	11.90	0.87	GRD	GRD	MG	wekaly propylitic altered granodiorite
11.90	14.00	2.10	GRD	GRD	MG	relatively unaltered granodiorite with one small zone of propylitic alteration due to proximity to a fine-grained aplitic dyke that is 2 cm wide
14.00	15.75	1.75	GRD	GRDF	MG	medium grained weakly argillic and clay altered granodiorite, likely clay altered due to faulting.
15.75	17.70	1.95	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with one small interval of weak argillic alteration
17.70	18.10	0.40	GRD	GRD	MG	brownish light grey weakly argillic altered granodiorite within a broader interval of unaltered granodiorite
18.10	21.80	3.70	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with one small interval of weak argillic alteration
21.80	22.70	0.90	GRD	GRDA	MG	medium grained grey to greenish grey moderate propylitic altered granodiorite with a pyrite-bearing quartz filled fracture on the lower contact trending 25 ATC
22.70	23.60	0.90	GRD	GRD	MG	medium grained light grey granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
23.60	26.00	2.40	GRD	GRDF	MG	medium grained, rubbly, light whitish grey to brownish grey, faulted, rubbly granodiorite. Moderate argillic alteration
26.00	28.00	2.00	GRD	GRDA	MG	medium grained mediume grey to greenish grey trace proplytic altered granodiorite
28.00	28.50	0.50	GRD	GRDF	MG	medium grained medium grey to brown low angle faulted granodiorite. Unaltered. Fault rtace runs 00 ATCA and is undulating between +10 - 10 ATCA
28.50	35.00	6.50	GRD	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite
35.00	36.00	1.00	GRD	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite
36.00	37.00	1.00	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with patchy zones up to 40 cm wide of weak to trace propylitic alteration and weak hairline stringer quartz carbonate veinlets with trace disseminated pyrite.
37.00	39.00	2.00	GRD	GRD	MG	medium grained light grey to greenish grey weak to trace propylitic altered granodiorite
39.00	42.50	3.50	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with patchy zones up to 40 cm wide of weak to trace propylitic alteration and weak hairline stringer quartz carbonate veinlets with trace disseminated pyrite.
42.50	44.75	2.25	GRD	GRDA	MG	medium grained ligh grey to medium grey, greyish green weakly argillic altered grnodiorite with a weak propylitic overprint.
44.75	45.23	0.48	GRD	GRDM	MG	fine-grained, heavily silicified medium grey to sooty grey with orangish brown bands, mineralized granodiorite with two quartz carbonate veinlets developed 80 ATCA with sphalerite and galena. Disseminated pyrite throughout interval.
45.23	45.68	0.45	VEN	VEIN	MG	Siliceous banded quartz carbonate vein, with area of weak brecciation related to carbonate infill of original quartz vein. Blebby white to medium sooty grey patches, milky white oxdizied sectinos are likely iron carbonate. Dissemianted pyrite thorughout interval, as well as discrete bands of fine-grained sphalerite and galena. Bladed pyrite suggesets post-mineralization infilling in microfractures.
45.68	46.00	0.32	GRD	GRDM	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval, as well as one small 1 cm wide mienralized veinlet with trace sphalerite and galena.
46.00	48.33	2.33	GRD	GRDM	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval
48.33	48.60	0.27	VEN	VEIN	MG	medium grained quartz vein; glassy white to milky white with sooty grey patches. Milky white veinlets in quartz vein are carbonate veinlets. Subhedral blebby bands of pyrite, galena, and sphalerite are present throughout entire interval (the most intense being from 48.33 to 48.50 - from 48.50 to 48.60 is mostly siliceous with pyrite).
48.60	49.00	0.40	GRD	GRDA	MG	weakly propylitic alterd granodiorite grading into unaltered granodiorite 50 cm from the vein above it.
49.00	49.64	0.64	GRD	GRDA	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
49.64	49.68	0.04	APL	DYK	FG	fine-grained pinkish brown aplite dyke
49.68	50.17	0.49	GRD	GRDA	MG	trace propylitically altered granodiorite
50.17	50.29	0.12	APL	DYK	FG	finegrained pinkish brown aplite dyke
50.29	52.77	2.48	GRD	GRD	MG	trace propylitic altered granodiorite.
52.77	53.07	0.30	GRD	GRDM	MG	mineralized granodiorite with trace disseminated pyrite and one 1 cm wide galena, sphalerite, pyrite bearing quart vein trending 80 TCA
53.07	54.70	1.63	GRD	GRDM	MG	weak to moderately propylitic altered granodiorite with two intervals that contains pyrite +- galena qurtz veins 2 cm wide. These zones have moderate to strong propylitic alteration haloes that extend 20 cm to either side of the sulfide veins.
54.70	57.27	2.57	GRD	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite
57.27	57.50	0.23	GRD	GRD	MG	weakly propylitic altered granodiorite
57.50	60.50	3.00	GRD	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite
60.50	60.80	0.30	GRD	GRD	MG	trace propylitic altered granodiorite overprinting trace argillic alteratio
60.80	62.70	1.90	GRD	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite
62.70	63.10	0.40	GRD	GRD	MG	trace propylitic altered granodiorite
63.10	64.30	1.20	GRD	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite
64.30	65.15	0.85	GRD	GRD	MG	weak to moderately argillic altered granodiorite
65.15	66.00	0.85	GRD	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite
66.00	68.40	2.40	GRD	GRDA	MG	moderate propyltiic altered granodiorite; medium greenish grey, with weak hairline tourmaline stringer veinlets throughout interval, as well as one blebby patch of disseminated tourmaline. Weak disseminated pyrite-bearing hairline veinlets are rare within interval (<3).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
68.40	69.80	1.40	GRD	GRDF	MG	Strongly clay altered, bleached light white to greenish white granodiorite with disseminated pyrite in clay rich sections of interval. Sharp upper contact with strongly propylitic altered granodiorite above trending 60 TCA
69.80	73.25	3.45	GRD	GRDA	MG	medium grained, light greyish green to light white moderately argillic altered granodiorite with a weak propylitic overprint.
73.25	73.52	0.27	VEN	VEIN	FG	set of 7 tightly spaced quartz carbonate veinlets all trending 70 TCA. Essentially a siliceous quartz vein for this entire interval. Veins contain disseminated pyrite, galena, and sphalerite. Wallrock here is silicified and intensely propylitically altered granodiorite.
73.52	76.00	2.48	GRD	GRDA	MG	medium grained medium grey with patchy green, weakly propylitic altered granodiorite with hairline veinlets with trace propylitic alteration haloes
76.00	77.18	1.18	GRD	GRDA	MG	medium grained light whiteish green to greenish grey argilic altered granodiorite with a trace propylitic overprint.
77.18	80.50	3.32	GRD	GRD	MG	medium grained medium grey sproadically trace propylitic altered granodiorite (related to hariline stringer veinlets 80 TCA with trace propylitic alteration haloes). This interval is mostly unaltered granodiorite.
80.50	81.40	0.90	GRD	GRDA	MG	Faulted, rubbly clay altered granodiorite
81.40	81.70	0.30	GRD	GRDA	MG	unaltered fractured granodiorite
81.70	82.60	0.90	GRD	GRDA	MG	faulted, rubbly chloritized and clay altered granodiorite
82.60	83.75	1.15	GRD	GRDA	MG	unaltered weakly fractured granodiorite
83.75	84.45	0.70	GRD	GRDA	MG	faulted, rubbly granodiorite, chloritized and clay altered
84.45	84.60	0.15	GRD	GRDA	MG	unaltered weakly fractured granodiorite
84.60	85.50	0.90	GRD	GRDA	MG	faulted, rubbly, clay altered granodiorite
85.50	86.70	1.20	GRD	GRDA	MG	weakly fractured, weakly chloritized granodiorite
86.70	87.33	0.63	GRD	GRDA	MG	medium grained, medium grey to green weakly propylitic altered granodiorite with weak hairline stringers throughout and weak carbonte alteration on fracture surfaces
87.33	89.70	2.37	GRD	GRD	MG	medium grained mediu mgrey unaltered granodiorite
89.70	90.70	1.00	GRD	GRDM	MG	medium grained, weak to moderate propylitic altered granodiorite with 3 small 3 mm wide pyrite bearing quartz veins trending 80 TCA.
90.70	93.17	2.47	GRD	GRDA	MG	medium grained, mediu grey with patchy green, weakly propylitic altered granodiorite with weak hairline quartz carbonate stringer veinlets and two 3 mm wide pyrite bearing quartz veinlets
93.17	93.75	0.58	GRD	GRDM	MG	fin-grained, siliceous and strongly propylitic altered granodiorite with two quartz veins (~2 cm wide) that host disseminated pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
93.75	95.75	2.00	GRD	GRDA	MG	medium grained weak to trace propylitic altered granodiorite with one small 1 cm wide weak quartz carbonate vein trending 70 TCA with trace disseminated pyrite.
95.75	95.85	0.10	VEN	VEIN	FG	fine grained siliceous quartz carbonate vein with banded finegrained galena bands 1mm wide on the margin, and subhedral blebby pyrite disseminated within
95.85	96.81	0.96	GRD	GRDM	MG	medium grained strongly propylitic altered granodiorite with trace disseminated pyrite thorughout interval
96.81	96.83	0.02	VEN	VEIN	FG	fine grained white quartz carbonate vien with baded pyrite and galena, fine grained and trace. Each band is <1mm wide, and galena is on the margin of the vein and pyrite is hosted nearer to the center.
96.83	100.30	3.47	GRD	GRDM	MG	medium grained, moderate to strong propylitically altered granodiorite with weak hairline quartz carbonate stringer veinlets with trace disseminated pyrite throughout entire interval.
100.30	100.60	0.30	GRD	GRD	MG	medium grained, unaltered granodiorite
100.60	102.56	1.96	GRD	GRDA	MG	medium grained greenish grey weakly argillic altered granodiorite
102.56	104.70	2.14	GRD	GRD	MG	medium grained, unaltered granodiorite
104.70	108.62	3.92	GRD	GRDA	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Sparse quart carbonate stringer veinlets (three) throughout interval containing trace dissemianted pyrite
108.62	109.64	1.02	GRD	GRD	MG	medium grained, unaltered granodiorite
109.64	112.20	2.56	GRD	GRDA	MG	medium grained light grey to whitish greyish green weak to moderately altered granodiorite
112.20	112.90	0.70	GRD	GRDM	MG	medium to finegrained, medium green to greenish grey moederately propylitic altered granodiorite with weak clay alteration and trace disseminated pyrite within groundmass
112.90	113.90	1.00	GRD	GRDA	MG	mexium grained medium grey to greenish grey weak to moderatly altered granodiorite with weak argillic alteration
113.90	116.00	2.10	GRD	GRDA	MG	moderately argillic altered granodiorite
116.00	116.80	0.80	GRD	GRDA	MG	moderately propylitic altered granodiorite with weak disseminated trace pyrite throughout interval
116.80	117.33	0.53	GRD	GRDA	MG	moderately argillic altered granodiorite
117.33	117.63	0.30	GRD	GRDA	MG	moderately propylitic alted granodiorite with weak trace disseminted pyrite in groundmass
117.63	119.00	1.37	GRD	GRDA	MG	moderately argillic altered granodiorite
119.00	120.09	1.09	GRD	GRDM	MG	medium grained moderate to strong porpylitically altered granodiorite with weak silicified and rubbly fractured sectionshosting disseminated pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
120.09	123.50	3.41	GRD	GRDA	MG	medium grained weakl patchy argillic altered granodiorite with weak patchy propylitic alteration. Small carbonate and quartz stringer veinlets throughout interval; barren of sulfide
123.50	123.90	0.40	MAF	DYK	FG	fine grained dark grey magnetic mafic dyke with disseminated subhedral epidote and pyrite, with fine-grained black specks disseminated wtihin groundmass (hornblende?)
123.90	128.07	4.17	QFP	DYK	MG	prophyritic medium greenish grey with light whitish green chloritized and weakly clay altered feldspar grains (subangular; up to 3mm in size). Small subhedral quartz grains up to 2 mm in size are consistent thorughout dyke. Trace disseminated fine-grained pyrite occurs throughout dyke, and one 0.7 interval of dyke is heavily fractured and is moderately silicified and contains a higher proportion of disseminated pyrite.
128.07	128.80	0.73	QFP	DYK	MG	fractured, silicified interval of QFP dyke, with weak quartz carbonate veining developed throughout and a higher proprition of disseminated pyrite.
128.80	133.20	4.40	QFP	DYK	MG	prophyritic medium greenish grey with light whitish green chloritized and weakly clay altered feldspar grains (subangular; up to 3mm in size). Small subhedral quartz grains up to 2 mm in size are consistent thorughout dyke. Trace disseminated fine-grained pyrite occurs throughout dyke, and one 0.7 interval of dyke is heavily fractured and is moderately silicified and contains a higher proportion of disseminated pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overbdurden							
1.52	3.05	1.53	GRD	MG	mixture of unalterd granodiorite and overbudrne							
						MD	GY					
3.05	6.41	3.36	GRD	MG	medium grained medium grey unaltered granodiorite with weak patchy zones of trace argillic alteration related to fractures							
						MD	GY		ARG	1I		
6.41	7.86	1.45	GRD	MG	mediu grained light brown to grey clay altered moerate argillic altered granodiorite.							
						MD	BN					
						MD	GY		ARG	3I		
7.86	8.35	0.49	GRD	MG	one 3 cm wide low angle quartz vein trending 010 ATCA runs through this interval. No visible sulfides but may still hold a bit of grade. Granodiorite above and below is oderately clay altered							
									SIL	2I		
						MD	BN		ARG	3I		
						MD	GY		CLY	3I		
8.35	9.35	1.00	GRD	MG	medium grained weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	BN					
						LT	GN		PRO	1I		
						MD	GY		ARG	2I		
9.35	14.00	4.65	GRD	MG	relatively unaltered granodiorite with one small zone of propylitic alteration due to proximity to a fine-grained aplitic dyke that is 2 cm wide							
						MD	GY					
14.00	15.75	1.75	GRD	MG	medium grained weakly argillic and clay altered granodiorite, likely clay altered due to faulting.							
						LT	GY		CLY	2I		
						MD	GY		ARG	2I		
15.75	21.80	6.05	GRD	MG	medium grained medium grey unaltered granodiorite with one small interval of weak argillic alteration							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.80	22.70	0.90	GRD	MG	medium grained grey to greenish grey moderate propylitic altered granodiorite with a pyrite-bearing quartz filled fracture on the lower contact trending 25 ATC							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5
22.70	23.60	0.90	GRD	MG	medium grained light grey granodiorite							
						MD	GY					
23.60	26.00	2.40	GRD	MG	medium grained, rubbly, light whitish grey to brownish grey, faulted, rubbly granodiorite. Moderate argillic alteration							
						LT	GY		CLY	2I		
						LT	WH		ARG	3I	Py	0.5
26.00	28.00	2.00	GRD	MG	medium grained mediume grey to greenish grey trace proplytic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
28.00	28.50	0.50	GRD	MG	medium grained medium grey to brown low angle faulted granodiorite. Unaltered. Fault rtace runs 00 ATCA and is undulating between +10 - 10 ATCA							
						MD	GY					
28.50	42.50	14.00	GRD	MG	medium grained medium grey unaltered granodiorite with patchy zones up to 40 cm wide of weak to trace propylitic alteration and weak hairline stringer quartz carbonate veinlets with trace disseminated pyrite.							
						MD	GY					
42.50	44.75	2.25	GRD	MG	medium grained ligh grey to medium grey, greyish green weakly argillic altered grnodiorite with a weak propylitic overprint.							
						LT	GY		ARG	2I		
						MD	GN					
						MD	GY		PRO	2I		
44.75	45.23	0.48	GRD	MG	fine-grained, heavily silicified medium grey to sooty grey with orangish brown bands, mineralized granodiorite with two quartz carbonate veinlets developed 80 ATCA with sphalerite and galena. Disseminated pyrite throughout interval.							
						MD	BN		SIL	3I	Sp	0.5
											Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I	Py	1
45.23	45.68	0.45	VEN	MG	Siliceous banded quartz carbonate vein, with area of weak brecciation related to carbonate infill of original quartz vein. Blebby white to medium sooty grey patches, milky white oxdizied sectinos are likely iron carbonate. Dissemianted blebby to subhedral banded pyrite thorughout interval, as well as weak bands of fine-grained sphalerite and galena. Bladed pyrite suggesets post-mineralization infilling in microfractures. Trace chalcopyrite found near pyrite; rare.							
											Ca	0.25
						LT	GY				Py	2
						LT	WH		SIL	5I	Gn	1
						LT	BN				Sp	1
											Py	0.1
45.68	46.00	0.32	GRD	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval, as well as one small 1 cm wide mienralized veinlet with trace sphalerite and galena.							
						MD	GY		SIL	2I	Gn	0.1
						MD	GN		PRO	4I	Sp	0.1
											Py	1
46.00	48.33	2.33	GRD	MG	strongly propylitic altered medium greenish grey granodiorite with disseminated pyrite throughout interval							
						MD	GY		PRO	3I		
						MD	GN					
48.33	48.60	0.27	VEN	MG	medium grained quartz vein; glassy white to milky white with sooty grey patches. Milky white veinlets in quartz vein are carbonate veinlets. Subhedral blebby bands of pyrite, galena, and sphalerite are present throughout entire interval (the most intense being from 48.33 to 48.50 - from 48.50 to 48.60 is mostly siliceous with pyrite).							
						LT	WH				Py	4
											Gn	2
											Py	0.5
						LT	GY		SIL	5I	Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
48.60	49.64	1.04	GRD	MG	weakly propylitic alterd granodiorite grading into unaltered granodiorite 50 cm from the vein above it.							
						MD	GN		PRO	2I		
						MD	GY					
49.64	49.68	0.04	APL	FG	fine-grained pinkish brown aplite dyke							
						LT	PK					
						MD	BN					
49.68	50.17	0.49	GRD	MG	trace propylitically altered granodiorite							
						MD	GY					
						LT	GN		PRO	1I		
50.17	50.29	0.12	APL	FG	finegrained pinkish brown aplite dyke							
50.29	52.77	2.48	GRD	MG	trace propylitic altered granodiorite.							
						MD	GN					
						MD	GY		PRO	1I		
52.77	53.07	0.30	GRD	MG	mineralized granodiorite with trace disseminated pyrite and one 1 cm wide galena, sphalerite, pyrite bearing quart vein trending 80 TCA							
53.07	54.70	1.63	GRD	MG	weak to moderately propylitic altered granodiorite with two intervals that contains pyrite +- galena qurtz veins 2 cm wide. These zones have moderate to strong propylitic alteration haloes that extend 20 cm to either side of the sulfide veins.							
54.70	66.00	11.30	GRD	MG	relatively unaltered medium grey granodiorite with weak patches of propylitic alteration and weak patches of argillic alteration being overprinted by weak to trace propylitic alteration. The majority of this interval is unaltered granodiorite							
						MD	GY		ARG	0I		
									PRO	1I		
66.00	68.40	2.40	GRD	MG	moderate propyltiic altered granodiorite; medium greenish grey, with weak hairline tourmaline stringer veinlets throughout interval, as well as one blebby patch of disseminated tourmaline. Weak disseminated pyrite-bearing hairline veinlets are rare within interval (<3).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY				To	0.5
						MD	GN		PRO	4I	Py	0.25
68.40	69.80	1.40	GRD	MG	Strongly clay altered, bleached light white to greenish white granodiorite with disseminated pyrite in clay rich sections of interval. Sharp upper contact with strongly propylitic altered granodiorite above trending 60 TCA							
						LT	WH		ARG	4I	Py	0.5
						LT	GN		CLY	5I		
						LT	GY		PRO	1I		
69.80	73.25	3.45	GRD	MG	medium grained, light greyish green to light white moderately argillic altered granodiorite with a weak propylitic overprint.							
						LT	GN		CLY	1I		
						LT	GY		PRO	2I		
						LT	WH		ARG	3I		
73.25	73.52	0.27	VEN	FG	set of 7 tightly spaced quartz carbonate veinlets all trending 70 TCA. Essentially a siliceous quartz vein for this entire interval. Veins contain disseminated pyrite, galena, and sphalerite. Wallrock here is silicified and intensely propylitically altered granodiorite.							
						LT	GN				Gn	0.5
						LT	WH		SIL	4I	Py	1.5
						LT	GY		PRO	5I	Sp	0.5
73.52	76.00	2.48	GRD	MG	medium grained medium grey with patchy green, weakly propylitic altered granodiorite with hairline veinlets with trace propylitic alteration haloes							
						MD	GN		PRO	2I		
						MD	GY					
76.00	77.18	1.18	GRD	MG	medium grained light whiteish green to greenish grey argilic altered granodiorite with a trace propylitic overprint.							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
77.18	80.50	3.32	GRD	MG	medium grained medium grey sproadically trace propylitic altered granodiorite (related to hariline stringer veinlets 80 TCA with trace propylitic alteration haloes). This interval is mostly unaltered granodiorite.							
						MD	GY		PRO	0I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.50	86.70	6.20	GRD	MG	medium grained, medium grey to green, rubbly, fractured, clay altered granodiorite. Hematite and chlorite/carbonate alteration along fracture surfaces. Very rubbly interval from 81 to 82.60 likely related to faulting. Alternating intervals of rubbly fractured granodiorite and competent unaltered granodiorite.							
86.70	87.33	0.63	GRD	MG	medium grained, medium grey to green weakly propylitic altered granodiorite with weak hairline stringers throughout and weak carbonte alteration on fracture surfaces							
						MD	GY		PRO	2I		
						MD	GN					
87.33	89.70	2.37	GRD	MG	medium grained mediu mgrey unaltered granodiorite							
						MD	GY					
89.70	90.70	1.00	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with 3 small 3 mm wide pyrite bearing quartz veins trending 80 TCA.							
						MD	GY		PRO	2I	Py	0.5
						MD	GN					
90.70	93.17	2.47	GRD	MG	medium grained, mediu grey with patchy green, weakly propylitic altered granodiorite with weak hairline quartz carbonate stringer veinlets and two 3 mm wide pyrite bearing quartz veinlets							
						MD	GN					
						MD	GY		PRO	2I	Py	0.5
93.17	93.75	0.58	GRD	MG	fin-grained, siliceous and strongly propylitic altered granodiorite with two quartz veins (~2 cm wide) that host disseminated pyrite.							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	4I		
93.75	95.75	2.00	GRD	MG	medium grained weak to trace propylitic altered granodiorite with one small 1 cm wide weak quartz carbonate vein trending 70 TCA with trace disseminated pyrite.							
						MD	GY					
						MD	GN					
95.75	95.85	0.10	VEN	FG	fine grained siliceous quartz carbonate vein with banded finegrained galena bands 1mm wide on the margin, and subhedral blebby pyrite disseminated within							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH				Gn	0.25
						MD	GY				Py	1
95.85	96.81	0.96	GRD	MG	medium grained strongly propylitic altered granodiorite with trace disseminated pyrite thorughout interval							
						MD	GN		PRO	3I	Py	0.2
						MD	GY					
96.81	96.83	0.02	VEN	FG	fine grained white quartz carbonate vien with baded pyrite and galena, fine grained and trace. Each band is <1mm wide, and galena is on the margin of the vein and pyrite is hosted nearer to the center.							
						MD	GY		SIL	4I	Gn	0.5
						MD	WH				Py	1
96.83	100.30	3.47	GRD	MG	medium grained, moderate to strong propylitically altered granodiorite with weak hairline quartz carbonate stringer veinlets with trace disseminated pyrite throughout entire interval.							
						LT	WH					
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
100.30	100.60	0.30	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
100.60	102.56	1.96	GRD	MG	medium grained greenish grey weakly argillic altered granodiorite							
						MD	GN					
						MD	GY					
102.56	104.70	2.14	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
104.70	108.62	3.92	GRD	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Sparse quart carbonate stringer veinlets (three) throughout interval containing trace dissemianted pyrite							
						MD	GN		PRO	2I	Py	0.2
						MD	GY		ARG	2I		
108.62	109.64	1.02	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.64	112.20	2.56	GRD	MG	medium grained light grey to whitish greyish green weak to moderately altered granodiorite							
						MD	GN					
						LT	WH		ARG	3I		
						MD	GY					
112.20	112.90	0.70	GRD	MG	medium to finegrained, medium green to greenish grey moederately propylitic altered granodiorite with weak clay alteration and trace disseminated pyrite within groundmass							
									SIL	1I		
						MD	GY		PRO	3I		
						MD	GN		CLY	2I	Py	0.5
112.90	113.90	1.00	GRD	MG	mexium grained medium grey to greenish grey weak to moderatly altered granodiorite with weak argillic alteration							
						MD	GN		PRO	2I		
						MD	GY		ARG	1I		
113.90	119.00	5.10	GRD	MG	medium grained, medium green to greyish alternating patches of weakly argillic altered and wekaly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
119.00	120.09	1.09	GRD	MG	medium grained moderate to strong porpylitically altered granodiorite with weak silicified and rubbly fractured sectionshosting disseminated pyrite.							
						MD	GN		PRO	3I	Py	0.25
						MD	GY					
120.09	123.50	3.41	GRD	MG	medium grained weakl patchy argillic altered granodiorite with weak patchy propylitic alteration. Small carbonate and quartz stringer veinlets throughout interval; barren of sulfide							
						MD	GY		PRO	1I		
						MD	GN		ARG	1I		
123.50	123.90	0.40	MAF	FG	fine grained dark grey magnetic mafic dyke with disseminated subhedral epidote and pyrite, with fine-grained black specks disseminated wtihin groundmass (hornblende?)							
						DK	GY				Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.90	133.20	9.30	QFP	MG	prophyritic medium greenish grey with light whitish green chloritized and weakly clay altered feldspar grains (subangular; up to 3mm in size). Small subhedral quartz grains up to 2 mm in size are consistent thorughout dyke. Trace disseminated fine-grained pyrite occurs throughout dyke, and one 0.7 interval of dyke is heavily fractured and is moderately silicified and contains a higher proportion of disseminated pyrite.							
						MD	GY					
						LT	GN		CHL	2I	Py	0.25

KL -19-442

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.65	43	0.00	0	--	1H	6W	
1.52	3.05	1.53	0.85	56	0.15	10	--	2H	4W	
3.05	6.10	3.05	2.92	96	1.05	34	--	3H	2W	
6.10	9.14	3.04	2.97	98	1.00	33	--	2H	3W	
9.14	11.89	2.75	2.73	99	1.50	55	--	3H	2W	
11.89	14.94	3.05	2.86	94	0.93	30	--	3H	2W	
14.94	17.07	2.13	2.05	96	1.91	90	--	3H	1W	
17.07	19.81	2.74	2.49	91	1.76	64	--	4H	1W	
19.81	22.86	3.05	3.05	100	2.62	86	--	4H	1W	
22.86	25.91	3.05	2.76	90	0.71	23	--	3H	2W	
25.91	28.96	3.05	2.89	95	1.88	62	--	3H	2W	20cm, TAC 60cm, 2,2 1a, OX, <1mm & 30cm, TAC 70, 2,2, 1a, OX .5mm
28.96	32.00	3.04	2.92	96	2.06	68	--	4H	1W	30cm, TAC 60, 2,2,1A, OX, <1mm & 40cm, TAC 30, 2,3,1a, OX, 1mm
32.00	34.44	2.44	2.31	95	1.78	73	--	4H	1W	35cm, TAC 70, 2,2, 1a, OX, <1mm
34.44	37.49	3.05	2.91	95	1.97	65	--	4H	1W	
37.49	39.32	1.83	1.47	80	0.93	51	--	4H	1W	
39.32	42.37	3.05	2.99	98	1.64	54	--	4H	1W	
42.37	45.42	3.05	2.88	94	1.81	59	--	3H	2W	
45.42	48.46	3.04	2.91	96	1.90	63	--	3H	1W	
48.46	50.29	1.83	1.63	89	1.33	73	--	4H	1W	
50.29	52.73	2.44	2.4	98	1.84	75	--	4H	1W	
52.73	55.78	3.05	2.89	95	2.17	71	--	4H	1W	
55.78	58.83	3.05	3.05	100	2.63	86	--	4H	1W	
58.83	61.26	2.43	1.21	50	0.67	28	--	4H	1W	
61.26	62.48	1.22	1.14	93	0.65	53	--	4H	1W	
62.48	64.62	2.14	2.13	100	1.07	50	--	4H	1W	
64.62	67.36	2.74	2.52	92	1.23	45	--	4H	1W	
67.36	69.80	2.44	2.4	98	1.05	43	--	3H	1W	
69.80	71.32	1.52	1.37	90	0.71	47	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
71.32	73.15	1.83	1.75	96	0.47	26	--	3H	1W	
73.15	75.59	2.44	2.3	94	1.64	67	--	3H	1W	
75.59	77.11	1.52	1.35	89	0.24	16	--	3H	1W	
77.11	78.64	1.53	1.4	92	0.49	32	--	3H	1W	
78.64	81.69	3.05	2.88	94	1.53	50	--	3H	1W	
81.69	84.12	2.43	2.07	85	0.35	14	--	3H	1W	
84.12	86.56	2.44	2.41	99	0.57	23	--	3H	1W	
86.56	89.61	3.05	3.04	100	1.70	56	--	4H	1W	
89.61	91.44	1.83	1.29	70	0.54	30	--	3H	1W	
91.44	92.96	1.52	1.48	97	1.03	68	--	4H	1W	
92.96	96.01	3.05	2.61	86	1.12	37	--	3H	1W	
96.01	99.06	3.05	2.98	98	1.54	50	--	3H	1W	
99.06	102.11	3.05	2.96	97	2.05	67	--	4H	1W	
102.11	103.63	1.52	1.52	100	1.31	86	--	4H	1W	
103.63	106.68	3.05	3.02	99	2.21	72	--	3H	1W	
106.68	108.20	1.52	1.48	97	1.28	84	--	3H	1W	
108.20	111.25	3.05	2.96	97	2.54	83	--	4H	1W	
111.25	114.30	3.05	3.05	100	1.60	52	--	3H	1W	
114.30	117.35	3.05	2.78	91	2.02	66	--	3H	1W	
117.35	120.09	2.74	2.65	97	1.35	49	--	3H	1W	
120.09	121.92	1.83	1.81	99	1.44	79	--	3H	1W	
121.92	124.36	2.44	2.41	99	1.83	75	--	3H	1W	
124.36	126.49	2.13	1.92	90	1.07	50	--	3H	1W	
126.49	129.54	3.05	2.95	97	2.21	72	--	3H	1W	
129.54	132.59	3.05	2.92	96	2.20	72	--	3H	1W	
132.59	133.20	0.61	0.47	77	0.45	74	--	3H	1W	

KL -19-442

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0	GRD	
3	18.7	GRD	
4	10.59	GRD	
5	17.01	GRD	
6	17.22	GRD	
7	0.318	GRD	
8	0.114	GRD	
9	0.624	GRD	
10	21.1	GRD	
11	37.29	GRD	
12	21.34	GRD	
13	2.741	GRD	
14	7.6	GRD	
14	7.6	GRD	
15	0	GRD	
16	22.55	GRD	
17	15.25	GRD	
18	16.14	GRD	
19	18.05	GRD	
20	19.17	GRD	
21	19.61	GRD	
22	0.463	GRD	
23	0.353	GRD	
24	0.663	GRD	
25	0	GRD	
26	21.12	GRD	
26	21.12	GRD	
27	19.09	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	11.7	GRD	
28	11.7	GRD	
29	16.36	GRD	
30	17.82	GRD	
31	19.66	GRD	
32	20.35	GRD	
33	0.68	GRD	
34	11.12	GRD	
35	21.79	GRD	
36	30.68	GRD	
37	15.96	GRD	
38	0.547	GRD	
39	4.395	GRD	
40	20.28	GRD	
41	17.32	GRD	
42	19.63	GRD	
43	1.299	GRD	
44	0.962	GRD	
45	0.175	GRD	
46	0.395	GRD	
46	0.395	GRD	
47	0.804	GRD	
48	0.283	GRD	
49	8.233	GRD	
50	0.957	GRD	
51	15.95	GRD	
52	17.54	GRD	
53	0.547	GRD	
54	0.613	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	17.18	GRD	
56	20.82	GRD	
57	20.01	GRD	
58	17.08	GRD	
59	17.15	GRD	
60	1.452	GRD	
61	0.691	GRD	
62	17.58	GRD	
63	7.957	GRD	
64	22.72	GRD	
65	3.842	GRD	
66	0.446	GRD	
66	0.446	GRD	
67	0.38	GRD	
68	0.657	GRD	
69	0.271	GRD	
70	0.272	GRD	
71	0.376	GRD	
72	0.266	GRD	
73	0.564	GRD	
74	0.52	GRD	
75	5.949	GRD	
76	0.378	GRD	
76	0.378	GRD	
77	16.9	GRD	
78	11.94	GRD	
79	20.38	GRD	
80	18.21	GRD	
81	0	GRD	
82	11.31	GRD	
83	21.09	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
84	20.9	GRD	
85	22.43	GRD	
86	19.64	GRD	
87	17.41	GRD	
88	15.41	GRD	
89	22.76	GRD	
90	0.645	GRD	
91	0.99	GRD	
92	16.97	GRD	
93	11.22	GRD	
94	11.23	GRD	
95	1.935	GRD	
96	0.552	GRD	
97	0.358	GRD	
98	0.353	GRD	
99	0.24	GRD	
100	0.6	GRD	
101	9.815	GRD	
102	0.814	GRD	
103	22.88	GRD	
104	22.18	GRD	
105	8.601	GRD	
106	0.645	GRD	
107	0.638	GRD	
108	1.124	GRD	
109	14.45	GRD	
110	1.659	GRD	
111	0.526	GRD	
112	1.914	GRD	
113	0.349	GRD	
114	19.58	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
115	2.206	GRD	
116	0.323	GRD	
117	0.362	GRD	
118	0.543	GRD	
119	0.368	GRD	
119	0.368	GRD	
120	0.707	GRD	
121	0.525	GRD	
122	1.271	GRD	
123	20.14	GRD	
124	2.473	QFP	
125	0.388	QFP	
126	0.391	QFP	
127	0.324	QFP	
128	0.326	QFP	
129	0.203	QFP	
130	0.415	QFP	
131	0.474	QFP	
132	0.278	QFP	
133	0.254	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-442

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593275	☐	19-035	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W604495	☐	19-028	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593152	☐	19-028	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593286	☐	19-037	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593260	☐	19-035	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593247	☐	19-035	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593232	☐	19-034	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593215	☐	19-034	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593208	☐	19-034	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593194	☐	19-030	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593176	☐	19-030	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593167	☐	19-030	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593291	☐	19-037	low grade	ME-6	☐	☐	☐
3.00	4.50	1.50	GRD	1.41	94	W604493	☐	19-028	low grade		☐	☐	☐
4.50	5.75	1.25	GRD	1.23	98	W604494	☐	19-028	low grade		☐	☐	☐
5.75	6.27	0.52	GRD	0.50	96	W604496	☐	19-028	low grade		☐	☐	☐
6.27	6.77	0.50	GRD	0.50	100	W604497	☐	19-028	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
6.77	7.62	0.85	GRD	0.81	95	W604498	☐	19-028	low grade		☐	☐	☐
7.62	8.33	0.71	GRD	0.70	99	W604499	☐	19-028	low grade		☐	☐	☐
8.33	9.83	1.50	GRD	1.50	100	W604500	☐	19-028	low grade		☐	☐	☐
9.83	11.33	1.50	GRD	1.48	99	W593151	☐	19-028	low grade		☐	☐	☐
11.33	12.50	1.17	GRD	1.15	98	W593153	☐	19-028	low grade		☐	☐	☐
12.50	14.00	1.50	GRD	1.45	97	W593154	☐	19-028	low grade		☐	☐	☐
14.00	15.00	1.00	GRD, GRD	0.94	94	W593155	☐	19-028	low grade		☐	☐	☐
15.00	16.00	1.00	GRD	1.00	100	W593156	☐	19-028	low grade		☐	☐	☐
16.00	17.50	1.50	GRD	1.48	99	W593157	☐	19-028	low grade		☐	☐	☐
17.50	19.00	1.50	GRD	1.50	100	W593158	☐	19-028	low grade		☐	☐	☐
19.00	20.50	1.50	GRD	1.48	99	W593159	☐	19-028	low grade		☐	☐	☐
20.50	21.80	1.30	GRD	1.28	98	W593160	☐	19-030	low grade		☐	☐	☐
21.80	22.40	0.60	GRD, GRD	0.58	97	W593161	☐	19-030	low grade		☐	☐	☐
22.40	22.86	0.46	GRD	0.46	100	W593162	☐	19-030	low grade		☐	☐	☐
22.86	23.54	0.68	GRD	0.66	97	W593163	☐	19-030	low grade		☐	☐	☐
23.54	24.50	0.96	GRD	0.93	97	W593164	☐	19-030	low grade		☐	☐	☐
24.50	25.28	0.78	GRD	0.70	90	W593165	☐	19-030	low grade		☐	☐	☐
25.28	25.91	0.63	GRD	0.55	87	W593166	☐	19-030	low grade		☐	☐	☐
25.91	27.41	1.50	GRD	1.45	97	W593168	☐	19-030	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
27.41	28.91	1.50	GRD	1.47	98	W593169	☐	19-030	low grade		☐	☐	☐
28.91	30.41	1.50	GRD	1.48	99	W593170	☐	19-030	low grade		☐	☐	☐
30.41	31.91	1.50	GRD	1.49	99	W593171	☐	19-030	low grade		☐	☐	☐
31.91	33.41	1.50	GRD	1.50	100	W593172	☐	19-030	low grade		☐	☐	☐
33.41	34.50	1.09	GRD	1.09	100	W593173	☐	19-030	low grade		☐	☐	☐
34.50	35.50	1.00	GRD	1.00	100	W593174	☐	19-030	low grade		☐	☐	☐
35.50	36.50	1.00	GRD	1.00	100	W593175	☐	19-030	low grade		☐	☐	☐
36.50	37.50	1.00	GRD	1.00	100	W593177	☐	19-030	low grade		☐	☐	☐
37.50	38.50	1.00	GRD	1.00	100	W593178	☐	19-030	low grade		☐	☐	☐
38.50	39.50	1.00	GRD	0.99	99	W593179	☐	19-030	low grade		☐	☐	☐
39.50	41.00	1.50	GRD	1.50	100	W593324	☐	19-030	low grade		☐	☐	☐
41.00	42.50	1.50	GRD	1.50	100	W593181	☐	19-030	low grade		☐	☐	☐
42.50	44.00	1.50	GRD, GRD	1.50	100	W593182	☐	19-030	low grade		☐	☐	☐
42.50	44.00	1.50	GRD, GRD	1.50	100	W593183	☐	19-030	low grade		☐	☑	☐
44.00	44.67	0.67	GRD	0.65	97	W593184	☐	19-030	low grade		☐	☐	☐
44.67	45.29	0.62	GRD	0.60	97	W593185	☐	19-030	low grade		☐	☐	☐
45.29	45.68	0.39	VEN	0.39	100	W599161	☐	19-006	High grade		☐	☐	☐
45.68	45.98	0.30	GRD, VEN	0.30	100	W593186	☐	19-030	low grade		☐	☐	☐
45.98	47.00	1.02	GRD	1.01	99	W593187	☐	19-030	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
47.00	47.82	0.82	GRD	0.81	99	W593188	☐	19-030	low grade		☐	☐	☐
47.00	47.82	0.82	GRD	0.81	99	W593189	☐	19-030	low grade		☐	☑	☐
47.82	48.33	0.51	GRD	0.48	94	W593190	☐	19-030	low grade		☐	☐	☐
48.33	48.64	0.31	VEN, GRD	0.29	94	W599162	☐	19-006	High grade		☐	☐	☐
48.64	48.94	0.30	GRD	0.30	100	W593191	☐	19-030	low grade		☐	☐	☐
48.94	50.00	1.06	GRD	1.06	100	W593192	☐	19-030	low grade		☐	☐	☐
50.00	51.50	1.50	GRD	1.50	100	W593193	☐	19-030	low grade		☐	☐	☐
51.50	52.77	1.27	GRD	1.27	100	W593195	☐	19-030	low grade		☐	☐	☐
52.77	53.07	0.30	GRD, GRD	0.29	97	W593196	☐	19-030	low grade		☐	☐	☐
53.07	53.63	0.56	GRD, GRD	0.56	100	W593197	☐	19-030	low grade		☐	☐	☐
53.63	53.93	0.30	GRD	0.30	100	W593198	☐	19-030	low grade		☐	☐	☐
53.93	54.40	0.47	GRD	0.46	98	W593199	☐	19-030	low grade		☐	☐	☐
54.40	54.70	0.30	GRD	0.30	100	W593200	☐	19-034	low grade		☐	☐	☐
54.70	55.70	1.00	GRD, GRD	1.00	100	W593201	☐	19-034	low grade		☐	☐	☐
55.70	57.20	1.50	GRD	1.50	100	W593202	☐	19-034	low grade		☐	☐	☐
57.20	58.20	1.00	GRD	1.00	100	W593203	☐	19-034	low grade		☐	☐	☐
58.20	59.60	1.40	GRD	1.40	100	W593204	☐	19-034	low grade		☐	☐	☐
59.60	60.75	1.15	GRD	1.15	100	W593205	☐	19-034	low grade		☐	☐	☐
60.75	61.40	0.65	GRD	0.65	100	W593206	☐	19-034	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
61.40	62.50	1.10	GRD	1.10	100	W593207	☐	19-034	low grade		☐	☐	☐
62.50	64.00	1.50	GRD	1.50	100	W593209	☐	19-034	low grade		☐	☐	☐
64.00	65.50	1.50	GRD	1.42	95	W593210	☐	19-034	low grade		☐	☐	☐
65.50	66.27	0.77	GRD	0.73	95	W593211	☐	19-034	low grade		☐	☐	☐
66.27	66.95	0.68	GRD	0.66	97	W593212	☐	19-034	low grade		☐	☐	☐
66.95	67.50	0.55	GRD	0.45	82	W593213	☐	19-034	low grade		☐	☐	☐
67.50	68.40	0.90	GRD	0.90	100	W593214	☐	19-034	low grade		☐	☐	☐
68.40	69.10	0.70	GRD, GRD	0.70	100	W593216	☐	19-034	low grade		☐	☐	☐
69.10	69.75	0.65	GRD	0.60	92	W593217	☐	19-034	low grade		☐	☐	☐
69.75	70.16	0.41	GRD	0.40	98	W593218	☐	19-034	low grade		☐	☐	☐
70.16	70.46	0.30	GRD	0.30	100	W593219	☐	19-034	low grade		☐	☐	☐
70.16	70.46	0.30	GRD	0.30	100	W593220	☐	19-034	low grade		☐	☑	☐
70.46	70.80	0.34	GRD	0.33	97	W593221	☐	19-034	low grade		☐	☐	☐
70.80	71.50	0.70	GRD	0.70	100	W593222	☐	19-034	low grade		☐	☐	☐
71.50	71.91	0.41	GRD	0.40	98	W593223	☐	19-034	low grade		☐	☐	☐
71.91	73.25	1.34	GRD	1.30	97	W593224	☐	19-034	low grade		☐	☐	☐
73.25	73.61	0.36	GRD, VEN	0.34	94	W599163	☐	19-006	High grade		☐	☐	☐
73.61	74.61	1.00	GRD	1.00	100	W593225	☐	19-034	low grade		☐	☐	☐
74.61	75.80	1.19	GRD	1.19	100	W593226	☐	19-034	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
74.61	75.80	1.19	GRD	1.19	100	W593227	☐	19-034	low grade		☐	☐	☑
75.80	76.23	0.43	GRD	0.40	93	W593228	☐	19-034	low grade		☐	☐	☐
76.23	76.60	0.37	GRD	0.36	97	W593229	☐	19-034	low grade		☐	☐	☐
76.60	77.15	0.55	GRD	0.55	100	W593230	☐	19-034	low grade		☐	☐	☐
77.15	78.14	0.99	GRD	0.95	96	W593231	☐	19-034	low grade		☐	☐	☐
78.14	79.60	1.46	GRD	1.45	99	W593233	☐	19-034	low grade		☐	☐	☐
79.60	80.59	0.99	GRD	0.95	96	W593234	☐	19-034	low grade		☐	☐	☐
80.59	80.89	0.30	GRD	0.30	100	W593235	☐	19-034	low grade		☐	☐	☐
80.89	82.00	1.11	GRD	1.10	99	W593236	☐	19-034	low grade		☐	☐	☐
82.00	82.65	0.65	GRD	0.60	92	W593237	☐	19-034	low grade		☐	☐	☐
82.65	83.55	0.90	GRD	0.90	100	W593238	☐	19-034	low grade		☐	☐	☐
83.55	84.63	1.08	GRD	1.07	99	W593239	☐	19-034	low grade		☐	☐	☐
84.63	86.00	1.37	GRD	1.37	100	W593240	☐	19-035	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W593241	☐	19-035	low grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.50	100	W593242	☐	19-035	low grade		☐	☐	☐
89.00	90.00	1.00	GRD	1.00	100	W593243	☐	19-035	low grade		☐	☐	☐
90.00	90.35	0.35	GRD	0.34	97	W593244	☐	19-035	low grade		☐	☐	☐
90.35	91.60	1.25	GRD	1.25	100	W593245	☐	19-035	low grade		☐	☐	☐
91.60	91.90	0.30	GRD	0.30	100	W593246	☐	19-035	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
91.90	92.50	0.60	GRD	0.60	100	W593248	☐	19-035	low grade		☐	☐	☐
92.50	92.85	0.35	GRD	0.35	100	W593249	☐	19-035	low grade		☐	☐	☐
92.85	93.34	0.49	GRD	0.48	98	W593250	☐	19-035	low grade		☐	☐	☐
93.34	93.75	0.41	GRD	0.40	98	W593251	☐	19-035	low grade		☐	☐	☐
93.75	94.75	1.00	GRD, GRD	1.00	100	W593252	☐	19-035	low grade		☐	☐	☐
93.75	94.75	1.00	GRD, GRD	1.00	100	W593253	☐	19-035	low grade		☐	☑	☐
94.75	95.75	1.00	GRD	1.00	100	W593254	☐	19-035	low grade		☐	☐	☐
95.75	96.05	0.30	VEN, GRD	0.28	93	W593255	☐	19-035	low grade		☐	☐	☐
96.05	96.78	0.73	GRD	0.70	96	W593256	☐	19-035	low grade		☐	☐	☐
96.78	97.08	0.30	GRD	0.30	100	W593257	☐	19-035	low grade		☐	☐	☐
97.08	97.65	0.57	GRD	0.55	96	W593258	☐	19-035	low grade		☐	☐	☐
97.65	98.58	0.93	GRD	0.90	97	W593259	☐	19-035	low grade		☐	☐	☐
98.58	99.30	0.72	GRD	0.70	97	W593261	☐	19-035	low grade		☐	☐	☐
99.30	100.30	1.00	GRD	1.00	100	W593262	☐	19-035	low grade		☐	☐	☐
100.30	101.70	1.40	GRD, GRD	1.40	100	W593263	☐	19-035	low grade		☐	☐	☐
101.70	103.20	1.50	GRD	1.50	100	W593264	☐	19-035	low grade		☐	☐	☐
103.20	104.70	1.50	GRD	1.50	100	W593265	☐	19-035	low grade		☐	☐	☐
103.20	104.70	1.50	GRD	1.50	100	W593266	☐	19-035	low grade		☐	☐	☑
104.70	105.76	1.06	GRD, GRD	1.05	99	W593267	☐	19-035	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
105.76	106.68	0.92	GRD	0.90	98	W593268	☐	19-035	low grade		☐	☐	☐
106.68	107.75	1.07	GRD	1.07	100	W593269	☐	19-035	low grade		☐	☐	☐
107.75	108.62	0.87	GRD	0.87	100	W593270	☐	19-035	low grade		☐	☐	☐
108.62	110.12	1.50	GRD, GRD	1.50	100	W593271	☐	19-035	low grade		☐	☐	☐
110.12	111.62	1.50	GRD	1.50	100	W593272	☐	19-035	low grade		☐	☐	☐
111.62	112.20	0.58	GRD	0.58	100	W593273	☐	19-035	low grade		☐	☐	☐
112.20	112.90	0.70	GRD, GRD	0.70	100	W593274	☐	19-035	low grade		☐	☐	☐
112.90	113.90	1.00	GRD, GRD	1.00	100	W593276	☐	19-035	low grade		☐	☐	☐
113.90	115.37	1.47	GRD, GRD	1.47	100	W593277	☐	19-035	low grade		☐	☐	☐
115.37	116.21	0.84	GRD	0.83	99	W593278	☐	19-035	low grade		☐	☐	☐
116.21	116.73	0.52	GRD	0.50	96	W593279	☐	19-035	low grade		☐	☐	☐
116.73	117.33	0.60	GRD	0.60	100	W593280	☐	19-037	low grade		☐	☐	☐
117.33	117.63	0.30	GRD	0.30	100	W593281	☐	19-037	low grade		☐	☐	☐
117.63	118.50	0.87	GRD	0.87	100	W593282	☐	19-037	low grade		☐	☐	☐
118.50	119.50	1.00	GRD	1.00	100	W593283	☐	19-037	low grade		☐	☐	☐
119.50	120.08	0.58	GRD	0.58	100	W593284	☐	19-037	low grade		☐	☐	☐
120.08	120.78	0.70	GRD	0.70	100	W593285	☐	19-037	low grade		☐	☐	☐
120.78	122.28	1.50	GRD	1.50	100	W593287	☐	19-037	low grade		☐	☐	☐
122.28	123.50	1.22	GRD	1.20	98	W593288	☐	19-037	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
123.50	123.90	0.40	MAF, GRD	0.40	100	W593289	☐	19-037	low grade		☐	☐	☐
123.90	125.40	1.50	MAF, QFP	1.50	100	W593290	☐	19-037	low grade		☐	☐	☐
125.40	126.90	1.50	QFP	1.50	100	W593292	☐	19-037	low grade		☐	☐	☐
126.90	128.00	1.10	QFP	1.10	100	W593293	☐	19-037	low grade		☐	☐	☐
128.00	128.75	0.75	QFP	0.75	100	W593294	☐	19-037	low grade		☐	☐	☐
128.75	129.75	1.00	QFP	0.98	98	W593295	☐	19-037	low grade		☐	☐	☐
129.75	131.25	1.50	QFP	1.50	100	W593296	☐	19-037	low grade		☐	☐	☐
131.25	132.50	1.25	QFP	0.75	60	W593297	☐	19-037	low grade		☐	☐	☐
131.25	132.50	1.25	QFP	0.75	60	W593298	☐	19-037	low grade		☐	☐	☑
132.50	133.20	0.70	QFP	0.70	100	W593299	☐	19-037	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-030	W593167	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-030	W593176	0.00	0.00	1.69	450	☐	☐	☐	☑ KL-STD6	STD KL-6
19-030	W593194	0.00	0.00	0.27	600	☐	☐	☐	☑ ME-6	STD ME-6
19-034	W593208	0.00	0.00	1.71	1160	☐	☐	☐	☑ KL-STD6	KL-6
19-034	W593215	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-034	W593232	0.00	0.00	0.27	540	☐	☐	☐	☑ ME-6	ME-6
19-028	W604495	0.00	0.00	0.27	630	☐	☐	☐	☑ ME-6	Standard ME-6
19-028	W593152	0.00	0.00	1.74	500	☐	☐	☐	☑ KL-STD6	STD - KL6
19-037	W593286	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-037	W593291	0.00	0.00	0.30	500	☐	☐	☐	☑ ME-6	ME-6 STD
19-035	W593247	0.00	0.00	0.00	40	☐	☐	☑	☐	BLANK
19-035	W593260	0.00	0.00	0.26	360	☐	☐	☐	☑ ME-6	ME-6
19-035	W593275	0.00	0.00	0.26	310	☐	☐	☐	☑ ME-6	ME-6
19-028	W604493	3.00	4.50	0.01	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-028	W604494	4.50	5.75	0.00	2570	☐	☐	☐	☐	
19-028	W604496	5.75	6.27	0.00	2510	☐	☐	☐	☐	
19-028	W604497	6.27	6.77	0.20	2180	☐	☐	☐	☐	
19-028	W604498	6.77	7.62	0.01	1390	☐	☐	☐	☐	
19-028	W604499	7.62	8.33	0.49	1050	☐	☐	☐	☐	
19-028	W604500	8.33	9.83	0.01	1570	☐	☐	☐	☐	
19-028	W593151	9.83	11.33	0.01	2220	☐	☐	☐	☐	
19-028	W593153	11.33	12.50	0.00	2140	☐	☐	☐	☐	
19-028	W593154	12.50	14.00	0.00	1950	☐	☐	☐	☐	
19-028	W593155	14.00	15.00	0.00	2130	☐	☐	☐	☐	
19-028	W593156	15.00	16.00	0.00	2200	☐	☐	☐	☐	
19-028	W593157	16.00	17.50	0.00	2180	☐	☐	☐	☐	
19-028	W593158	17.50	19.00	0.00	2450	☐	☐	☐	☐	
19-028	W593159	19.00	20.50	0.00	2330	☐	☐	☐	☐	
19-030	W593160	20.50	21.80	0.00	2420	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-030	W593161	21.80	22.40	0.01	1430	☐	☐	☐	☐	
19-030	W593162	22.40	22.86	0.24	1060	☐	☐	☐	☐	
19-030	W593163	22.86	23.54	0.02	2470	☐	☐	☐	☐	
19-030	W593164	23.54	24.50	0.01	1900	☐	☐	☐	☐	
19-030	W593165	24.50	25.28	0.16	1070	☐	☐	☐	☐	
19-030	W593166	25.28	25.91	0.18	390	☐	☐	☐	☐	
19-030	W593168	25.91	27.41	0.00	2210	☐	☐	☐	☐	
19-030	W593169	27.41	28.91	0.05	2200	☐	☐	☐	☐	
19-030	W593170	28.91	30.41	0.00	2270	☐	☐	☐	☐	
19-030	W593171	30.41	31.91	0.00	2350	☐	☐	☐	☐	
19-030	W593172	31.91	33.41	0.01	2190	☐	☐	☐	☐	
19-030	W593173	33.41	34.50	0.00	2290	☐	☐	☐	☐	
19-030	W593174	34.50	35.50	0.00	2320	☐	☐	☐	☐	
19-030	W593175	35.50	36.50	0.00	2340	☐	☐	☐	☐	
19-030	W593177	36.50	37.50	0.01	2450	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-030	W593178	37.50	38.50	0.00	2380	☐	☐	☐	☐	
19-030	W593179	38.50	39.50	0.00	2670	☐	☐	☐	☐	
19-030	W593324	39.50	41.00	0.00	2310	☐	☐	☐	☐	replacement tag of W593180 - tag was in lower corner of box, never was stapled, and was lost. This tage is a replacement tag
19-030	W593181	41.00	42.50	0.00	2280	☐	☐	☐	☐	
19-030	W593182	42.50	44.00	0.00	2170	☐	☐	☐	☐	
19-030	W593183	42.50	44.00	0.00	2400	☑	☐	☐	☐	1/4 duplicate
19-030	W593184	44.00	44.67	0.01	2010	☐	☐	☐	☐	
19-030	W593185	44.67	45.29	1.44	620	☐	☐	☐	☐	
19-006	W599161	45.29	45.68	1.35	70	☐	☐	☐	☐	HIGH GRADE
19-030	W593186	45.68	45.98	0.50	1230	☐	☐	☐	☐	
19-030	W593187	45.98	47.00	0.02	1800	☐	☐	☐	☐	
19-030	W593188	47.00	47.82	0.01	1350	☐	☐	☐	☐	
19-030	W593189	47.00	47.82	0.01	1390	☑	☐	☐	☐	1/4 duplicate
19-030	W593190	47.82	48.33	0.02	1180	☐	☐	☐	☐	
19-006	W599162	48.33	48.64	3.19	290	☐	☐	☐	☐	HIGH GRADE

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-030	W593191	48.64	48.94	0.02	1160	☐	☐	☐	☐	
19-030	W593192	48.94	50.00	0.00	2020	☐	☐	☐	☐	
19-030	W593193	50.00	51.50	0.00	2170	☐	☐	☐	☐	
19-030	W593195	51.50	52.77	0.03	2300	☐	☐	☐	☐	
19-030	W593196	52.77	53.07	0.30	880	☐	☐	☐	☐	
19-030	W593197	53.07	53.63	0.00	2100	☐	☐	☐	☐	
19-030	W593198	53.63	53.93	0.11	1280	☐	☐	☐	☐	
19-030	W593199	53.93	54.40	0.00	1680	☐	☐	☐	☐	
19-034	W593200	54.40	54.70	1.30	720	☐	☐	☐	☐	
19-034	W593201	54.70	55.70	0.01	2040	☐	☐	☐	☐	
19-034	W593202	55.70	57.20	0.00	2200	☐	☐	☐	☐	
19-034	W593203	57.20	58.20	0.00	2110	☐	☐	☐	☐	
19-034	W593204	58.20	59.60	0.00	2540	☐	☐	☐	☐	
19-034	W593205	59.60	60.75	0.01	2190	☐	☐	☐	☐	
19-034	W593206	60.75	61.40	0.01	2750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-034	W593207	61.40	62.50	0.00	2340	☐	☐	☐	☐	
19-034	W593209	62.50	64.00	0.01	2310	☐	☐	☐	☐	
19-034	W593210	64.00	65.50	0.01	2350	☐	☐	☐	☐	
19-034	W593211	65.50	66.27	0.01	1590	☐	☐	☐	☐	
19-034	W593212	66.27	66.95	0.34	460	☐	☐	☐	☐	
19-034	W593213	66.95	67.50	0.32	600	☐	☐	☐	☐	
19-034	W593214	67.50	68.40	0.03	1710	☐	☐	☐	☐	
19-034	W593216	68.40	69.10	0.02	1600	☐	☐	☐	☐	
19-034	W593217	69.10	69.75	0.00	1430	☐	☐	☐	☐	
19-034	W593218	69.75	70.16	0.01	1390	☐	☐	☐	☐	
19-034	W593219	70.16	70.46	0.01	1280	☐	☐	☐	☐	
19-034	W593220	70.16	70.46	0.03	1110	☑	☐	☐	☐	1/4 duplicate
19-034	W593221	70.46	70.80	0.01	740	☐	☐	☐	☐	
19-034	W593222	70.80	71.50	0.00	1050	☐	☐	☐	☐	
19-034	W593223	71.50	71.91	0.01	1480	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-034	W593224	71.91	73.25	0.02	1870	☐	☐	☐	☐	
19-006	W599163	73.25	73.61	0.18	170	☐	☐	☐	☐	HIGH GRADE
19-034	W593225	73.61	74.61	0.01	1970	☐	☐	☐	☐	
19-034	W593226	74.61	75.80	0.01	2650	☐	☐	☐	☐	
19-034	W593227	74.61	75.80	0.01	2720	☐	☑	☐	☐	coarse reject duplicate
19-034	W593228	75.80	76.23	0.02	1280	☐	☐	☐	☐	
19-034	W593229	76.23	76.60	0.01	2240	☐	☐	☐	☐	
19-034	W593230	76.60	77.15	0.00	1790	☐	☐	☐	☐	
19-034	W593231	77.15	78.14	0.01	1890	☐	☐	☐	☐	
19-034	W593233	78.14	79.60	0.00	2290	☐	☐	☐	☐	
19-034	W593234	79.60	80.59	0.09	2040	☐	☐	☐	☐	
19-034	W593235	80.59	80.89	0.02	2320	☐	☐	☐	☐	
19-034	W593236	80.89	82.00	0.00	2350	☐	☐	☐	☐	
19-034	W593237	82.00	82.65	0.01	2220	☐	☐	☐	☐	
19-034	W593238	82.65	83.55	0.00	2470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-034	W593239	83.55	84.63	0.07	2200	☐	☐	☐	☐	
19-035	W593240	84.63	86.00	0.00	2240	☐	☐	☐	☐	
19-035	W593241	86.00	87.50	0.01	2270	☐	☐	☐	☐	
19-035	W593242	87.50	89.00	0.00	2500	☐	☐	☐	☐	
19-035	W593243	89.00	90.00	0.00	2460	☐	☐	☐	☐	
19-035	W593244	90.00	90.35	1.29	720	☐	☐	☐	☐	
19-035	W593245	90.35	91.60	0.01	2220	☐	☐	☐	☐	
19-035	W593246	91.60	91.90	0.10	3120	☐	☐	☐	☐	
19-035	W593248	91.90	92.50	0.00	2390	☐	☐	☐	☐	
19-035	W593249	92.50	92.85	0.01	1960	☐	☐	☐	☐	
19-035	W593250	92.85	93.34	0.01	1760	☐	☐	☐	☐	
19-035	W593251	93.34	93.75	1.32	220	☐	☐	☐	☐	
19-035	W593252	93.75	94.75	0.00	2230	☐	☐	☐	☐	
19-035	W593253	93.75	94.75	0.00	2660	☑	☐	☐	☐	1/4 dup
19-035	W593254	94.75	95.75	0.01	2210	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-035	W593255	95.75	96.05	0.12	910	☐	☐	☐	☐	
19-035	W593256	96.05	96.78	0.01	1420	☐	☐	☐	☐	
19-035	W593257	96.78	97.08	0.13	770	☐	☐	☐	☐	
19-035	W593258	97.08	97.65	0.19	640	☐	☐	☐	☐	
19-035	W593259	97.65	98.58	0.03	1440	☐	☐	☐	☐	
19-035	W593261	98.58	99.30	0.24	1640	☐	☐	☐	☐	
19-035	W593262	99.30	100.30	0.03	980	☐	☐	☐	☐	
19-035	W593263	100.30	101.70	0.00	2220	☐	☐	☐	☐	
19-035	W593264	101.70	103.20	0.03	2040	☐	☐	☐	☐	
19-035	W593265	103.20	104.70	0.00	2190	☐	☐	☐	☐	
19-035	W593266	103.20	104.70	0.00	2190	☐	☑	☐	☐	coarse dup
19-035	W593267	104.70	105.76	0.01	2090	☐	☐	☐	☐	
19-035	W593268	105.76	106.68	0.02	1140	☐	☐	☐	☐	
19-035	W593269	106.68	107.75	0.01	2050	☐	☐	☐	☐	
19-035	W593270	107.75	108.62	0.09	1950	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-035	W593271	108.62	110.12	0.01	2110	☐	☐	☐	☐	
19-035	W593272	110.12	111.62	0.02	1950	☐	☐	☐	☐	
19-035	W593273	111.62	112.20	0.01	2130	☐	☐	☐	☐	
19-035	W593274	112.20	112.90	0.53	380	☐	☐	☐	☐	
19-035	W593276	112.90	113.90	0.01	1690	☐	☐	☐	☐	
19-035	W593277	113.90	115.37	0.01	2400	☐	☐	☐	☐	
19-035	W593278	115.37	116.21	0.02	2460	☐	☐	☐	☐	
19-035	W593279	116.21	116.73	0.02	2010	☐	☐	☐	☐	
19-037	W593280	116.73	117.33	0.00	2790	☐	☐	☐	☐	
19-037	W593281	117.33	117.63	0.01	2760	☐	☐	☐	☐	
19-037	W593282	117.63	118.50	0.01	2200	☐	☐	☐	☐	
19-037	W593283	118.50	119.50	0.06	2020	☐	☐	☐	☐	
19-037	W593284	119.50	120.08	0.05	2000	☐	☐	☐	☐	
19-037	W593285	120.08	120.78	0.02	2470	☐	☐	☐	☐	
19-037	W593287	120.78	122.28	0.02	2330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-037	W593288	122.28	123.50	0.02	2880	☐	☐	☐	☐	
19-037	W593289	123.50	123.90	0.00	1080	☐	☐	☐	☐	
19-037	W593290	123.90	125.40	0.04	1070	☐	☐	☐	☐	
19-037	W593292	125.40	126.90	0.01	1460	☐	☐	☐	☐	
19-037	W593293	126.90	128.00	0.01	970	☐	☐	☐	☐	
19-037	W593294	128.00	128.75	0.08	860	☐	☐	☐	☐	
19-037	W593295	128.75	129.75	0.00	950	☐	☐	☐	☐	
19-037	W593296	129.75	131.25	0.07	2210	☐	☐	☐	☐	
19-037	W593297	131.25	132.50	0.06	890	☐	☐	☐	☐	
19-037	W593298	131.25	132.50	0.07	930	☐	☑	☐	☐	coarse duplicate
19-037	W593299	132.50	133.20	0.01	930	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.51	6.53	VN	37	60	NUL	1	small barren quartz vein			
7.86	8.25	VN	37	0	NUL	1	small 2 cm wide barren quartz vein running parallel to core axis			
10.96	11.04	DY	37	70	NUL	1	small pinkish brown aplite dyke bounded by weakly propylitic altered granodiorite			
14.60	14.60	FT	42	30	NUL	1	rubbly gouged fault surface marking boundary between unaltered granodiorite (above) and latered, rubbly, clay altred, faulted granodiorite below until 15.44m			
22.58	22.70	VN	37	15	NUL	1	one 2 cm wide low angle to core axis pyrite bearing quartz vein			
								Py	1	DI
22.87	22.90	VN	37	80	NUL	1	small pyrite beairng quartz vein			
								Py	1	DI
25.95	25.96	FT	42	80	NUL	1	small rubbly potential fault horizon with faulted, rubbly, clay altered granodiorite that extends above this point to 24.5m			
38.90	39.00	ST		60	NUL	1	small zone of hairline stringers that trend all 60 ATCA. Weak disseminated pyrite throughout interval			
								Py	0.5	DI
44.75	45.23	ST		70	NUL	1	Silcified zone with 70 TCA sphalerite bearing quartz veinlets and disseminated pyrite within the groundmass of heavily silicified granodiorite			
								Py	1	DI
								Sp	0.5	DI
45.23	45.64	VN	37	70	NUL	1	high grade quartz vein with sphalerite, pyrite, galena, and chalco, possibly trace arsenopyrite.			
								Ca	1	DI
								Sp	1	DI
								Py	3	DI
								Gn	1	DI
45.85	46.00	ST		70	NUL	2	small pyrite bearing quartz veinlet with fine grained galena on vein margin			
47.35	47.36	VN	37	70	NUL	1	small pyrite bearing quartz veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
48.33	48.56	VN	37	70	NUL	1	High grade quartz vein with finegrained disseminated galena and pyrite, trace chalco and sphalerite.			
								Py	5	BA
								Gn	3	BA
								Sp	1	BA
49.64	49.68	DY	37	70	NUL	1	small pinkish brown aplite dyke			
50.19	50.29	DY	37	40	NUL	1	small pinkish brown aplite dyke			
52.86	52.87	VN	37	70	NUL	1	one small sphalerite, galena, and pyrite bearing quartz veinlet			
								Sp	0.5	DI
								Py	0.5	DI
								Gn	0.5	DI
53.63	53.73	ST		80	NUL	1	set of two fne-grained galena and pyrite bearing quartz veinlets			
								Gn	0.5	DI
								Py	0.5	DI
54.40	54.70	ST		80	NUL	3	set of trhee small pyrite bearing qartz veins			
								Py	0.5	DI
61.06	61.10	VN	37	20	NUL	1	small 1 cm wide quartz vein with dissemianted pyrite			
								Py	0.5	DI
66.83	66.85	VN	37	90	NUL	1	small pyrite bearing quartz veinlet			
								Py	0.5	DI
68.40	68.45	FT	42	70	NUL	1	sharp faulted contact differentiating intensely clay altered granodiorite and fracture granodiorite for 1.5 m below, and argillic competent granodiorite above.			
73.30	73.50	VN	37	70	NUL	1	quartz vein with banded, disseminated, fine grained galena with subhedral blebby pyrite bands, and weak sporadic carbonate alteration (banded). Weak tdissemianted trace tourmaline alteration on vein selvedges			
								Gn	0.5	BA
								To	0.25	DI
								Py	0.5	BA

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
76.57	76.60	BX	34	30	NUL	1	hematite stained brecciated portion of granodiorite with hematite staining, surrounded by sharp contacts of intensely clay altered granodiorite on either side, likely hosted in a fault (or within a larger interval of faulted granodiorite)			
								He	0.5	DI
80.60	80.67	VB	37	30	NUL	1	chloritic brecicated section of granodiorite with weak pyrite disseminated within and hematite staining on the margin of the breccia zone.			
								He	0.2	DI
								Py	0.5	DI
84.41	84.43	VN	37	70	NUL	1	small pyrite bearing quartz veinlet			
								Py	1	DI
85.04	85.30	FT	42	0	NUL	1	low angle fault TCA trending along this section. GRD above and below is clay +- CHL +- HEM altered with weak carbonate alteration on fracture surfaces			
90.89	90.90	VN	37	70	NUL	1	smal pyrite bearing quartz veinlet			
								Py	0.5	DI
93.41	93.44	VN	37	70	NUL	1	asmall strongly silicified quartz rich section of granodiorite (basically a vein), with disseminated fine grained pyrite and galena (banded)			
								Py	1	BA
								Gn	1	BA
95.76	95.85	VN	37	70	NUL	1	small strongly silicified quartz rich sectin of granodiorite (basically a vein), with disseminated fine grained pyrite and galena (banded)			
								Py	0.5	BA
								Gn	0.5	DI
								Py	0.5	DI
								Gn	0.5	BA
97.82	97.85	VN	37	80	NUL	1	small quartz carbonate vein with galena and pyrite			
								Py	0.5	DI
								Gn	0.5	DI
99.58	100.24	ST		70	NUL	5	set of 5 small quartz carbonate veinlets with disseminated pyrite along their margins			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.5	DI
105.95	105.97	VN	37	60	NUL	1	small pyrite bearing quartz veinlet			
								Py	1	DI
107.39	107.75	FT	42	25	NUL	1	set of five fractures that likely represent a brittle fault. Weak veining devleoped in this interval with trace dissemianted pyrite			
								Py	0.5	DI
112.20	112.21	FT	42	30	NUL	1	small faulted fractued with moderately argillic alterd granodiorite above and silicified weakly mineralized granodiorite below			
112.75	112.80	VN	37	25	NUL	1	small pyrite bearing quartz veinlet			
								Py	0.5	DI
116.67	116.69	VN	37	70	NUL	1	small pyrite bearing quartz veinlet			
117.33	117.52	FT	42	30	NUL	1	clay alterd interval of granodiorite with sharp upper and lower contact with moderately argillically altered granodiorite., weak pyrite mineralization hosted within faulted interval			
								Py	0.5	DI
118.54	118.55	VN	37	70	NUL	1	small pyrite bearing quartz veinlet with a weak propylitic alteration envelope			
								Py	0.5	DI
119.90	120.00	VN	37	30	NUL	1	low angle 3 cm wide quartz carbonate vein with weak dissemianted pyrite and fine-grained black mineral (tourmaline?) along its margin			
								Py	1	DI
								To	1	DI
120.19	120.78	ST		40	NUL	4	small pyrite bearing quartz hairline stringer veinlets			
								Py	0.1	DI
121.19	121.20	VT	37	70	NUL	1	small pyrite bearing quartz veinlet with a weak epidote alteration halo extending 2 cm on either side of it, disseminated pyrite in wallrock as well as in vein			
								Py	0.5	DI
123.00	123.50	ST		30	NUL	4	set of 4 hairline frx that contain trace dissemianted pyrite			
								Py	0	DI
123.50	123.51	DY	37	90	NUL	1	sharp contact between mafic dyke (below) and altered granodirotie (above)			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
123.90	123.91	DY	37	90	NUL	1	sharp contact between mafic dyke (above) and QFP dyke (below)			
128.05	128.22	ST		80	NUL	2	two small 1 cm wide quartz carbonate stringer veinlets without any visible sulfide			
131.38	131.39	VT	37	60	NUL	1	small pyrite bearing quartz veinlet			
								Py	1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383044	6890750	1293.894	305.56

ZONE: Exploration

SECTION:

HOLE: KL -19-443

CLAIM: YD09217

Contractor: Kluane Drilling

Drill: 2

Core Size: NTW

Casing Depth: 41.15m, Out

Drilling Dates: Sep 11 - Sep 16, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
5	339.76	-48.5	Reflex
305	38.16	-48.5	Reflex

TARGET: Central Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.4	1.4	OVB
1.4	11.22	9.82	GRD
11.22	13.9	2.68	GRD
13.9	15.24	1.34	FLR
15.24	18.29	3.05	GRD
18.29	24.38	6.09	GRD
24.38	26.6	2.22	GRD
26.6	29.4	2.8	GRD
29.4	34.9	5.5	GRD
34.9	36.58	1.68	GRD
36.58	39.62	3.04	GRD
39.62	41.1	1.48	FLT
41.1	46.55	5.45	GRD
46.55	48.77	2.22	GRD
48.77	50.95	2.18	VEN
50.95	53.2	2.25	GRD

SAMPLES	
Numbers:	W599155, W599159 to W599160, W599164, W599166, W599239, W603167 to W603411
Total:	251
Batch:	006, 016, 019, 029, 031, 032, 039, 040
Certificates:	WH19239261, WH19239273, WH19239331, WH19239339, WH19239349, WH19242440, WH19245878, WH19250393, WH19283132

COMMENTS

53.2	54.86	1.66	GRD
54.86	61.47	6.61	GRD
61.47	64.01	2.54	QFP
64.01	67.2	3.19	GRD
67.2	71.6	4.4	GRD
71.6	79.84	8.24	GRD
79.84	80.2	0.36	VEN
80.2	91.51	11.31	GRD
91.51	95.75	4.24	GRD
95.75	101.64	5.89	GRD
101.64	102.28	0.64	FLT
102.28	113	10.72	GRD
113	119.64	6.64	GRD
119.64	121.46	1.82	GRD
121.46	125.93	4.47	GRD
125.93	129.86	3.93	GRD
129.86	134.11	4.25	GRD
134.11	140.16	6.05	GRD
140.16	146.7	6.54	GRD
146.7	149.97	3.27	GRD
149.97	156.45	6.48	GRD
156.45	159.62	3.17	GRD
159.62	167.46	7.84	GRD
167.46	168.97	1.51	GRD
168.97	176.43	7.46	GRD
176.43	178.74	2.31	GRD
178.74	183.18	4.44	GRD
183.18	186.17	2.99	GRD
186.17	188.84	2.67	GRD
188.84	191.05	2.21	GRD
191.05	193.55	2.5	GRD
193.55	194.1	0.55	GRD

194.1	195.3	1.2	GRD
195.3	204.89	9.59	GRD
204.89	206.7	1.81	GRD
206.7	209.1	2.4	GRD
209.1	209.46	0.36	GRD
209.46	213.1	3.64	GRD
213.1	213.64	0.54	GRD
213.64	214	0.36	GRD
214	216.65	2.65	GRD
216.65	223.5	6.85	GRD
223.5	226.24	2.74	GRD
226.24	233.26	7.02	GRD
233.26	235.61	2.35	GRD
235.61	238.35	2.74	GRD
238.35	238.68	0.33	GRD
238.68	245.35	6.67	GRD
245.35	257.1	11.75	GRD
257.1	263.02	5.92	GRD
263.02	269.62	6.6	GRD
269.62	272.31	2.69	GRD
272.31	278.13	5.82	GRD
278.13	284.57	6.44	GRD
284.57	290	5.43	GRD
290	295.66	5.66	GRD
295.66	300.58	4.92	GRD
300.58	301.43	0.85	GRD
301.43	305.56	4.13	GRD

Box Log

KL -19-443

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.4	8.33
2	8.33	12.37
3	12.37	16.36
4	16.36	20.31
5	20.31	24.38
6	24.38	28
7	28	31.64
8	31.64	35.18
9	35.18	39.12
10	39.12	43.05
11	43.05	47.31
12	47.31	50.92
13	50.92	54.78
14	54.78	58.84
15	58.84	62.94
16	62.94	67.2
17	67.2	71.68
18	71.68	75.93
19	75.93	79.84
20	79.84	83.57
21	83.57	87.35
22	87.35	91.33
23	91.33	94.32
24	94.32	97.54
25	97.54	101.37
26	101.37	105.69
27	105.69	109.82
28	109.82	113.7
29	113.7	117.42
30	117.42	121.46
31	121.46	124.84
32	124.84	128.41
33	128.41	132.19
34	132.19	136.13
35	136.13	140.33
36	140.33	144.41
37	144.41	148.65
38	148.65	152.8
39	152.8	157.07
40	157.07	161.37
41	161.37	165.34
42	165.34	169.6
43	169.6	173.87
44	173.87	178
45	178	182.14
46	182.14	186.35
47	186.35	190.45
48	190.45	194.1
49	194.1	197.75
50	197.75	201.56
51	201.56	205.53
52	205.53	208.79
53	208.79	212.78
54	212.78	216.65
55	216.65	220.58
56	220.58	224.37
57	224.37	228.36
58	228.36	232.26
59	232.26	236.01
60	236.01	238.68
61	238.68	241.75
62	241.75	245.35
63	245.35	249
64	249	252.81
65	252.81	256.1
66	256.1	259.78
67	259.78	263.23
68	263.23	267.27
69	267.27	271.19
70	271.19	274.39
71	274.39	277.8
72	277.8	281.22
73	281.22	284.57
74	284.57	288.57
75	288.57	291.48
76	291.48	295
77	295	298.37
78	298.37	301.43
79	301.43	304.72
80	304.72	305.56

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-443									
	11.19	11	NTW	GRD	796.3	523	2.56	2.9	
	23.23	14	NTW	GRD	848.6	533.4	2.14	2.7	
	55.68	11	NTW	GRD	747.4	502	2.4	3.1	
	62	11	NTW	QFP	703.8	461.6	2.26	2.9	
	80.07	9	NTW	VEN	737.8	523.8	2.9	3.5	
	102.5	12	NTW	GRD	817.7	544	2.41	3.0	
	115.37	15	NTW	GRD	982.5	645.2	2.32	2.9	
	134	12	NTW	GRD	816.9	542.8	2.41	3.0	
	150.14	10	NTW	GRD	755.2	529.8	2.67	3.4	
	167.51	12	NTW	GRD	786	503.3	2.32	2.8	
	186.88	10	NTW	GRD	801.6	544.7	2.84	3.1	
	193.81	18	NTW	GRD	1310.2	904.8	2.57	3.2	
	261.41	12	NTW	GRD	773.4	504.8	2.28	2.9	
	302.35	10	NTW	GRD	623.2	425.5	2.2	3.2	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	OVB	--	ovb							
1.40	11.22	9.82	GRD	MG	Granodiorite interval with trace propylitic potassic (chlorite and K-spar oberved in grd interval) and local zones of weak argilic alteration. Interval is ractured and contains reddish/brownish clay oxidation along fracture and joint surfaces. Highly fractured rubbly zone is observed @ 8.15-8.60m (zone of local argillic alteration).							
						LT	GN		PRO	2I		
						LT	PK		POT	1I		
						LT	GY		OXI	2I		
11.22	13.90	2.68	GRD	MG	Weak argillic and pervasively oxidized granodiorite interval. Pervasive oxidation within granodiorite clasts (oxidation of argillized clasts) and matrix is commonly occurring as well as reddish/brown clay oxidation along fractures and joint surfaces. Trace sub-mm pyrite occurs in granodiorite interval (only within grd not vein hosted pyrite observed).							
						MD	BN		ARG	2I	Py	1
						LT	BN					
13.90	15.24	1.34	FLR	FG	Clay rich, pervasively oxidized, brecciated fault zone. Interval is highly fractured and small segments of altered granodiorite can be observed within fault zone. Upper portion of fault zone exhibits darker red and orange oxidation while lower section displays light brown/yellow oxidation.							
						MD	YW					
						MD	BN					
						LT	BN		HEM	3I		
						DK	RD		OXI	4I		
15.24	16.76	1.52	GRD	MG	Locally fractured, weakly propylitic granodiorite interval with minor oxidation in GRD host (oxidation mostly occuring along fracture/joint surfaces as yellow/brownish clay). Trace oxidized calcite veinlets sporadically occur throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.76	17.45	0.69	GRD	MG	rubbly, fractured interval of weeakly oxidized granodiorite. In this section oxidation is not limited to joint and fracture surfaces but appears to weakly oxidized grd host rock.							
						MD	BN					
						LT	BN		OXI	2I		
17.45	18.29	0.84	GRD	MG	Locally fractured, weakly propylitic granodiorite interval with minor oxidation in GRD host (oxidation mostly occuring along fracture/joint surfaces as yellow/brownish clay). Trace oxidized calcite veinlets sporadically occur throughout interval.							
									OXI	2I		
18.29	19.20	0.91	GRD	MG	fractured, rubbly, pervasively oxidized, weakly propylitic granodiorite interval exhibiting brecciation along gougy seams (fault related (?)). Brecciated gougy seams are ~ 15 degrees TCA.							
						MD	TN					
						MD	RD		OXI	3I		
						LT	BN					
19.20	20.31	1.11	GRD	MG	pervasively oxidized granodiorite interval with brecciated, gougy zones. Unit is more competent than previous interval. (fault brecciation(?))							
						MD	OR		OXI	3I		
						LT	BN					
20.31	22.00	1.69	GRD	MG	Trace propylitic, intermittent trace to weak argillic, weakly to moderately oxidized,granodiorite.							
22.00	23.44	1.44	GRD	MG	weakly argillic, pervasively oxidized granodiorite interval. Oxidation in interval is red compared to previous oxidized zones (more hematite oxidation than clay). Trace 1-2 mm, oxidized veinlets are locally observed @ 23.20m							
						MD	TN		ARG	2I		
						DK	RD		OXI	2I		
									HEM	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.44	24.38	0.94	GRD	MG	weakly argillic, oxidized granodiorite interval. Interval contains oxidized, stringer veins containing fine grained disseminated pyrite. (oxidation similar to previous interval but exhibits increased pyrite bearing veinning). Interval contains soft, gougy brecciated seam at 23.93m. Hematite bands are also observed in stringer vein zone.							
						MD	TN		ARG	2I	Py	5
						MD	BN		HEM	3I		
						DK	RD		OXI	3I		
24.38	26.60	2.22	GRD	MG	fractured, rubbly interval of pervasively oxidized grd . (fault related (?); no sign of brecciation or sheared just rubbly interval.							
26.60	27.88	1.28	GRD	MG	Weakly argillic, moderately oxidized granodiorite interval. Oxidation is redder (hematite) and more pervasive than previous interval. Dark brown , rubbly zone occurs at 26.85-27m. Trace, pyrite bearing veinlets are locally observed as well.							
						MD	BN		ARG	2I		
						DK	RD		OXI	3I		
						DK	BN		HEM	3I	Py	5
27.88	28.96	1.08	GRD	MG	fractured, rubbly interval of oxidized, weakly argillic granodiorite.							
28.96	29.40	0.44	GRD	MG	weakly oxidized, granodiorite interval. Interval is fractured, less oxidized and more competent than previous interval.							
						MD	BN					
						LT	BN		OXI	2I		
29.40	30.48	1.08	GRD	MG	fractured, in trace propylitic granodiorite. Granodiorite contains dark grey, fine grained magnetic inclusions (i.e. 29.80m). Granodiorite is less oxidized than previous interval.							
30.48	34.90	4.42	GRD	MG	weakly potassic, trace propylitic , fractured granodiorite. Oxidation mostly occurs along fracture and joint surfaces. Some reddish hematite alteratin is also observed in fracture/joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.90	36.58	1.68	GRD	MG	moderately oxidized, rubbly granodiorite interval (fault related (?). Small fragments of granodiorite can be identidied in rubbly (faulted (?)) zone. Granodiorite fragments appear to be weakly potassic and trace propylitic (K-spar and chlorite clasts can be identified).							
36.58	37.20	0.62	GRD	MG	Oxidized, fractured and rubbly interval of weakly potassic, trace propylitic granodiorite							
37.20	38.90	1.70	GRD	MG	weakly to moderately potassic granodiorite exhibiting weak hematite alteration in grd and along fracture/joint surfaces. Interval is more comptetent than surrounding highly fractured/rubbly granodiorite zones.							
38.90	39.62	0.72	GRD	MG	weakly to moderately potassic , highly fractured granodiorite interval with weak hematite oxidation on surface and along joint/fracture surfaces. Interval is less competent than last.							
						LT	PK		POT	3I		
						DK	BN		POT	2I		
						DK	RD		HEM	2I		
									OXI	2I		
39.62	41.10	1.48	FLT	--	oxidized, gougy clay rich, rubbly faulted interval. small fragments of granodiorite are identified. (faulted (?)).							
						LT	BN					
						DK	RD					
41.10	44.20	3.10	GRD	MG	weakly potassic, trace argillic,fractured, oxidized granodiorite interval. Oxidation appears dark red (hematite(?) along fractures, joint surfaces and on host rock surface. Trace 2-6 mm quartz veins are locally observed throughout interval.							
44.20	46.55	2.35	GRD	MG	Granodiorite interval exhibiting weak phyllic alteration and trae potassic alteration. Oxidation is light brown on surface (less hematite than previous interval). Shear brecciated gouges are observed near the grf fault contact (i.e. 46.40m). Trace, fine grained disseminated pyrite is observed within interval.							
						MD	BN		PHC	1I	Py	3
						LT	BN		OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									CLY	2I		
46.55	47.31	0.76	GRD	MG	gouged, brecciated , granodiorite interval (fault brecciated). Gouged seams are lighter colored than rest of faulted interval							
						LT	GY	BX				
47.31	48.77	1.46	FLR	MG	rubbly, fractured, gouged, fault brecciated interval of faulted grd.							
						MD	BN					
						LT	BN					
48.77	50.29	1.52	GRD	MG	interval composed of moderately oxidizied , rubbly, gouged and brecciated granodiorite fault footwall interval. clay rich gougy seams are observed proximal to mineralized vein.							
50.29	50.45	0.16	MX	FG	clay rich, gouged vein section in fault foot wall. Interior of vein is light to dark grey and contains fine grained disseminated pyrite.							
						LT	GY		OXI	3I	Py	10
						LT	BN					
						DK	GY					
50.45	50.95	0.50	MX	FG	Rubbly, oxidized mineralized fault footwall vein zone containing fine grained disseminated pyrite, cubic galena, fine grained arsenopyrite. Hematite vein replacement is locally observed in small discernable fragments.							
						MD	RD	RB	OXI	3I	Gn	5
						MD	GY				Py	10
						LT	BN				He	3
											As	5
50.95	53.20	2.25	GRD	MG	weakly oxidized, weakly to moderately argillic granodiorite interval. Clay rich, oxidation is locally observed along fractures and joint surfaces. @ 52.8m, dark reddish, hematitic oxidation occurs within altered granodiorite interval.							
						LT	BN		HEM	1I		
						LT	TN		ARG	2I		
						DK	RD		OXI	2I		
53.20	54.00	0.80	GRD	MG	gouged brecciated and rubbly interval of weakly to moderately oxidized granodiorite (fault related(?))							
						MD	BN	RB	OXI	3I		
						DK	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.00	54.86	0.86	GRD	MG	light grey, brecciated and gouged granodiorite intervalin faulted zone. Interval more competent and less oxidized than previous.							
						LT	GY	BX	PRO	1I		
						LT	GN					
54.86	57.00	2.14	GRD	MG	weakly oxidized, trace propylitic/argillic granodiorite containing small, gougy clay seams and pyrite,arsonepyrite bearing quartz veins (i.e. 53.30m). Disseminated pyrite and small arsonepyrite blebs are observed in low angle 15 degrees quartz vein that is crosscut by minor 1-2 mm milky quartz veinlets. Dark grey, fine grained (smoky quartz(?) also contain sub-mm blebby pyrite. @ 56.20m soft, fracture zones are ~ 45 degrees TCA.							
						LT	GN		OXI	2I	As	3
						LT	BN		PRO	1I	Py	5
									ARG	1I		
57.00	59.03	2.03	GRD	MG	Moderately oxidized granodiorite exhibiting trace propylitic and weak alteration. Gouge brecciation zone occurs @ 57.60m (shear/fault related(?)) . Interval also displays reddish hematitic oxidation locally within gouge brecciated zone. From 57.90-59.04 interval is more fractured.							
						MD	BN		ARG	1I		
						LT	GN		PRO	1I		
						DK	BN					
59.03	60.60	1.57	GRD	MG	Moderately oxidized, gouge brecciated, locally rubbly, granodiorite interval (fault brecciated (?)). Increased fault brecciation is observed proximal to grd-quartz feldspar porphyry dyke contact. Trace 1-2 mm unmineralized quartz veinlets are sporadically observed in interval. Hematite clasts are identified in interval as well as trace chlorite clasts (trace propylitic alteration).							
						MD	BN	RB	PRO	1I		
						LT	BN	BX	OXI	3I		
60.60	61.47	0.87	GRD	MG	moderately oxidized, weakly argillic and trace propylitic granodiorite interval. Grd is more competent than previous interval and displays gougy brecciation at the contact with quartz feldspar porphyry dyke intrusion (i.e. 61.47m). Trace 1-2 mm unmineralized quartz veinlets are locally observed throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN	BX				
						LT	BN					
61.47	61.94	0.47	QFP	FG	fractured, moderately oxidized quartz feldspar porphyry dyke interval. Fractured and oxidized proximal to contact							
						MD	BN					
61.94	62.53	0.59	QFP	FG	competent interval unaltered quartz feldspar porphyry dyke with some oxidation along fracture/joint surfaces.							
						DK	BN					
62.53	62.94	0.41	QFP	FG	Rubbly, weakly oxidized interval of quartz feldspar porphyry dyke.							
						DK	BN	RB	OXI	2I		
62.94	63.80	0.86	QFP	FG	competent interval of quartz feldspar porphyry dyke. Trace oxidation along fractures and joint surfaces is locally observed.							
						DK	BN					
63.80	64.01	0.21	QFP	FG	oxdizied, gouged, brecciated quartz feldspar porphyry dyke interval. oxidation and brecciation occur near quartz feldspar porphyry dyke and grd unit.							
						LT	BN	BX	OXI	3I		
64.01	64.67	0.66	GRD	MG	weakly propylitic, trace argillic granodiorite interval with locally oxidation zones. Near brecciated contact with quartz feldspar porphyry dyke, a 3 cm pyrite bearing vein is observed containing fine disseminated pyrite and euheral pyrite crystals developed in fractured surfaces. Quartz vein contains sub-mm, dark, fine grained inclusions (smoky quartz (?). Clay oxidation is commonly observed along fracture and joint surfaces.							
						LT	GN					
						LT	BN		ARG	1I	Py	5
						LT	GY		PRO	2I	Py	3
64.67	65.47	0.80	GRD	FG	oxidized, rubbly zone of weakly propylitic granodiorite.							
						MD	BN					
						LT	BN					
65.47	66.35	0.88	GRD	MG	trace propyitic , locally oxidized granodiorite interval containting dark, fine grained magnetite, mafic inclusions.							
						MD	GY		PRO	1I		
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.35	67.20	0.85	GRD	FG	rubbly zone of granodiorite. Interval displays dark ressish hematitic oxidation compared to previous rubbly zone.							
						MD	BN					
						DK	RD	RB	PRO	1I		
67.20	71.60	4.40	GRD	MG	granodiorite interval exhiiting trace propylitic alteration. Overall, interval is relatively unaltered with minor zones of trace propylitic alteration, competent and contains 1-2 mm, pyrite bearing, dark fine grained smoky quartz veinlets. Pyrite is also observed to interstitially surround dark, fine grained veinlets. (i.e. 67.74). Trace hematitic venlets and hematitic oxidation is locally observed in interval with clay-oxidation and reddish hematitic oxidation being more prominent along fracture and joint surfaces.							
						MD	GY					
						LT	GN		PRO	1I	Py	3
71.60	73.93	2.33	GRD	MG	granodiorite interval with intermittent zones of moderate argillic alteration. Unaltered interval of grd contains trace chlorite clasts (trace propylitic overprint(?)). Dark red, oxidation is observed in argillic altered grd sections. Grd interval contains dark, fine grained, magnetic inclusions and appears to be more oxidized in argillic altered zones. Trace 2-4 mm unmineralized quartz veins are locally observed in altered zones. Clay oxidation along fracture/joint surfaces is commonly occuring throughout interval.							
						LT	GN		ARG	3I		
						LT	GY		OXI	2I		
						LT	BN		HEM	2I		
						DK	RD		PRO	1I		
73.93	77.80	3.87	GRD	MG	granodiorite interval with intermittent zones of weak argillic alteration. Interval is more fractured and exhibits less alteraiton than previous unit. Trace chlorite clasts are observed in relatively unaltered grd sections (trace propylitic component(?)). Minor 1-2 mm, dark, fine grained, unmineralized veinlets are locally observed in unaltered grd sections. Clay oxidation is observed along fractures and joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.80	79.14	1.34	GRD	MG	moderate propylitic, trace phylic-propylitic granodiorite interval exhibiting gouge brecciation zones. Fine grained disseminated pyrite is locally observed within altered grd interval (increased local quartz content may be trace phyllic(?)). Trace 1-2 mm quartz veins occur in interval. Oxidation along gouged, brecciated seam is locally observed as well.							
						LT	BG		ARG	3I	Py	5
						LT	GN		PRO	1I		
									PHC	1I		
79.14	79.84	0.70	GRD	MG	rubbly zone of weakly to moderate argillic granodiorite. Disseminated pyrite observed in light grey sections of unoxidized grd.							
79.84	80.20	0.36	VEN	MG	Trace propylitic granodiorite interval with intermittent, alternating zones of moderate argillic-propylitic zones and trace phyllic alteration near vein zones (i.e. 80-80.40m). Quartz/ ankerite vein zones containing semi massive, interstitial pyrite and trace arseno pyrite are locally observed in sections of trace phyllic, propylitic altered grd ;(near vein zones, grd exhibits increased quartz clasts, basal cleavage muscovite , disseminated pyrite in host rock (trace phyllic alteration)). Chlorite clasts are more abundant near pyrite bearing zones. Pyrite in quartz vein appear to interstitially infill vein. Ankerite vein is observed parallel to pyrite - bearing quartz vein. Light pink, rhodochrosite veins surrounding quartz vein appear to partially brecciate quartz vein and surrounding host rock. Dark grey, smoky quarz veins running parallel to mineralized veins are also observed. Clay-oxidation is commonly observed along fracture/joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.20	83.25	3.05	GRD	MG	Trace propylitic, potassic granodiorite (chlorite clasts and K-spar component observed) with intermittent zones of weak argillic and weak propylitic alteration (i.e. 80.20-80.45m, 81.75-81.90m) (zones are light green, contain more chlorite and swelling of feldsphathic clasts). Some reddish, hematitic oxidation is locally observed in lower portion of granodiorite and within fracture/joint surfaces. Trace, 3-5 mm unmineralized, quartz veins with vein restricted carbonitic infill occurs in interval @ 81.83m. @ 83-83.25, 1-m mm, dark, fine grained, magnetic veinlets containing trace fine grained pyrite are observed with hematite infilling some of these veins.							
						MD	GY		HEM	2I		
						LT	PK		POT	1I		
						LT	GN		PRO	1I		
						DK	RD		PRO	2I		
									ARG	2I		
83.25	83.57	0.32	GRD	MG	fractured interval of trace propylitic/potassic granodiorite. Light brown/yellowish clay and dark red hematitic oxidation is commonly observed along fractures and joint surfaces.							
						MD	GY					
						LT	PK	FR				
						LT	GN					
						DK	RD					
83.57	86.54	2.97	GRD	MG	Trace potassic , propylitic altered granodiorite interval (chlorite clasts and K-sapr component in grd matrix observed). Interval is more competent than previous and displays trace 1-2 mm, calcite veinlets and 1-2 mm, dark, fine grained, magnetic veinlets.							
						MD	GY		PRO	1I		
						LT	PK					
						LT	GN		POT	1I		
86.54	87.56	1.02	GRD	MG	weakly oxidized, fractured interval of granodiorite exhibiting weak propylitic, weak argillic and trace potassic alteration (chlorite clasts and soft, swelled feldspathic clasts are more prominent in this interval with minor k-spar component in grd matrix). Yellow light brown clay oxidation and trace reddish hematitic alteration occur along fracture and joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
87.56	89.44	1.88	GRD	MG	trace to weakly potassic , trace propylitic granodiorite interval. (trace chlorite clasts observed and increased K-spar matrixcomponent observed in grd interval. Trace sub-mm unmineralized quartz veins; sometimes containing hematite are observed in interval.							
89.44	91.51	2.07	GRD	MG	Granodiorite similar to previous interval but with decreased potassic component and trace argillic alteration. Fractured zones occur @ 89.90-90.40m (chlorite can be observed along fracture surfaces (weak propylitic alteration (?)). Trace 1-2 mm carbonate veinlets are sporadically observed on interval. A 0.5 cm weak potassic halo surrounded a 1-2 mm quartz veinlet is observed @ 90.52m.							
91.51	95.75	4.24	GRD	MG	Interval is composed of highly fractured, rubbly, weakly potassic and argillic granodiorite. Chlorite and hematite are commonly observed along fracture and joint surfaces (hematite and chlorite slickenlines observed). Fractured interval might be fault related (?).							
						MD	GN					
						DK	RD					
95.75	96.35	0.60	GRD	MG	weakly potassic, propylitic, moderate argillic granodiorite interval. soft, clay gouge seams and brecciation are observed near pyrite bearing vein zone (i.e 96.25m). Veins contains disseminated pyrite in dark, fine grained veins and within around host grd.							
96.35	96.64	0.29	GRD	MG	Fractured, rubbly interval of weaklty to moderate argillic, trace propylitic (chlorite clasts locally observed in competent grd fragments and in some frature/joint surface) granodiorite. Light brown and reddish oxidation also occurs in rubbly grd interval. Rubbly, altered granodiorite fragments contain fine grained disseminated, and 1-2 mm, cubic, euheral pyrite.							
						LT	GN	RB	ARG	3I	Py	3
						LT	BG		PRO	2I		
						LT	BN		OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.64	97.54	0.90	GRD	MG	Granodiorite interval exhibiting weak argillic, weak potassic and trace propylitic alteration (swelling of faldspathic clasts observed, increased, K-spar component in grd matrix and trace chloritized clasts observed. Weak oxidation is observed along fracture surfaces. Trace 1-2 mm, dark, fine grained, magnetic veinlets containint carbonitic infill are observed @ 97.30m.							
						MD	PK		POT	2I		
						LT	GN		ARG	2I		
						LT	BG		PRO	1I		
97.54	100.58	3.04	GRD	MG	Relatively unaltered granodiorite interval with trace propylitic and potassic alteration (trace chlorite clasts and k-spar matrix component in grd). Trace 1-2 mm, unmineralized quartz veinlets are observed sometimes with carbonitic infill within them (i.e. 98.97-99m). Orange/brownish clay oxidation, reddish oxidation and chlorite coating on fracture and joint surfaces are locally observed.							
100.58	101.00	0.42	GRD	MG	granodiorite interval exhibiting weak potassic and argillic alteration.							
101.00	101.64	0.64	GRD	MG	weakly argillic, propylitic and trace potassic altered granodiorite interval. interval is soft and fratured and contains 1-cm pyrite bearing quartz/carbonitic veins in locally less potassic, more argillic, propylitic granodiorite section. Disseminated pyrite and blebby pyrite is observed within vein. Ankerite vein running parallel to sub-mm, dark, fine grained, pyrite bearing inclusions is observed, sometimes microbrecciating host grd. Orange clay oxidation occurs in lower portion of interval near rubbly fault zone (?).							
						LT	BG		PRO	1I	Py	3
						LT	PK		POT	1I		
						LT	GN		ARG	2I		
101.64	102.28	0.64	FLT	--	pervasively oxidized, rubbly, faulted zone. Gouge brecciation occurs in rubbly interval and orage-clay and reddish hematitic oxidation are locally observed							
						LT	BN	RB				
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
102.28	103.63	1.35	GRD	MG	relatively unaltered granodiodirte interval with intermittent local zones of weak propylitic and potassic alteration. Trace fine grained pyrite is someties observed in less altered interval zones.							
						MD	GY					
						LT	PK		PRO	2I	Py	1
						LT	GN		POT	1I		
103.63	104.90	1.27	GRD	MG	Weakly argillic , propylitic, trace potassic altered granodiorite interval. a 1 cm milky quartz vein rimmed by sub-mm, fine grained, pyrite bearing-smoky veinlets are observed @ 104.05m. Milky quartz veins contains 1-2 mm, clear quartz clasts intruded in vein. (or milky quartz vein replacement of clear quartz (?)).							
104.90	107.15	2.25	GRD	MG	unaltered section of granodiorite with local intermittent sections of weakly argillic, propylitic and trace potassic altered granodiorite.							
107.15	107.78	0.63	GRD	MG	granodiorite interval exhibiting weak to moderate propylitic alteration and argillic alteration. (more chlorite clasts observed, fine grained disseminated pyrite in grd, increased clay and feldspathic clast swelling). 1-3 mm milky quartz and dark, fine grained, pyrite bearing smoky quartz bands are locally observed in propylitic altered granodiorite.							
107.78	111.00	3.22	GRD	MG	granodiorite interval with alternating zones of weak to moderate argillic, potassic and trace propylitic alteration. Trace 1-2 mm quartz veinlets are prominently observed in more propylitic altered sections.							
111.00	113.00	2.00	GRD	MG	Fractured interval of alternating unaltered and weakly argillic/potassic and propylitic altered granodiorite.							
113.00	114.00	1.00	GRD	MG	fractured interval of weaklly argillic, potassic and trace propylitic (?) (trace chlorite clasts on grd and in fracture surfaces) granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.00	114.67	0.67	GRD	MG	Granodiorite interval exhibiting moderate to strong propylitic alteration overprinting trace potassic alteration. Chlorite clasts are more abundant, epidote locally observed as well. Interval contains a 4-5 mm, low angle (10 degrees TCA) mineralized quartz vein, with carbonitic infill, that is crosscut but smaller 1-2 mm, milky quartz veinlets. Blebby pyrite and honey brown sphalerite are observed in mineralized vein.							
						MD	PK		POT	1I	Sp	3
						MD	GN		PRO	3I	Py	6
						DK	GN					
114.67	115.25	0.58	GRD	MG	weakly argillig and potassic granodiorite interval. no mineralization observed in interval. Carbonitic infill along fracture surfaces is locally observed.							
						MD	PK		ARG	2I		
						LT	BG		POT	1I		
115.25	115.72	0.47	GRD	MG	Moderately propylitic granodiorite interval containting 1- 3 mm calcite veins and trace 1-2 mm, quartz veinlets. Trace disseminated pyrite is sometimes observed in quartz veinlets. Calcite veinlets appear to crosscut and offset darker, fine grained, carbonitic veinlets. (i.e. 115.55m).							
						MD	GN		PRO	3I	Py	1
						DK	GN					
115.72	117.42	1.70	GRD	MG	Granodiorite interval with alternating sections of weakly propylitic, weaklky argillic and trace potassic alteration (5-10 cm sections of alternating alteration types). Calcite appears to infill fracture surfaces. 1-2 mm calcite veinlets are also observed as well as 1-2mm, dark, fine grained veinlets. Lower portion of interval is fractured (i.e. 116.60-117.42).							
						MD	PK		PRO	2I		
						MD	GN		POT	2I		
						LT	BG					
						DK	GN		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
117.42	118.22	0.80	GRD	FG	Dark green, fine grained, moderately silicified, strongly propylitic section of granodiorite with intermittent zone of weakly potassic alteration. Trace disseminated pyrite is observed within host grd and in dark quartz veins. Hematite is observed within pyrite bearing veins and in sections of weakly potassic alteration. Calcite appears to infill hematitez vein, and fracture surfaces locally.							
						LT	PK					
						DK	GN				Py	2
118.22	118.87	0.65	GRD	MG	Fractured, gougy interval composed of dark green, strongly propylitic, silicified fragments and light green, pyrite bearing, weakly propylitic , brecciated fragments .							
						LT	GN		PRO	3I	Py	3
						DK	GN					
118.87	119.64	0.77	GRD	MG	Weakly to moderate propylitic granodiorite with intermittent zones of weak potassic and argillic alteration.							
						LT	BG		ARG	1I		
						LT	GN		PRO	3I		
						LT	PK		POT	2I		
119.64	120.63	0.99	GRD	MG	Brecciated, locally gouged, moderately argillic, trace proplitic granodiorite interval. Interval is less altered than lower interval section. Trace disseminated pyrite is observed within grd.							
						MD	BG		PRO	1I		
						LT	GN	BX	ARG	3I	Py	3
120.63	121.46	0.83	GRD	MG	shear brecciated, gouged, rubbly interval of strongly argillic and trace potassic granodiorite (faulted grd hanging wall(?)). Disseminated pyrite occurs within interval. Increased, dark, fine grained bands parallel to shear plane are locally observed in unit. Trace quartz, inclusions are also observed in grd interval (no mineral association with quartz inclusions though) . Trace clay and hematitic oxidation occurs in fracture surfaces.							
						MD	BG	RB	ARG	4I	Py	5
						LT	PK	SH	POT	1I		
								BX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
121.46	123.22	1.76	FLT	FG	gouged, brecciated, moderately argillic, weakly propylitic and intermittent weakly potassic faulted grd interval. Interval is rubbly and contains fine grained disseminated pyrite. Remnant quartz veins are observed in discernable grd fragments within rubbly, faulted interval.							
						MD	PK	BX	PRO	2I		
						LT	GY	RB	POT	2I	Py	4
									ARG	3I		
123.22	124.60	1.38	FLR	MG	fractured, rubbly interval of moderately argillic granodiorite with intermittent zones of moderate propylitic alteration.Euhedral, pyrite crystals are observed along fracture surfaces in proylitic altered granodiorite. Blebby pyrite is also observed within fractured grd interval (not restricted to veining but observed within grd host rock).							
						LT	BG	FR	PRO	3I	Py	3
						DK	GN		ARG	3I	Py	3
124.60	125.93	1.33	FLR	MG	fractured, gouge brecciated, granodiorite interval exhibiting moderate argillic, weakly potassic (increased K-spar in grd; grains are pinkish/orange (argillic alteration overprinting potassic(?)) and trace propylitic alteration. Propylitic alteration is not as prominent compared to previous interval (less propylitic and more potassic). Pyrite content appears to decrease in this interval (sporadically observed but not as much as pyrite in previous interval.							
						MD	PK	FR	ARG	3I	Py	2
						LT	OR		PRO	1I		
						LT	BG		POT	2I		
125.93	127.15	1.22	GRD	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of weak argillic alteration. Trace, pyrite is observed within sporadic, fine grained, veinlets. Weak reddish hematitic alteration is observed in host grd and along fracture, joint surfaces.							
						MD	GY		ARG	1I		
						LT	PK		POT	2I	Py	1
						LT	GN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
127.15	127.81	0.66	GRD	MG	granodiorite interval exhibiting weak to moderate phyllic alteration overprinting trace argillic and propylitic alteration. Increased quartz clasts, silicification , basal cleavage muscovite clasts and disseminated pyrite are commonly observed in phyllic altered interval. 1-4 mm euhedral pyrite crystals are observed along fracture/joint surfaces (chlorite coating on pyrite bearing fractures/joint surfaces).							
127.81	129.40	1.59	GRD	MG	moderate argillic , weakly proplitic, trace potassic granodiorite interval with local fractured, gouge brecciated zones (i.e. 128.20m ~ 20 degrees TCA, gouge brecciation between competent granodiorite and argillic granodiorite (this interval). @ 128.20, dark, fine grained, magnetic veinlet containting trace disseminated pyrite is offser by gouge brecciated zone (shear brecciation(?)). 1-2 mm, calcite infill veinlets appear to crosscut thing , dark, fine grained veinlets.							
						LT	BG		ARG	3I	Py	2
						LT	GN		PRO	1I		
129.40	129.86	0.46	GRD	MG	weakly propylitic, potassic, relatively unaltered granodiorite interval containting sub-mm , dark, fine grained inclusions.							
						LT	PK					
						LT	GY		PRO	2I		
						LT	GN		POT	2I		
129.86	131.05	1.19	GRD	MG	moderate argillic, phyllic granodiorite with intermittent zone of weakly potassic, propylitic alteration. Trace, dark, fine grained veinlets are observed in interval							
						LT	PK		ARG	3I		
						LT	BG		POT	2I		
						LT	GN		PRO	1I		
131.05	131.64	0.59	GRD	MG	rubbly interval of moderate argillic, weakly phyllic granodiorite . Disseminated pyrite is observed within rubbly zone and within quartz veins (fragments of veins since interval is rubbly).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
131.64	133.63	1.99	GRD	MG	Weakly to moderate phyllic granodiorite overprinting moderat argillic, weakly propylitic alteration. (disseminated pyrite observed within grd, increased quartz clasts, and some basal cleavage muscovite (?) are locally observed. Gouged, brecciation also occurs in interval (131.80, 133.45m). Blebby pyrite is also observed in 1-4 mm, quartz veins. Disseminated and euhedral pyrite within fracture/joint surfaces is also observed (some chlorite in fracture/joint surfaces as well).							
						MD	BG		ARG	3I	Py	6
						LT	GN		PHC	3I	Py	5
									PRO	1I		
133.63	134.11	0.48	GRD	MG	Weakly to moderate argillic, weakly phyllic, trace propylitic granodiorite containting pyrite bearing, quartz stringer zone (7 veins observed through interval length). Stringer veins are composed of quartz, dark fine grained thin smoky quartz and tan, ankerite infilling veins. @ 133.90m, a calcite vein brecciates, crosscuts and offsets local pyrite bearing veins.							
						LT	BG	BX	ARG	3I	Py	6
						LT	GN		PHC	2I	Py	4
134.11	135.90	1.79	GRD	MG	locally fractured, weakly propylitic granodiorite with local zone of moderate argillic, weakly potassic alteration.							
						MD	GN		POT	2I		
						LT	PK		ARG	3I		
						LT	BG		PRO	2I		
135.90	139.14	3.24	GRD	MG	trace propylitic, potassic granodiorite with intermittent zones of weak propylitic alteration.Trace, sub-mm, dark, pyrite bearing veinlets are locally observed in local zones of propylitic alteration.							
						MD	GN		PRO	1I		
						LT	PK		POT	1I		
						LT	GN		PRO	2I	Py	3
139.14	139.84	0.70	GRD	MG	trace phyllic, weakly argillic granodiorite interval containing pyrite bearing vuggy veins and 1-2 mm veins. Trace disseminated pyrite is observed in more phyllic altered zone. Vuggy quartz is infilled by calcite and pyrite is contained within, dark grey, fine grained veins in vuggy vein (i.e.139.40m).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG		PHC	2I	Py	4
						LT	GN		ARG	2I		
139.84	140.16	0.32	GRD	MG	trace propylitic, potassic (relatively unaltered) granodiorite interval							
						MD	GY					
						LT	PK					
						LT	GN					
140.16	141.90	1.74	GRD	MG	moderate potassic, trace argillic granodiorite interval containing, black, fine grained, strongly magnetic inclusions. (i.e 140.33m). Inclusions are light mustard yellow . Dark red, hematitic alteration is observed in interval.							
						LT	GN		POT	3I		
						DK	PK		ARG	2I		
						DK	RD					
141.90	143.05	1.15	GRD	MG	Fractured, gouged, moderate potassic granodiorite interval exhibiting increased hematitic oxidation.							
						DK	RD		POT	3I		
						DK	PK					
143.05	144.10	1.05	GRD	MG	weakly phyllic (disseminated pyrite observed, increased quartz, some basal cleavage muscovite crystals observed), propylitic altered granodiorite overprinting weak argillic alteration. Light pink, fine grained aplite dyke intrusion is observed @ 143.45m (~ 20 degrees TCA). Blebby tourmaline crystals are observed proximal to aplite dyke intrusion. Blebby pyrite is observed within tourmaline bearing zone (pyrite appears to interstitially surround tourmaline (tourmaline related to dyke intrusion and pyrite mineralization occurs post tourmaline mineralization(?)).Some quartz veins appear to crosscut tourmaline crystals. Calcite appears to brecciate hematized, pyrite bearing quartz veins (late stage carbonitic fluids(?)). Blebby pyrite is also observed within hematitic infilled quartz veins.							
						LT	GN		PRO	1I	He	3
						LT	PK		ARG	1I	To	5
						DK	BK		PHC	2I	Py	8

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
144.10	146.70	2.60	GRD	MG	weakly to moderate potassic, trace propylitic granodiorite interval containing 1-2 mm, hematite-pyrite bearing veinlets that that locally offset and crosscut by calcite infill fractures.							
						MD	PK		PRO	1I	Py	1
						LT	GN		POT	2I		
146.70	149.97	3.27	GRD	MG	granodiorite interval with trace potassic, trace propylitic alteration. Black, fine grained, magnetic inclusions are locally observed in interval. Upper portion of interval appears slightly more potassic. Trace, 2-3 mm, calcite veinlets and calcite fracture infill is observed in interval. Dark red, hematitic oxidation along fractures/joints is commonly occuring in interval.							
						MD	RD		POT	2I		
						DK	RD		PRO	1I		
149.97	150.35	0.38	VEN	MG	pyrite bearing, carbonitic/quartz vein zone in weakly propylitic, phyllic granodiorite. Blebby and disseminated pyrite is observed within dark grey, smoky quartz veins that are surrounded and sometimes brecciated by ankerite,milky quartz veins (ankerite and pinkish rhodochrosite (?) appears to infill milky quartz vein). Blebby and disseminated pyrite also occur within altered grd interval.							
						LT	BG		PRO	2I	Py	5
						LT	GN		PHC	1I	Py	5
150.35	151.66	1.31	GRD	MG	weakl potassic, trace propylitic granodiorite with intermittent zones of increased potassic, argillic alteration. Reddish hematite oxidation is observed in interval							
						LT	GN					
						LT	PK					
151.66	154.13	2.47	GRD	MG	Granodiorite exhibiting moderate potassic alteration overprinting, weakly argillic alteration. Dark red, hematite oxidation is observed on grd surface and along fractures/joints. Calcite infilling fracture surfaces is observed on interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
154.13	155.84	1.71	GRD	MG	moderate argillic, weakly propylitic granodiorite overprinting trace propylitic alteration. Small vein zone at 155 m is observed. (trace pyrite observed in vein zone, ankerite and calcite appear to brecciate vein). Trace, hematitic veinlets are also observed in interval. 1-3 mm, pyrite bearing stringer veins also occur in grd interval (2 veins containing disseminated pyrite)							
						LT	GN		PRO	2I		
						LT	BG		ARG	3I		
155.84	156.45	0.61	GRD	MG	moderately potassic, weakl argillic granodiorite interval.							
156.45	157.71	1.26	GRD	MG	trace otassic, propylitic granodiorite with local zones of weak argillic alteration. Interval is locally fractured and contains dark red, hematitic oxidation along fractures/joint surfaces.							
						LT	PK					
						LT	GN					
157.71	158.50	0.79	GRD	MG	moderate potassic, argillic granodiorite interval.							
158.50	159.25	0.75	GRD	MG	trace potassic, propylitic granodiorite interval							
159.25	159.62	0.37	GRD	MG	Moderate potassic,argillic granodiorite interval containting trace, 1 cm calcite vein.							
						MD	PK					
						LT	BG					
159.62	162.00	2.38	GRD	MG	weakly potassic, trace propylitic, relatively unaltered granodiorite interval. Trace 1-3 mm quartz veinlets occur in interval							
						LT	GN		POT	1I		
						LT	PK		PRO	1I		
						LT	GY					
162.00	163.30	1.30	GRD	MG	weakly potassic trace propylitic granodiorite interval more fractured than previous interval.							
						LT	PK		PRO	1I		
						LT	GY		POT	2I		
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
163.30	167.46	4.16	GRD	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of trace argillic alteration (fractured zones, exhibit feldspathic clasts swelling). @ 167.44m a hematite bearing, quartz vein with yellowish oxidation halo is observed. Interval appears slightly more propylitic than previous unit (chlorite observed in grd, and along fracture/joint surfaces).							
						MD	GN		ARG	1I		
						LT	PK		PRO	2I		
						LT	BG		POT	2I		
167.46	168.30	0.84	GRD	MG	Granodiorite exhibiting moderate potassic, argillic alteration overprinting trace propylitic alteration (Fedspathic clast swelling is notable as well as increased potassic content in grd interval). Sub-mm , black, fine grained veinlets are locally observed in interval. From 168.30 onwards, granodiorite contains a black, fine grained, polymictic inclusion.							
						MD	PK		ARG	3I		
						LT	BG		POT	3I		
168.30	168.97	0.67	VEN	MG	weakly propylitic, argillic granodiorite overprinting trace potassic alteration. Interval is fractured near carbonitic/quartz vein breccia zone. Calcite and pinkish (rhodochrosite(?) brecciate host granodiorite and appear to partially replace existing quartz, brecciating quartz clasts as well (carbonitic fluid replacement of quartz vein brecciating sections of partially replaced vein(?)).Dark red hematitic oxidation is observed around vein breccia zone and within grd host rock. Trace, blebby pyrite and disseminated pyrite is observed within clear quartz vein zone and within dark, hematitic clasts/veinlets.							
						LT	GN	BX	ARG	1I	Py	3
						LT	WH		POT	1I	Py	3
									PRO	2I		
168.97	169.70	0.73	GRD	MG	highly fractured, moderately argillic, weakly potassic granodiorite interval. Trace carbonitic fracture infill is observed							
						LT	PK					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
169.70	170.65	0.95	GRD	MG	relatively unaltered grd with possibly trace propylitic alteration (some chlorite clasts observed).							
170.65	171.83	1.18	GRD	MG	moderately argillic, trace phyllic granodiorite with intermittent zones of argillc, weakly potassic alteration. Argillic phyllic granodiorite zones contain minor, pyrite bearing quartz veins. Quartz veins contains dark, fine grained, veins containin fine grained disseminated pyrite. Calcite infill of quartz veins is locally observed as well.							
											Py	2
171.83	172.84	1.01	GRD	MG	relatively unaltered granodiorite interval.							
172.84	175.00	2.16	GRD	MG	moderate arigllic, weakly propylitic granodiorite with intermitten intervals of moderate to strong potassic alteration. Propylitic altered zones contains trace, quartz, dark, fine grained veinlets and carbonitic infill. Trace pyrite is observed in small vein.							
											Py	2
175.00	176.43	1.43	GRD	MG	strongly potassic, moderate arigllic, trace propylitic granodiorite interval. Moderate argillic zones are soft, fractured.							
						LT	GN					
						DK	PK					
176.43	177.10	0.67	GRD	MG	gouged, brecciated interal of moderately argillic, propylitic interval containing fine grained disseminated pyrite.							
						LT	GN					
						LT	BG				Py	6
177.10	178.33	1.23	MX	FG	mineralized, fault brecciated zone containtint semi massive pyrite, trace galena, arsone pyrite and blackjack sphalerite. Carbonitic entrained clasts are locally observed within brecciated mineralized interval. Interval is light to dark grey (sericitized) and is locally rubbly as well. Semi massive pyrite occurs as disseminations, blebby pyrite and euhedral, cubis pyrite crystals obserfed along fracture surfaces in competent rock sections.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
178.33	178.74	0.41	GRD	MG	weakly propylitic, fault brecciated granodiorite interval containin fine grained disseminated pyrite (less pyrite than dark, semi massive pyrite interval							
178.74	183.18	4.44	GRD	MG	mineralized zone fault foot wall comprised of brecciated, locally gouged weakly propylitic, argillic granodiorite with intermittent zones of weakly potassic alteration. Fault brecciation ocurs at low angle in fault footwall (5 degrees TCA). Trace disseminated pyrite is locally observed within altered grd (not on potassic altered zones though). Blebby pyrite is also observed in thin, fine grained, veinlets. Calcite appears to partially infill and surround pyrite bearing veinlets							
						MD	PK				Py	5
						LT	GN	BX			Py	4
183.18	186.17	2.99	GRD	MG	moderately argillic, weakly propylitic granodiorite with alternating zones of moderate potasicc alteration. Some gouge brecciationg can be seen from 184.40-185m. Trace 1-2 mm calcite veinlets are sporadically observed in interval.							
						MD	PK					
						LT	GN					
						LT	BG					
186.17	186.65	0.48	GRD	MG	rubbly, gouge brecciated zone of weakly argillic, phyllic, trace propylitic granodiorite. Disseminated pyrite within rubbly and competent grd zones is observed.							
186.65	188.84	2.19	GRD	MG	weakly argillic, phyllic, propylitic granodiorite with intermittent zones of weak potassic , moderate argillic alteration . Pyrite bearing , smoky quartz veins, offset, brecciated and interstitially surrounded by calcite and minor ankerite are locally observed in interval. Trace disseminated pyrite occurs in less potassic grd. Light grey, mfine grained, soft, poymicitic inclusions occur within weakly argillic, trace potassic zones.							
						LT	GN		PHC	2I	Py	3
						LT	PK		POT	1I	Py	5
						LT	BG		PRO	2I		
									ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
188.84	190.35	1.51	GRD	MG	shear brecciated interval of weakly propylitic, phyllic, argillic granodiorite. Trace pyrite is observed in phyllic altered section @ 190.60m (disseminated pyrite, increased quartz clasts and trace basal cleavage muscovite grains). Pyrite bearing quartz veins are also observed in phyllic altered section.							
						LT	BG	BX	PHC	2I	Py	4
						LT	GN		ARG	1I	Py	4
									PRO	2I		
190.35	191.05	0.70	GRD	MG	rubbly, breccited interval of weakly argillic, proplitic granodiorite. (fault related(?)). Minor , disseminated pyrite is observed in rubbly brecciated interval							
						LT	BG	RB	PRO	2I		
						LT	GN	BX	ARG	2I	Py	3
191.05	193.55	2.50	GRD	MG	weakly to moderately propylitic, weakly argillic and phyllic altered granodiorite. Blebby pyrite is obsserved in 1-3 mm smoky quartz veins (some dark veins appear to be brecciated by carbonitic infill and milky quartz. Trace disseminated pyrite is also observed in grd interval. Minor brecciated gouge seams are also observed in interval.							
						MD	GN		PRO	3I	Py	4
						LT	BG		ARG	1I		
						LT	GN		PHC	2I		
193.55	194.10	0.55	GRD	MG	weakly to moderate propylitic, trace argillic granodiorite containting 4mm-1 cm mineralized veins (2 veins at ~ 30 degrees TCA). Mineralized quartz veins contain blebby galena, disseminated arsenopyrite, blebby pyrite and honey brown sphalerite . Pyrite, arseno pyrite and sphalerite appear to interstitially surround blebby galena in vein. Clear quartz are also observed within mineralized veins. (Late stage mineral bearing fluids replace and brecciate exsisting clear quartz veins (?)). Trace 1-3 mm, pyite bearing veinlets occur in upper inteval section.							
						MD	GN		ARG	2I	Py	4
						LT	GN		PRO	3I	Gn	6
									PHC	1I	Sp	5
											As	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
194.10	195.30	1.20	GRD	MG	weakly to moderate propylitic, trace argillic, rubbly, gouge brecciated granodiorite interval containint 1-3 mm, mineralized quatz veins. Disseminated pyrite is observed throughout grd interval , and is more abundant in dark grey, soft rubbly zones. Mineralized veins contain blebby arsone pyrite, galena, pyrite and trace sphalerite. Light pink rhodochrosite appears to infill and brecciated mineralized vein zones. Dark, grey pyrite bearing , soft sections are weakly to moderately sericitized (soft, glitter, fine grained disseminated pyrite).							
						MD	GN				Sp	3
						LT	BG	RB	PRO	2I	Py	8
						LT	GN	BX	ARG	1I	Py	5
											Gn	3
											As	3
195.30	196.60	1.30	GRD	MG	shear brecciated interval of weakly propylitic, potassic granodiorite. Trace pyrite is observed within 1-2 mm quartz veinlets (~40 degrees TCA). Veinlets sometimes contain reddish, hematitic oxidation. Clay -oxidation is observed along fracture/joint surfaces. Trace hematitic alteration also occurs in more potassic altered grd sections.							
196.60	197.49	0.89	GRD	MG	rubbly, gouged, brecciated, moderate to strongly argillic, trace propylitic granodiorite. Pyrite blebs filling fracture surfaces in rubbly interval is observed. Disseminated pyrite also within discernable 1-2 mm quartz veins.							
197.49	199.36	1.87	GRD	MG	moderately argillic granodiorite with intermitten zones of moderate potassic alteration. Pyrite bearing, dark veinlets (~40 degrees TCA) are locally observed throughout interval. Some gouged, brecciated zones are also observed on interval.							
						MD	PK		POT	3I	Py	3
						LT	GN		ARG	3I		
199.36	200.41	1.05	GRD	MG	gouged, brecciated, rubbly interval of moderate argillic, trace potasssic granodiorite. Dark grey, pyrite bearing bands are observed (i.e. 199.55m). Pyrite bleb also occur in 1-2 mm quartz veinlets.							
						LT	PK	RB	ARG	3I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG	BX	POT	2I	Py	3
200.41	202.10	1.69	GRD	MG	moderately argillic, trace propylitic and potassic granodiorite interval containting local gouged, brecciated zones. Trace pyrite is observed in 1-3 mm, dark fine grained veinlets.							
						LT	PK		POT	2I	Py	3
						LT	BG		ARG	3I		
						LT	GN		PRO	2I		
202.10	204.23	2.13	GRD	MG	weakly argillic, potasic and trace propylitic granodiorite interval. Locally fracture zones are observed in interval. Trace pyrite is alo observed within altered grd							
						LT	PK	FR	ARG	2I	Py	2
						LT	GN		POT	2I		
						LT	BG					
204.23	204.89	0.66	GRD	MG	weakly argillic, weakly to moderate propylitic granodiorite interval. a 1 cm, mineralized quartz vein is observed @ 204.34m , in more propylitic grd zone. Vein contains blebby pyrite, trace galena blebs, interstitial trace arseno pyrite and trace sphalerite blebs. Clear quartz clasts (or replaced vein fragments (?)) are observed in mineralized vein . Arsenopyrite is spatially related to pyrite and galena is locally observed near sphalerite blebs. Small, vein restricted, carbonitic infilled fractures intruding perpedicular to mineralized quartz vein are obserbed. Trace, pinkish rhodochrosite inclusions also occur in mineralized vein (appear to partially infill vein).							
						MD	GN		ARG	2I	Sp	3
						LT	GN		PRO	3I	As	4
											Gn	3
											Py	6
204.89	205.74	0.85	FEL	MG	gouged, brecciated granodiorite exhibiting moderate argillic, trace potassic and propylitic alteration. Trace disseminated pyrite occurs within soft brecciated zones.							
205.74	206.70	0.96	FEL	MG	gouged, brecciated, rubbly faulted granodiorite interval exhibiting moderate argillic alteration. Trace disseminated pyrite is observed within rubbly grd fragments.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
206.70	209.10	2.40	GRD	MG	weakly propylitic, phyllic granodiorite with intermitten zones of weak argillic, trace potassic alteration. Trace disseminated pyrite occurs within host grd and within 1-2 mm quartz veinlets. Blebby pyrite also occurs along fracutre surfaces. Light brown/ ocre , fine grained dyke intrusions in granodiorite occurs @ 207.30 and 208.45m (~60 degrees TCA)>							
						LT	BG					
						LT	GN					
209.10	209.46	0.36	GRD	MG	brecciated, mineralized vein zone in moderate propylitic, weakl argillic granodiorite. Blebby pyrite occurs within darker , smoeky quartz veins and within brecciated sections of grd. Trace galena is observed in ankerite infilled, vein sections.							
						MD	GN	BX	PRO	2I	Ak	3
											Gn	2
											Py	6
209.46	210.49	1.03	GRD	MG	weakly argillic, trace propylitic and phyllic granodiorite interval. Trace pyrite occurs within grd interval and is contained within trace, 1-2 mm dark, fine grained veinlets.							
210.49	211.00	0.51	GRD	MG	weakly argillic, potassic, propylitic granodiorite interval. Trace calcite infilling fracture surfaces is locally observed.							
211.00	211.43	0.43	GRD	MG	rubbly section of weakly argillic, propylitic granodiorite. Pyrite blebs occurs along fracture surfaces in rubbly fragments							
211.43	212.26	0.83	GRD	MG	weakly propylitic, argillic, granodiorite with intermittent zones of trace phyllic, weak potassic and increased propylitic alteration. Disseminated pyrite is observed in grd section of trace phyllic alteration. Sub-mm pyrite bearing veinlets are also observed in interval							
212.26	213.10	0.84	GRD	MG	gouged, brecciated, weakly argillic, propylitic and trace potassic granodiorite interval. Trace disseminated pyrite is observed within brecciated clasts.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
213.10	213.64	0.54	GRD	MG	weakly argillic, trace phyllic granodiorite interval containint 1 - 2 cm mineralized veins. Blebby pyrite and semi massive pyrite is observed in vein @ 213.22m and semi massive pyrite in gouged, vein @ 213.55m. Pyrite in vein @ 213.22 is contained within a ankerite infilled quartz vein. Milky quartz inclusions appear to offset vein @ 213.22m Sub-mm sphalerite crystals are observed within vein and milky quartz.							
						LT	BG		PHC	1I	Py	8
						LT	GN		ARG	2I	Ak	3
									PRO	1I	Gn	3
213.64	214.00	0.36	GRD	MG	weakly argillic, moderately propylitic granodiorite interval. Trace disseminated pyrite is observed within 1-2 mm quartz veinlets and along fracture surfaces							
214.00	216.65	2.65	GRD	MG	weakly argillic, propylitic granodiorite interval with alternating zones of weakly potassic, moderately propylitic and weak argillic alteration. Disseminated pyrite occurs within sub-mm veinlets and blebby pyrite occurs in fracture surfaces (i.e. 215.85m). Fracture surfaces in rubbly zone @ 216.30 are locally observed.							
216.65	217.07	0.42	GRD	MG	locally fractured interval of weakly phyllic, trace argillic granodiorite. (interval is moderately silicified and trace pyrite is observed within grd and in quartz veins. Blebby pyrite along fracture surface @ 217.07 is observed							
						LT	GY		PHC	2I	Py	3
											Py	3
217.07	218.42	1.35	GRD	MG	gouge brecciated and locally rubbly sections of moderate argillic, weak propylitic granodiorite. Trace, disseminated pyrite is observed within grd unit.							
						LT	GN				Py	3
						LT	BG					
218.42	220.70	2.28	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite with intermittent small zones of weak argillic alteration. Calcite and quartz brecciated host grd @ 219.60m. Trace 1-2 mm, quartz veinlets also occur in interval							
						MD	GY		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	1I		
						LT	PK		ARG	2I		
220.70	222.29	1.59	GRD	MG	fractured interval of weakly propylitic, trace potassic, weak argillic granodiorite. Reddish hematitic oxidation occurs along joint surfaces.							
222.29	223.00	0.71	GRD	MG	Trace potassic, propylitic grd with local zones of weak argillic alteration							
223.00	223.50	0.50	GRD	MG	weak propylitic, argillic granodiorite interval							
223.50	224.03	0.53	GRD	MG	weakly argillic, trace phyllic and propylitic granodiorite interval containting trace pyrite blebs within host grd. Euhedral pyrite crystals are also obseved in fracture surface @ 229m.							
224.03	224.37	0.34	GRD	MG	Fractured, brecciate interval or weakly argillic, trace propylitic, phyllic granodiorite. Disseminate pyrite is observed within fractured zones and within competent grd rock.							
224.37	225.19	0.82	GRD	MG	Weakly propylitic, trace phyllic granodiorite interval containing mineralized veins @ 225.80-224.96 and 225.08-225.19. Blebby and disseminated pyrite , trace galena, and trae blackjack sphalerite is locally observed within vein zones. Pyrite occurs within dark grey, soft, (sericitized(?) bands within vein zone. Galena is observed within ankerite veining infilling vein zone. Ankerite vein appears to brecciate small pyrite bearing, dark grey clasts and grd clasts. Smaller 1-2 mm, pyrite bearing veinlets locally offset by fractures also occurs in interval. Trace, possibly chalcopyrite associated with pyrite rich zones is observed.							
						LT	GY		PRO	2I	Py	6
						LT	GN		PHC	1I	Gn	2
											Ch	1
											Py	5
											Ak	6
225.19	225.68	0.49	GRD	MG	weakly argillic, propylitic granodiorite interval. Trace pyrite is observed within grd host							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
225.68	225.94	0.26	VEN	MG	Mineralized vein zone gr interval containting blebby, disseminated pyrite, trace chalcopyrite. Pyrite is containted in dark grey, fine grained, gouge brecciated seams. Carbonitic infill Is locally observed within brecciated seams. Compared to previous vein zone, this vein zone contains mostly pyrite.							
						LT	BG	BX	PHC	1I	Ch	2
						LT	GN		ARG	1I	Py	5
									PRO	1I	Py	6
225.94	226.24	0.30	GRD	MG	weak propylitic, trace argillic granodiorite interval							
226.24	229.00	2.76	GRD	MG	weakl argillic, propypilitic granodiorite with intermittent zones of increased potassic, propyliti alteration. Clay brecciationg is observed @ 227.85-228. Trace disseminated pyrite is observed in grd host. Trace 1-2 mm, quartz veinlets are also observed in interval.							
229.00	230.12	1.12	GRD	MG	moderately argillic, weak propylitic granodiorite interval with local zones of reddish hematitic oxidation							
230.12	231.75	1.63	GRD	MG	moderately argillic, trace propylitic and weakly potassic granodiorite interval.							
231.75	232.84	1.09	GRD	MG	relativel unaltered grd interval (trace potassic propylitic(?) Minor chlorite and K-spar component observed).							
232.84	233.26	0.42	GRD	MG	moderate argillic, potassic granodiorite interval							
233.26	233.42	0.16	GRD	MG	fractured interval of weakly propylitic argillic granodiorite. Trace disseminated and blebby pyrite occurs in interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
233.42	233.86	0.44	VEN	MG	polymetallic vein (veins are ~ 40 degrees TCA) zone in fractured, trace peopylitic,phyllic and argillic granodiorite. Polymetallic vein contains semi massive galena, blebby arseno pyrite near galena, semi massive pyrite, Trace chalcopyrite and honey brown zoned sphalerite blebs. Zone contains 4 1-2 cm polymetallic veins of which two are enriched in galena, sphalerite and arsenopyrite. Sphalerite and arseno pyrite are observed within and rimming quartz vein. Trace milky quartz, ankerite and rhodochrosite inclusions in mineralized veins are locally observed as well.							
						LT	GN	RB	PRO	1I	Py	8
								FR	ARG	1I	Ak	3
											Sp	6
											Rh	3
											Gn	8
											Ch	3
											Py	5
											As	6
233.86	234.30	0.44	GRD	MG	Weakly propyplitic, trace potassic , fractured granodiorite interval. Disseminated pyrite is observed within interval.							
234.30	234.45	0.15	VEN	MG	Polymetallic vein zone in weakly propylitic, trace argillic granodiorite. Three polymetallic veins can be identified in interval and range from 2-5mm. Veins contain semi massive pyrite, galena, sphalerite and trace arsenopyrite. Galena appears is associated with sphalerite rich zones (sphalerite appears partially zoned; honey brown and black within a single grain). Blebby pyrite also occurs within grd.							
						LT	GN	FR	PRO	2I	Sp	5
								RB	ARG	1I	Gn	6
											Py	5
											As	3
											Py	6
234.45	235.35	0.90	GRD	MG	gouged, brecciated, weakly argillic, propylitic granodiorite interval containting disseminated and blebby pyrite. Pyrite occurs within, dark grey, soft gouged brecciated seams							
						MD	GY	RB	PRO	1I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG	FR	ARG	2I	Py	5
						LT	GN					
235.35	235.61	0.26	VEN	MG	Polymetallic vein zone containting semi massive pyrite, galena, blebby sphalerite, disseminated arseno and chalcopyrite. Sphalerite is spatially associated with galena rich zones. Arseno and chalco pyrite are observed in pyrite rich zones. Ankerite is also observed in vein zone where it partially infills mineralized vein zone. Small calcite infill fractures perpendicular to vein zone offset ankerite vein locally.							
						MD	GY		PRO	1I	Ch	2
						LT	GN				Ak	3
											As	3
											Py	6
											Gn	5
											Py	4
											Sp	4
235.61	238.35	2.74	GRD	MG	farctured, rubbly interva of weakly to moderate argillic , trace propylitic granodiorite with intermittent zones of trace potassic alteration. Disseminated pyrite is observed throughout rubbly interval							
						LT	BG	RB	ARG	3I	Py	4
						LT	PK	FR	PRO	1I		
						LT	GN					
238.35	238.68	0.33	GRD	FG	rubbly granodiorite interval (cave(?)) . Disseminated pyrite is commonly observed within fine rubbly zone.							
						LT	GY	RB				
238.68	239.22	0.54	GRD	MG	fractured, weakly argillic, trace potassic and trace propylitic granodiorite. Trace disseminated pyrite is observed in fractured zone							
239.22	242.26	3.04	GRD	MG	trace potassic, propylitic granodiorite interval with local fractured zones and intermittent increased propylitic, argillic sections.							
242.26	243.70	1.44	GRD	MG	fractured, rubbly trace propylitic, potassic granodiorite. Reddish hematitic oxidation is locally observed.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
243.70	244.60	0.90	GRD	MG	moderate propylitic, weakly argillic granodiorite interval. Reddish hematite oxidation is observed on interval							
244.60	245.35	0.75	GRD	MG	weakly argillic, propylitic granodiorite interval with local geouge brecciated sections.							
245.35	246.00	0.65	GRD	MG	gouged , brecciated , moderatel argilic, trace propylitic granodiorite.							
246.00	246.70	0.70	GRD	MG	weakly propylitic, trace argillic granodiorite interval. Trace pyrite is observed in grd host.							
246.70	247.24	0.54	GRD	MG	weakly argillic, trace propylitic, potassic granodiorite interval containting 1-2 mm quartz veinlets							
247.24	248.75	1.51	GRD	MG	weakly propylitic, argillic and trace potassic tranodiorite interval containting a rubbly zone from 247.65-247.90. Disseminated and blebby pyrite is locally observed in rubbly grd section							
248.75	249.65	0.90	GRD	MG	trace propylitic granodiorite overprinting trace argillic and potassic alteration. Interval is fractured.							
249.65	252.23	2.58	GRD	MG	weakly argillic , propylitic granodiorite with intermittent zones of trace potassic altered grd. Soft, gouge brecciated seams are locally observed throughout interval. a 2 cm, light pink, rhodochrosite infilled, pyrite bearing quartz vein is observed. A 1 cm, milky quartz vein is observed @ 251.18m. A fractured, grd section is observed @ 250.70-250.90m.							
252.23	252.70	0.47	GRD	MG	Gouged, brecciated and sheared interval of weakly argillic and trace propylitic granodiorite. Dark grey, fine grained, sheared pyrite bearing veins are locally observed . 1-3 mm, carbonitic clasts entrained in pyrite bearing veins are also observed.							
252.70	253.74	1.04	GRD	MG	moderately argillic weakly propylitic and potassic granodiorite interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
253.74	254.43	0.69	GRD	MG	weakly argillic, trace potassic, propylitic granodiorite interval. Trace 1-2 mm, quartz veinlets occur in interval and contain trace disseminated pyrite.							
254.43	255.73	1.30	GRD	MG	weakly potassic, argillic granodiorite interval containting local rubbly zones. Dark grey, sub-mm, veinlets containting trace sub-mm pyrite occur in interval.							
255.73	257.10	1.37	GRD	MG	locally fractured, weakly argillic, propylitic granodiorite interval.							
257.10	258.77	1.67	GRD	MG	fractured interval of weakly potassic, argillic, trace propylitic granodiorite. A 1 cm quartz vein containting trace sphalerite bleb is observed @ 257.60m. Pyrite bearing veinlet containting blebby pyrite and sphalerite occurs @ 258.45m. Vein is locally offset by fracturing. Reddish hematite oxidation is observed along fractures/joint surfaces.							
						MD	GN		PRO	2I		
						LT	BG	FR	ARG	2I	Sp	2
						LT	PK		POT	2I	Py	3
258.77	259.38	0.61	GRD	MG	Moderate potassic, weakly propylitic trace argillic granodiorite interval. Trace disseminated pyrite is observed in less potassic zones proximal to vein zone i.e. 259.28m.							
259.38	259.78	0.40	VEN	MG	pyrite bearing vein zone (~ 45 degrees TCA) in weakly argillic, propylitic granodiorite. Vein is brecciated and infilled by hematite andkerite and calcite (calcite and ankerite appear to brecciate vein zone. Blebby pyrite is observed within quartz vein and within dark grey, fine grained gougy seams. Ankerite appears to interstitially surround quartz lasts within quarz vein. Trace disseminated, euhedral cubic pyrite crystals occurs within altered granodiorite interval.							
						LT	BG	BX	ARG	2I	He	2
						LT	GN		PRO	1I	Ak	3
											Py	4
											Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
259.78	261.28	1.50	GRD	MG	Fractured interval of weakl potassic, propylitic and tracce argillic granodiorite. Chlorite and reddish hematite oxidation is commonly observed in fracture and joint surfaces.							
						MD	GN		POT	2I		
						DK	RD	FR	PRO	2I		
									ARG	1I		
261.28	262.44	1.16	GRD	MG	more competent interval of weakly potassic, propylitic and trace argilic granodiorite. Minor gouge brecciation is locally observed in section. Trace 1-2 mm quartz veinlets are also observed in interval.							
262.44	262.75	0.31	VEN	MG	Vuggy pyrite breccia containting trace pyrite in moderate argillic, trace propylitic granodiorite. Pyrite is observed wtihin dark, fine grained bands surrounded by ankerite and at the rims of quartz/ankerite breccia zone. Trace sub-mm sphalerite crystals are also present in vein breccia zone. Trace galena, is observed in light pink rhodochrosite bands, where rhodochrosite appears to interstitially surround small galena blebs. Ankerite bands microbrecciate quartz clasts as well.							
262.75	263.02	0.27	GRD	MG	weakly argillic, propylitic granodiorite interval containing trace, disseminated pyrite in host grd and within dark, grey, soft veinlets.							
263.02	265.00	1.98	GRD	MG	interval compososed of moderate potassic, weakly argillic/ propylitic granodiorite. Interval is locally fractured and contains chlorite and hematite oxidation along fractures and joint surfaces.							
						LT	GN	FR	PRO	2I		
						LT	PK		POT	3I		
									ARG	2I		
265.00	265.44	0.44	GRD	MG	moderate argillic, weakly propylitic trace propylitic granodiorite interval containting trace fine grained disseminated pyrite .							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
265.44	265.72	0.28	VEN	FG	vein zone in weakly argillic, propylitic granodiorite. Three veins (to are ~ 45 degrees TCA and a clear quartz vein is ~ 5 degrees TCA) are observed and are ~ 1 cm thick. Disseminated pyrite and trace blackjack sphalerite occurs within quartz vein zones. Pyrite also occurs in dark grey, fine grained bands within quartz vein. Ankerite infills and brecciates pyrute bearing quartz vein. Trace honey brown sphalerite is spatially associated with small pyrite bands within quartz vein.							
265.72	267.87	2.15	GRD	MG	moderate argillic, weakly potassic and trace propylitic granodiorite interval. Trace 1-3 mm, pyrite bearing quartz veinlets are observed. Trace pybrite is also observed in sub-mm dark grey bands within interval.							
267.87	269.62	1.75	GRD	MG	weak argillic alteration overprinting weak potassic and trace propylitic alteration in granodiorite interval. From 269-269.62, interval is fractured and exhibits soft, gouged seams.							
269.62	272.31	2.69	GRD	MG	Fractured interval of weakly potassic, trace propylitic granodiorite. Dark red hematitic oxidation is observed along fractures and joint surfaces.							
272.31	276.35	4.04	GRD	MG	light pink, weakly to moderately silicified, weakly potassic, argillic granodiorite interval. Interval is fractured and contains sub-mm, reddish, magnetic bands and irregular inclusions .							
						LT	PK		POT	2I		
						LT	BG		ARG	1I		
276.35	277.00	0.65	GRD	MG	rubbly, fractured interval composed of moderately argillic, trace propylitic granodiorite. Trace disseminated pyrite is observed in rubbly zones and within quartz vein fragments in rubbly zones. Vein fragments contain pyrite bearing dark grey, bands and light pink 3-4 mm, rhodochrosite veins. Fault related interval (?)(interval is highly fractured but no shearing, or fault brecciation is observed).							
						LT	GN	RB	ARG	3I		
						LT	BG	FR	PRO	1I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.00	278.13	1.13	GRD	MG	moderate potassic, weakly argillic granodiorite interval with local gouge brecciated zones. Brecciated zones contain fine grained disseminate pyrite bands.							
						LT	PK					
						LT	BG					
278.13	279.64	1.51	GRD	MG	moderate argillic, trace propylitic, weakly silicified granodiorite interval containing sub-mm, dark grey, pyrite bearing bands. Trace, 1-2 mm, offset, ankerite infilled, sphalerite/pyrite veinlets are also observed in interval							
						LT	BG				Py	3
279.64	280.00	0.36	GRD	MG	rubble interval of moderately argillic, trace propylitic granodiorite containting sub-mm, dark grey, pyrite bearing bands.							
280.00	281.70	1.70	GRD	MG	moderately argillic, trace propylitic, weakly silicified granodiorite witih local rubbly zones. Pyrite occurs in sub-mm, dark grey fine grained bands. Gouged, brecciated sections are observed in interval as well.							
281.70	284.57	2.87	GRD	MG	moderately argillic, trace potassic, weakly silicified granodiorite interval with local rubbly, fractured and gouge brecciated zones. Interval appears slightly more potassic than last and contains sub-mm, dark, magnetic inclusions almost giving the grd host a cracked texture. Trace disseminated pyrite is observed on rubbly zones and within dark, grey, fine grained bands.							
284.57	285.75	1.18	GRD	MG	locally gouged, brecciated, moderate propylitic, weakly argillic granodiorite interval. Pyrite occurs within 1 mm, dark grey, soft veinlets. Pyrite is more abundant in brecciated zones.							
						LT	GN					
285.75	286.32	0.57	GRD	MG	gouged, brecciated , moderately propylitic granodiorite interval (fault brecciated (?), fault hanging wall (?). Disseminated pyrite occurs within dark, grey, gouged breccited seams within grd unit. Trace, 4 mm, quartz vein (20 degrees TCA) containting pyrite and sphalerite blebs is observed @ 285.85m.							
						MD	GN	BX	PRO	3I	Sp	3
						LT	GN	FR			Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
286.32	288.33	2.01	GRD	MG	flocally fractured, gouged brecciated , moderately propylitic granodiorite interval. Pyrite occurs within 1 mm, dark grey, fine grained veinlets and within 1 mm, quartz veinlets. Pyrite is also observed within gouged brecciated seams.							
288.33	288.57	0.24	VEN	MG	fractured,polymetallic vein zone containting semi massive pyrite, galena, trace sphalerite and possibly arsenopyrite. Pink, rhodochrosite is commonly observed within polymetallic bearing veins. (rhodochrosite partially infilling and brecciating mineralized vein zone and host grd).							
288.57	290.00	1.43	GRD	MG	fractured interval of weakly propylitic, trace argillic granodiorite. Disseminated pyrite is locally observed thourhgout grd host and within soft, gouged seams.							
						LT	BG	FR	PRO	2I	Py	4
						LT	GN		ARG	2I		
290.00	291.48	1.48	FLR	MG	fault hanging wall composed of trace potassic, trace propylitic granodiorite. Interval is fractured and contains chlorite along fracture,join surfaces. Trace disseminated pyrite is observed within fractured grd interval.							
291.48	293.00	1.52	FLT	FG	rubbly, gouged, brecciated fault interval. Entrained clasts are observed within brecciated zones.							
293.00	294.57	1.57	FLR	MG	fault footwall interval composed of moderately propylitic granodiorite. Gouged brecciation and vein brecciation is locally observed in interval. disseminated pyrite is present in dark grey, fine grained gouged, brecciated sems and within brecciation zones. Ankerite and milky quartz appear to brecciated altered grd host. Red, hematitic infill in small , irregular veinlets is also observed on interval.							
294.57	295.37	0.80	GRD	MG	Gouged, brecciated and fractured moderately propylitic granodiorite. A vein breccia containting fine , disseminate pyrite where ankerite brecciates host rock occurs proximal to fault footwall section. 1-2 mm, black tourmaline blebs occur @ 294.96m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN	BX	PRO	3I	Ak	2
											Py	4
295.37	295.66	0.29	GRD	MG	rubbly interval of moderately propylitic granodiorite. Trace disseminated pyrite is locally observed on interval.							
295.66	296.10	0.44	FLR	FG	rubbly interval of weakly potassic granodiorite							
						LT	PK					
296.10	296.60	0.50	FLR	FG	weakly potassic, trace propylitic granodiorite interval containting moderate hematite alteration.							
296.60	300.00	3.40	FLR	FG	fractured and rubbly interval of weakly potassic granodiorite interval exhibiting moderate hematite oxidation. (fault zone(?)).							
						DK	RD	RB	POT	2I		
						DK	GN					
300.00	300.58	0.58	FLR	MG	farctured, weakly potassic trace propylitic granodiorite interval with trace disseminated pyrite along fracture surfaces.							
300.58	301.43	0.85	GRD	MG	Fractured, gouged interval of moderately propylitic granodiorite containin 3mm-2 cm polymetallic veins. Vein @ 300.75 m contain blebby arsenopyrite, blebby pyrite (within arseno bearing zone) and trace galena and sphalerite within ankerite. Ankerite appears to brecciated and partially infill polymetallic vein. Blebby an disseminate pyrite is also observed within altered grd. Vein zone also contains light grey, quartz brecciating ankerite and mineralized quartz veins.							
						MD	GN				Py	5
						DK	GN				As	8
											Sp	3
											Ak	4
											Qz	5
											Gn	2
301.43	302.20	0.77	GRD	MG	weakly argillic, trace propylitic granodiorite , fracture granoiorite interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
302.20	302.60	0.40	VEN	MG	weakly propylitic granoiorite containting 1-4 mm, quartz veins. Quartz veins contain pyrite bearing, sub-mm, fine grained bands. Blebby pyrite pyrite is observed within altered grd proximal to veins (most pyrite is around veins with very little pyrite within the actual veins). Carbonitic infill (rhodochrosite(?), slightly pink) appears to brecciated quartz veins.							
						MD	GN		PRO	2I	Py	4
						LT	GN				Py	2
302.60	303.95	1.35	GRD	MG	weakly to moderate argillic trace propylitic granodiorite interval containting reddish hematite oxidation along fractures. Chlorite is also observed along fracture surfaces.							
303.95	304.40	0.45	GRD	MG	fractured interval of weakly argillic trace propylitic granodiorite. Trace disseminated pyrite occurs within grd host and is observed within carbonate infilled, quartz veins (i.e. 304m).							
304.40	305.56	1.16	GRD	MG	sheared, fractured, weakly propylitic, argillic granodiorite interval.							
						LT	BG		ARG	2I		
						LT	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.40	1.40	OVB	OVB	--	ovb
1.40	11.22	9.82	GRD	GRD	MG	Granodiorite interval with trace propylitic potassic (chlorite and K-spar oberved in grd interval) and local zones of weak argilic alteration. Interval is ractured and contains reddish/brownish clay oxidation along fracture and joint surfaces. Highly fractured rubbly zone is observed @ 8.15-8.60m (zone of local argillic alteration).
11.22	13.90	2.68	GRD	GRD	MG	Weak argillic and pervasively oxidized granodiorite interval. Pervasive oxidation within granodiorite clasts (oxidation of argillized clasts) and matrix is commonly occurring as well as reddish/brown clay oxidation along fractures and joint surfaces. Trace sub-mm pyrite occurs in granodiorite interval (only within grd not vein hosted pyrite observed).
13.90	15.24	1.34	FLR	FLT	FG	Clay rich, pervasively oxidized, brecciated fault zone. Interval is highly fractured and small segments of altered granodiorite can be observed within fault zone. Upper portion of fault zone exhibits darker red and orange oxidation while lower section displays light brown/yellow oxidation.
15.24	16.76	1.52	GRD	GRD	MG	Locally fractured, weakly propylitic granodiorite interval with minor oxidation in GRD host (oxidation mostly occuring along fracture/joint surfaces as yellow/brownish clay). Trace oxidized calcite veinlets sporadically occur throughout interval.
16.76	17.45	0.69	GRD	GRD	MG	rubbly, fractured interval of weeakly oxidized granodiorite. In this section oxidation is not limited to joint and fracture surfaces but appears to weakly oxidized grd host rock.
17.45	18.29	0.84	GRD	GRD	MG	Locally fractured, weakly propylitic granodiorite interval with minor oxidation in GRD host (oxidation mostly occuring along fracture/joint surfaces as yellow/brownish clay). Trace oxidized calcite veinlets sporadically occur throughout interval.
18.29	19.20	0.91	GRD	GRDA	MG	fractured, rubbly, pervasively oxidized, weakly propylitic granodiorite interval exhibiting brecciation along gougy seams (fault related (?)). Brecciated gougy seams are ~ 15 degrees TCA.
19.20	20.31	1.11	GRD	GRDA	MG	pervasively oxidized granodiorite interval with brecciated, gougy zones. Unit is more competent than previous interval. (fault brecciation(?))
20.31	22.00	1.69	GRD	GRDA	MG	Trace propylitic, intermittent trace to weak argillic, weakly to moderately oxidized,granodiorite.
22.00	23.44	1.44	GRD	GRDA	MG	weakly argillic, pervasively oxidized granodiorite interval. Oxidation in interval is red compared to previous oxidized zones (more hematite oxidation than clay). Trace 1-2 mm, oxidized veinlets are locally observed @ 23.20m
23.44	24.38	0.94	GRD	GRDA	MG	weakly argillic, oxidized granodiorite interval. Interval contains oxidized, stringer veins containing fine grained disseminated pyrite. (oxidation similar to previous interval but exhibits increased pyrite bearing veinning). Interval contains soft, gougy brecciated seam at 23.93m. Hematite bands are also observed in stringer vein zone.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
24.38	26.60	2.22	GRD	GRDF	MG	fractured, rubbly interval of pervasively oxidized grd . (fault related (?); no sign of brecciation or sheared just rubbly interval.
26.60	27.88	1.28	GRD	GRD	MG	Weakly argillic, moderately oxidized granodiorite interval. Oxidation is redder (hematite) and more pervasive than previous interval. Dark brown , rubbly zone occurs at 26.85-27m. Trace, pyrite bearing veinlets are locally observed as well.
27.88	28.96	1.08	GRD	GRD	MG	fractured, rubbly interval of oxidized, weakly argillic granodiorite.
28.96	29.40	0.44	GRD	GRD	MG	weakly oxidized, granodiorite interval. Interval is fractured, less oxidized and more competent than previous interval.
29.40	30.48	1.08	GRD	GRD	MG	fractured, in trace propylitic granodiorite. Granodiorite contains dark grey, fine grained magnetic inclusions (i.e. 29.80m). Granodiorite is less oxidized than previous interval.
30.48	34.90	4.42	GRD	GRD	MG	weakly potassic, trace propylitic , fractured granodiorite. Oxidation mostly occurs along fracture and joint surfaces. Some reddish hematite alteratin is also observed in fracture/joint surfaces.
34.90	36.58	1.68	GRD	FLT	MG	moderately oxidized, rubbly granodiorite interval (fault related (?). Small fragments of granodiorite can be identidied in rubbly (faulted (?)) zone. Granodiorite fragments appear to be weakly potassic and trace propylitic (K-spar and chlorite clasts can be identified).
36.58	37.20	0.62	GRD	GRDA	MG	Oxidized, fractured and rubbly interval of weakly potassic, trace propylitic granodiorite
37.20	38.90	1.70	GRD	GRDA	MG	weakly to moderately potassic granodiorite exhibiting weak hematite alteration in grd and along fracture/joint surfaces. Interval is more comptetent than surrounding highly fractured/rubbly granodiorite zones.
38.90	39.62	0.72	GRD	GRDA	MG	weakly to moderately potassic , highly fractured granodiorite interval with weak hematite oxidation on surface and along joint/fracture surfaces. Interval is less competent than last.
39.62	41.10	1.48	FLT	FLT	--	oxidized, gougy clay rich, rubbly faulted interval. small fragments of granodiorite are identified. (faulted (?)).
41.10	44.20	3.10	GRD	GRD	MG	weakly potassic, trace argillic,fractured, oxidized granodiorite interval. Oxidation appears dark red (hematite(?) along fractures, joint surfaces and on host rock surface. Trace 2-6 mm quartz veins are locally observed throughout interval.
44.20	46.55	2.35	GRD	GRD	MG	Granodiorite interval exhibiting weak phyllic alteration and trae potassic alteration. Oxidation is light brown on surface (less hematite than previous interval). Shear brecciated gouges are observed near the grf fault contact (i.e. 46.40m). Trace, fine grained disseminated pyrite is observed within interval.
46.55	47.31	0.76	GRD	FLT	MG	gouged, brecciated , granodiorite interval (fault brecciated). Gouged seams are lighter colored than rest of faulted interval
47.31	48.77	1.46	FLR	FLT	MG	rubbly, fractured, gouged, fault brecciated interval of faulted grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
48.77	50.29	1.52	GRD	FLTM	MG	interval composed of moderately oxidizied , rubbly, gouged and brecciated granodiorite fault footwall interval. clay rich gougy seams are observed proximal to mineralized vein.
50.29	50.45	0.16	MX	FLTM	FG	clay rich, gouged vein section in fault foot wall. Interior of vein is light to dark grey and contains fine grained disseminated pyrite.
50.45	50.95	0.50	MX	FLTM	FG	Rubbly, oxidized mineralized fault footwall vein zone containing fine grained disseminated pyrite, cubic galena, fine grained arsenopyrite. Hematite vein replacement is locally observed in small discernable fragments.
50.95	53.20	2.25	GRD	GRDA	MG	weakly oxidized, weakly to moderately argillic granodiorite interval. Clay rich, oxidation is locally observed along fractures and joint surfaces. @ 52.8m, dark reddish, hematitic oxidation occurs within altered granodiorite interval.
53.20	54.00	0.80	GRD	GRDA	MG	gouged brecciated and rubbly interval of weakly to moderately oxidized granodiorite (fault related(?))
54.00	54.86	0.86	GRD	GRDA	MG	light grey, brecciated and gouged granodiorite intervalin faulted zone. Interval more competent and less oxidized than previous.
54.86	57.00	2.14	GRD	GRDA	MG	weakly oxidized, trace propylitic/argillic granodiorite containing small, gougy clay seams and pyrite,arsonepyrite bearing quartz veins (i.e. 53.30m). Disseminated pyrite and small arsonepyrite blebs are observed in low angle 15 degrees quartz vein that is crosscut by minor 1-2 mm milky quartz veinlets. Dark grey, fine grained (smoky quartz(?) also contain sub-mm blebby pyrite. @ 56.20m soft, fracture zones are ~ 45 degrees TCA.
57.00	59.03	2.03	GRD	GRDA	MG	Moderately oxidized granodiorite exhibiting trace propylitic and weak alteration. Gouge brecciation zone occurs @ 57.60m (shear/fault related(?)) . Interval also displays reddish hematitic oxidation locally within gouge brecciated zone. From 57.90-59.04 interval is more fractured.
59.03	60.60	1.57	GRD	GRDA	MG	Moderately oxidized, gouge brecciated, locally rubbly, granodiorite interval (fault brecciated (?)). Increased fault brecciation is observed proximal to grd-quartz feldspar porphyry dyke contact. Trace 1-2 mm unmineralized quartz veinlets are sporadically observed in interval. Hematite clasts are identified in interval as well as trace chlorite clasts (trace propylitic alteration).
60.60	61.47	0.87	GRD	GRDA	MG	moderately oxidized, weakly argillic and trace propylitic granodiorite interval. Grd is more competent than previous interval and displays gougy brecciation at the contact with quartz feldspar porphyry dyke intrusion (i.e. 61.47m). Trace 1-2 mm unmineralized quartz veinlets are locally observed throughout interval.
61.47	61.94	0.47	QFP	DYK	FG	fractured, moderately oxidized quartz feldspar porphyry dyke interval. Fractured and oxidized proximal to contact
61.94	62.53	0.59	QFP	DYK	FG	competent interval unaltered quartz feldspar porphyry dyke with some oxidation along fracture/joint surfaces.
62.53	62.94	0.41	QFP	DYK	FG	Rubbly, weakly oxidized interval of quartz feldspar porphyry dyke.
62.94	63.80	0.86	QFP	DYK	FG	competent interval of quartz feldspar porphyry dyke. Trace oxidation along fractures and joint surfaces is locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
63.80	64.01	0.21	QFP	DYK	FG	oxdizied, gouged, brecciated quartz feldspar porphyry dyke interval. oxidation and brecciation occur near quartz feldspar porphyry dyke and grd unit.
64.01	64.67	0.66	GRD	GRDA	MG	weakly propylitic, trace argillic granodiorite interval with locally oxidation zones. Near brecciated contact with quartz feldspar porphyry dyke, a 3 cm pyrite bearing vein is observed containing fine disseminated pyrite and euheral pyrite crystals developed in fractured surfaces. Quartz vein contains sub-mm, dark, fine grained inclusions (smoky quartz (?). Clay oxidation is commonly observed along fracture and joint surfaces.
64.67	65.47	0.80	GRD	GRDA	FG	oxidized, rubbly zone of weakly propylitic granodiorite.
65.47	66.35	0.88	GRD	GRDA	MG	trace propyitic , locally oxidized granodiorite interval containting dark, fine grained magnetite, mafic inclusions.
66.35	67.20	0.85	GRD	GRDA	FG	rubbly zone of granodiorite. Interval displays dark ressish hematitic oxidation compared to previous rubbly zone.
67.20	71.60	4.40	GRD	GRDA	MG	granodiorite interval exhiiting trace propylitic alteration. Overall, interval is relatively unaltered with minor zones of trace propylitic alteration, competent and contains 1-2 mm, pyrite bearing, dark fine grained smoky quartz veinlets. Pyrite is also observed to interstitially surround dark, fine grained veinlets. (i.e. 67.74). Trace hematitic venlets and hematitic oxidation is locally observed in interval with clay-oxidation and reddish hematitic oxidation being more prominent along fracture and joint surfaces.
71.60	73.93	2.33	GRD	GRDA	MG	granodiorite interval with intermittent zones of moderate argillic alteration. Unaltered interval of grd contains trace chlorite clasts (trace propylitic overprint(?)). Dark red, oxidation is observed in argillic altered grd sections. Grd interval contains dark, fine grained, magnetic inclusions and appears to be more oxidized in argillic altered zones. Trace 2-4 mm unmineralized quartz veins are locally observed in altered zones. Clay oxidation along fracture/joint surfaces is commonly occuring throughout interval.
73.93	77.80	3.87	GRD	GRDA	MG	granodiorite interval with intermittent zones of weak argillic alteration. Interval is more fractured and exhibits less alteraiton than previous unit. Trace chlorite clasts are observed in relatively unaltered grd sections (trace propylitic component(?)). Minor 1-2 mm, dark, fine grained, unmineralized veinlets are locally observed in unaltered grd sections. Clay oxidation is observed along fractures and joint surfaces.
77.80	79.14	1.34	GRD	GRDA	MG	moderate propylitic, trace phylic-propylitic granodiorite interval exhibiting gouge brecciation zones. Fine grained disseminated pyrite is locally observed within altered grd interval (increased local quartz content may be trace phyllic(?)). Trace 1-2 mm quartz veins occur in interval. Oxidation along gouged, brecciated seam is locally observed as well.
79.14	79.84	0.70	GRD	GRDA	MG	rubbly zone of weakly to moderate argillic granodiorite. Disseminated pyrite observed in light grey sections of unoxidized grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
79.84	80.20	0.36	VEN	VEIN	MG	Trace propylitic granodiorite interval with intermittent, alternating zones of moderate argillic-propylitic zones and trace phyllic alteration near vein zones (i.e. 80-80.40m). Quartz/ ankerite vein zones containing semi massive, interstitial pyrite and trace arseno pyrite are locally observed in sections of trace phyllic, propylitic altered grd ;(near vein zones, grd exhibits increased quartz clasts, basal cleavage muscovite , disseminated pyrite in host rock (trace phyllic alteration)). Chlorite clasts are more abundant near pyrite bearing zones. Pyrite in quartz vein appear to interstitially infill vein. Ankerite vein is observed parallel to pyrite -bearing quartz vein. Light pink, rhodochrosite veins surrounding quartz vein appear to partially brecciate quartz vein and surrounding host rock. Dark grey, smoky quarz veins running parallel to mineralized veins are also observed. Clay-oxidation is commonly observed along fracture/joint surfaces.
80.20	83.25	3.05	GRD	GRD	MG	Trace propylitic, potassic granodiorite (chlorite clasts and K-spar component observed) with intermittent zones of weak argillic and weak propylitic alteration (i.e. 80.20-80.45m, 81.75-81.90m) (zones are light green, contain more chlorite and swelling of feldsphathic clasts). Some reddish, hematitic oxidation is locally observed in lower portion of granodiorite and within fracture/joint surfaces. Trace, 3-5 mm unmineralized, quartz veins with vein restricted carbonitic infill occurs in interval @ 81.83m. @ 83-83.25, 1-m mm, dark, fine grained, magnetic veinlets containing trace fine grained pyrite are observed with hematite infilling some of these veins.
83.25	83.57	0.32	GRD	GRD	MG	fractured interval of trace propylitic/potassic granodiorite. Light brown/yellowish clay and dark red hematitic oxidation is commonly observed along fractures and joint surfaces.
83.57	86.54	2.97	GRD	GRD	MG	Trace potassic , propylitic altered granodiorite interval (chlorite clasts and K-sapr component in grd matrix observed). Interval is more competent than previous and displays trace 1-2 mm, calcite veinlets and 1-2 mm, dark, fine grained, magnetic veinlets.
86.54	87.56	1.02	GRD	GRD	MG	weakly oxidized, fractured interval of granodiorite exhibiting weak propylitic, weak argillic and trace potassic alteration (chlorite clasts and soft, swelled feldspathic clasts are more prominent in this interval with minor k-spar component in grd matrix). Yellow light brown clay oxidation and trace reddish hematitic alteration occur along fracture and joint surfaces.
87.56	89.44	1.88	GRD	GRD	MG	trace to weakly potassic , trace propylitic granodiorite interval. (trace chlorite clasts observed and increased K-spar matrixcomponent observed in grd interval. Trace sub-mm unmineralized quartz veins; sometimes containing hematite are observed in interval.
89.44	91.51	2.07	GRD	GRD	MG	Granodiorite similar to previous interval but with decreased potassic component and trace argillic alteration. Fractured zones occur @ 89.90-90.40m (chlorite can be observed along fracture surfaces (weak propylitic alteration (?)). Trace 1-2 mm carbonate veinlets are sporadically observed on interval. A 0.5 cm weak potassic halo surrounded a 1-2 mm quartz veinlet is observed @ 90.52m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
91.51	95.75	4.24	GRD	GRD	MG	Interval is composed of highly fractured, rubbly, weakly potassic and argillic granodiorite. Chlorite and hematite are commonly observed along fracture and joint surfaces (hematite and chlorite slickenlines observed). Fractured interval might be fault related (?).
95.75	96.35	0.60	GRD	GRDA	MG	weakly potassic, propylitic, moderate argillic granodiorite interval. soft, clay gouge seams and brecciation are observed near pyrite bearing vein zone (i.e 96.25m). Veins contains disseminated pyrite in dark, fine grained veins and within around host grd.
96.35	96.64	0.29	GRD	GRDA	MG	Fractured, rubbly interval of weaklty to moderate argillic, trace propylitic (chlorite clasts locally observed in competent grd fragments and in some frature/joint surface) granodiorite. Light brown and reddish oxidation also occurs in rubbly grd interval. Rubbly, altered granodiorite fragments contain fine grained disseminated, and 1-2 mm, cubic, euheral pyrite.
96.64	97.54	0.90	GRD	GRDA	MG	Granodiorite interval exhibiting weak argillic, weak potassic and trace propylitic alteration (swelling of faldspathic clasts observed, increased, K-spar component in grd matrix and trace chloritized clasts observed. Weak oxidation is observed along fracture surfaces. Trace 1-2 mm, dark, fine grained, magnetic veinlets containint carbonitic infill are observed @ 97.30m.
97.54	100.58	3.04	GRD	GRDA	MG	Relatively unaltered granodiorite interval with trace propylitic and potassic alteration (trace chlorite clasts and k-spar matrix component in grd). Trace 1-2 mm, unmineralized quartz veinlets are observed sometimes with carbonitic infill within them (i.e. 98.97-99m). Orange/brownish clay oxidation, reddish oxidation and chlorite coating on fracture and joint surfaces are locally observed.
100.58	101.00	0.42	GRD	GRDA	MG	granodiorite interval exhibiting weak potassic and argillic alteration.
101.00	101.64	0.64	GRD	GRDA	MG	weakly argillic, propylitic and trace potassic altered granodiorite interval. interval is soft and fratured and contains 1-cm pyrite bearing quartz/carbonitic veins in locally less potassic, more argillic, propylitic granodiorite section. Disseminated pyrite and blebby pyrite is observed within vein. Ankerite vein running parallel to sub-mm, dark, fine grained, pyrite bearing inclusions is observed, sometimes microbrecciating host grd. Orange clay oxidation occurs in lower portion of interval near rubbly fault zone (?).
101.64	102.28	0.64	FLT	FLT	--	pervasively oxidized, rubbly, faulted zone. Gouge brecciation occurs in rubbly interval and orage-clay and reddish hematitic oxidation are locally observed
102.28	103.63	1.35	GRD	GRDA	MG	relatively unaltered granodiodirte interval with intermittent local zones of weak propylitic and potassic alteration. Trace fine grained pyrite is someties observed in less altered interval zones.
103.63	104.90	1.27	GRD	GRDA	MG	Weakly argillic , propylitic, trace potassic altered granodiorite interval. a 1 cm milky quartz vein rimmed by sub-mm, fine grained, pyrite bearing-smoky veinlets are observed @ 104.05m. Milky quartz veins contains 1-2 mm, clear quartz clasts intruded in vein. (or milky quartz vein replacement of clear quartz (?)).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
104.90	107.15	2.25	GRD	GRDA	MG	unaltered section of granodiorite with local intermittent sections of weakly argillic, propylitic and trace potassic altered granodiorite.
107.15	107.78	0.63	GRD	GRDA	MG	granodiorite interval exhibiting weak to moderate propylitic alteration and argillic alteration. (more chlorite clasts observed, fine grained disseminated pyrite in grd, increased clay and feldspathic clast swelling). 1-3 mm milky quartz and dark, fine grained, pyrite bearing smoky quartz bands are locally observed in propylitic altered granodiorite.
107.78	111.00	3.22	GRD	GRDA	MG	granodiorite interval with alternating zones of weak to moderate argillic, potassic and trace propylitic alteration. Trace 1-2 mm quartz veinlets are prominently observed in more propylitic altered sections.
111.00	113.00	2.00	GRD	GRDA	MG	Fractured interval of alternating unaltered and weakly argillic/potassic and propylitic altered granodiorite.
113.00	114.00	1.00	GRD	GRDA	MG	fractured interval of weaklly argillic, potassic and trace propylitic (?) (trace chlorite clasts on grd and in fracture surfaces) granodiorite.
114.00	114.67	0.67	GRD	GRDA	MG	Granodiorite interval exhibiting moderate to strong propylitic alteration overprinting trace potassic alteration. Chlorite clasts are more abundant, epidote locally observed as well. Interval contains a 4-5 mm, low angle (10 degrees TCA) mineralized quartz vein, with carbonitic infill, that is crosscut but smaller 1-2 mm, milky quartz veinlets. Blebby pyrite and honey brown sphalerite are observed in mineralized vein.
114.67	115.25	0.58	GRD	GRDA	MG	weakly argillig and potassic granodiorite interval. no mineralization observed in interval. Carbonitic infill along fracture surfaces is locally observed.
115.25	115.72	0.47	GRD	GRDA	MG	Moderately propylitic granodiorite interval containting 1- 3 mm calcite veins and trace 1-2 mm, quartz veinlets. Trace disseminated pyrite is sometimes observed in quartz veinlets. Calcite veinlets appear to crosscut and offset darker, fine grained, carbonitic veinlets. (i.e. 115.55m).
115.72	117.42	1.70	GRD	GRDA	MG	Granodiorite interval with alternating sections of weakly propylitic, weaklky argillic and trace potassic alteration (5-10 cm sections of alternating alteration types). Calcite appears to infill fracture surfaces. 1-2 mm calcite veinlets are also observed as well as 1-2mm, dark, fine grained veinlets. Lower portion of interval is fractured (i.e. 116.60-117.42).
117.42	118.22	0.80	GRD	GRDA	FG	Dark green, fine grained, moderately silicified, strongly propylitic section of granodiorite with intermittent zone of weakly potassic alteration. Trace disseminated pyrite is observed within host grd and in dark quartz veins. Hematite is observed within pyrite bearing veins and in sections of weakly potassic alteration. Calcite appears to infill hematitez vein, and fracture surfaces locally.
118.22	118.87	0.65	GRD	GRDA	MG	Fractured, gougy interval composed of dark green, strongly propylitic, silicified fragments and light green, pyrite bearing, weakly propylitic , brecciated fragments .
118.87	119.64	0.77	GRD	GRDA	MG	Weakly to moderate propylitic granodiorite with intermittent zones of weak potassic and argillic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
119.64	120.63	0.99	GRD	FLTA	MG	Brecciated, locally gouged, moderately argillic, trace proplitic granodiorite interval. Interval is less altered than lower interval section. Trace disseminated pyrite is observed within grd.
120.63	121.46	0.83	GRD	FLTA	MG	shear brecciated, gouged, rubbly interval of strongly argillic and trace potassic granodiorite (faulted grd hanging wall(?)). Disseminated pyrite occurs within interval. Increased, dark, fine grained bands parallel to shear plane are locally observed in unit. Trace quartz, inclusions are also observed in grd interval (no mineral association with quartz inclusions though) . Trace clay and hematitic oxidation occurs in fracture surfaces.
121.46	123.22	1.76	FLT	FLTA	FG	gouged, brecciated, moderately argillic, weakly propylitic and intermittent weakly potassic faulted grd interval. Interval is rubbly and contains fine grained disseminated pyrite. Remnant quartz veins are observed in discernable grd fragments within rubbly, faulted interval.
123.22	124.60	1.38	FLR	FLTA	MG	fractured, rubbly interval of moderately argillic granodiorite with intermittent zones of moderate propylitic alteration.Euhedral, pyrite crystals are observed along fracture surfaces in proylitic altered granodiorite. Blebby pyrite is also observed within fractured grd interval (not restricted to veining but observed within grd host rock).
124.60	125.93	1.33	FLR	FLTA	MG	fractured, gouge brecciated, granodiorite interval exhibiting moderate argillic, weakly potassic (increased K-spar in grd; grains are pinkish/orange (argillic alteration overprinting potassic(?)) and trace propylitic alteration. Propylitic alteration is not as prominent compared to previous interval (less propylitic and more potassic). Pyrite content appears to decrease in this interval (sporadically observed but not as much as pyrite in previous interval.
125.93	127.15	1.22	GRD	GRDA	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of weak argillic alteration. Trace, pyrite is observed within sporadic, fine grained, veinlets. Weak reddish hematitic alteration is observed in host grd and along fracture, joint surfaces.
127.15	127.81	0.66	GRD	GRDA	MG	granodiorite interval exhibiting weak to moderate phyllic alteration overprinting trace argillic and propylitic alteration. Increased quartz clasts, silicification , basal cleavage muscovite clasts and disseminated pyrite are commonly observed in phyllic altered interval. 1-4 mm euhedral pyrite crystals are observed along fracture/joint surfaces (chlorite coating on pyrite bearing fractures/joint surfaces).
127.81	129.40	1.59	GRD	GRDA	MG	moderate argillic , weakly proplitic, trace potassic granodiorite interval with local fractured, gouge brecciated zones (i.e. 128.20m ~ 20 degrees TCA, gouge brecciation between competent granodiorite and argillic granodiorite (this interval). @ 128.20, dark, fine grained, magnetic veinlet containting trace disseminated pyrite is offser by gouge brecciated zone (shear brecciation(?)). 1-2 mm, calcite infill veinlets appear to crosscut thing , dark, fine grained veinlets.
129.40	129.86	0.46	GRD	GRDA	MG	weakly propylitic, potassic, relatively unaltered granodiorite interval containting sub-mm , dark, fine grained inclusions.
129.86	131.05	1.19	GRD	GRDA	MG	moderate argillic, phyllic granodiorite with intermittent zone of weakly potassic, propylitic alteration. Trace, dark, fine grained veinlets are observed in interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
131.05	131.64	0.59	GRD	GRDA	MG	rubbly interval of moderate argillic, weakly phyllic granodiorite . Disseminated pyrite is observed within rubbly zone and within quartz veins (fragments of veins since interval is rubbly).
131.64	133.63	1.99	GRD	GRDA	MG	Weakly to moderate phyllic granodiorite overprinting moderat argillic, weakly propylitic alteration. (disseminated pyrite observed within grd, increased quartz clasts, and some basal cleavage muscovite (?) are locally observed. Gouged, brecciation also occurs in interval (131.80, 133.45m). Blebby pyrite is also observed in 1-4 mm, quartz veins. Disseminated and euhedral pyrite within fracture/joint surfaces is also observed (some chlorite in fracture/joint surfaces as well).
133.63	134.11	0.48	GRD	GRDA	MG	Weakly to moderate argillic, weakly phyllic, trace propylitic granodiorite containting pyrite bearing, quartz stringer zone (7 veins observed through interval length). Stringer veins are composed of quartz, dark fine grained thin smoky quartz and tan, ankerite infilling veins. @ 133.90m, a calcite vein brecciates, crosscuts and offsets local pyrite bearing veins.
134.11	135.90	1.79	GRD	GRDA	MG	locally fractured, weakly propylitic granodiorite with local zone of moderate argillic, weakly potassic alteration.
135.90	139.14	3.24	GRD	GRDA	MG	trace propylitic, potassic granodiorite with intermittent zones of weak propylitic alteration.Trace, sub-mm, dark, pyrite bearing veinlets are locally observed in local zones of propylitic alteration.
139.14	139.84	0.70	GRD	GRDA	MG	trace phyllic, weakly argillic granodiorite interval containing pyrite bearing vuggy veins and 1-2 mm veins. Trace disseminated pyrite is observed in more phyllic altered zone. Vuggy quartz is infilled by calcite and pyrite is contained within, dark grey, fine grained veins in vuggy vein (i.e.139.40m).
139.84	140.16	0.32	GRD	GRDA	MG	trace propylitic, potassic (relatively unaltered) granodiorite interval
140.16	141.90	1.74	GRD	GRDA	MG	moderate potassic, trace argillic granodiorite interval containing, black, fine grained, strongly magnetic inclusions. (i.e 140.33m). Inclusions are light mustard yellow . Dark red, hematitic alteration is observed in interval.
141.90	143.05	1.15	GRD	GRDA	MG	Fractured, gouged, moderate potassic granodiorite interval exhibiting increased hematitic oxidation.
143.05	144.10	1.05	GRD	GRDA	MG	weakly phyllic (disseminated pyrite observed, increased quartz, some basal cleavage muscovite crystals observed), propylitic altered granodiorite overprinting weak argillic alteration. Light pink, fine grained aplite dyke intrusion is observed @ 143.45m (~ 20 degrees TCA). Blebby tourmaline crystals are observed proximal to aplite dyke intrusion. Blebby pyrite is observed within tourmaline bearing zone (pyrite appears to interstitially surround tourmaline (tourmaline related to dyke intrusion and pyrite mineralization occurs post tourmaline mineralization(?)).Some quartz veins appear to crosscut tourmaline crystals. Calcite appears to brecciate hematized, pyrite bearing quartz veins (late stage carbonitic fluids(?)). Blebby pyrite is also observed within hematitic infilled quartz veins.
144.10	146.70	2.60	GRD	GRDA	MG	weakly to moderate potassic, trace propylitic granodiorite interval containing 1-2 mm, hematite-pyrite bearing veinlets that that locally offset and crosscut by calcite infill fractures.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
146.70	149.97	3.27	GRD	GRD	MG	granodiorite interval with trace potassic, trace propylitic alteration. Black, fine grained, magnetic inclusions are locally observed in interval. Upper portion of interval appears slightly more potassic. Trace, 2-3 mm, calcite veinlets and calcite fracture infill is observed in interval. Dark red, hematitic oxidation along fractures/joints is commonly occuring in interval.
149.97	150.35	0.38	VEN	GRDA	MG	pyrite bearing, carbonitic/quartz vein zone in weakly propylitic, phyllic granodiorite. Blebby and disseminated pyrite is observed within dark grey, smoky quartz veins that are surrounded and sometimes brecciated by ankerite,milky quartz veins (ankerite and pinkish rhodochrosite (?) appears to infill milky quartz vein). Blebby and disseminated pyrite also occur within altered grd interval.
150.35	151.66	1.31	GRD	GRDA	MG	weakl potassic, trace propylitic granodiorite with intermittent zones of increased potassic, argillic alteration. Reddish hematite oxidation is observed in interval
151.66	154.13	2.47	GRD	GRDA	MG	Granodiorite exhibiting moderate potassic alteration overprinting, weakly argillic alteration. Dark red, hematite oxidation is observed on grd surface and along fractures/joints. Calcite infilling fracture surfaces is observed on interval.
154.13	155.84	1.71	GRD	GRDA	MG	moderate argillic, weakly propylitic granodiorite overprinting trace propylitic alteration. Small vein zone at 155 m is observed. (trace pyrite observed in vein zone, ankerite and calcite appear to brecciate vein). Trace, hematitic veinlets are also observed in interval. 1-3 mm, pyrite bearing stringer veins also occur in grd interval (2 veins containing disseminated pyrite)
155.84	156.45	0.61	GRD	GRDA	MG	moderately potassic, weakl argillic granodiorite interval.
156.45	157.71	1.26	GRD	GRDA	MG	trace otassic, propylitic granodiorite with local zones of weak argillic alteration. Interval is locally fractured and contains dark red, hematitic oxidation along fractures/joint surfaces.
157.71	158.50	0.79	GRD	GRDA	MG	moderate potassic, argillic granodiorite interval.
158.50	159.25	0.75	GRD	GRDA	MG	trace potassic, propylitic granodiorite interval
159.25	159.62	0.37	GRD	GRDA	MG	Moderate potassic,argillic granodiorite interval containting trace, 1 cm calcite vein.
159.62	162.00	2.38	GRD	GRD	MG	weakly potassic, trace propylitic, relatively unaltered granodiorite interval. Trace 1-3 mm quartz veinlets occur in interval
162.00	163.30	1.30	GRD	GRD	MG	weakly potassic trace propylitic granodiorite interval more fractured than previous interval.
163.30	167.46	4.16	GRD	GRD	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of trace argillic alteration (fractured zones, exhibit feldspathic clasts swelling). @ 167.44m a hematite bearing, quartz vein with yellowish oxidation halo is observed. Interval appears slightly more propylitic than previous unit (chlorite observed in grd, and along fracture/joint surfaces).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
167.46	168.30	0.84	GRD	GRDA	MG	Granodiorite exhibiting moderate potassic, argillic alteration overprinting trace propylitic alteration (Fedspathic clast swelling is notable as well as increased potassic content in grd interval). Sub-mm , black, fine grained veinlets are locally observed in interval. From 168.30 onwards, granodiorite contains a black, fine grained, polymictic inclusion.
168.30	168.97	0.67	VEN	GRDA	MG	weakly propylitic, argillic granodiorite overprinting trace potassic alteration. Interval is fractured near carbonitic/quartz vein breccia zone. Calcite and pinkish (rhodochrosite(?) brecciate host granodiorite and appear to partially replace existing quartz, brecciating quartz clasts as well (carbonitic fluid replacement of quartz vein brecciating sections of partially replaced vein(?)).Dark red hematitic oxidation is observed around vein breccia zone and within grd host rock. Trace, blebby pyrite and disseminated pyrite is observed within clear quartz vein zone and within dark, hematitic clasts/veinlets.
168.97	169.70	0.73	GRD	GRDA	MG	highly fractured, moderately argillic, weakly potassic granodiorite interval. Trace carbonitic fracture infill is observed
169.70	170.65	0.95	GRD	GRDA	MG	relatively unaltered grd with possibly trace propylitic alteration (some chlorite clasts observed).
170.65	171.83	1.18	GRD	GRDA	MG	moderately argillic, trace phyllic granodiorite with intermittent zones of argillc, weakly potassic alteration. Argillic phyllic granodiorite zones contain minor, pyrite bearing quartz veins. Quartz veins contains dark, fine grained, veins containin fine grained disseminated pyrite. Calcite infill of quartz veins is locally observed as well.
171.83	172.84	1.01	GRD	GRDA	MG	relatively unaltered granodiorite interval.
172.84	175.00	2.16	GRD	GRDA	MG	moderate arigllic, weakly propylitic granodiorite with intermitten intervals of moderate to strong potassic alteration. Propylitic altered zones contains trace, quartz, dark, fine grained veinlets and carbonitic infill. Trace pyrite is observed in small vein.
175.00	176.43	1.43	GRD	GRDA	MG	strongly potassic, moderate arigllic, trace propylitic granodiorite interval. Moderate argillic zones are soft, fractured.
176.43	177.10	0.67	GRD	FLTM	MG	gouged, brecciated interal of moderately argillic, propylitic interval containing fine grained disseminated pyrite.
177.10	178.33	1.23	MX	FLTM	FG	mineralized, fault brecciated zone containtint semi massive pyrite, trace galena, arsone pyrite and blackjack sphalerite. Carbonitic entrained clasts are locally observed within brecciated mineralized interval. Interval is light to dark grey (sericitized) and is locally rubbly as well. Semi massive pyrite occurs as disseminations, blebby pyrite and euhedral, cubis pyrite crystals obserfed along fracture surfaces in competent rock sections.
178.33	178.74	0.41	GRD	FLTM	MG	weakly propylitic, fault brecciated granodiorite interval containin fine grained disseminated pyrite (less pyrite than dark, semi massive pyrite interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
178.74	183.18	4.44	GRD	FLTA	MG	mineralized zone fault foot wall comprised of brecciated, locally gouged weakly propylitic, argillic granodiorite with intermittent zones of weakly potassic alteration. Fault brecciation ocurs at low angle in fault footwall (5 degrees TCA). Trace disseminated pyrite is locally observed within altered grd (not on potassic altered zones though). Blebby pyrite is also observed in thin, fine grained, veinlets. Calcite appears to partially infill and surround pyrite bearing veinlets
183.18	186.17	2.99	GRD	GRDA	MG	moderately argillic, weakly propylitic granodiorite with alternating zones of moderate potasicc alteration. Some gouge brecciationg can be seen from 184.40-185m. Trace 1-2 mm calcite veinlets are sporadically observed in interval.
186.17	186.65	0.48	GRD	GRDA	MG	rubbly, gouge brecciated zone of weakly argillic, phyllic, trace propylitic granodiorite. Disseminated pyrite within rubbly and competent grd zones is observed.
186.65	188.84	2.19	GRD	GRDA	MG	weakly argillic, phyllic, propylitic granodiorite with intermittent zones of weak potassic , moderate argillic alteration . Pyrite bearing , smoky quartz veins, offset, brecciated and interstitially surrounded by calcite and minor ankerite are locally observed in interval. Trace disseminated pyrite occurs in less potassic grd. Light grey, mfine grained, soft, poymicitic inclusions occur within weakly argillic, trace potassic zones.
188.84	190.35	1.51	GRD	GRDA	MG	shear brecciated interval of weakly propylitic, phyllic, argillic granodiorite. Trace pyrite is observed in phyllic altered section @ 190.60m (disseminated pyrite, increased quartz clasts and trace basal cleavage muscovite grains). Pyrite bearing quartz veins are also observed in phyllic altered section.
190.35	191.05	0.70	GRD	GRDA	MG	rubbly, breccited interval of weakly argillic, proplitic granodiorite. (fault related(?)). Minor , disseminated pyrite is observed in rubbly brecciated interval
191.05	193.55	2.50	GRD	GRD	MG	weakly to moderately propylitic, weakly argillic and phyllic altered granodiorite. Blebby pyrite is obsserved in 1-3 mm smoky quartz veins (some dark veins appear to be brecciated by carbonitic infill and milky quartz. Trace disseminated pyrite is also observed in grd interval. Minor brecciated gouge seams are also observed in interval.
193.55	194.10	0.55	GRD	VEIN	MG	weakly to moderate propylitic, trace argillic granodiorite containting 4mm-1 cm mineralized veins (2 veins at ~ 30 degrees TCA). Mineralized quartz veins contain blebby galena, disseminated arsenopyrite, blebby pyrite and honey brown sphalerite . Pyrite, arseno pyrite and sphalerite appear to interstitially surround blebby galena in vein. Clear quartz are also observed within mineralized veins. (Late stage mineral bearing fluids replace and brecciate exsisting clear quartz veins (?)). Trace 1-3 mm, pyite bearing veinlets occur in upper inteval section.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
194.10	195.30	1.20	GRD	VEIN	MG	weakly to moderate propylitic, trace argillic, rubbly, gouge brecciated granodiorite interval containint 1-3 mm, mineralized quatz veins. Disseminated pyrite is observed throughout grd interval , and is more abundant in dark grey, soft rubbly zones. Mineralized veins contain blebby arsone pyrite, galena, pyrite and trace sphalerite. Light pink rhodochrosite appears to infill and brecciated mineralized vein zones. Dark, grey pyrite bearing , soft sections are weakly to moderately sericitized (soft, glitter, fine grained disseminated pyrite).
195.30	196.60	1.30	GRD	GRD	MG	shear brecciated interval of weakly propylitic, potassic granodiorite. Trace pyrite is observed within 1-2 mm quartz veinlets (~40 degrees TCA). Veinlets sometimes contain reddish, hematitic oxidation. Clay -oxidation is observed along fracture/joint surfaces. Trace hematitic alteration also occurs in more potassic altered grd sections.
196.60	197.49	0.89	GRD	GRD	MG	rubbly, gouged, brecciated, moderate to strongly argillic, trace propylitic granodiorite. Pyrite blebs filling fracture surfaces in rubbly interval is observed. Disseminated pyrite also within discernable 1-2 mm quartz veins.
197.49	199.36	1.87	GRD	GRD	MG	moderately argillic granodiorite with intermitten zones of moderate potassic alteration. Pyrite bearing, dark veinlets (~40 degrees TCA) are locally observed throughout interval. Some gouged, brecciated zones are also observed on interval.
199.36	200.41	1.05	GRD	GRD	MG	gouged, brecciated, rubbly interval of moderate argillic, trace potasssic granodiorite. Dark grey, pyrite bearing bands are observed (i.e. 199.55m). Pyrite bleb also occur in 1-2 mm quartz veinlets.
200.41	202.10	1.69	GRD	GRD	MG	moderately argillic, trace propylitic and potassic granodiorite interval containting local gouged, brecciated zones. Trace pyrite is observed in 1-3 mm, dark fine grained veinlets.
202.10	204.23	2.13	GRD	GRD	MG	weakly argillic, potasic and trace propylitic granodiorite interval. Locally fracture zones are observed in interval. Trace pyrite is alo observed within altered grd
204.23	204.89	0.66	GRD	GRD	MG	weakly argillic, weakly to moderate propylitic granodiorite interval. a 1 cm, mineralized quartz vein is observed @ 204.34m , in more propylitic grd zone. Vein contains blebby pyrite, trace galena blebs, interstitial trace arseno pyrite and trace sphalerite blebs. Clear quartz clasts (or replaced vein fragments (?)) are observed in mineralized vein . Arsenopyrite is spatially related to pyrite and galena is locally observed near sphalerite blebs. Small, vein restricted, carbonitic infilled fractures intruding perpedicular to mineralized quartz vein are obserbed. Trace, pinkish rhodochrosite inclusions also occur in mineralized vein (appear to partially infill vein).
204.89	205.74	0.85	FEL	GRDF	MG	gouged, brecciated granodiorite exhibiting moderate argillic, trace potassic and propylitic alteration. Trace disseminated pyrite occurs within soft brecciated zones.
205.74	206.70	0.96	FEL	GRDF	MG	gouged, brecciated, rubbly faulted granodiorite interval exhibiting moderate argillic alteration. Trace disseminated pyrite is observed within rubbly grd fragments.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
206.70	209.10	2.40	GRD	GRDA	MG	weakly propylitic, phyllic granodiorite with intermitten zones of weak argillic, trace potassic alteration. Trace disseminated pyrite occurs within host grd and within 1-2 mm quartz veinlets. Blebby pyrite also occurs along fracutre surfaces. Light brown/ ocre , fine grained dyke intrusions in granodiorite occurs @ 207.30 and 208.45m (~60 degrees TCA)>
209.10	209.46	0.36	GRD	VEIN	MG	brecciated, mineralized vein zone in moderate propylitic, weakl argillic granodiorite. Blebby pyrite occurs within darker , smoeky quartz veins and within brecciated sections of grd. Trace galena is observed in ankerite infilled, vein sections.
209.46	210.49	1.03	GRD	GRDA	MG	weakly argillic, trace propylitic and phyllic granodiorite interval. Trace pyrite occurs within grd interval and is contained within trace, 1-2 mm dark, fine grained veinlets.
210.49	211.00	0.51	GRD	GRDA	MG	weakly argillic, potassic, propylitic granodiorite interval. Trace calcite infilling fracture surfaces is locally observed.
211.00	211.43	0.43	GRD	GRDA	MG	rubbly section of weakly argillic, propylitic granodiorite. Pyrite blebs occurs along fracture surfaces in rubbly fragments
211.43	212.26	0.83	GRD	GRDA	MG	weakly propylitic, argillic, granodiorite with intermittent zones of trace phyllic, weak potassic and increased propylitic alteration. Disseminated pyrite is observed in grd section of trace phyllic alteration. Sub-mm pyrite bearing veinlets are also observed in interval
212.26	213.10	0.84	GRD	GRDA	MG	gouged, brecciated, weakly argillic, propylitic and trace potassic granodiorite interval. Trace disseminated pyrite is observed within brecciated clasts.
213.10	213.64	0.54	GRD	VEIN	MG	weakly argillic, trace phyllic granodiorite interval containint 1 - 2 cm mineralized veins. Blebby pyrite and semi massive pyrite is observed in vein @ 213.22m and semi massive pyrite in gouged, vein @ 213.55m. Pyrite in vein @ 213.22 is contained within a ankerite infilled quartz vein. Milky quartz inclusions appear to offset vein @ 213.22m Sub-mm sphalerite crystals are observed within vein and milky quartz.
213.64	214.00	0.36	GRD	GRD	MG	weakly argillic, moderately propylitic granodiorite interval. Trace disseminated pyrite is observed within 1-2 mm quartz veinlets and along fracture surfaces
214.00	216.65	2.65	GRD	GRD	MG	weakly argillic, propylitic granodiorite interval with alternating zones of weakly potassic, moderately propylitic and weak argillic alteration. Disseminated pyrite occurs within sub-mm veinlets and blebby pyrite occurs in fracture surfaces (i.e. 215.85m). Fracture surfaces in rubbly zone @ 216.30 are locally observed.
216.65	217.07	0.42	GRD	GRD	MG	locally fractured interval of weakly phyllic, trace argillic granodiorite. (interval is moderately silicified and trace pyrite is observed within grd and in quartz veins. Blebby pyrite along fracture surface @ 217.07 is observed
217.07	218.42	1.35	GRD	GRD	MG	gouge brecciated and locally rubbly sections of moderate argillic, weak propylitic granodiorite. Trace, disseminated pyrite is observed within grd unit.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
218.42	220.70	2.28	GRD	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite with intermittent small zones of weak argillic alteration. Calcite and quartz brecciated host grd @ 219.60m. Trace 1-2 mm, quartz veinlets also occur in interval
220.70	222.29	1.59	GRD	GRD	MG	fractured interval of weakly propylitic, trace potassic, weak argillic granodiorite. Reddish hematitic oxidation occurs along joint surfaces.
222.29	223.00	0.71	GRD	GRD	MG	Trace potassic, propylitic grd with local zones of weak argillic alteration
223.00	223.50	0.50	GRD	GRD	MG	weak propylitic, argillic granodiorite interval
223.50	224.03	0.53	GRD	GRD	MG	weakly argillic, trace phyllic and propylitic granodiorite interval containting trace pyrite blebs within host grd. Euhedral pyrite crystals are also obseved in fracture surface @ 229m.
224.03	224.37	0.34	GRD	GRD	MG	Fractured, brecciate interval or weakly argillic, trace propylitic, phyllic granodiorite. Disseminate pyrite is observed within fractured zones and within competent grd rock.
224.37	225.19	0.82	GRD	GRD	MG	Weakly propylitic, trace phyllic granodiorite interval containing mineralized veins @ 225.80-224.96 and 225.08-225.19. Blebby and disseminated pyrite , trace galena, and trae blackjack sphalerite is locally observed within vein zones. Pyrite occurs within dark grey, soft, (sericitized(?) bands within vein zone. Galena is observed within ankerite veining infilling vein zone. Ankerite vein appears to brecciate small pyrite bearing, dark grey clasts and grd clasts. Smaller 1-2 mm, pyrite bearing veinlets locally offset by fractures also occurs in interval. Trace, possibly chalcopyrite associated with pyrite rich zones is observed.
225.19	225.68	0.49	GRD	GRD	MG	weakly argillic, propylitic granodiorite interval. Trace pyrite is observed within grd host
225.68	225.94	0.26	VEN	GRD	MG	Mineralized vein zone gr interval containting blebby, disseminated pyrite, trace chalcopyrite. Pyrite is containted in dark grey, fine grained, gouge brecciated seams. Carbonitic infill Is locally observed within brecciated seams. Compared to previous vein zone, this vein zone contains mostly pyrite.
225.94	226.24	0.30	GRD	GRD	MG	weak propylitic, trace argillic granodiorite interval
226.24	229.00	2.76	GRD	GRD	MG	weakl argillic, propypilitic granodiorite with intermittent zones of increased potassic, propyliti alteration. Clay brecciationg is observed @ 227.85-228. Trace disseminated pyrite is observed in grd host. Trace 1-2 mm, quartz veinlets are also observed in interval.
229.00	230.12	1.12	GRD	GRD	MG	moderately argillic, weak propylitic granodiorite interval with local zones of reddish hematitic oxidation
230.12	231.75	1.63	GRD	GRD	MG	moderately argillic, trace propylitic and weakly potassic granodiorite interval.
231.75	232.84	1.09	GRD	GRD	MG	relativel unaltered grd interval (trace potassic propylitic(?) Minor chlorite and K-spar component observed).
232.84	233.26	0.42	GRD	GRD	MG	moderate argillic, potassic granodiorite interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
233.26	233.42	0.16	GRD	VEIN	MG	fractured interval of weakly propylitic argillic granodiorite. Trace disseminated and blebby pyrite occurs in interval
233.42	233.86	0.44	VEN	VEIN	MG	polymetallic vein (veins are ~ 40 degrees TCA) zone in fractured, trace peopylitic,phyllic and argillic granodiorite. Polymetallic vein contains semi massive galena, blebby arseno pyrite near galena, semi massive pyrite, Trace chalcopyrite and honey brown zoned sphalerite blebs. Zone contains 4 1-2 cm polymetallic veins of which two are enriched in galena, sphalerite and arsenopyrite. Sphalerite and arseno pyrite are observed within and rimming quartz vein. Trace milky quartz, ankerite and rhodochrosite inclusions in mineralized veins are locally observed as well.
233.86	234.30	0.44	GRD	VEIN	MG	Weakly propyplitic, trace potassic , fractured granodiorite interval. Disseminated pyrite is observed within interval.
234.30	234.45	0.15	VEN	VEIN	MG	Polymetallic vein zone in weakly propylitic, trace argillic granodiorite. Three polymetallic veins can be identified in interval and range from 2-5mm. Veins contain semi massive pyrite, galena, sphalerite and trace arsenopyrite. Galena appears is associated with sphalerite rich zones (sphalerite appears partially zoned; honey brown and black within a single grain). Blebby pyrite also occurs within grd.
234.45	235.35	0.90	GRD	VEIN	MG	gouged, brecciated, weakly argillic, propylitic granodiorite interval containting disseminated and blebby pyrite. Pyrite occurs within, dark grey, soft gouged brecciated seams
235.35	235.61	0.26	VEN	VEIN	MG	Polymetallic vein zone containting semi massive pyrite, galena, blebby sphalerite, disseminated arseno and chalcopyrite. Sphalerite is spatially associated with galena rich zones. Arseno and chalco pyrite are observed in pyrite rich zones. Ankerite is also observed in vein zone where it partially infills mineralized vein zone. Small calcite infill fractures perpendicular to vein zone offset ankerite vein locally.
235.61	238.35	2.74	GRD	GRD	MG	farctured, rubbly interva of weakly to moderate argillic , trace propylitic granodiorite with intermittent zones of trace potassic alteration. Disseminated pyrite is observed throughout rubbly interval
238.35	238.68	0.33	GRD	GRD	FG	rubbly granodiorite interval (cave(?)) . Disseminated pyrite is commonly observed within fine rubbly zone.
238.68	239.22	0.54	GRD	GRD	MG	fractured, weakly argillic, trace potassic and trace propylitic granodiorite. Trace disseminated pyrite is observed in fractured zone
239.22	242.26	3.04	GRD	GRD	MG	trace potassic, propylitic granodiorite interval with local fractured zones and intermittent increased propylitic, argillic sections.
242.26	243.70	1.44	GRD	GRD	MG	fractured, rubbly trace propylitic, potassic granodiorite. Reddish hematitic oxidation is locally observed.
243.70	244.60	0.90	GRD	GRD	MG	moderate propylitic, weakly argillic granodiorite interval. Reddish hematite oxidation is observed on interval
244.60	245.35	0.75	GRD	GRD	MG	weakly argillic, propylitic granodiorite interval with local geouge brecciated sections.
245.35	246.00	0.65	GRD	GRD	MG	gouged , brecciated , moderatel argilic, trace propylitic granodiorite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
246.00	246.70	0.70	GRD	GRD	MG	weakly propylitic, trace argillic granodiorite interval. Trace pyrite is observed in grd host.
246.70	247.24	0.54	GRD	GRD	MG	weakly argillic, trace propylitic, potassic granodiorite interval containting 1-2 mm quartz veinlets
247.24	248.75	1.51	GRD	GRD	MG	weakly propylitic, argillic and trace potassic tranodiorite interval containting a rubbly zone from 247.65-247.90. Disseminated and blebby pyrite is locally observed in rubbly grd section
248.75	249.65	0.90	GRD	GRD	MG	trace propylitic granodiorite overprinting trace argillic and potassic alteration. Interval is fractured.
249.65	252.23	2.58	GRD	GRD	MG	weakly argillic , propylitic granodiorite with intermittent zones of trace potassic altered grd. Soft, gouge brecciated seams are locally observed throughout interval. a 2 cm, light pink, rhodochrosite infilled, pyrite bearing quartz vein is observed. A 1 cm, milky quartz vein is observed @ 251.18m. A fractured, grd section is observed @ 250.70-250.90m.
252.23	252.70	0.47	GRD	GRD	MG	Gouged, brecciated and sheared interval of weakly argillic and trace propylitic granodiorite. Dark grey, fine grained, sheared pyrite bearing veins are locally observed . 1-3 mm, carbonitic clasts entrained in pyrite bearing veins are also observed.
252.70	253.74	1.04	GRD	GRD	MG	moderately argillic weakly propylitic and potassic granodiorite interval.
253.74	254.43	0.69	GRD	GRD	MG	weakly argillic, trace potassic, propylitic granodiorite interval. Trace 1-2 mm, quartz veinlets occur in interval and contain trace disseminated pyrite.
254.43	255.73	1.30	GRD	GRD	MG	weakly potassic, argillic granodiorite interval containting local rubbly zones. Dark grey, sub-mm, veinlets containting trace sub-mm pyrite occur in interval.
255.73	257.10	1.37	GRD	GRD	MG	locally fractured, weakly argillic, propylitic granodiorite interval.
257.10	258.77	1.67	GRD	GRDA	MG	fractured interval of weakly potassic, argillic, trace propylitic granodiorite. A 1 cm quartz vein containting trace sphalerite bleb is observed @ 257.60m. Pyrite bearing veinlet containting blebby pyrite and sphalerite occurs @ 258.45m. Vein is locally offset by fracturing. Reddish hematite oxidation is observed along fractures/joint surfaces.
258.77	259.38	0.61	GRD	GRDA	MG	Moderate potassic, weakly propylitic trace argillic granodiorite interval. Trace disseminated pyrite is observed in less potassic zones proximal to vein zone i.e. 259.28m.
259.38	259.78	0.40	VEN	GRDA	MG	pyrite bearing vein zone (~ 45 degrees TCA) in weakly argillic, propylitic granodiorite. Vein is brecciated and infilled by hematite andkerite and calcite (calcite and ankerite appear to brecciate vein zone. Blebby pyrite is observed within quartz vein and within dark grey, fine grained gougy seams. Ankerite appears to interstitially surround quartz lasts within quarz vein. Trace disseminated, euhedral cubic pyrite crystals occurs within altered granodiorite interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
259.78	261.28	1.50	GRD	GRDA	MG	Fractured interval of weakl potassic, propylitic and tracce argillic granodiorite. Chlorite and reddish hematite oxidation is commonly observed in fracture and joint surfaces.
261.28	262.44	1.16	GRD	GRDA	MG	more competent interval of weakly potassic, propylitic and trace argilic granodiorite. Minor gouge brecciation is locally observed in section. Trace 1-2 mm quartz veinlets are also observed in interval.
262.44	262.75	0.31	VEN	GRDA	MG	Vuggy pyrite breccia containting trace pyrite in moderate argillic, trace propylitic granodiorite. Pyrite is observed wtihin dark, fine grained bands surrounded by ankerite and at the rims of quartz/ankerite breccia zone. Trace sub-mm sphalerite crystals are also present in vein breccia zone. Trace galena, is observed in light pink rhodochrosite bands, where rhodochrosite appears to interstitially surround small galena blebs. Ankerite bands microbrecciate quartz clasts as well.
262.75	263.02	0.27	GRD	GRDA	MG	weakly argillic, propylitic granodiorite interval containing trace, disseminated pyrite in host grd and within dark, grey, soft veinlets.
263.02	265.00	1.98	GRD	GRD	MG	interval compososed of moderate potassic, weakly argillic/ propylitic granodiorite. Interval is locally fractured and contains chlorite and hematite oxidation along fractures and joint surfaces.
265.00	265.44	0.44	GRD	GRD	MG	moderate argillic, weakly propylitic trace propylitic granodiorite interval containting trace fine grained disseminated pyrite .
265.44	265.72	0.28	VEN	GRD	FG	vein zone in weakly argillic, propylitic granodiorite. Three veins (to are ~ 45 degrees TCA and a clear quartz vein is ~ 5 degrees TCA) are observed and are ~ 1 cm thick. Disseminated pyrite and trace blackjack sphalerite occurs within quartz vein zones. Pyrite also occurs in dark grey, fine grained bands within quartz vein. Ankerite infills and brecciates pyrute bearing quartz vein. Trace honey brown sphalerite is spatially associated with small pyrite bands within quartz vein.
265.72	267.87	2.15	GRD	GRD	MG	moderate argillic, weakly potassic and trace propylitic granodiorite interval. Trace 1-3 mm, pyrite bearing quartz veinlets are observed. Trace pybrite is also observed in sub-mm dark grey bands within interval.
267.87	269.62	1.75	GRD	GRD	MG	weak argillic alteration overprinting weak potassic and trace propylitic alteration in granodiorite interval. From 269-269.62, interval is fractured and exhibits soft, gouged seams.
269.62	272.31	2.69	GRD	GRD	MG	Fractured interval of weakly potassic, trace propylitic granodiorite. Dark red hematitic oxidation is observed along fractures and joint surfaces.
272.31	276.35	4.04	GRD	GRD	MG	light pink, weakly to moderately silicified, weakly potassic, argillic granodiorite interval. Interval is fractured and contains sub-mm, reddish, magnetic bands and irregular inclusions .
276.35	277.00	0.65	GRD	GRD	MG	rubbly, fractured interval composed of moderately argillic, trace propylitic granodiorite. Trace disseminated pyrite is observed in rubbly zones and within quartz vein fragments in rubbly zones. Vein fragments contain pyrite bearing dark grey, bands and light pink 3-4 mm, rhodochrosite veins. Fault related interval (?)(interval is highly fractured but no shearing, or fault brecciation is observed).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
277.00	278.13	1.13	GRD	GRD	MG	moderate potassic, weakly argillic granodiorite interval with local gouge brecciated zones. Brecciated zones contain fine grained disseminate pyrite bands.
278.13	279.64	1.51	GRD	GRD	MG	moderate argillic, trace propylitic, weakly silicified granodiorite interval containing sub-mm, dark grey, pyrite bearing bands. Trace, 1-2 mm, offset, ankerite infilled, sphalerite/pyrite veinlets are also observed in interval
279.64	280.00	0.36	GRD	GRD	MG	rubble interval of moderately argillic, trace propylitic granodiorite containting sub-mm, dark grey, pyrite bearing bands.
280.00	281.70	1.70	GRD	GRD	MG	moderately argillic, trace propylitic, weakly silicified granodiorite witih local rubbly zones. Pyrite occurs in sub-mm, dark grey fine grained bands. Gouged, brecciated sections are observed in interval as well.
281.70	284.57	2.87	GRD	GRD	MG	moderately argillic, trace potassic, weakly silicified granodiorite interval with local rubbly, fractured and gouge brecciated zones. Interval appears slightly more potassic than last and contains sub-mm, dark, magnetic inclusions almost giving the grd host a cracked texture. Trace disseminated pyrite is observed on rubbly zones and within dark, grey, fine grained bands.
284.57	285.75	1.18	GRD	GRD	MG	locally gouged, brecciated, moderate propylitic, weakly argillic granodiorite interval. Pyrite occurs within 1 mm, dark grey, soft veinlets. Pyrite is more abundant in brecciated zones.
285.75	286.32	0.57	GRD	GRD	MG	gouged, brecciated , moderately propylitic granodiorite interval (fault brecciated (?), fault hanging wall (?). Disseminated pyrite occurs within dark, grey, gouged breccited seams within grd unit. Trace, 4 mm, quartz vein (20 degrees TCA) containting pyrite and sphalerite blebs is observed @ 285.85m.
286.32	288.33	2.01	GRD	GRD	MG	flocally fractured, gouged brecciated , moderately propylitic granodiorite interval. Pyrite occurs within 1 mm, dark grey, fine grained veinlets and within 1 mm, quartz veinlets. Pyrite is also observed within gouged brecciated seams.
288.33	288.57	0.24	VEN	GRD	MG	fractured,polymetallic vein zone containting semi massive pyrite, galena, trace sphalerite and possibly arsenopyrite. Pink, rhodochrosite is commonly observed within polymetallic bearing veins. (rhodochrosite partially infilling and brecciating mineralized vein zone and host grd).
288.57	290.00	1.43	GRD	GRD	MG	fractured interval of weakly propylitic, trace argillic granodiorite. Disseminated pyrite is locally observed thourhgout grd host and within soft, gouged seams.
290.00	291.48	1.48	FLR	GRDF	MG	fault hanging wall composed of trace potassic, trace propylitic granodiorite. Interval is fractured and contains chlorite along fracture,join surfaces. Trace disseminated pyrite is observed within fractured grd interval.
291.48	293.00	1.52	FLT	GRDF	FG	rubbly, gouged, brecciated fault interval. Entrained clasts are observed within brecciated zones.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
293.00	294.57	1.57	FLR	GRDF	MG	fault footwall interval composed of moderately propylitic granodiorite. Gouged brecciation and vein brecciation is locally observed in interval. disseminated pyrite is present in dark grey, fine grained gouged, brecciated sems and within brecciation zones. Ankerite and milky quartz appear to brecciated altered grd host. Red, hematitic infill in small , irregular veinlets is also observed on interval.
294.57	295.37	0.80	GRD	GRDF	MG	Gouged, brecciated and fractured moderately propylitic granodiorite. A vein breccia containting fine , disseminate pyrite where ankerite brecciates host rock occurs proximal to fault footwall section. 1-2 mm, black tourmaline blebs occur @ 294.96m.
295.37	295.66	0.29	GRD	GRDF	MG	rubbly interval of moderately propylitic granodiorite. Trace disseminated pyrite is locally observed on interval.
295.66	296.10	0.44	FLR	GRDF	FG	rubbly interval of weakly potassic granodiorite
296.10	296.60	0.50	FLR	GRDF	FG	weakly potassic, trace propylitic granodiorite interval containting moderate hematite alteration.
296.60	300.00	3.40	FLR	GRDF	FG	fractured and rubbly interval of weakly potassic granodiorite interval exhibiting moderate hematite oxidation. (fault zone(?)).
300.00	300.58	0.58	FLR	GRDF	MG	farctured, weakly potassic trace propylitic granodiorite interval with trace disseminated pyrite along fracture surfaces.
300.58	301.43	0.85	GRD	VEIN	MG	Fractured, gouged interval of moderately propylitic granodiorite containin 3mm-2 cm polymetallic veins. Vein @ 300.75 m contain blebby arsenopyrite, blebby pyrite (within arseno bearing zone) and trace galena and sphalerite within ankerite. Ankerite appears to brecciated and partially infill polymetallic vein. Blebby an disseminate pyrite is also observed within altered grd. Vein zone also contains light grey, quartz brecciating ankerite and mineralized quartz veins.
301.43	302.20	0.77	GRD	GRDA	MG	weakly argillic, trace propylitic granodiorite , fracture granoiorite interval
302.20	302.60	0.40	VEN	GRDA	MG	weakly propylitic granoiorite containting 1-4 mm, quartz veins. Quartz veins contain pyrite bearing, sub-mm, fine grained bands. Blebby pyrite pyrite is observed within altered grd proximal to veins (most pyrite is around veins with very little pyrite within the actual veins). Carbonitic infill (rhodochrosite(?), slightly pink) appears to brecciated quartz veins.
302.60	303.95	1.35	GRD	GRDA	MG	weakly to moderate argillic trace propylitic granodiorite interval containting reddish hematite oxidation along fractures. Chlorite is also observed along fracture surfaces.
303.95	304.40	0.45	GRD	GRDA	MG	fractured interval of weakly argillic trace propylitic granodiorite. Trace disseminated pyrite occurs within grd host and is observed within carbonate infilled, quartz veins (i.e. 304m).
304.40	305.56	1.16	GRD	GRDA	MG	sheared, fractured, weakly propylitic, argillic granodiorite interval.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	OVB	--	ovb							
1.40	11.22	9.82	GRD	MG	Granodiorite interval with trace propylitic potassic (chlorite and K-spar oberved in grd interval) and local zones of weak argilic alteration. Interval is ractured and contains reddish/brownish clay oxidation along fracture and joint surfaces. Highly fractured rubbly zone is observed @ 8.15-8.60m (zone of local argillic alteration).							
						LT	GN		OXI	2I		
						LT	GY		PRO	2I		
						LT	PK		POT	1I		
11.22	13.90	2.68	GRD	MG	Weak argillic and pervasively oxidized granodiorite interval. Pervasive oxidation within granodiorite clasts (oxidation of argillized clasts) and matrix is commonly occurring as well as reddish/brown clay oxidation along fractures and joint surfaces. Trace sub-mm pyrite occurs in granodiorite interval (only within grd not vein hosted pyrite observed).							
						LT	BN					
						MD	BN		ARG	2I	Py	1
13.90	15.24	1.34	FLR	FG	Clay rich, pervasively oxidized, brecciated fault zone. Interval is highly fractured and small segments of altered granodiorite can be observed within fault zone. Upper portion of fault zone exhibits darker red and orange oxidation while lower section displays light brown/yellow oxidation.							
						MD	YW		HEM	3I		
						LT	BN					
						DK	RD					
						MD	BN		OXI	4I		
15.24	18.29	3.05	GRD	MG	Locally fractured, weakly propylitic granodiorite interval with minor oxidation in GRD host (oxidation mostly occuring along fracture/joint surfaces as yellow/brownish clay). Trace oxidized calcite veinlets sporadically occur throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.29	24.38	6.09	GRD	MG	Weakly to moderate argillic, pervasively oxidized granodiorite with local zones of increased argillic alteration. Rubbly, brecciated sections are locally observed within oxidized interval. Pyrite bearing oxidized veins occur locally in unit. Oxidized carbonitic infill in pyrite bearing veinlets is also observed in grd interval.							
						LT	GY		OXI	3I		
						LT	BN		PRO	1I		
						MD	RD					
						MD	BG					
						LT	OR		HEM	2I	Py	3
24.38	26.60	2.22	GRD	MG	fractured, rubbly interval of pervasively oxidized grd . (fault related (?); no sign of brecciation or sheared just rubbly interval.							
26.60	29.40	2.80	GRD	MG	weakly to moderately oxidized granodiorite with local fractured and rubbly zones.							
						MD	BN	FR	ARG	1I		
						LT	BN		OXI	3I		
29.40	34.90	5.50	GRD	MG	Trace propylitic and potassic altered granodiorite interval with local fractured/rubbly zones. Oxidation is less prominent and appears to occur predominantly along fracture and joint surfaces as clay oxidation.							
						LT	BN					
						LT	GN		OXI	2I		
						DK	GY		PRO	1I		
						MD	GY		POT	1I		
34.90	36.58	1.68	GRD	MG	moderately oxidized, rubbly granodiorite interval (fault related (?). Small fragments of granodiorite can be identidied in rubbly (faulted (?)) zone. Granodiorite fragments appear to be weakly potassic and trace propylitic (K-spar and chlorite clasts can be identified).							
						MD	TP					
						LT	BN		OXI	3I		
36.58	39.62	3.04	GRD	MG	weakly potassic and trace propylitic, locally fractured and rubbly, weakly oxidized granodiorite interval. trace 1-2 mm, oxidized veinlets are locally observed in competent granodiorite sections.							
						DK	RD		POT	2I		
						MD	PK		HEM	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		PRO	1I		
									OXI	3I		
39.62	41.10	1.48	FLT	--	oxidized, gougy clay rich, rubbly faulted interval. small fragments of granodiorite are identified. (faulted (?)).							
						DK	RD					
						LT	BN					
41.10	46.55	5.45	GRD	MG	fractured, moderately oxidizied, weakly potassic, trace phyllic altered granodiorite interval. Interval is highly fractured and contains dark red, oxidation on surfaces, along fracture surfaces and within mm-sized veinlets. (quartz veins remain relatively unoxidized). Fault hanging wall section appears to exhibit trace phyllic alteration (increased quartz clasts, trace disseminated pyrite observed).							
						DK	RD		POT	2I	Py	3
						MD	BN		PHC	1I		
						LT	BK		HEM	2I		
						LT	BN		OXI	3I		
46.55	48.77	2.22	GRD	FG	soft, gougy , clay rich, brecciated , mineralized fault zone. Small granodiorite fragments can be identified. Gougy, oxidized, mineralized vein zone occurs within faulted interval (harder than regular clay gouges, light grey on the inside containing fine grained disseminated pyrite).							
48.77	50.95	2.18	VEN	FG	fault footwall comprised of oxidized granodiorite and gougy, oxidized mineralized vein zones. Trace reddish oxidation is locally observed but clay rich oxidation is predominantly observed throughout interval. Blebby pyrite is also observed within fault footwall granodiorite sections. Galena and trace arsone pyrite occur in more competent section of faulted footwall vein zone (i.e. 50.85m). Gougy, oxidized vein zone is light grey, fine grained and contains disseminated pyrite).							
											Gn	6
						MD	BN		HEM	2I	Py	8
						DK	RD		OXI	3I	As	3
						LT	BN		CLY	3I	Py	10

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
50.95	53.20	2.25	GRD	MG	weakly oxidized, weakly to moderately argillic granodiorite interval. Clay rich, oxidation is locally observed along fractures and joint surfaces. @ 52.8m, dark reddish, hematitic oxidation occurs within altered granodiorite interval.							
						DK	RD		OXI	2I		
						LT	BN		ARG	2I		
						LT	TN		HEM	1I		
53.20	54.86	1.66	GRD	MG	gouged, brecciated , weakly argillic granodiorite with local rubbly zones (fault related (?); brecciation similar ot fault brecciation).							
54.86	61.47	6.61	GRD	MG	trace propylitic granodiorite interval with local gougy and brecciation zones (shear brecciation proximal to contact with quartz feldspar porphyry dyke unit. Interval ranges from weakly to moderately oxidized with increasing depth. Trace pyrite and arsone pyrite bearing quartz vein is observed @ 53.50m(3 cm low angle ~ 15 degrees TCA, quartz vein containting fine disseminated pyrite and trace arsone pyrite blebs. Smaller 1-2 mm, milky quartz veinlets crosscut pyrite bearing , quartz vein.							
61.47	64.01	2.54	QFP	FG	medium-dark brown, purple, fine grained quartz feldspar porphyry dyke interval. lighter brown, softer, oxidized dyke sections are observed near the contacts with grd unit.							
						DK	BN		OXI	2I		
						MD	BN					
						DK	PU					
64.01	67.20	3.19	GRD	MG	Interval composed of weakly propylitic, trace argillic granodiorite with local zones of weak to moderate oxidation and rubbly zones. @ 64.01 at quartz feldspar porphyry and grd contact, a 3 cm, pyrite bearing quartz vein is observed containting sub-mm dark , fine grained , veinlet inclusions. Blebby and euhedral pyrite is observed in vein with well developed pyrite crystals observed at fracture surfaces. Competent sections of grd contain higher mafic, magnetite inclusions. Light brown, clay oxidation and reddish hematite oxidation occur intermittently in grd and are commonly obsered along fracture/joint surfaces (increased hematitic alteration from 66.40-67.20m).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN	RB	ARG	1I	Py	3
						DK	RD					
						MD	BN					
						MD	GY		PRO	2I	Py	5
67.20	71.60	4.40	GRD	MG	granodiorite interval exhiiting trace propylitic alteration. Overall, interval is relatively unaltered with minor zones of trace propylitic alteration, competent and contains 1-2 mm, pyrite bearing, dark fine grained smoky quartz veinlets. Pyrite is also observed to interstitially surround dark, fine grained veinlets. (i.e. 67.74). Trace hematitic venlets and hematitic oxidation is locally observed in interval with clay-oxidation and reddish hematitic oxidation being more prominent along fracture and joint surfaces.							
						LT	GN		PRO	1I	Py	3
						MD	GY					
71.60	79.84	8.24	GRD	MG	Trace propylitic granodiorite interval with intermittent, a zones of moderate argillic-propylitic alteration.							
						LT	BN		PRO	2I	As	3
						MD	GN		PHC	1I	Py	5
						LT	GN		PRO	1I	Py	15
						LT	GY		ARG	2I		
79.84	80.20	0.36	VEN	MG	Trace propylitic granodiorite interval with intermittent, alternating zones of moderate argillic-propylitic zones and trace phyllic alteration near vein zones (i.e. 80-80.40m). Quartz/ ankerite vein zones containing semi massive, interstitial pyrite and trace arseno pyrite are locally observed in sections of trace phyllic, propylitic altered grd ;(near vein zones, grd exhibits increased quartz clasts, basal cleavage muscovite , disseminated pyrite in host rock (trace phyllic alteration)). Chlorite clasts are more abundant near pyrite bearing zones. Pyrite in quartz vein appear to interstitially infill vein. Ankerite vein is observed parallel to pyrite - bearing quartz vein. Light pink, rhodochrosite veins surrounding quartz vein appear to partially brecciate quartz vein and surrounding host rock. Dark grey, smoky quarz veins running parallel to mineralized veins are also observed. Clay-oxidation is commonly observed along fracture/joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.20	91.51	11.31	GRD	MG	Trace propylitic, weakly potassic granodiorite interval with intermittent zones of trace argillic alteration and local oxidized, fractured zones.							
91.51	95.75	4.24	GRD	MG	Interval is composed of highly fractured, rubbly, weakly potassic and argillic granodiorite. Chlorite and hematite are commonly observed along fracture and joint surfaces (hematite and chlorite slickenlines observed). Fractured interval might be fault related (?).							
						MD	GN					
						DK	RD					
95.75	101.64	5.89	GRD	MG	trace potassic, propylitic granodiorite with alternating zones of moderate argillic and weakly potassic alteration overprinting trace propylitic alteration. Localy fractured, oxidized and rubbly zones are locally observed. Trace cubic, disseminated pyrite is observed in brecciated, argillic/propylitic altered granodiorite sections (i.e. 96.25m; pyrite occurs within 2-4 mm, dark, fine grained quartz veins (~ 35 degrees TCA).							
						LT	GY		PRO	2I		
									ARG	3I		
						LT	GN	BX	POT	1I		
						LT	PK	RB	PRO	1I	Py	3
101.64	102.28	0.64	FLT	--	pervasively oxidized, rubbly, faulted zone. Gouge brecciation occurs in rubbly interval and orage-clay and reddish hematitic oxidation are locally observed							
						DK	RD	RB				
						LT	BN					
102.28	113.00	10.72	GRD	MG	relatively unaltered Granodiorite interval with local alternating zones of weakly to moderately argillic and weakly propylitic alteration. Minor, 2-4 mm, quartz veins sometimes containing trace, fine grained disseminated pyrite are observed in altered granodiorite sections.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
113.00	119.64	6.64	GRD	MG	Granodiorite exhibiting intermittent, alternating zones of moderately to strong propylitic alteration, weak to moderate argillic and potassic alteration (chlorite and epidote more prominent). Fractured, rubbly zones are locally observed in interval. Blebby pyrite occurs in moderately to strongly propylitic granodiorite. Honey brown, sphalerite is observed within pyrite bearing veins. Pyrite bearing quartz veins are low angle (~ 10-15 degrees TCA) and contain carbonitic infill (calcite). Smaller, ~ 45 degrres TCA, quartz veins crosscut mineralized veins.							
						MD	GN					
						MD	PK		POT	2I	Py	5
						DK	GN		PRO	3I		
						MD	PK		ARG	2I	Sp	2
119.64	121.46	1.82	GRD	MG	soft, gouged, brecciated and sheared interval moderate to strong argillic granodiorite.(proximal to fault argillic alteration is more prominent). Shear brecciation is also observed proximal to fault (~40 degrees TCA). Trace disseminated pyrite is locall observed within sheared, gouged, brecciated interval. Trace potassic overprint occurs in interval as well (K-spar component in sheared granodiorite).							
						LT	BG	RB				
						LT	PK	BX	ARG	4I		
						LT	GN	SH	POT	1I	Py	3
121.46	125.93	4.47	GRD	MG	gouged, fractured, brecciated, weakly propylitic,argillic with intermittent moderate potassic, faulted granodiorite interval. (potassic alteration observed in small competent grd section. Trace disseminated pyrite is locally observed within faulted interval. Trace quartz veins are also observed in compentent fragments of granodiorite unit. Brecciation is observed in soft, gougy seams in faulted interval.							
						LT	BG		PRO	1I		
						LT	GN	BX	POT	2I		
						MD	PK	RB	ARG	3I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
125.93	129.86	3.93	GRD	MG	Weakly propylitic, potassic granodiorite with intermittent zones of weak phyllic (increased quartz clasts, basal cleavage muscovite,disseminated pyrite) moderate argillic alteration. Disseminated pyrite is observed within phyllic altered grd zone and in fracture surfaces as euhedral pyrite (within phyllic altered zone). Pyrite blebs also occur within dark, fine grained, hematite containing, veinlets where veinlets are surrounded by dark green, chlorite halo.							
						LT	GN		POT	1I	Py	4
									ARG	3I		
						LT	PK		PHC	2I		
						LT	BG		PRO	2I	Py	5
129.86	134.11	4.25	GRD	MG	Weakly phyllic granodiorite overprinting weakly to moderate argillic, weakly propylitic granodiorite (increased quartz clasts, basal cleavage muscovite observed, disseminated pyrite throughout granodiorite). Pyrite bearing stringer vein zone is observed @ 133.65-134m. Pyrite bearing quartz veins, and dark, fine grained veinlets are locally observed throughout interval. Local rubbly, gouge brecciated zones are observed throughout grd interval as well. Disseminated and euhedral pyrite occurs along fracture/joint surfaces and within rubbly granodiorite sections.							
						LT	BG	RB	PHC	3I	Py	8
									ARG	3I		
						LT	GN	FR	PRO	1I	Py	6
134.11	140.16	6.05	GRD	MG	Relatively unaltered interval (possibly trace proylitic, potassic; some chlorite clasts and K-spar component observed) granodiorite with intermittent zones of moderate argillic, weak phyllic alteration. Pyrite bearing , sometimes vuggy quartz veins are observed in phyllic altered granodiorite sections.							
						LT	BG		PHC	2I		
						LT	PK		POT	1I	Py	4
						LT	GY		ARG	3I		
						LT	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
140.16	146.70	6.54	GRD	MG	Interval is composed of alternating, intermittent sections of moderately potassic, weakly argillic, trace to weakly phyllic and trace propylitic (trace chlorite observed in grd and commonly occurring in joint/fracture surfaces at tourmaline bearing, phyllic grd) granodiorite. Potassic altered granodiorite interval contains mustard yellow clasts within dark, fine grained, magnetic (mafic) inclusions in grd (i.e. 140.33). Blebby tourmaline is locally observed in phyllic/argillic granodiorite section proximal to fine grained, pink aplite dyke intrusion (~ 20 degrees TCA)(tourmaline related to dyke intrusion(?)). Blebby pyrite also occurs in phyllic/argillic granodiorite interval (surrounding tourmaline blebs; (Pyrite overprinting tourmaline (?)). Pyrite is also observed within hematite filled quartz veins. In potassic altered zones, pyrite is sometimes observed within sub-mm, dark, fine grained veinlets. Reddish, hematitic(?) oxidation is commonly observed in potassic altered grd and proximal to tournmaline, pyrite bearing, phylic altered grd.							
						MD	PK		ARG	2I	Py	6
						LT	GN		POT	3I	To	5
						DK	GN		PHC	2I	He	2
						DK	BK		PRO	1I		
						LT	PK					
146.70	149.97	3.27	GRD	MG	granodiorite interval with trace potassic, trace propylitic alteration. Black, fine grained, magnetic inclusions are locally observed in interval. Upper portion of interval appears slightly more potassic. Trace, 2-3 mm, calcite veinlets and calcite fracture infill is observed in interval. Dark red, hematitic oxidation along fractures/joints is commonly occuring in interval.							
						DK	RD		POT	2I		
						MD	RD		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
149.97	156.45	6.48	GRD	MG	Trace potassic, propylitic granodiorite with alternating zones of moderate to strong potassic, moderate argillic , weak propylitic alteration. Potassic altered grd zones exhibit dark red, hematitic oxidation. Mineralized vein zone is observed within weakly propylitic, trace phyllic(?) granodiorite @ 150-150.20m. Disseminated and blebby pyrite are observed in darker, smoky quartz vein within vein zone (vein zone contains 4 cm, ankerite surrounding milky quartz and smoky quartz veins, clear quartz veinlets appear to be located interstitially within ankerite milky quartz vein zone). Blebby and disseminated pyrite is also observed within grd host rock in vein zone.							
						MD	PK				Ak	4
						LT	BG				Py	6
						LT	GN				Py	3
156.45	159.62	3.17	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of moderate potassic, argillic and trace potassic alteration. Trace 1mm-1 cm calcite veins are locally observed. Dark reddish hematitic oxidation is commonly occuring in interval.							
						LT	GN					
						LT	BG					
						MD	GY					
159.62	167.46	7.84	GRD	MG	Relatively unaltered granodiorite interval with weak potassic, trace propylitic alteration (minor chlorite clasts and k-spar component observed within granodiorite). Interval contains local fractured zones and contains trace 1-3 mm pyrite bearing, quartz veinlets. Quartz veinlets @ 167.44 is weakly oxidized and contains dark red hematite inclusions.							
						LT	GN					
						LT	PK		PRO	1I	Py	2
						MD	GY		POT	2I		
167.46	168.97	1.51	GRD	MG	moderate potassic, argillic granodiorite with local zone of weak propylitic, carbonitic/quartz vein brecciation. Trace blebby and disseminated pyrite are observed within quartz vein and dark red, hematitic clasts, veinlets.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
168.97	176.43	7.46	GRD	MG	alternating zones of moderatete argillic, potassic, weakly propylitic granodiorite. 168.97-160.60 argillic, potassic grd is highly fractured.							
176.43	178.74	2.31	GRD	MG	gouged, brecciated, mineralized fault zone. Semi massive pyrite occurs as dissemiantions and euhedral pyrite throughout interval. Zones of increased mineralization are dark grey (sericitized). Trace galena,arsonepyrite and blackjack sphalerite is also observed in mineralized sections. Carbonitic entrained clasts are observed in brecciated mineralized interval (fault related(?)).							
											Sp	3
											Py	5
											Py	5
								RB			Gn	5
								BX			Py	15
											As	5
178.74	183.18	4.44	GRD	MG	mineralized zone fault foot wall comprised of brecciated, locally gouged weakly propylitic, argillic granodiorite with intermittent zones of weakly potassic alteration. Fault brecciation ocurs at low angle in fault footwall (5 degrees TCA). Trace disseminated pyrite is locally observed within altered grd (not on potassic altered zones though). Blebby pyrite is also observed in thin, fine grained, veinlets. Calcite appears to partially infill and surround pyrite bearing veinlets							
						LT	GN				Py	5
						MD	PK	BX			Py	4
183.18	186.17	2.99	GRD	MG	moderately argillic, weakly propylitic granodiorite with alternating zones of moderate potasicc alteration. Some gouge brecciationg can be seen from 184.40-185m. Trace 1-2 mm calcite veinlets are sporadically observed in interval.							
						LT	BG					
						MD	PK					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
186.17	188.84	2.67	GRD	MG	weakly argillic, phyllic, propylitic granodiorite with intermittent zones of weak potassic alteration. Gouge brecciation and rubbly zone is occurs from 186.35-186.85m. Blebby pyrite within dark, smoky quartz veins are locally observed in interval with calcite and minor ankerite brecciating and interstitially surrounding pyrite bearing quartz veins. Trace disseminated pyrite is locally observed in phyllic/propylitic, pyrite bearing, quartz vein areas.							
						LT	GN	BX	POT	1I	Py	5
						LT	PK	RB	PHC	2I	Py	3
									ARG	3I		
									PRO	2I		
188.84	191.05	2.21	GRD	MG	moderate propylitic, weakly argillic , trace phyllic, trace potassic granodiorite containting local rubbly , gouge brecciated zones (fault related(?)). Trace blebby pyrite is locally observed in 1-3 mm, quartz veins (veins contain minor hematite , possible sphalerite as well). Milky quartz veins observed in brecciated zones, apears to brecciate host grd rock.							
191.05	193.55	2.50	GRD	MG	weakly to moderately propylitic, weakly argillic and phyllic altered granodiorite. Blebby pyrite is obsserved in 1-3 mm smoky quartz veins (some dark veins appear to be brecciated by carbonitic infill and milky quartz. Trace disseminated pyrite is also observed in grd interval. Minor brecciated gouge seams are also observed in interval.							
						LT	GN		PHC	2I		
						MD	GN		ARG	1I		
						LT	BG		PRO	3I	Py	4
193.55	194.10	0.55	GRD	MG	weakly to moderate propylitic, trace argillic granodiorite containting 4mm-1 cm mineralized veins (2 veins at ~ 30 degrees TCA). Mineralized quartz veins contain blebby galena, disseminated arsenopyrite, blebby pyrite and honey brown sphalerite . Pyrite, arseno pyrite and sphalerite appear to interstitially surround blebby galena in vein. Clear quartz are also observed within mineralized veins. (Late stage mineral bearing fluids replace and brecciate exsisting clear quartz veins (?)). Trace 1-3 mm, pyite bearing veinlets occur in upper inteval section.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	3I	Sp	5
									ARG	2I	As	3
						MD	GN		PHC	1I	Py	4
											Gn	6
194.10	195.30	1.20	GRD	MG	weakly to moderate propylitic, trace argillic, rubbly, gouge brecciated granodiorite interval containint 1-3 mm, mineralized quatz veins. Disseminated pyrite is observed throughout grd interval , and is more abundant in dark grey, soft rubbly zones. Mineralized veins contain blebby arsone pyrite, galena, pyrite and trace sphalerite. Light pink rhodochrosite appears to infill and brecciated mineralized vein zones. Dark, grey pyrite bearing , soft sections are weakly to moderately sericitized (soft, glitter, fine grained disseminated pyrite).							
											As	3
						LT	GN	BX	ARG	1I	Sp	3
											Py	5
						MD	GN	RB	PRO	2I	Py	8
						LT	BG				Gn	3
195.30	204.89	9.59	GRD	MG	moderately argillic, weak propylitic, trace potassic granodiorite with intermittent zones of weakly potassic/arigllic alteration. Local rubbly, brecciated sections are observed throughout interval. Semi massive pyrite is observed along frature surfaces on rubbly grd interval. (rubbly interval appears more argillic). Trace disseminated pyrite is locally observed within grd and within 1-2 mm, quartz veinlets.							
204.89	206.70	1.81	GRD	MG	gouged, brecciated and rubbly moderately argilligc granodiorite with intermittent zones of trace propylitic and potassic alteration. Rubbly interval occurs from 205.74-206.60m. Trace disseminated pyrite is observed in less potassic grd sections. Trace disseminated pyrite also occurs within rubbly fragments in faulted interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
206.70	209.10	2.40	GRD	MG	weakly propylitic, phyllic granodiorite with intermitten zones of weak argillic, trace potassic alteration. Trace disseminated pyrite occurs within host grd and within 1-2 mm quartz veinlets. Blebby pyrite also occurs along fracutre surfaces. Light brown/ ocre , fine grained dyke intrusions in granodiorite occurs @ 207.30 and 208.45m (~60 degrees TCA)>							
						LT	BG					
						LT	GN					
209.10	209.46	0.36	GRD	MG	brecciated, mineralized vein zone in moderate propylitic, weakl argillic granodiorite. Blebby pyrite occurs within darker , smoeky quartz veins and within brecciated sections of grd. Trace galena is observed in ankerite infilled, vein sections.							
											Gn	2
											Ak	3
						MD	GN	BX	PRO	2I	Py	6
209.46	213.10	3.64	GRD	MG	Weakly to moderately propylitic, weakly argillic, trace phyllic granodiorite with intermittent zones of weak potassic alteration. Rubbly, gouged and brecciates zones are locally observed. Pyrite is contained within 1-3 mm quartz veinlets, along fracture surfaces in rubbly zones and within weakly propylitic, trace argillic grd.							
213.10	213.64	0.54	GRD	MG	weakly argillic, trace phyllic granodiorite interval containint 1 - 2 cm mineralized veins. Blebby pyrite and semi massive pyrite is observed in vein @ 213.22m and semi massive pyrite in gouged, vein @ 213.55m. Pyrite in vein @ 213.22 is contained within a ankerite infilled quartz vein. Milky quartz inclusions appear to offset vein @ 213.22m Sub-mm sphalerite crystals are observed within vein and milky quartz.							
						LT	BG		PHC	1I	Ak	3
									ARG	2I	Gn	3
						LT	GN		PRO	1I	Py	8
213.64	214.00	0.36	GRD	MG	weakly argillic, moderately propylitic granodiorite interval. Trace disseminated pyrite is observed within 1-2 mm quartz veinlets and along fracture surfaces							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
214.00	216.65	2.65	GRD	MG	weakly argillic, propylitic granodiorite interval with alternating zones of weakly potassic, moderately propylitic and weak argillic alteration. Disseminated pyrite occurs within sub-mm veinlets and blebby pyrite occurs in fracture surfaces (i.e. 215.85m). Fracture surfaces in rubbly zone @ 216.30 are locally observed.							
216.65	223.50	6.85	GRD	MG	trace propylitic, potassic granodiorite sections with alternating moderate propylitic, weakly propylitic and phyllic granodiorite. Traec pyrite is observed in phyllic altered section within grd and pyrite is observed in smoeky quartz veins.							
223.50	226.24	2.74	GRD	MG	weak to moderate argillic, weak phyllic, trace propylitic granodiorite interval containting ~ 10cm mineralized vein zones. Blebby, disseminated pyrite, trace galena occurs in mineralized quartz veins.							
									PRO	1I	Gn	2
						LT	BG		PHC	1I	Py	3
						LT	GN		ARG	2I	Py	5
226.24	233.26	7.02	GRD	MG	weakly argillic, potassic, trace propylitic granodiorite with intermittent zones of increased potassic and argillic alteration. Fractured zones are observed in increased argillic altered grd. Reddish, hematitic ozidation is locally observed in some altered grd sections and along fracture, joint surfaces. Trace, disseminated pyrite occurs in some grd sections. (very minor pyrite but sporadic grains are observed). Trace 1-2 mm, quartz veinlets also occur in interval.							
						LT	PK		PRO	2I	Py	2
						LT	BG		POT	1I		
									ARG	1I		
						LT	GN		ARG	3I		
233.26	235.61	2.35	GRD	MG	weakly phyllic, trace propylitic, argillic granodiorite interval with local gouge brecciated zones and hosting fractured,rubbly, polymetallic veins. Semi massive galena, pyrite, blebby arsenopyrite, chalcopyrite, sphalerite occur in polymetallic vein zones. Ankerite and rhodochrosite partilliy infilling and brecciating polymetallic veins are observed.							
											As	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN	FR	PRO	2I	Rh	3
											Py	6
											Ak	4
									PHC	1I	Sp	5
						LT	GN	RB	ARG	1I	Gn	8
235.61	238.35	2.74	GRD	MG	farctured, rubbly interva of weakly to moderate argillic , trace propylitic granodiorite with intermittent zones of trace potassic alteration. Disseminated pyrite is observed throughout rubbly interval							
						LT	BG	FR	PRO	1I	Py	4
						LT	PK					
						LT	GN	RB	ARG	3I		
238.35	238.68	0.33	GRD	FG	rubbly granodiorite interval (cave(?)) . Disseminated pyrite is commonly observed within fine rubbly zone.							
						LT	GY	RB				
238.68	245.35	6.67	GRD	MG	locally fractured interval of trace potassic, proplyitic granodiorite with intermittent zones of increased propylitic and potassic alteration. Trace disseminated pyrite is sometimes observed within grd interval							
									POT	2I		
						LT	PK		ARG	2I		
						LT	GN		PRO	3I		
						LT	BG	FR	PRO	1I	Py	2
245.35	257.10	11.75	GRD	MG	moderately argillic, weakly propylitic granodiorite with intermittent zones of weakly potassic altered grd and weakly argillic, trace propylitic, locally fractured grd zones. Gouge brecciation is observed @ 245.60-246m. Quatz vein containting trace blebby pyrite occurs @ 249.96m. A sheared, gouge brecciated, pyrite bearing zone is observed @ 252.55m-252.75m.							
						LT	GY	BX	PRO	2I	Py	3
						LT	BG		POT	1I		
									PRO	2I		
						LT	GN		POT	2I		
						LT	PK		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
257.10	263.02	5.92	GRD	MG	Fractured, granodiorite interval with intermittent ones of moderate potassic, moderate argillic and weak propylitic alteration. Trace, pyrite bearing (trace pyrite blebs) 1-2 mm veinlets are observed and are locally offset by fracturing. Mineralized vein zone @ 259.49m is observed in gouged, brecciated granodiorite section. Vein one appears to be brecciated and contains red, hematite, and trace ankerite, calcite infill. Blebby pyrite is observed ithin clear quartz vein and with dark grey, soft gouge, vein seams. Disseminated pyrite is also observed in altered granodiorite mineralized vein zoine.							
						LT	BG	FR	ARG	3I	Py	5
						MD	PK	RB	POT	3I	Ak	2
						LT	GN	BX	PRO	2I	Py	5
263.02	269.62	6.60	GRD	MG	Interval composed of alternating zones of moderately potassic, argillic, trace potassic, propylitic granodiorite, intermittentz zones of Wealkly propylitic, argillic granodiorite and relatively unaltered granodiorite zones with trace potassic, propylitic alteration. Pyrite bearing quartz veins are observed from 265.18-265.60m; where pyrite is observed within 1 cm quartz veins and within thin, dark grey, fine grained bands.							
						LT	BG		ARG	3I		
						MD	PK		ARG	3I		
									PRO	2I		
									PRO	1I		
						LT	GN		POT	3I	Py	3
269.62	272.31	2.69	GRD	MG	Fractured interval of weakly potassic, trace propylitic granodiorite. Dark red hematitic oxidation is observed along fractures and joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
272.31	278.13	5.82	GRD	MG	moderately silicified, weakly potassic, weak to moderately argillic granodiorite with locally fractured and rubbly zones. 1 mm, dark red, magnetic bands and irregular linear inclusions are locally observed throughout interval. Rubbly intervals exhibit less potassic and increased argillic alteration. Fine grained disseminated pyrite is observed within rubbly zones and within vein fragments in rubbly zones (vein fragments contain pinkish, rhodochrosite and dark grey, fine grained , pyrite bearing bands).							
						LT	BG	FR	ARG	3I	Py	3
						LT	PK	RB	SIL	3I		
						LT	GN		POT	2I		
278.13	284.57	6.44	GRD	MG	moderately argillic , trace propylitic granodiorite interval with local rubbly zones. Interval contains sub-mm, dark grey, pyrite bearing bands and increased quartz clasts (weakly silicified). Gouged, brecciated zones are commonly observed throughout interval.							
284.57	290.00	5.43	GRD	MG	interval composed of weakly to moderate propylitic, weakly argillic and intermittent zones of trace potassic, argillic granodiorite. Gouged brecciated and rubbly zones are locally observed. (interval exhibits increased propylitic alteration and increased pyrite within grd host). Rubbly, mineralized zones (i.e. 288.40-288.57m) contain semi massive pyrite, galena and trace arseno pyrite within rhodochrosite infilled, quartz veins.							
						LT	GN	FR	ARG	2I	As	3
						LT	BG					
						MD	GY	BX	POT	1I	Gn	4
						MD	GN		PRO	3I	Py	6
290.00	295.66	5.66	GRD	MG	fractured and rubbly trace potassic , weakly to moderate propylitic grd interval. Fault zone is rubbly and gougy. Fault foot wall is gouged, brecciated and moderately propylitic. Pyrite, trace galena and rhodochrostite bearing vein fragments in faulted section are locally observed. Vein brecciation is also observed in fault brecciated zones where ankerite brecciates host grd and hosts fine grained pyrite.							
						MD	GN	RB			Gn	2
						LT	GN	BX	POT	1I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK	FR	PRO	3I	Ak	3
295.66	300.58	4.92	GRD	MG	interval composed of locally fractured zones of weakly potassic, trace propylitic granodiorite with intermittent zones of increased hematitic oxidation (hematite ozidation increases with depth. Rubbly zones occur from 297-300.58m (faulted interval). Trace, hematite infilled veinlets are observed thourhgout interval.							
						DK	GN	FR	HEM	3I		
						MD	PK	RB	POT	2I		
						DK	RD					
300.58	301.43	0.85	GRD	MG	Fractured, gouged interval of moderately propylitic granodiorite containin 3mm-2 cm polymetallic veins. Vein @ 300.75 m contain blebby arsenopyrite, blebby pyrite (within arseno bearing zone) and trace galena and sphalerite within ankerite. Ankerite appears to brecciated and partially infill polymetallic vein. Blebby an disseminate pyrite is also observed within altered grd. Vein zone also contains light grey, quartz brecciating ankerite and mineralized quartz veins.							
						DK	GN				Gn	2
						MD	GN				Ak	4
											As	8
											Qz	5
											Sp	3
											Py	5
301.43	305.56	4.13	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of argillic and weakly propylitic alteration. Local rubbly, fractured zones are common throughtout interval. From 304.72-305.56m interval is sheared (fracturing along shear planes (?)). Quartz vein containting trace pyrite is observed @ 302.30-302.64m. Disseminated pyrite interstitially surrounding host grd near vein zone is observed.							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.40	1.40	0	0	0.00	0	--	--	--	
1.40	1.52	0.12	0.12	100	0.10	83	--	4H	3W	
1.52	3.05	1.53	0.45	29	0.00	0	--	4H	3W	No recovery
3.05	4.57	1.52	0.1	7	0.00	0	--	4H	3W	No recovery
4.57	6.10	1.53	1.53	100	0.13	8	--	4H	3W	
6.10	7.62	1.52	1.52	100	0.61	40	--	4H	3W	
7.62	9.14	1.52	1.27	84	0.38	25	--	4H	3W	
9.14	10.67	1.53	1.5	98	0.91	59	--	3H	3W	
10.67	12.19	1.52	1.35	89	0.55	36	--	4H	3W	
12.19	13.72	1.53	1.53	100	1.24	81	--	3H	3W	
13.72	15.24	1.52	1.52	100	0.20	13	--	2H	4W	No recovery
15.24	16.76	1.52	1.4	92	0.48	32	--	4H	3W	
16.76	18.29	1.53	1.4	92	0.30	20	--	4H	2W	
18.29	19.81	1.52	1.45	95	0.61	40	--	3H	4W	
19.81	21.34	1.53	1.53	100	0.48	31	--	3H	4W	
21.34	22.86	1.52	1.52	100	0.48	32	--	3H	4W	
22.86	24.38	1.52	1.5	99	1.20	79	--	3H	4W	
24.38	25.91	1.53	1.53	100	0.10	7	--	3H	4W	No recovery
25.91	27.43	1.52	1.31	86	0.36	24	--	3H	4W	
27.43	28.96	1.53	1.51	99	0.20	13	--	3H	4W	
28.96	30.48	1.52	1.52	100	0.50	33	--	4H	3W	
30.48	32.00	1.52	1.52	100	0.26	17	--	4H	3W	No recovery
32.00	33.53	1.53	1.53	100	0.62	41	--	4H	3W	
33.53	35.05	1.52	1.52	100	0.41	27	--	4H	3W	
35.05	36.58	1.53	1.5	98	0.00	0	--	3H	4W	No recovery
36.58	38.10	1.52	1.52	100	0.36	24	--	4H	3W	
38.10	39.62	1.52	1.32	87	0.00	0	--	4H	3W	No recovery
39.62	41.15	1.53	1.44	94	0.00	0	--	3H	3W	No recovery
41.15	42.67	1.52	1.25	82	0.27	18	--	3H	4W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.67	44.20	1.53	1.53	100	0.26	17	--	4H	3W	No recovery
44.20	45.72	1.52	0.57	38	0.14	9	--	3H	3W	
45.72	47.24	1.52	1.52	100	0.44	29	--	3H	3W	
47.24	48.77	1.53	1.53	100	0.23	15	--	2H	4W	
48.77	50.29	1.52	1.52	100	0.21	14	--	3H	3W	No recovery
50.29	51.82	1.53	1.48	97	0.20	13	--	3H	4W	
51.82	53.34	1.52	1.5	99	0.51	34	--	3H	4W	
53.34	54.86	1.52	1.36	89	0.22	14	--	2H	4W	No recovery
54.86	56.39	1.53	1.53	100	0.73	48	--	3H	4W	
56.39	57.91	1.52	1.51	99	0.35	23	--	3H	4W	
57.91	60.96	3.05	2.88	94	0.94	31	--	3H	4W	
60.96	64.01	3.05	3.05	100	0.92	30	--	3H	3W	
64.01	67.06	3.05	2.48	81	0.72	24	--	4H	3W	
67.06	70.10	3.04	2.89	95	1.61	53	--	4H	2W	
70.10	73.15	3.05	2.91	95	1.91	63	--	4H	2W	
73.15	76.20	3.05	2.89	95	1.75	57	--	4H	2W	
76.20	79.25	3.05	3	98	0.95	31	--	4H	2W	
79.25	82.30	3.05	2.67	88	1.61	53	--	4H	2W	
82.30	85.34	3.04	3.04	100	1.68	55	--	4H	2W	
85.34	88.39	3.05	3.05	100	1.13	37	--	4H	1W	
88.39	91.44	3.05	3.05	100	2.09	69	--	4H	1W	
91.44	94.49	3.05	3	98	0.49	16	--	4H	1W	No recovery
94.49	97.54	3.05	2.78	91	0.65	21	--	3H	1W	
97.54	100.58	3.04	2.99	98	1.66	55	--	4H	1W	
100.58	103.63	3.05	2.67	88	1.50	49	--	3H	1W	
103.63	106.68	3.05	3.05	100	2.38	78	--	4H	1W	
106.68	109.73	3.05	3.05	100	2.27	74	--	4H	1W	
109.73	112.78	3.05	2.74	90	1.25	41	--	4H	1W	
112.78	115.82	3.04	2.99	98	1.31	43	--	3H	1W	
115.82	118.87	3.05	2.88	94	1.44	47	--	4H	1W	
118.87	121.92	3.05	2.66	87	0.83	27	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
121.92	124.97	3.05	2.3	75	0.00	0	--	2H	1W	
124.97	128.02	3.05	2.92	96	0.85	28	--	3H	1W	
128.02	131.06	3.04	3.04	100	1.27	42	--	3H	1W	
131.06	134.11	3.05	2.78	91	0.87	29	--	3H	1W	
134.11	137.16	3.05	2.98	98	2.08	68	--	4H	1W	
137.16	140.21	3.05	2.99	98	2.39	78	--	4H	1W	
140.21	143.26	3.05	2.7	89	0.57	19	--	4H	1W	
143.26	146.30	3.04	2.97	98	2.13	70	--	3H	1W	
146.30	149.35	3.05	3.05	100	2.45	80	--	4H	1W	
149.35	152.40	3.05	2.99	98	1.20	39	--	3H	1W	
152.40	155.45	3.05	2.99	98	2.93	96	--	3H	1W	
155.45	158.50	3.05	3.05	100	1.53	50	--	3H	1W	
158.50	161.54	3.04	3.04	100	1.87	62	--	4H	1W	
161.54	164.59	3.05	2.94	96	1.40	46	--	4H	1W	
164.59	167.64	3.05	3.02	99	2.16	71	--	4H	1W	
167.64	170.69	3.05	3.05	100	1.86	61	--	3H	1W	
170.69	173.74	3.05	3.05	100	2.10	69	--	4H	1W	
173.74	176.78	3.04	2.77	91	1.00	33	--	3H	1W	
176.78	178.31	1.53	1.53	100	0.71	46	--	2H	1W	
178.31	181.36	3.05	3.01	99	2.57	84	--	2H	1W	
181.36	184.40	3.04	2.95	97	1.50	49	--	4H	1W	
184.40	187.45	3.05	3.03	99	2.04	67	--	3H	1W	
187.45	190.50	3.05	3.05	100	2.12	70	--	3H	1W	
190.50	193.55	3.05	2.95	97	1.23	40	--	3H	1W	
193.55	196.60	3.05	2.88	94	1.36	45	--	3H	1W	
196.60	199.64	3.04	2.65	87	0.61	20	--	3H	1W	
199.64	202.69	3.05	2.88	94	0.87	29	--	3H	1W	
202.69	205.74	3.05	2.95	97	1.09	36	--	3H	1W	
205.74	208.79	3.05	2.82	92	0.77	25	--	3H	1W	
208.79	211.84	3.05	2.91	95	2.08	68	--	4H	1W	
211.84	214.88	3.04	2.95	97	1.75	58	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
214.88	217.93	3.05	3	98	1.98	65	--	4H	1W	
217.93	220.98	3.05	2.99	98	1.46	48	--	4H	1W	
220.98	224.03	3.05	3.05	100	1.35	44	--	3H	1W	
224.03	227.08	3.05	3.05	100	2.27	74	--	3H	1W	
227.08	230.12	3.04	3	99	2.55	84	--	4H	1W	
230.12	233.17	3.05	3.05	100	1.91	63	--	4H	1W	
233.17	235.61	2.44	2.17	89	0.52	21	--	2H	1W	
235.61	238.35	2.74	2.36	86	0.36	13	--	3H	1W	
238.35	238.66	0.31	0.31	100	0.00	0	--	2H	1W	No recovery
238.66	238.96	0.30	0.3	100	0.00	0	--	3H	1W	No recovery
238.96	240.94	1.98	1.98	100	0.75	38	--	4H	1W	
240.94	242.77	1.83	1.51	83	0.30	16	--	4H	1W	
242.77	244.60	1.83	1.55	85	0.10	5	--	3H	1W	
244.60	247.65	3.05	3.05	100	1.25	41	--	3H	1W	
247.65	250.70	3.05	2.73	90	0.62	20	--	3H	1W	
250.70	253.74	3.04	3	99	1.32	43	--	3H	1W	
253.74	255.73	1.99	1.92	96	1.09	55	--	4H	1W	
255.73	258.01	2.28	2.21	97	0.45	20	--	3H	1W	
258.01	259.38	1.37	1.13	82	0.13	9	--	3H	1W	
259.38	262.13	2.75	2.62	95	0.74	27	--	3H	1W	
262.13	265.18	3.05	2.99	98	1.13	37	--	3H	1W	
265.18	268.22	3.04	2.91	96	1.69	56	--	3H	1W	
268.22	271.27	3.05	2.89	95	0.84	28	--	4H	1W	
271.27	274.32	3.05	2.95	97	0.77	25	--	4H	1W	
274.32	277.37	3.05	2.54	83	0.20	7	--	4H	1W	
277.37	278.89	1.52	1.52	100	0.43	28	--	4H	1W	
278.89	281.94	3.05	2.64	87	0.78	26	--	3H	1W	
281.94	283.46	1.52	1.47	97	0.69	45	--	2H	1W	
283.46	284.99	1.53	1.53	100	0.50	33	--	2H	1W	
284.99	288.04	3.05	2.73	90	1.30	43	--	2H	1W	
288.04	289.56	1.52	1.52	100	0.25	16	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
289.56	291.08	1.52	1.52	100	0.14	9	--	3H	1W	
291.08	294.13	3.05	2.6	85	0.18	6	--	2H	1W	
294.13	295.66	1.53	1.49	97	0.43	28	--	3H	1W	
295.66	297.33	1.67	1.67	100	0.27	16	--	3H	1W	
297.33	298.24	0.91	0.72	79	0.00	0	--	3H	1W	No recovery
298.24	298.85	0.61	0.49	80	0.00	0	--	3H	1W	No recovery
298.85	299.62	0.77	0.77	100	0.00	0	--	3H	1W	No recovery
299.62	300.68	1.06	0.96	91	0.00	0	--	3H	1W	No recovery
300.68	303.12	2.44	2.33	95	0.10	4	--	3H	1W	
303.12	304.19	1.07	0.97	91	0.10	9	--	3H	1W	
304.19	305.56	1.37	1.04	76	0.00	0	--	3H	1W	No recovery

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	9.199	OVB	
2	0	GRD	Highly fractured
3	0	GRD	Highly fractured
4	0	GRD	Highly fractured
5	13.91	GRD	
6	9.785	GRD	
7	11.07	GRD	
8	17.6	GRD	
9	17.36	GRD	
10	17.91	GRD	
11	5.137	GRD	
12	0.608	GRD	
13	0.214	GRD	
14	0.229	FLR	
15	20.96	FLR	
16	23.67	GRD	
17	21.65	GRD	
18	7.43	GRD	
19	0.574	GRD	
20	5.996	GRD	
21	1.102	GRD	
22	0.63	GRD	
23	0.526	GRD	
24	0.419	GRD	
24	0.765	GRD	
25	0	GRD	Highly fractured
26	1.159	GRD	
27	0	GRD	Highly fractured
28	5.804	GRD	
29	3.601	GRD	
30	0	GRD	Highly fractured
31	27.83	GRD	
32	15.79	GRD	
33	19.98	GRD	
34	24.84	GRD	
35	0	GRD	Highly fractured
36	0	GRD	Highly fractured
37	18.12	GRD	
38	0	GRD	Highly fractured
39	0	GRD	Highly fractured
40	0	FLT	Highly fractured
41	3.61	FLT	
42	11.7	GRD	
43	10.97	GRD	
44	10.23	GRD	
45	4.204	GRD	
46	0.427	GRD	
47	0.339	GRD	
48	0	GRD	Highly fractured
49	0.495	VEN	
50	0.457	VEN	
51	0.354	GRD	
52	0.693	GRD	
53	0.389	GRD	
54	0.375	GRD	
55	0.643	GRD	
56	0.282	GRD	
57	0.282	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	0.461	GRD	
59	0.3	GRD	
60	0.165	GRD	
61	0.153	GRD	
62	0.293	QFP	
63	0.234	QFP	
64	8.253	QFP	
65	2.769	GRD	
66	9.429	GRD	
67	5.027	GRD	
68	15.11	GRD	
69	12.2	GRD	
70	27.44	GRD	
71	28.37	GRD	
72	19.98	GRD	
73	4.419	GRD	
74	17.83	GRD	
75	22.63	GRD	
76	20.16	GRD	
77	8.738	GRD	
78	0.69	GRD	
79	0.282	GRD	
80	0.339	VEN	
81	18.65	GRD	
82	20.29	GRD	
83	18.1	GRD	
84	12.24	GRD	
85	28.83	GRD	
86	21.77	GRD	
87	21	GRD	
88	22.65	GRD	
89	2.923	GRD	
90	12.69	GRD	
91	14.31	GRD	
92	0	GRD	Highly fractured
93	26.98	GRD	
94	26.47	GRD	
95	0.35	GRD	
96	1.842	GRD	
97	1.21	GRD	
98	6.405	GRD	
99	11.57	GRD	
100	1.441	GRD	
101	0.351	GRD	
102	0.298	FLT	
103	5.963	GRD	
104	0.585	GRD	
105	12.46	GRD	
106	4.551	GRD	
107	0.649	GRD	
108	17.69	GRD	
109	12.48	GRD	
110	0.362	GRD	
111	3.45	GRD	
112	0.762	GRD	
113	0	GRD	Highly fractured
113	0	GRD	Highly fractured
114	1.309	GRD	
115	10.73	GRD	
116	12.55	GRD	
117	13.07	GRD	
118	31.18	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
119	6.112	GRD	
120	8.961	GRD	
121	0	GRD	Highly fractured
122	0	GRD	Highly fractured
123	0	GRD	Highly fractured
124	0	GRD	Highly fractured
125	0	GRD	Highly fractured
126	6.939	GRD	
127	0.905	GRD	
128	3.931	GRD	
129	17.62	GRD	
130	0.49	GRD	
131	0.22	GRD	
132	0.209	GRD	
133	0.697	GRD	
134	2.12	GRD	
135	11.82	GRD	
136	19.54	GRD	
137	20.44	GRD	
138	21.61	GRD	
139	1.083	GRD	
140	13.1	GRD	
141	19.68	GRD	
142	0	GRD	Highly fractured
143	0.584	GRD	
144	1.999	GRD	
145	9.276	GRD	
146	11.98	GRD	
147	12.95	GRD	
148	16.32	GRD	
149	22	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
150	0.838	GRD	
151	4.069	GRD	
152	2.166	GRD	
153	0.68	GRD	
154	0.527	GRD	
155	0.22	GRD	
156	17.59	GRD	
157	5.555	GRD	
158	10.71	GRD	
159	16.79	GRD	
160	10.8	GRD	
161	20.99	GRD	
162	5.539	GRD	
163	19.06	GRD	
164	11.38	GRD	
165	10.03	GRD	
166	14.99	GRD	
167	0.508	GRD	
168	2.27	GRD	
169	4.324	GRD	
170	11	GRD	
171	1.724	GRD	
172	5.378	GRD	
173	0.701	GRD	
174	1.319	GRD	
175	0.895	GRD	
176	0.528	GRD	
177	0.356	GRD	
178	0.369	GRD	
179	0.809	GRD	
180	0.392	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
181	0.323	GRD	
182	0.263	GRD	
183	0.695	GRD	
184	0.432	GRD	
185	1.065	GRD	
186	0.285	GRD	
187	0.368	GRD	
188	1.501	GRD	
189	0.281	GRD	
190	0.441	GRD	
191	0.31	GRD	
192	0.486	GRD	
193	0.407	GRD	
194	0.195	GRD	
195	0.772	GRD	
196	0.151	GRD	
197	0.233	GRD	
198	0.219	GRD	
199	0.689	GRD	
200	0.375	GRD	
201	0.757	GRD	
202	6.459	GRD	
203	3.158	GRD	
204	0.219	GRD	
205	0.193	GRD	
206	0.284	GRD	
207	0.1	GRD	
208	0.308	GRD	
209	0.679	GRD	
210	1.65	GRD	
211	4.91	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
212	7.449	GRD	
213	0.201	GRD	
214	0.353	GRD	
214	0.353	GRD	
215	3.841	GRD	
216	0.188	GRD	
217	0.404	GRD	
218	2.406	GRD	
219	22.48	GRD	
220	23.95	GRD	
221	1.962	GRD	
222	21.92	GRD	
223	0.763	GRD	
224	0.133	GRD	
225	0.328	GRD	
226	6.374	GRD	
227	1.299	GRD	
228	0.958	GRD	
229	1.511	GRD	
230	1.423	GRD	
231	8.24	GRD	
232	8.932	GRD	
233	0.674	GRD	
234	0.735	GRD	
235	0.212	GRD	
236	7.088	GRD	
237	12.59	GRD	
238	1.649	GRD	
239	5.26	GRD	
240	7.249	GRD	
241	2.209	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
242	3.651	GRD	
243	4.37	GRD	
244	2.063	GRD	
245	0.88	GRD	
246	1.332	GRD	
247	0.417	GRD	
248	0.347	GRD	
249	0.318	GRD	
250	0.483	GRD	
251	0.229	GRD	
252	0.402	GRD	
253	0.534	GRD	
254	0.657	GRD	
255	0.847	GRD	
256	0.47	GRD	
257	1.148	GRD	
258	26.67	GRD	
259	0.218	GRD	
260	1.927	GRD	
261	6.7	GRD	
262	2.428	GRD	
263	14.07	GRD	
264	14.99	GRD	
265	1.759	GRD	
266	0.31	GRD	
267	0.803	GRD	
268	6.744	GRD	
269	23.63	GRD	
270	11.74	GRD	
271	13.17	GRD	
272	18.02	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
273	0.333	GRD	
274	0.345	GRD	
275	0.125	GRD	
276	0	GRD	Highly fractured
277	0.755	GRD	
278	0.373	GRD	
279	0.578	GRD	
280	0.984	GRD	
281	0.961	GRD	
282	0.493	GRD	
283	1.514	GRD	
284	0.35	GRD	
285	0.422	GRD	
286	0.315	GRD	
287	0.227	GRD	
288	0.374	GRD	
289	0.651	GRD	
290	7.617	GRD	
290	7.617	GRD	
291	0	GRD	Highly fractured
292	0.457	GRD	
293	0.378	GRD	
294	0.328	GRD	
295	0.392	GRD	
296	8.8	GRD	
297	0	GRD	Highly fractured
298	0	GRD	Highly fractured
299	0	GRD	Highly fractured
300	0	GRD	Highly fractured
301	0.172	GRD	
302	0.219	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
303	3.726	GRD	
304	0.509	GRD	
305	0	GRD	Highly fractured. EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-443

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603327	☐	19-032	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603405	☐	19-040	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603399	☐	19-039	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603380	☐	19-039	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603369	☐	19-039	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599160	☐	19-006	High grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603339	☐	19-032	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603319	☐	19-031	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603303	☐	19-031	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603289	☐	19-031	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603174	☐	19-016	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603351	☐	19-032	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599239	☐	19-006	High grade	ME-1402	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603281	☐	19-029	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603189	☐	19-016	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603197	☐	19-016	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603216	☐	19-019	low grade		☑	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603227	☐	19-019	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603241	☐	19-019	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603260	☐	19-029	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603272	☐	19-029	low grade	KL-STD6	☐	☐	☐
11.72	12.72	1.00	GRD	0.99	99	W603167	☐	19-016	low grade		☐	☐	☐
11.72	12.72	1.00	GRD	0.99	99	W603168	☐	19-016	low grade		☐	☐	☑
12.72	13.72	1.00	GRD	1.00	100	W603169	☐	19-016	low grade		☐	☐	☐
13.72	14.44	0.72	GRD	0.66	92	W603170	☐	19-016	low grade		☐	☐	☐
14.44	15.24	0.80	FLR	0.80	100	W603171	☐	19-016	low grade		☐	☐	☐
15.24	16.74	1.50	FLR, GRD	1.34	89	W603172	☐	19-016	low grade		☐	☐	☐
20.87	21.87	1.00	GRD	0.92	92	W603173	☐	19-016	low grade		☐	☐	☐
21.87	22.86	0.99	GRD	0.88	89	W603175	☐	19-016	low grade		☐	☐	☐
22.86	23.88	1.02	GRD	1.01	99	W603176	☐	19-016	low grade		☐	☐	☐
23.88	24.31	0.43	GRD	0.40	93	W603177	☐	19-016	low grade		☐	☐	☐
24.31	25.64	1.33	GRD	1.20	90	W603178	☐	19-016	low grade		☐	☐	☐
25.64	26.64	1.00	GRD	0.97	97	W603179	☐	19-016	low grade		☐	☐	☐
26.64	27.14	0.50	GRD	0.45	90	W603180	☐	19-016	low grade		☐	☐	☐
27.14	28.14	1.00	GRD	0.98	98	W603181	☐	19-016	low grade		☐	☐	☐
28.14	29.14	1.00	GRD	0.96	96	W603182	☐	19-016	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
28.14	29.14	1.00	GRD	0.96	96	W603183	☐	19-016	low grade		☐	☑	☐
44.10	46.05	1.95	GRD	0.95	49	W603184	☐	19-016	low grade		☐	☐	☐
46.05	46.90	0.85	GRD	0.80	94	W603185	☐	19-016	low grade		☐	☐	☐
46.90	47.69	0.79	GRD	0.75	95	W603186	☐	19-016	low grade		☐	☐	☐
47.69	48.77	1.08	GRD	1.05	97	W603187	☐	19-016	low grade		☐	☐	☐
48.77	50.29	1.52	GRD, VEN	1.30	86	W603188	☐	19-016	low grade		☐	☐	☐
50.29	50.92	0.63	VEN	0.60	95	W599155	☐	19-006	High grade		☐	☐	☐
50.92	51.92	1.00	VEN	0.95	95	W603190	☐	19-016	low grade		☐	☐	☐
51.92	52.92	1.00	GRD	1.00	100	W603191	☐	19-016	low grade		☐	☐	☐
52.92	53.70	0.78	GRD	0.66	85	W603192	☐	19-016	low grade		☐	☐	☐
53.70	54.45	0.75	GRD	0.71	95	W603193	☐	19-016	low grade		☐	☐	☐
54.45	55.44	0.99	GRD	0.96	97	W603194	☐	19-016	low grade		☐	☐	☐
55.44	55.83	0.39	GRD	0.38	97	W603195	☐	19-016	low grade		☐	☐	☐
55.83	56.77	0.94	GRD	0.93	99	W603196	☐	19-016	low grade		☐	☐	☐
56.77	57.73	0.96	GRD	0.96	100	W603198	☐	19-016	low grade		☐	☐	☐
57.73	59.03	1.30	GRD	1.20	92	W603199	☐	19-016	low grade		☐	☐	☐
59.03	59.85	0.82	GRD	0.75	91	W603200	☐	19-016	low grade		☐	☐	☐
59.85	60.58	0.73	GRD	0.73	100	W603201	☐	19-016	low grade		☐	☐	☐
60.58	61.60	1.02	GRD	0.86	84	W603202	☐	19-019	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
61.60	62.60	1.00	QFP	1.00	100	W603203	☐	19-019	low grade		☐	☐	☐
62.60	64.01	1.41	QFP	1.30	92	W603204	☐	19-019	low grade		☐	☐	☐
64.01	64.60	0.59	GRD, QFP	0.50	85	W603205	☐	19-019	low grade		☐	☐	☐
64.60	65.63	1.03	GRD	1.00	97	W603206	☐	19-019	low grade		☐	☐	☐
65.63	66.40	0.77	GRD	0.55	71	W603207	☐	19-019	low grade		☐	☐	☐
66.40	67.20	0.80	GRD	0.50	63	W603208	☐	19-019	low grade		☐	☐	☐
67.20	68.20	1.00	GRD, GRD	1.00	100	W603209	☐	19-019	low grade		☐	☐	☐
67.20	68.20	1.00	GRD, GRD	1.00	100	W603210	☐	19-019	low grade		☐	☑	☐
76.80	77.80	1.00	GRD	0.98	98	W603211	☐	19-019	low grade		☐	☐	☐
77.80	78.53	0.73	GRD	0.71	97	W603212	☐	19-019	low grade		☐	☐	☐
78.53	79.19	0.66	GRD	0.60	91	W603213	☐	19-019	low grade		☐	☐	☐
79.19	79.84	0.65	GRD	0.54	83	W603214	☐	19-019	low grade		☐	☐	☐
79.84	80.30	0.46	VEN, GRD	0.43	93	W603215	☐	19-019	low grade		☐	☐	☐
80.30	81.30	1.00	GRD	1.00	100	W603217	☐	19-019	low grade		☐	☐	☐
81.30	82.30	1.00	GRD	1.00	100	W603218	☐	19-019	low grade		☐	☐	☐
93.62	94.62	1.00	GRD	0.93	93	W603219	☐	19-019	low grade		☐	☐	☐
94.62	95.62	1.00	GRD	0.91	91	W603220	☐	19-019	low grade		☐	☐	☐
95.62	96.17	0.55	GRD	0.48	87	W603221	☐	19-019	low grade		☐	☐	☐
96.17	96.56	0.39	GRD	0.38	97	W603222	☐	19-019	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
96.56	97.54	0.98	GRD	0.88	90	W603223	☐	19-019	low grade		☐	☐	☐
96.56	97.54	0.98	GRD	0.88	90	W603224	☐	19-019	low grade		☐	☐	☑
97.54	98.54	1.00	GRD	0.96	96	W603225	☐	19-019	low grade		☐	☐	☐
111.97	112.97	1.00	GRD	0.95	95	W603226	☐	19-019	low grade		☐	☐	☐
112.97	113.97	1.00	GRD	0.90	90	W603228	☐	19-019	low grade		☐	☐	☐
113.97	114.68	0.71	GRD	0.66	93	W603229	☐	19-019	low grade		☐	☐	☐
114.68	115.22	0.54	GRD	0.53	98	W603230	☐	19-019	low grade		☐	☐	☐
115.22	116.42	1.20	GRD	1.20	100	W603231	☐	19-019	low grade		☐	☐	☐
116.42	117.42	1.00	GRD	0.95	95	W603232	☐	19-019	low grade		☐	☐	☐
117.42	118.41	0.99	GRD	0.97	98	W603233	☐	19-019	low grade		☐	☐	☐
118.41	118.87	0.46	GRD	0.38	83	W603234	☐	19-019	low grade		☐	☐	☐
118.87	119.70	0.83	GRD	0.81	98	W603235	☐	19-019	low grade		☐	☐	☐
119.70	120.63	0.93	GRD	0.66	71	W603236	☐	19-019	low grade		☐	☐	☐
120.63	121.46	0.83	GRD	0.82	99	W603237	☐	19-019	low grade		☐	☐	☐
121.46	122.39	0.93	GRD, GRD	0.93	100	W603238	☐	19-019	low grade		☐	☐	☐
122.39	123.18	0.79	GRD	0.77	97	W603239	☐	19-019	low grade		☐	☐	☐
123.18	124.13	0.95	GRD	0.91	96	W603240	☐	19-019	low grade		☐	☐	☐
124.13	124.84	0.71	GRD	0.70	99	W603242	☐	19-029	low grade		☐	☐	☐
124.84	125.93	1.09	GRD	0.97	89	W603243	☐	19-029	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
125.93	127.00	1.07	GRD, GRD	1.04	97	W603244	☐	19-029	low grade		☐	☐	☐
127.00	127.81	0.81	GRD	0.81	100	W603245	☐	19-029	low grade		☐	☐	☐
127.81	128.41	0.60	GRD	0.56	93	W603246	☐	19-029	low grade		☐	☐	☐
128.41	128.84	0.43	GRD	0.40	93	W603247	☐	19-029	low grade		☐	☐	☐
128.84	129.40	0.56	GRD	0.55	98	W603248	☐	19-029	low grade		☐	☐	☐
129.40	129.91	0.51	GRD	0.51	100	W603249	☐	19-029	low grade		☐	☐	☐
129.91	131.06	1.15	GRD	1.05	91	W603250	☐	19-029	low grade		☐	☐	☐
131.06	131.64	0.58	GRD	0.55	95	W603251	☐	19-029	low grade		☐	☐	☐
131.64	132.19	0.55	GRD	0.46	84	W603252	☐	19-029	low grade		☐	☐	☐
132.19	133.13	0.94	GRD	0.90	96	W603253	☐	19-029	low grade		☐	☐	☐
132.19	133.13	0.94	GRD	0.90	96	W603254	☐	19-029	low grade		☐	☐	☑
133.13	133.61	0.48	GRD	0.48	100	W603255	☐	19-029	low grade		☐	☐	☐
133.61	134.11	0.50	GRD	0.48	96	W603256	☐	19-029	low grade		☐	☐	☐
134.11	135.07	0.96	GRD, GRD	0.89	93	W603257	☐	19-029	low grade		☐	☐	☐
135.07	136.13	1.06	GRD	1.03	97	W603258	☐	19-029	low grade		☐	☐	☐
136.13	137.16	1.03	GRD	1.03	100	W603259	☐	19-029	low grade		☐	☐	☐
137.16	138.12	0.96	GRD	0.94	98	W603261	☐	19-029	low grade		☐	☐	☐
138.12	139.16	1.04	GRD	0.98	94	W603262	☐	19-029	low grade		☐	☐	☐
139.16	139.84	0.68	GRD	0.65	96	W603263	☐	19-029	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
143.30	143.85	0.55	GRD	0.40	73	W603264	☐	19-029	low grade		☐	☐	☐
147.97	148.97	1.00	GRD	1.00	100	W603265	☐	19-029	low grade		☐	☐	☐
147.97	148.97	1.00	GRD	1.00	100	W603266	☐	19-029	low grade		☐	☑	☐
148.97	149.97	1.00	GRD	0.98	98	W603267	☐	19-029	low grade		☐	☐	☐
149.97	150.43	0.46	GRD, GRD	0.45	98	W603268	☐	19-029	low grade		☐	☐	☐
150.43	151.43	1.00	GRD	0.98	98	W603269	☐	19-029	low grade		☐	☐	☐
151.43	152.40	0.97	GRD	0.87	90	W603270	☐	19-029	low grade		☐	☐	☐
165.40	166.40	1.00	GRD	1.00	100	W603271	☐	19-029	low grade		☐	☐	☐
166.40	167.40	1.00	GRD	1.00	100	W603273	☐	19-029	low grade		☐	☐	☐
167.40	168.46	1.06	GRD	1.04	98	W603274	☐	19-029	low grade		☐	☐	☐
168.46	168.77	0.31	GRD	0.29	94	W603275	☐	19-029	low grade		☐	☐	☐
173.42	174.42	1.00	GRD	1.00	100	W603276	☐	19-029	low grade		☐	☐	☐
174.42	175.43	1.01	GRD	1.00	99	W603277	☐	19-029	low grade		☐	☐	☐
175.43	176.43	1.00	GRD	0.95	95	W603278	☐	19-029	low grade		☐	☐	☐
176.43	177.06	0.63	GRD, GRD	0.57	90	W603279	☐	19-029	low grade		☐	☐	☐
177.06	177.80	0.74	GRD	0.73	99	W603280	☐	19-029	low grade		☐	☐	☐
177.80	178.31	0.51	GRD	0.50	98	W599159	☐	19-006	High grade		☐	☐	☐
178.31	178.79	0.48	GRD	0.46	96	W603282	☐	19-031	low grade		☐	☐	☐
178.79	179.98	1.19	GRD	1.04	87	W603283	☐	19-031	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
179.98	180.70	0.72	GRD	0.70	97	W603284	☐	19-031	low grade		☐	☐	☐
180.70	181.63	0.93	GRD	0.93	100	W603285	☐	19-031	low grade		☐	☐	☐
181.63	182.22	0.59	GRD	0.58	98	W603286	☐	19-031	low grade		☐	☐	☐
182.22	182.74	0.52	GRD	0.50	96	W603287	☐	19-031	low grade		☐	☐	☐
182.74	183.74	1.00	GRD	1.00	100	W603288	☐	19-031	low grade		☐	☐	☐
183.74	185.00	1.26	GRD	1.20	95	W603290	☐	19-031	low grade		☐	☐	☐
185.00	186.17	1.17	GRD	1.00	85	W603291	☐	19-031	low grade		☐	☐	☐
186.17	186.90	0.73	GRD, GRD	0.68	93	W603292	☐	19-031	low grade		☐	☐	☐
186.90	188.25	1.35	GRD	1.25	93	W603293	☐	19-031	low grade		☐	☐	☐
188.25	189.52	1.27	GRD	1.26	99	W603294	☐	19-031	low grade		☐	☐	☐
188.25	189.52	1.27	GRD	1.26	99	W603295	☐	19-031	low grade		☐	☑	☐
189.52	190.45	0.93	GRD	0.88	95	W603296	☐	19-031	low grade		☐	☐	☐
190.45	190.95	0.50	GRD	0.50	100	W603297	☐	19-031	low grade		☐	☐	☐
190.95	192.34	1.39	GRD	1.25	90	W603298	☐	19-031	low grade		☐	☐	☐
192.34	193.55	1.21	GRD	1.20	99	W603299	☐	19-031	low grade		☐	☐	☐
193.55	193.97	0.42	GRD, GRD	0.40	95	W603300	☐	19-031	low grade		☐	☐	☐
193.97	194.57	0.60	GRD	0.53	88	W603301	☐	19-031	low grade		☐	☐	☐
194.57	195.40	0.83	GRD	0.67	81	W603302	☐	19-031	low grade		☐	☐	☐
195.40	196.60	1.20	GRD	1.20	100	W603304	☐	19-031	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
196.60	197.49	0.89	GRD	0.79	89	W603305	☐	19-031	low grade		☐	☐	☐
197.49	198.44	0.95	GRD	0.85	89	W603306	☐	19-031	low grade		☐	☐	☐
197.49	198.44	0.95	GRD	0.85	89	W603307	☐	19-031	low grade		☐	☐	☑
198.44	199.48	1.04	GRD	1.03	99	W603308	☐	19-031	low grade		☐	☐	☐
199.48	200.36	0.88	GRD	0.74	84	W603309	☐	19-031	low grade		☐	☐	☐
200.36	201.36	1.00	GRD	1.00	100	W603310	☐	19-031	low grade		☐	☐	☐
201.36	202.36	1.00	GRD	0.98	98	W603311	☐	19-031	low grade		☐	☐	☐
202.36	203.36	1.00	GRD	0.96	96	W603312	☐	19-031	low grade		☐	☐	☐
203.36	204.31	0.95	GRD	0.90	95	W603313	☐	19-031	low grade		☐	☐	☐
204.31	205.31	1.00	GRD	1.00	100	W603314	☐	19-031	low grade		☐	☐	☐
205.31	205.74	0.43	GRD	0.42	98	W603315	☐	19-031	low grade		☐	☐	☐
205.74	206.40	0.66	GRD	0.65	98	W603316	☐	19-031	low grade		☐	☐	☐
206.40	206.91	0.51	GRD	0.50	98	W603317	☐	19-031	low grade		☐	☐	☐
206.91	208.15	1.24	GRD	1.03	83	W603318	☐	19-031	low grade		☐	☐	☐
208.15	209.15	1.00	GRD	1.00	100	W603320	☐	19-031	low grade		☐	☐	☐
209.15	209.44	0.29	GRD	0.29	100	W603321	☐	19-031	low grade		☐	☐	☐
209.44	210.44	1.00	GRD	1.00	100	W603322	☐	19-032	low grade		☐	☐	☐
210.44	211.35	0.91	GRD	0.77	85	W603323	☐	19-032	low grade		☐	☐	☐
211.35	212.15	0.80	GRD	0.70	88	W603324	☐	19-032	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
212.15	213.15	1.00	GRD	0.96	96	W603325	☐	19-032	low grade		☐	☐	☐
213.15	213.51	0.36	GRD	0.35	97	W603326	☐	19-032	low grade		☐	☐	☐
213.51	214.51	1.00	GRD	0.98	98	W603328	☐	19-032	low grade		☐	☐	☐
214.51	215.51	1.00	GRD	1.00	100	W603329	☐	19-032	low grade		☐	☐	☐
222.03	223.03	1.00	GRD	1.00	100	W603330	☐	19-032	low grade		☐	☐	☐
223.03	224.03	1.00	GRD	1.00	100	W603331	☐	19-032	low grade		☐	☐	☐
223.03	224.03	1.00	GRD	1.00	100	W603332	☐	19-032	low grade		☐	☑	☐
224.03	224.37	0.34	GRD	0.33	97	W603333	☐	19-032	low grade		☐	☐	☐
224.37	224.80	0.43	GRD	0.40	93	W603334	☐	19-032	low grade		☐	☐	☐
224.80	225.19	0.39	GRD	0.33	85	W603335	☐	19-032	low grade		☐	☐	☐
225.19	225.73	0.54	GRD	0.51	94	W603336	☐	19-032	low grade		☐	☐	☐
225.73	226.00	0.27	GRD	0.25	93	W603337	☐	19-032	low grade		☐	☐	☐
226.00	227.00	1.00	GRD	1.00	100	W603338	☐	19-032	low grade		☐	☐	☐
227.00	228.00	1.00	GRD	1.00	100	W603340	☐	19-032	low grade		☐	☐	☐
231.84	232.84	1.00	GRD	1.00	100	W603341	☐	19-032	low grade		☐	☐	☐
232.84	233.45	0.61	GRD	0.56	92	W603342	☐	19-032	low grade		☐	☐	☐
233.45	233.80	0.35	GRD	0.33	94	W599164	☐	19-006	High grade		☐	☐	☐
233.80	234.33	0.53	GRD	0.40	75	W603343	☐	19-032	low grade		☐	☐	☐
234.33	234.69	0.36	GRD	0.33	92	W603344	☐	19-032	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
234.33	234.69	0.36	GRD	0.33	92	W603345	☐	19-032	low grade		☐	☐	☑
234.69	235.31	0.62	GRD	0.61	98	W603346	☐	19-032	low grade		☐	☐	☐
235.31	235.61	0.30	GRD	0.30	100	W599166	☐	19-006	High grade		☐	☐	☐
235.61	236.01	0.40	GRD, GRD	0.35	88	W603347	☐	19-032	low grade		☐	☐	☐
236.01	237.01	1.00	GRD	0.95	95	W603348	☐	19-032	low grade		☐	☐	☐
237.01	237.77	0.76	GRD	0.74	97	W603349	☐	19-032	low grade		☐	☐	☐
237.77	238.35	0.58	GRD	0.57	98	W603350	☐	19-032	low grade		☐	☐	☐
238.35	239.30	0.95	GRD, GRD	0.93	98	W603352	☐	19-032	low grade		☐	☐	☐
239.30	240.30	1.00	GRD	1.00	100	W603353	☐	19-032	low grade		☐	☐	☐
248.96	249.96	1.00	GRD	0.98	98	W603354	☐	19-032	low grade		☐	☐	☐
249.96	250.26	0.30	GRD	0.30	100	W603355	☐	19-032	low grade		☐	☐	☐
250.26	251.14	0.88	GRD	0.87	99	W603356	☐	19-032	low grade		☐	☐	☐
251.14	252.22	1.08	GRD	1.06	98	W603357	☐	19-032	low grade		☐	☐	☐
252.22	252.81	0.59	GRD	0.55	93	W603358	☐	19-032	low grade		☐	☐	☐
252.81	253.81	1.00	GRD	0.99	99	W603359	☐	19-032	low grade		☐	☐	☐
257.50	258.50	1.00	GRD	0.98	98	W603360	☐	19-032	low grade		☐	☐	☐
258.50	259.50	1.00	GRD	1.00	100	W603361	☐	19-032	low grade		☐	☐	☐
259.50	259.84	0.34	GRD	0.33	97	W603362	☐	19-039	low grade		☐	☐	☐
259.84	260.72	0.88	GRD	0.53	60	W603363	☐	19-039	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
260.72	261.40	0.68	GRD	0.68	100	W603364	☐	19-039	low grade		☐	☐	☐
261.40	262.40	1.00	GRD	0.99	99	W603365	☐	19-039	low grade		☐	☐	☐
262.40	262.71	0.31	GRD	0.30	97	W603366	☐	19-039	low grade		☐	☐	☐
262.71	263.71	1.00	GRD	0.98	98	W603367	☐	19-039	low grade		☐	☐	☐
263.71	264.34	0.63	GRD	0.61	97	W603368	☐	19-039	low grade		☐	☐	☐
264.34	265.34	1.00	GRD	0.99	99	W603370	☐	19-039	low grade		☐	☐	☐
265.34	265.74	0.40	GRD	0.30	75	W603371	☐	19-039	low grade		☐	☐	☐
265.74	266.74	1.00	GRD	0.99	99	W603372	☐	19-039	low grade		☐	☐	☐
274.60	275.60	1.00	GRD	1.00	100	W603373	☐	19-039	low grade		☐	☐	☐
275.60	276.30	0.70	GRD	0.65	93	W603374	☐	19-039	low grade		☐	☐	☐
275.60	276.30	0.70	GRD	0.65	93	W603375	☐	19-039	low grade		☐	☐	☑
276.30	277.30	1.00	GRD	1.00	100	W603376	☐	19-039	low grade		☐	☐	☐
277.30	278.11	0.81	GRD	0.70	86	W603377	☐	19-039	low grade		☐	☐	☐
278.11	279.11	1.00	GRD	0.98	98	W603378	☐	19-039	low grade		☐	☐	☐
283.20	284.20	1.00	GRD	1.00	100	W603379	☐	19-039	low grade		☐	☐	☐
284.20	284.57	0.37	GRD	0.33	89	W603381	☐	19-039	low grade		☐	☐	☐
284.57	285.00	0.43	GRD, GRD	0.41	95	W603382	☐	19-039	low grade		☐	☐	☐
285.00	285.83	0.83	GRD	0.82	99	W603383	☐	19-039	low grade		☐	☐	☐
285.83	286.20	0.37	GRD	0.30	81	W603384	☐	19-039	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
286.20	287.20	1.00	GRD	1.00	100	W603385	☐	19-039	low grade		☐	☐	☐
287.20	288.20	1.00	GRD	1.00	100	W603386	☐	19-039	low grade		☐	☐	☐
287.20	288.20	1.00	GRD	1.00	100	W603387	☐	19-039	low grade		☐	☑	☐
288.20	289.00	0.80	GRD	0.75	94	W603388	☐	19-039	low grade		☐	☐	☐
289.00	289.56	0.56	GRD	0.55	98	W603389	☐	19-039	low grade		☐	☐	☐
289.56	290.00	0.44	GRD	0.40	91	W603390	☐	19-039	low grade		☐	☐	☐
290.00	291.00	1.00	GRD, GRD	1.00	100	W603391	☐	19-039	low grade		☐	☐	☐
291.00	291.48	0.48	GRD	0.46	96	W603392	☐	19-039	low grade		☐	☐	☐
291.48	292.20	0.72	GRD	0.72	100	W603393	☐	19-039	low grade		☐	☐	☐
292.20	292.60	0.40	GRD	0.40	100	W603394	☐	19-039	low grade		☐	☐	☐
292.60	293.08	0.48	GRD	0.48	100	W603395	☐	19-039	low grade		☐	☐	☐
293.08	293.69	0.61	GRD	0.60	98	W603396	☐	19-039	low grade		☐	☐	☐
293.69	294.13	0.44	GRD	0.40	91	W603397	☐	19-039	low grade		☐	☐	☐
294.13	294.62	0.49	GRD	0.48	98	W603398	☐	19-039	low grade		☐	☐	☐
294.62	295.38	0.76	GRD	0.61	80	W603400	☐	19-039	low grade		☐	☐	☐
295.38	296.38	1.00	GRD	0.98	98	W603401	☐	19-039	low grade		☐	☐	☐
296.38	297.38	1.00	GRD	1.00	100	W603402	☐	19-040	low grade		☐	☐	☐
297.38	298.37	0.99	GRD	0.98	99	W603403	☐	19-040	low grade		☐	☐	☐
298.37	299.04	0.67	GRD	0.64	96	W603404	☐	19-040	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
299.04	300.04	1.00	GRD	0.98	98	W603406	☐	19-040	low grade		☐	☐	☐
300.04	300.68	0.64	GRD	0.63	98	W603407	☐	19-040	low grade		☐	☐	☐
300.68	301.28	0.60	GRD	0.44	73	W603408	☐	19-040	low grade		☐	☐	☐
301.28	302.28	1.00	GRD	1.00	100	W603409	☐	19-040	low grade		☐	☐	☐
302.28	302.68	0.40	GRD	0.40	100	W603410	☐	19-040	low grade		☐	☐	☐
302.68	303.68	1.00	GRD	0.99	99	W603411	☐	19-040	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	11.72			☐	☐	☐	☐	
19-039	W603369	0.00	0.00	0.29	560	☐	☐	☐	☑ ME-6	std ME6
19-039	W603380	0.00	0.00	1.78	290	☐	☐	☐	☑ KL-STD6	std-kl6
19-039	W603399	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-006	W599160	0.00	0.00	0.01	20	☐	☐	☑	☐	blank
19-006	W599239	0.00	0.00	13.35	610	☐	☐	☐	☑ ME-1402	ME-1402
19-040	W603405	0.00	0.00	1.81	220	☐	☐	☐	☑ KL-STD6	std kl6
19-031	W603289	0.00	0.00	0.30	640	☐	☐	☐	☑ ME-6	std ME 6
19-031	W603303	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-031	W603319	0.00	0.00	1.76	1290	☐	☐	☐	☑ KL-STD6	std kl6
19-032	W603327	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-032	W603339	0.00	0.00	1.73	220	☐	☐	☐	☑ KL-STD6	std kl6
19-032	W603351	0.00	0.00	0.26	570	☐	☐	☐	☑ ME-6	std ME 6
19-029	W603260	0.00	0.00	0.28	450	☐	☐	☐	☑ ME-6	STD CDN ME6

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-029	W603272	0.00	0.00	1.77	1410	☐	☐	☐	☑ KL-STD6	std kl6
19-029	W603281	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-019	W603216	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-019	W603227	0.00	0.00	0.28	480	☐	☐	☐	☑ ME-6	std ME 6]
19-019	W603241	0.00	0.00	1.66	230	☐	☐	☐	☑ KL-STD6	std kl6
19-016	W603174	0.00	0.00	0.26	550	☐	☐	☐	☑ ME-6	STD CDN ME6
19-016	W603189	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-016	W603197	0.00	0.00	1.67	1140	☐	☐	☐	☑ KL-STD6	std kl 6
19-016	W603167	11.72	12.72	0.02	1160	☐	☐	☐	☐	
19-016	W603168	11.72	12.72	0.02	1160	☐	☑	☐	☐	coarse dup
19-016	W603169	12.72	13.72	0.04	760	☐	☐	☐	☐	
19-016	W603170	13.72	14.44	0.28	1220	☐	☐	☐	☐	
19-016	W603171	14.44	15.24	0.01	2200	☐	☐	☐	☐	
19-016	W603172	15.24	16.74	0.00	2330	☐	☐	☐	☐	
		16.74	20.87			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-016	W603173	20.87	21.87	0.00	1150	☐	☐	☐	☐	
19-016	W603175	21.87	22.86	0.00	1030	☐	☐	☐	☐	
19-016	W603176	22.86	23.88	0.00	1530	☐	☐	☐	☐	
19-016	W603177	23.88	24.31	0.00	990	☐	☐	☐	☐	
19-016	W603178	24.31	25.64	0.00	1370	☐	☐	☐	☐	
19-016	W603179	25.64	26.64	0.00	2150	☐	☐	☐	☐	
19-016	W603180	26.64	27.14	0.04	1140	☐	☐	☐	☐	
19-016	W603181	27.14	28.14	0.01	1110	☐	☐	☐	☐	
19-016	W603182	28.14	29.14	0.00	1590	☐	☐	☐	☐	
19-016	W603183	28.14	29.14	0.00	1700	☑	☐	☐	☐	1/4 dup
		29.14	44.10			☐	☐	☐	☐	
19-016	W603184	44.10	46.05	0.01	4560	☐	☐	☐	☐	
19-016	W603185	46.05	46.90	0.01	2980	☐	☐	☐	☐	
19-016	W603186	46.90	47.69	0.04	1000	☐	☐	☐	☐	
19-016	W603187	47.69	48.77	0.02	1330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-016	W603188	48.77	50.29	0.09	2110	☐	☐	☐	☐	
19-006	W599155	50.29	50.92	6.17	350	☐	☐	☐	☐	
19-016	W603190	50.92	51.92	0.02	2320	☐	☐	☐	☐	
19-016	W603191	51.92	52.92	0.00	2500	☐	☐	☐	☐	
19-016	W603192	52.92	53.70	0.00	1590	☐	☐	☐	☐	
19-016	W603193	53.70	54.45	0.01	1570	☐	☐	☐	☐	
19-016	W603194	54.45	55.44	0.12	2040	☐	☐	☐	☐	
19-016	W603195	55.44	55.83	0.03	1560	☐	☐	☐	☐	
19-016	W603196	55.83	56.77	0.01	2250	☐	☐	☐	☐	
19-016	W603198	56.77	57.73	0.00	4210	☐	☐	☐	☐	
19-016	W603199	57.73	59.03	0.00	2220	☐	☐	☐	☐	
19-016	W603200	59.03	59.85	0.00	2760	☐	☐	☐	☐	
19-016	W603201	59.85	60.58	0.02	2710	☐	☐	☐	☐	
19-019	W603202	60.58	61.60	0.05	3270	☐	☐	☐	☐	
19-019	W603203	61.60	62.60	0.00	500	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-019	W603204	62.60	64.01	0.00	370	☐	☐	☐	☐	
19-019	W603205	64.01	64.60	1.91	2010	☐	☐	☐	☐	
19-019	W603206	64.60	65.63	0.01	2460	☐	☐	☐	☐	
19-019	W603207	65.63	66.40	0.01	2550	☐	☐	☐	☐	
19-019	W603208	66.40	67.20	0.00	2020	☐	☐	☐	☐	
19-019	W603209	67.20	68.20	0.00	1840	☐	☐	☐	☐	
19-019	W603210	67.20	68.20	0.00	2060	☑	☐	☐	☐	1/4 dup
		68.20	76.80			☐	☐	☐	☐	
19-019	W603211	76.80	77.80	0.00	2090	☐	☐	☐	☐	
19-019	W603212	77.80	78.53	0.11	2180	☐	☐	☐	☐	
19-019	W603213	78.53	79.19	0.03	1070	☐	☐	☐	☐	
19-019	W603214	79.19	79.84	0.07	2470	☐	☐	☐	☐	
19-019	W603215	79.84	80.30	1.49	130	☐	☐	☐	☐	
19-019	W603217	80.30	81.30	0.00	2410	☐	☐	☐	☐	
19-019	W603218	81.30	82.30	0.00	2850	☐	☐	☐	☐	
		82.30	93.62			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-019	W603219	93.62	94.62	0.00	2560	☐	☐	☐	☐	
19-019	W603220	94.62	95.62	0.00	2380	☐	☐	☐	☐	
19-019	W603221	95.62	96.17	0.00	1640	☐	☐	☐	☐	
19-019	W603222	96.17	96.56	0.01	990	☐	☐	☐	☐	
19-019	W603223	96.56	97.54	0.00	2280	☐	☐	☐	☐	
19-019	W603224	96.56	97.54	0.00	2230	☐	☑	☐	☐	coarse dup
19-019	W603225	97.54	98.54	0.00	2490	☐	☐	☐	☐	
		98.54	######			☐	☐	☐	☐	
19-019	W603226	111.97	112.97	0.00	1980	☐	☐	☐	☐	
19-019	W603228	112.97	113.97	0.00	2030	☐	☐	☐	☐	
19-019	W603229	113.97	114.68	0.03	1400	☐	☐	☐	☐	
19-019	W603230	114.68	115.22	0.00	2240	☐	☐	☐	☐	
19-019	W603231	115.22	116.42	0.00	2670	☐	☐	☐	☐	
19-019	W603232	116.42	117.42	0.00	2340	☐	☐	☐	☐	
19-019	W603233	117.42	118.41	0.00	5000	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-019	W603234	118.41	118.87	0.02	1070	☐	☐	☐	☐	
19-019	W603235	118.87	119.70	0.00	1920	☐	☐	☐	☐	
19-019	W603236	119.70	120.63	0.00	2500	☐	☐	☐	☐	
19-019	W603237	120.63	121.46	0.00	2420	☐	☐	☐	☐	
19-019	W603238	121.46	122.39	0.00	1920	☐	☐	☐	☐	
19-019	W603239	122.39	123.18	0.00	1260	☐	☐	☐	☐	
19-019	W603240	123.18	124.13	0.00	1430	☐	☐	☐	☐	
19-029	W603242	124.13	124.84	0.00	1500	☐	☐	☐	☐	
19-029	W603243	124.84	125.93	0.00	1250	☐	☐	☐	☐	
19-029	W603244	125.93	127.00	0.00	1430	☐	☐	☐	☐	
19-029	W603245	127.00	127.81	0.01	1140	☐	☐	☐	☐	
19-029	W603246	127.81	128.41	0.00	1140	☐	☐	☐	☐	
19-029	W603247	128.41	128.84	0.00	830	☐	☐	☐	☐	
19-029	W603248	128.84	129.40	0.00	1280	☐	☐	☐	☐	
19-029	W603249	129.40	129.91	0.00	2220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-029	W603250	129.91	131.06	0.00	1880	☐	☐	☐	☐	
19-029	W603251	131.06	131.64	0.04	950	☐	☐	☐	☐	
19-029	W603252	131.64	132.19	0.01	910	☐	☐	☐	☐	
19-029	W603253	132.19	133.13	0.01	1170	☐	☐	☐	☐	
19-029	W603254	132.19	133.13	0.00	1170	☐	☑	☐	☐	coarse dup
19-029	W603255	133.13	133.61	0.00	1210	☐	☐	☐	☐	
19-029	W603256	133.61	134.11	0.00	2260	☐	☐	☐	☐	
19-029	W603257	134.11	135.07	0.00	1180	☐	☐	☐	☐	
19-029	W603258	135.07	136.13	0.00	1910	☐	☐	☐	☐	
19-029	W603259	136.13	137.16	0.00	2530	☐	☐	☐	☐	
19-029	W603261	137.16	138.12	0.00	2570	☐	☐	☐	☐	
19-029	W603262	138.12	139.16	0.00	2660	☐	☐	☐	☐	
19-029	W603263	139.16	139.84	0.03	3250	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-029	W603264	143.30	143.85	0.00	2060	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-029	W603265	147.97	148.97	0.00	2350	☐	☐	☐	☐	
19-029	W603266	147.97	148.97	0.00	2360	☑	☐	☐	☐	1/4 dup
19-029	W603267	148.97	149.97	0.00	2270	☐	☐	☐	☐	
19-029	W603268	149.97	150.43	0.05	1700	☐	☐	☐	☐	
19-029	W603269	150.43	151.43	0.00	1970	☐	☐	☐	☐	
19-029	W603270	151.43	152.40	0.00	2070	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-029	W603271	165.40	166.40	0.00	2400	☐	☐	☐	☐	
19-029	W603273	166.40	167.40	0.00	2620	☐	☐	☐	☐	
19-029	W603274	167.40	168.46	0.00	2770	☐	☐	☐	☐	
19-029	W603275	168.46	168.77	0.00	3900	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-029	W603276	173.42	174.42	0.00	2600	☐	☐	☐	☐	
19-029	W603277	174.42	175.43	0.00	2470	☐	☐	☐	☐	
19-029	W603278	175.43	176.43	0.00	2210	☐	☐	☐	☐	
19-029	W603279	176.43	177.06	0.02	1720	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-029	W603280	177.06	177.80	0.47	280	☐	☐	☐	☐	
19-006	W599159	177.80	178.31	1.50	340	☐	☐	☐	☐	
19-031	W603282	178.31	178.79	0.21	370	☐	☐	☐	☐	
19-031	W603283	178.79	179.98	0.01	4970	☐	☐	☐	☐	
19-031	W603284	179.98	180.70	0.01	2180	☐	☐	☐	☐	
19-031	W603285	180.70	181.63	0.00	2290	☐	☐	☐	☐	
19-031	W603286	181.63	182.22	0.00	1550	☐	☐	☐	☐	
19-031	W603287	182.22	182.74	0.00	3820	☐	☐	☐	☐	
19-031	W603288	182.74	183.74	0.00	2010	☐	☐	☐	☐	
19-031	W603290	183.74	185.00	0.00	1870	☐	☐	☐	☐	
19-031	W603291	185.00	186.17	0.00	2320	☐	☐	☐	☐	
19-031	W603292	186.17	186.90	0.01	2570	☐	☐	☐	☐	
19-031	W603293	186.90	188.25	0.00	1830	☐	☐	☐	☐	
19-031	W603294	188.25	189.52	0.00	2680	☐	☐	☐	☐	
19-031	W603295	188.25	189.52	0.02	2700	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-031	W603296	189.52	190.45	0.00	3300	☐	☐	☐	☐	
19-031	W603297	190.45	190.95	0.02	1960	☐	☐	☐	☐	
19-031	W603298	190.95	192.34	0.00	1540	☐	☐	☐	☐	
19-031	W603299	192.34	193.55	0.22	1970	☐	☐	☐	☐	
19-031	W603300	193.55	193.97	2.71	690	☐	☐	☐	☐	
19-031	W603301	193.97	194.57	2.89	460	☐	☐	☐	☐	
19-031	W603302	194.57	195.40	0.48	620	☐	☐	☐	☐	
19-031	W603304	195.40	196.60	0.19	1420	☐	☐	☐	☐	
19-031	W603305	196.60	197.49	0.01	890	☐	☐	☐	☐	
19-031	W603306	197.49	198.44	0.00	2620	☐	☐	☐	☐	
19-031	W603307	197.49	198.44	0.01	2630	☐	☑	☐	☐	coarse dup
19-031	W603308	198.44	199.48	0.01	1450	☐	☐	☐	☐	
19-031	W603309	199.48	200.36	0.01	820	☐	☐	☐	☐	
19-031	W603310	200.36	201.36	0.01	2490	☐	☐	☐	☐	
19-031	W603311	201.36	202.36	0.00	1510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-031	W603312	202.36	203.36	0.00	2650	☐	☐	☐	☐	
19-031	W603313	203.36	204.31	0.00	1730	☐	☐	☐	☐	
19-031	W603314	204.31	205.31	0.02	2830	☐	☐	☐	☐	
19-031	W603315	205.31	205.74	0.00	2710	☐	☐	☐	☐	
19-031	W603316	205.74	206.40	0.04	2660	☐	☐	☐	☐	
19-031	W603317	206.40	206.91	0.00	2660	☐	☐	☐	☐	
19-031	W603318	206.91	208.15	0.01	970	☐	☐	☐	☐	
19-031	W603320	208.15	209.15	0.01	2170	☐	☐	☐	☐	
19-031	W603321	209.15	209.44	0.26	660	☐	☐	☐	☐	
19-032	W603322	209.44	210.44	0.01	2060	☐	☐	☐	☐	
19-032	W603323	210.44	211.35	0.00	2540	☐	☐	☐	☐	
19-032	W603324	211.35	212.15	0.00	2600	☐	☐	☐	☐	
19-032	W603325	212.15	213.15	0.01	1470	☐	☐	☐	☐	
19-032	W603326	213.15	213.51	0.10	330	☐	☐	☐	☐	
19-032	W603328	213.51	214.51	0.01	1860	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-032	W603329	214.51	215.51	0.00	3390	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-032	W603330	222.03	223.03	0.00	2190	☐	☐	☐	☐	
19-032	W603331	223.03	224.03	0.09	1940	☐	☐	☐	☐	
19-032	W603332	223.03	224.03	0.06	1860	☑	☐	☐	☐	1/4 dup
19-032	W603333	224.03	224.37	0.52	860	☐	☐	☐	☐	
19-032	W603334	224.37	224.80	0.25	1280	☐	☐	☐	☐	
19-032	W603335	224.80	225.19	0.30	450	☐	☐	☐	☐	
19-032	W603336	225.19	225.73	0.22	630	☐	☐	☐	☐	
19-032	W603337	225.73	226.00	0.16	930	☐	☐	☐	☐	
19-032	W603338	226.00	227.00	0.00	2120	☐	☐	☐	☐	
19-032	W603340	227.00	228.00	0.00	2110	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-032	W603341	231.84	232.84	0.00	2090	☐	☐	☐	☐	
19-032	W603342	232.84	233.45	0.01	1540	☐	☐	☐	☐	
19-006	W599164	233.45	233.80	2.41	180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-032	W603343	233.80	234.33	0.02	320	☐	☐	☐	☐	
19-032	W603344	234.33	234.69	1.02	260	☐	☐	☐	☐	
19-032	W603345	234.33	234.69	0.92	240	☐	☑	☐	☐	coarse dup
19-032	W603346	234.69	235.31	0.14	300	☐	☐	☐	☐	
19-006	W599166	235.31	235.61	2.07	310	☐	☐	☐	☐	
19-032	W603347	235.61	236.01	0.02	1820	☐	☐	☐	☐	
19-032	W603348	236.01	237.01	0.01	2300	☐	☐	☐	☐	
19-032	W603349	237.01	237.77	0.00	2090	☐	☐	☐	☐	
19-032	W603350	237.77	238.35	0.05	1450	☐	☐	☐	☐	
19-032	W603352	238.35	239.30	0.43	620	☐	☐	☐	☐	
19-032	W603353	239.30	240.30	0.00	2140	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-032	W603354	248.96	249.96	0.00	2030	☐	☐	☐	☐	
19-032	W603355	249.96	250.26	0.00	2620	☐	☐	☐	☐	
19-032	W603356	250.26	251.14	0.00	1340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-032	W603357	251.14	252.22	0.00	2710	☐	☐	☐	☐	
19-032	W603358	252.22	252.81	0.01	2440	☐	☐	☐	☐	
19-032	W603359	252.81	253.81	0.01	2760	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-032	W603360	257.50	258.50	0.01	4740	☐	☐	☐	☐	
19-032	W603361	258.50	259.50	0.02	2110	☐	☐	☐	☐	
19-039	W603362	259.50	259.84	0.87	1900	☐	☐	☐	☐	
19-039	W603363	259.84	260.72	0.01	1460	☐	☐	☐	☐	
19-039	W603364	260.72	261.40	0.00	2780	☐	☐	☐	☐	
19-039	W603365	261.40	262.40	0.00	2280	☐	☐	☐	☐	
19-039	W603366	262.40	262.71	0.07	1400	☐	☐	☐	☐	
19-039	W603367	262.71	263.71	0.00	3070	☐	☐	☐	☐	
19-039	W603368	263.71	264.34	0.00	3310	☐	☐	☐	☐	
19-039	W603370	264.34	265.34	0.00	2230	☐	☐	☐	☐	
19-039	W603371	265.34	265.74	0.14	3640	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-039	W603372	265.74	266.74	0.00	1670	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-039	W603373	274.60	275.60	0.00	1720	☐	☐	☐	☐	
19-039	W603374	275.60	276.30	0.00	1030	☐	☐	☐	☐	
19-039	W603375	275.60	276.30	0.00	1080	☐	☑	☐	☐	coarse dup
19-039	W603376	276.30	277.30	0.01	1330	☐	☐	☐	☐	
19-039	W603377	277.30	278.11	0.01	2220	☐	☐	☐	☐	
19-039	W603378	278.11	279.11	0.03	1460	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-039	W603379	283.20	284.20	0.00	1330	☐	☐	☐	☐	
19-039	W603381	284.20	284.57	0.00	2190	☐	☐	☐	☐	
19-039	W603382	284.57	285.00	0.00	1090	☐	☐	☐	☐	
19-039	W603383	285.00	285.83	0.67	1010	☐	☐	☐	☐	
19-039	W603384	285.83	286.20	0.47	180	☐	☐	☐	☐	
19-039	W603385	286.20	287.20	0.16	1330	☐	☐	☐	☐	
19-039	W603386	287.20	288.20	0.01	1540	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-039	W603387	287.20	288.20	0.01	1460	☑	☐	☐	☐	1/4 dup
19-039	W603388	288.20	289.00	2.45	460	☐	☐	☐	☐	
19-039	W603389	289.00	289.56	0.01	1640	☐	☐	☐	☐	
19-039	W603390	289.56	290.00	0.00	2300	☐	☐	☐	☐	
19-039	W603391	290.00	291.00	0.00	3560	☐	☐	☐	☐	
19-039	W603392	291.00	291.48	0.00	3430	☐	☐	☐	☐	
19-039	W603393	291.48	292.20	0.00	2240	☐	☐	☐	☐	
19-039	W603394	292.20	292.60	0.01	940	☐	☐	☐	☐	
19-039	W603395	292.60	293.08	0.11	1130	☐	☐	☐	☐	
19-039	W603396	293.08	293.69	0.01	1360	☐	☐	☐	☐	
19-039	W603397	293.69	294.13	0.02	1000	☐	☐	☐	☐	
19-039	W603398	294.13	294.62	0.02	560	☐	☐	☐	☐	
19-039	W603400	294.62	295.38	0.01	4260	☐	☐	☐	☐	
19-039	W603401	295.38	296.38	0.01	7560	☐	☐	☐	☐	
19-040	W603402	296.38	297.38	0.00	2790	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-040	W603403	297.38	298.37	0.00	2010	☐	☐	☐	☐	
19-040	W603404	298.37	299.04	0.00	2380	☐	☐	☐	☐	
19-040	W603406	299.04	300.04	0.00	2480	☐	☐	☐	☐	
19-040	W603407	300.04	300.68	0.00	6680	☐	☐	☐	☐	
19-040	W603408	300.68	301.28	2.75	290	☐	☐	☐	☐	
19-040	W603409	301.28	302.28	0.01	2920	☐	☐	☐	☐	
19-040	W603410	302.28	302.68	0.03	2020	☐	☐	☐	☐	
19-040	W603411	302.68	303.68	0.00	3150	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
12.80	12.90	VN	37	40	NUL	2	pyrite bearing 2 -mm quartz veinlets in grd			
13.90	15.24	GO	34	0	NUL	1	gouge, brecciated, rubbly, oxidized, clay rich grd.			
20.05	20.15	BX	34	50	NUL	1	gouge brecciated, oxidized grd interval			
23.88	24.31	VN	37	45	NUL	5	1-2 mm, pyrite bearing stringer quartz veins in oxidized grd			
24.38	26.64	FT	42	0	NUL	0	rubbly, oxidized, fault related (?); rubbly but no brecciation or shear) granodiorite interval			
27.30	27.40	VN	37	30	NUL	1	2 mm quartz vein in oxidized grd			
34.90	36.58	FT	42	0	NUL	0	rubbly (faulted (?)) granodiorite interval			
37.30	37.60	VN	37	50	NUL	3	1-2 mm carbonate infill veinlets			
50.29	50.92	VN	37	na	NUL	1	rubbly, gouged, oxidized mineralized vein zone. Disseminated pyrite and trace galena are observed in competent rock sections			
53.22	53.34	BX	34	25	NUL	1	brecciated gouge (shear brecciated) in grd unit			
55.44	55.60	VN	37	15	NUL	1	3 cm, quartz vein containing trace, disseminated pyrite and arseno pyrite. Smaller 1-2 mm, milky quartz veinlets crosscut through mineralized vein			
								As	3	DI
								Py	3	DI
56.25	56.35	VN	37	45	NUL	2	4 mm quartz veins in weakly argillic grd			
57.45	54.51	VN	37	40	NUL	1	4 mm quartz vein in oxidized section of grd			
61.50	61.60	GO	34	0	NUL	1	gouged, breccuated sean at contact with quartz feldspar porphyry dyke			
64.01	64.06	VN	37	60	NUL	1	3 cm pyrite bearing vein in oxidizied, weakly propylitic granodiorite. Vein located at gouge-brecciated grd contact			
73.54	73.58	VN	37	40	NUL	1	quartz vein brecciating moderate argillic granodiorite			
80.00	80.20	VN	37	40	NUL	4	mineralized vein zone containint semi massive pyrite, trace arsone pyrite, smoky quartz, ankerite and rhodochrosite veinin parallel to mineralized vein zone			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
91.54	92.80	FR	5	0	NUL	na	fractured interval of grd.			
96.29	96.35	VN	37	40	NUL	1	quartz/carbonate vein containting disseminated pyrite in brecciated, oxidized grd unit			
101.67	102.10	FT	42	na	NUL	na	rubbly, oxidized faulted zone of grd			
114.05	114.68	VN	37	10	NUL	1	5 mm, pyrite bearing quartz vein in strongly propylitic granodiorite			
								Pg	5	DI
128.10	128.20	SH	81	25	NUL	1	shear brecciation in altered grd			
133.60	134.00	VN	37	45	NUL	6	2-4 mm, pyrite bearing stringer vein zone in altered grd			
139.36	139.40	VN	37	50	NUL	1	pyrite bearing, vuggy quartz vein in altered grd			
143.45	143.60	DY	37	40	NUL	1	3 cm, pink, fine grained aplite dyke intrusion in altered grd. Blebby tourmaline observed near dyke inclusion			
143.75	143.85	VN	37	30	NUL	1	pyrite bearing quartz vein brecciated host grd and partially infilled by calcite			
150.12	150.30	VN	37	40	NUL	1	pyrite bearing vein zone. Pyrite is hosted in dark grey smoky quartz surrounded and brecciated by milky quartz/ ankerite and rhodochrosite veins			
								Py	5	DI
								Ak	5	BL
								Rh	3	BL
155.45	155.60	VN	37	40	NUL	2	stringer veins in altered grd containing diseminated pyrite			
159.50	159.55	VN	37	20	NUL	1	1 cm calcite vein in potassic altered grd			
167.40	167.50	VN	37	30	NUL	1	pyrite bearing, quartz vein in altered grd			
193.85	193.97	VN	37	35	NUL	1	mineralized vein in grd containting galena, pyrite arsenopyrite and sphalerite			
209.20	209.24	VN	37	45	NUL	1	pyrite bearing quartz vein in grd			
233.45	233.70	VN	37	30	NUL	2	polymetallic quartz veins in rubbly, fractured granodiorite interval. Semi massiv pyrite, galena, trace arseno pyrite and sphalerite occur within vein with trace ankerite inclusions within vein. Galena is spatially associated with sphalerite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								As	3	DI
								Py	8	BL
								Gn	6	BL
								Py	6	DI
								Ak	2	BL
233.70	233.86	VN	37	35	NUL	2	pyrite rich quartz vein in granodiorite. Vein interval contains more pyrite and less galena than previous vein interval.			
234.30	234.40	VN	37	45	NUL	2	polymetallic veins in granodiorite. Pyrite, galena, sphalerite and trace arseno pyrite are observed.			
234.69	235.15	BX	34	0	NUL	1	gouge brecciated, pyrite bearing altered granodiorite. Vein footwall(?)			
235.31	235.55	VN	37	40	NUL	2	polymetallic quartz vein in altered granodiorite. Semi massive pyrite, sphalerite, galena and trace arseno pyrite occur in vein zone. Ankerite infill within sphalerite-galena vein is observed. Small fractures locally offset vein locally.			
249.96	250.00	VN	37	40	NUL	1	milky quartz vein in altered grd. Trace pyrite observed in vein			
251.14	251.18	VN	37	40	NUL	1	milky quartz vein in gouged, brecciated granodiorite interval			
252.30	252.81	SH	81	40	NUL	1	pyrite bearing quartz veins in sheared, brecciated granodiorite interval.			
259.58	259.73	VN	37	40	NUL	1	brecciated, pyrite bearing vein in altered grd. Ankerite appears to brecciated host grd and to partiall infill and fracture host quartz vein. Red hematite bands are also observed within vein interval. Pyrite is blebby an appears interstitially surround quartz vein			
262.60	262.73	VN	37	45	NUL	2	1-4 cm pyrite bearing veins in altered grd. Largest vein is brecciated and ankerite appears to partially infill quartz vein.			
265.34	265.74	VN	37	45	NUL	2	1-2 cm, quartz vein containting trace blebby pyrite. Vein @ 265.74 appears to brecciate host grd			
285.70	286.30	SH	81	0	NUL	1	gouge, brecciated and sheared interval of altered grd. Pyrite is hosted in thin, dark grey, fine grained veinlets.			
291.48	292.22	FT	42	0	NUL	1	rubbly, gouged fault in altered grd			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
300.70	300.76	VN	37	55	NUL	1	vein containing semi massive arseno pyrite and trace pyrite. Carbonitic infill is locally observed in vein interval			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382929	6889436	1457.848	134.11

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-444

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 1m, Out

Drilling Dates: Sep 11 - Sep 12, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
14	34.46	-48.7	Reflex
134	35.56	-48.3	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	3.05	1.53	GRD
3.05	4.5	1.45	GRD
4.5	6.7	2.2	GRD
6.7	7.05	0.35	GRD
7.05	9.35	2.3	GRD
9.35	10.38	1.03	GRD
10.38	12.59	2.21	GRD
12.59	13.21	0.62	GRD
13.21	15.24	2.03	GRD
15.24	16.76	1.52	GRD
16.76	18.07	1.31	GRD
18.07	18.37	0.3	GRD
18.37	19.81	1.44	GRD
19.81	20.41	0.6	GRD
20.41	21.3	0.89	GRD

SAMPLES	
Numbers:	W593300 to W593323, W593325 to W593444, W599171 to W599179, W599181
Total:	154
Batch:	006, 037, 038, 041, 043, 044
Certificates:	WH19242457, WH19242458, WH19242464, WH19242466, WH19242472, WH19250393

COMMENTS

21.3	23.2	1.9	GRD
23.2	24.53	1.33	GRD
24.53	24.95	0.42	GRD
24.95	26	1.05	GRD
26	27.5	1.5	GRD
27.5	32	4.5	GRD
32	32.5	0.5	GRD
32.5	33.5	1	GRD
33.5	35.35	1.85	GRD
35.35	35.68	0.33	GRD
35.68	36.86	1.18	GRD
36.86	37.26	0.4	GRD
37.26	38.05	0.79	GRD
38.05	38.55	0.5	GRD
38.55	41.02	2.47	GRD
41.02	41.06	0.04	VEN
41.06	43.4	2.34	GRD
43.4	45	1.6	GRD
45	45.7	0.7	GRD
45.7	47	1.3	GRD
47	52.6	5.6	GRD
52.6	52.74	0.14	GRD
52.74	52.83	0.09	VEN
52.83	55.4	2.57	GRD
55.4	56.39	0.99	GRD
56.39	57.4	1.01	GRD
57.4	58.5	1.1	GRD
58.5	68	9.5	GRD
68	68.9	0.9	GRD
68.9	71	2.1	GRD
71	71.59	0.59	GRD
71.59	71.68	0.09	VEN

71.68	72.3	0.62	GRD
72.3	73.16	0.86	GRD
73.16	73.28	0.12	APL
73.28	73.8	0.52	GRD
73.8	82.3	8.5	GRD
82.3	84	1.7	GRD
84	84.76	0.76	GRD
84.76	84.79	0.03	VEN
84.79	89.06	4.27	GRD
89.06	89.11	0.05	VEN
89.11	89.57	0.46	GRD
89.57	91.2	1.63	GRD
91.2	92.46	1.26	GRD
92.46	95.66	3.2	GRD
95.66	96.66	1	GRD
96.66	96.76	0.1	VEN
96.76	97.23	0.47	GRD
97.23	98.12	0.89	GRD
98.12	98.23	0.11	VEN
98.23	100.17	1.94	GRD
100.17	100.2	0.03	VEN
100.2	105.35	5.15	GRD
105.35	109.85	4.5	GRD
109.85	111.24	1.39	GRD
111.24	111.33	0.09	VEN
111.33	114.5	3.17	GRD
114.5	117.2	2.7	GRD
117.2	117.87	0.67	GRD
117.87	118.43	0.56	QFP
118.43	119.06	0.63	QFP
119.06	119.16	0.1	VEN
119.16	122.19	3.03	QFP

122.19	122.57	0.38	QFP
122.57	122.71	0.14	GRD
122.71	122.76	0.05	VEN
122.76	126.15	3.39	QFP
126.15	127.3	1.15	MAF
127.3	129.4	2.1	GRD
129.4	129.42	0.02	VEN
129.42	131.9	2.48	GRD
131.9	131.94	0.04	VEN
131.94	133.57	1.63	GRD
133.57	133.65	0.08	VEN
133.65	134.11	0.46	GRD

Box Log

KL -19-444

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
20	79.59	84.03
21	84.03	88.5
22	88.5	92.82
23	92.82	97
24	97	101.44
25	101.44	105.83
26	105.83	110.1
27	110.1	114.6
28	114.6	119.12
29	119.12	123.44
30	123.44	127.47
31	127.47	131.78
32	131.78	134.11

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-444									
	72.15	12	NTW	GRD	729.8	492.6	2.15	3.1	
	118.19	10	NTW	QFP	555.8	392.5	1.97	3.4	
	122.97	16	NTW	QFP	1022.9	721.7	2.26	3.4	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	3.05	1.53	GRD	MG	mixture of unaltered granodiorite and overburden							
						MD	GY					
3.05	4.50	1.45	GRD	MG	medium grained medium grey unaltered granodiorite							
						MD	GY					
4.50	4.76	0.26	GRD	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
4.76	4.78	0.02	VEN	MG	fine-grained pyrite bearing quartz vein							
											Py	1
4.78	5.37	0.59	GRD	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval							
5.37	5.52	0.15	GRD	MG	medium grained oxidized fualted granodiorite with two sharp fractured contats trending 50 TCA							
5.52	6.70	1.18	GRD	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval							
6.70	7.05	0.35	GRD	MG	medium grained oxidized weakly argililc altered granodiorite with two sharp contacts trending 30 TCA							
						LT	BN		OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		BLE	1I		
7.05	9.35	2.30	GRD	MG	medium grained moderately argillic altered granodiorite, light brown to whitish greenish grey, weakly oxidized throughout entier interval							
						MD	GY		BLE	1I		
						MD	BN					
						LT	GN		OXI	2I		
						LT	WH		ARG	3I		
9.35	10.38	1.03	GRD	MG	highly fractured, clay altered granodiorite with low angle fractures trending ~15-30 TCA							
						MD	BN		CLY	4I		
10.38	12.59	2.21	GRD	MG	medium grained, light greenish grey granodiorite with weakl argillic alteration with a weak propylitic overprint. Oxidation confined to fractures, and entire interval is weakly bleached and oxidized.							
						MD	GY		PRO	2I		
						MD	GN		OXI	1I		
						LT	BN		BLE	1I		
									ARG	2I		
12.59	13.21	0.62	GRD	MG	medium grained, clay altered interval of grd with two low angle quartz carbonate veinlets that are pyrite bearing. Veins are same orientation as faulted surfaces measured throughout hole.							
						MD	GN		ARG	2I	Py	0.5
						MD	GY		PRO	2I		
									SIL	1I		
13.21	15.24	2.03	GRD	MG	medium grained, medium grey to brown, oxidized on fracture surfaces, weak to moderately argillic altered granodiorite.							
						MD	GY		OXI	2I		
						MD	BN		ARG	2I		
15.24	16.76	1.52	GRD	MG	unaltered medium grey granodiorite							
						MD	GY					
16.76	18.07	1.31	GRD	MG	medium grained medium grey to brownish grey weak to moderately argillic altered granodiorite with weak oxidation on fracture surfaces.							
						MD	BN					
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.07	18.37	0.30	GRD	MG	intensely clay altered faulted granodiorite with weak disseminated pyrite within groundmass of clay altered interval.							
						MD	GY					
						LT	WH		CLY	4I	Py	0.5
18.37	19.81	1.44	GRD	MG	medium grained, fractured, rubbly weakly argillic altered granodiorite with a weak propylitic overprint							
						MD	BN		ARG	2I		
						MD	GY		PRO	2I		
19.81	20.41	0.60	GRD	MG	medium grained, weak to trace propylitic altered granodiorite							
						MD	GY		PRO	1I		
						LT	WH					
20.41	21.30	0.89	GRD	MG	medium grained, medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. Three small pyrite bearing quartz veinlets in interval							
						MD	GN		OXI	1I		
						MD	BN		PRO	2I		
						MD	GY		ARG	3I		
21.30	23.20	1.90	GRD	MG	unaltered granodiorite. Weak oxidation on fracture surfaces							
						MD	GY		OXI	1I		
						LT	BN					
23.20	24.53	1.33	GRD	MG	medium grained, fractured and clay altered granodiorite, medium grey to brown, with rubbly intervals within a larger weakly argillic altered interval of granodiorite.							
						MD	GY		CLY	3I		
									OXI	2I		
24.53	24.95	0.42	GRD	MG	medium grained weak to moderately propylitic altered granodiorite with trace disseminated pyrite in interval and in two small hairline pyrite bearing quartz veinlets							
24.95	26.00	1.05	GRD	MG	medium grained light whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic oveprint. Oxidation haloes around fractures.							
						MD	GY		ARG	2I		
						LT	BN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
26.00	27.50	1.50	GRD	MG	medium grained medium brown to grey, rubbly oxidized granodiorite with moderate clay alteration. Likely faulted.							
						MD	BN		CLY	3I		
						LT	GN					
						LT	GY					
27.50	32.00	4.50	GRD	MG	medium grained medium grey, patchy greenish grey trace argillic and trace propylitic altered granodiorite with small hairline quartz carbonate stringer veinlets barren of sulfides							
						MD	GY		ARG	1I		
						LT	GN		PRO	1I		
32.00	32.50	0.50	GRD	MG	medium grained moderately propylitic altered granodiorite with weak silicification and disseminated pyrite throughout entire interval							
						MD	GY		SIL	1I	Py	0.5
						LT	GY		PRO	3I		
32.50	33.50	1.00	GRD	MG	medium grained moderately propylitic altered granodiorite with two weak hairline pyrite bearing quartz carbonate stringer veinlets							
						MD	GN		PRO	3I	Py	0.1
						MD	GY					
33.50	35.35	1.85	GRD	MG	medium grained weakly propylitic altered granodiorite with very trace pyrite bearing quartz carbonate veinlets (two in interval) with weak disseminated pyrite.							
						MD	GY		PRO	1I		
									ARG	1I		
35.35	35.68	0.33	GRD	MG	medium grained stonrlgy propylitic and weak clay alterd granodiorite with a small 1 cm wide pyrite bearing quartz veinlet							
						MD	GY		CLY	1I	Py	0.5
						LT	WH		PRO	4I		
35.68	36.86	1.18	GRD	MG	medium grained moderately argillic altered granodiorite with weak propylitic overprint							
						MD	GY		ARG	2I		
						LT	GN		PRO	1I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.86	37.26	0.40	GRD	MG	medium to fine grained strongly silicified and propylitic altered granodiorite with disseminated blebby banded pyrite, and fine-grained black mineral 1mm wide banding on margin of pyrite (unknown mineral).							
						MD	GY				Py	1
						LT	WH		SIL	3I	Un	0.1
						LT	BN				Py	1
37.26	38.05	0.79	GRD	MG	medium grained medium brown to brownish grey, weakly propylitic altered granodiorite with trace disseminated pyrite throghout interval.							
						MD	BN					
						LT	GY		PRO	2I	Py	0.5
38.05	38.55	0.50	GRD	MG	brecciated, light brown to greyish white, intensely clay altered gouged granodiorite with trace disseminated pyrite within clay matrix of breccia							
						MD	GY					
						LT	GY		CLY	5I	Py	0.5
						LT	WH		SER	1I		
38.55	41.02	2.47	GRD	MG	medium grained light brownish grey to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint. Interval is weakly bleached and oxidized							
						MD	GY		BLE	1I		
						MD	BN		OXI	1I		
									ARG	1I		
									PRO	1I		
41.02	41.06	0.04	VEN	FG	quartz carbonate veinlet with fine-grained galena, and pyrite (weak to trace of both minerals)							
						MD	BN		SIL	1I	Py	0.5
						LT	WH				Gn	0.5
						LT	CR					
41.06	43.40	2.34	GRD	MG	medium grained medium brown to grey weak to moderate argillic altered granodiorite with one hairline quartz carbonate stringer veinlet.							
						MD	BN		ARG	1I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
43.40	45.00	1.60	GRD	MG	medium grained, fractured, rubbly granodiorite with intense clay alteration, likely related to faulting. One small interval from 44.20 to 44.50 contains disseminated pyrite within clay matrix of brecciated granodiorite							
						MD	BN					
						LT	GY		CLY	4I	Py	0.5
45.00	45.70	0.70	GRD	MG	medium grained weakly argillic altered granodiorite							
						MD	BN		ARG	1I		
						LT	GY					
45.70	47.00	1.30	GRD	MG	medium grained, fractured, weakly propylitic altered granodiorite with dissemianted pyrite along margin of two quartz veinlets within interval							
						MD	BN		PRO	2I	Py	0.5
						LT	GY		ARG	1I		
47.00	49.50	2.50	GRD	MG	alternating between moderate argillic altered granodiorite to weakly argillic altered granodiorite with a weak propylitic overprint. Medium greyish whiteish brown to greenish grey. Trace disseminated pyrite bearing stringer veinlets throughout interval							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	2I	Py	0.1
						LT	BN					
49.50	52.60	3.10	GRD	MG	weak argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	2I		
52.60	52.74	0.14	GRD	MG	dissemianted pyrite in siliceous moderately propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5
52.74	52.83	0.09	VEN	MG	Clay altered sooty grey to creamy white silica and sericite altered vein material with 2mm wide greyish sooty bands of clay and 2-5 mm wide disseminated pyrite bands. One small 2 mm wide fine-grained silvery grey band could be galena.							
						MD	GY		SIL	2I	Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		SER	2I		
						LT	GY		CLY	4I	Py	2
52.83	55.40	2.57	GRD	MG	medium grained medium grey to whitish grey moderate argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		PRO	1I		
						MD	GY					
						LT	WH		ARG	2I		
55.40	56.39	0.99	GRD	MG	fractured rubbly granodiorite, likely faulted. Medium grey to greenish grey							
						MD	GY		PRO	1I		
						LT	GY		CLY	1I		
						LT	BN					
56.39	57.40	1.01	GRD	MG	medium grained, moderate propylitic altered granodiorite with blebby patchy tourmaline alteration							
						MD	GN		PRO	3I	To	1
57.40	58.50	1.10	GRD	MG	medium grained medium grey to whitish grey modeately argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
58.50	61.40	2.90	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
						MD	GY					
61.40	61.60	0.20	GRD	MG	weak argillic altered granodiorite							
61.60	64.00	2.40	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
64.00	64.30	0.30	GRD	MG	weakly argillic altered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
64.30	66.75	2.45	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
66.75	67.00	0.25	GRD	MG	weakly argillic altered granodiorite							
67.00	67.50	0.50	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
67.50	67.70	0.20	GRD	MG	weakly argillic altered granodiorite							
67.70	68.00	0.30	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
68.00	68.90	0.90	GRD	MG	medium grained mdium grey granodiorite with weak heatite and chlorite alteration on fracture surfaces							
									CHL	2I		
									HEM	3I		
68.90	71.00	2.10	GRD	MG	medium grained unaltered granodiorite							
						MD	GY					
71.00	71.59	0.59	GRD	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration overprint and trace disseminated pyrite throughout interval							
						MD	GY		ARG	3I	Py	0.25
						MD	GN		PRO	3I		
71.59	71.68	0.09	VEN	MG	fine to medium grained quartz carbonate vein with disseminated banded blebby galena and pyrite mineralization							
						MD	GY				Py	1
						LT	WH				Gn	1
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
71.68	72.30	0.62	GRD	MG	moderate argillic altered granodiorite with a moderate propylitic overprint							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	3I		
72.30	73.16	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
73.16	73.28	0.12	APL	FG	finegrained pinkish brown aplite dyke							
73.28	73.80	0.52	GRD	MG	weak to moderate argillic altered granodiorite with a moderate propylitic overprint. Two small pyrite +- sphalerit bearing quartz veinlets run 80 TCA							
						MD	GN		ARG	2I	Py	0.5
						MD	GY		PRO	3I	Sp	0.5
73.80	82.30	8.50	GRD	MG	medium grained medium grey unaltered granodiorite. Weak hairline carbonate alteration on frx surfaces; trace							
						MD	GY					
82.30	84.00	1.70	GRD	MG	set of 7 small pyrite bearing quartz veinlets in this interval. Interval consists of medium grey to greenish grey whitish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN					
						MD	GY		PRO	3I	Py	1
						LT	WH		ARG	3I		
84.00	84.76	0.76	GRD	MG	medium grained moderately propylitic altered granodiorite, medium greenish grey							
						MD	GY					
						MD	GN		PRO	3I		
84.76	84.79	0.03	VEN	FG	quartz carbonate veinlet with a carbonate rich seam 2 mm wide, with blackjac sphalerite along its margins. Pyrite and arseonpyirte (trace) is disseminated throghout wuartz rich phase of vein							
						LT	GY		SIL	4I	Sp	1
						LT	WH		SER	2I	As	0.5
											Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.79	89.06	4.27	GRD	MG	medium grained medium green moderate to strongly propylitic altered granodiorite with weak mm-scale pyrite beraing quartz stringer veinlets. Patch weak to trace argillic alteratio							
						MD	GN		ARG	1I	Py	0.1
						MD	GY		PRO	3I		
89.06	89.11	0.05	VEN	FG	fine-grained quartz carbonate vein with disseminated blebby pryite with rare arsenopyrite, carbonate rich portion of vein contains galena and sphalerite							
						MD	WH		SER	1I	As	2
						LT	GY		SIL	3I	Py	2
											Sp	1
89.11	89.57	0.46	GRD	MG	mediujm grained medium greenish grey moderately propylitic altered granodiorite alteration halo extending around polymetallic vein described above							
						MD	GN		PRO	3I		
						MD	GY					
89.57	91.20	1.63	GRD	MG	medium grey, medium grey unaltered granodiorite							
						MD	GY					
91.20	92.46	1.26	GRD	MG	medium grained, mweak to moderate argillic altered granodiorite with low angle fractures running throughout, possibly related to faulting.							
						MD	GY		ARG	2I		
						LT	GY		CLY	2I		
92.46	95.66	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
95.66	96.66	1.00	GRD	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint and weak carbonate veinlet stringers developed throughout interval							
						MD	GY		ARG	1I		
						MD	GN		PRO	2I		
96.66	96.76	0.10	VEN	MG	medium grained banded blebby disseminated pyrite bearing quartz vein with minor colloform rhodochrosite							
						LT	WH		SIL	4I	Py	3
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.76	97.23	0.47	GRD	FG	intensely clay and sericit altered portion of GRD. Disseminated pyrite throughout clay altered groundmass							
						MD	GY		CLY	4I		
						LT	GY		SER	2I	Py	0.5
97.23	98.12	0.89	GRD	MG	weak argillic altered granodiorite with a weak to moderate propylitic overprint. 3 small pyrite bearing quartz veinlets in this interval							
						MD	GN		PRO	3I	Py	1
						MD	GY		ARG	2I		
98.12	98.23	0.11	VEN	FG	Fine grained white quartz vein with disseminated pyrite and finegrained trace galena							
						LT	WH		SIL	4I	Py	2
						LT	GY				Gn	0.5
98.23	100.17	1.94	GRD	MG	meidum grained whitish grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. 3 small mm-scale hairline pyrite stringer veinlets have strong propylitic alteration haloes around them.							
						MD	GY		PRO	3I	Py	0.5
						MD	GN		ARG	3I		
						LT	WH					
100.17	100.20	0.03	VEN	FG	pyrite bearing quartz vein							
											Py	5
100.20	101.44	1.24	GRD	MG	moderately argillic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	1I	Py	0.1
101.44	102.00	0.56	GRD	MG	unaltered granodiorite							
102.00	102.86	0.86	GRD	MG	weakly propylitic altered granodiorite overprinting weak argillic alteration							
102.86	104.50	1.64	GRD	MG	unaltered granodiorite							
104.50	105.35	0.85	GRD	MG	weakly argillic altered granodiorite with a weak propylitic verprint							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.35	109.85	4.50	GRD	MG	unaltered medium grey granodiorite							
						MD	GY					
109.85	111.24	1.39	GRD	MG	medium grained patchy white to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint, with weak carbonate stringer veinlets throughout interval and weak dissmianted pyrite associated with them.							
111.24	111.33	0.09	VEN	FG	fine grained quartz carbonate vein with patchy bands of pyrite, trace arsenopyrite, and sphalerite (related to more carbonate rich section of vein).							
						LT	GY		SIL	5I	As	0.25
						LT	WH		CLY	2I	Py	3
											Sp	1
111.33	114.50	3.17	GRD	MG	medium grained patchily trace propylitic altered granodiorite with sparse, rare, hairline, low angle carbonate veinlets barren of sulphides							
						MD	GN		PRO	1I		
						MD	GY					
114.50	117.20	2.70	GRD	MG	meidum grained, medium grey unaltered granodiorite							
						MD	GY					
117.20	117.87	0.67	GRD	MG	medium grained, fractured, veined, moderately propylitic altered granodiorite with 4 small pyrite bearing quartz veinlets.							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
117.87	118.43	0.56	QFP	MG	finegrained green chloritized dyke with rare <5% porphyritic feldspar grains. Dyke contains weak disseminated trace pyrite and a finegrained speckling of a black mineral (possibly hornblende?).							
						MD	GN					
						LT	GN		CHL	3I	Py	0.75
118.43	119.06	0.63	QFP	MG	porphytitic quartz feldspar porphyry dyke with weakly chloritized feldspar grains							
						MD	GN		CHL	2I		
						MD	GY					
119.06	119.16	0.10	VEN	MG	quartz carbonate vein with disseminated blebby bands of pyrite and finegrained galena							
						MD	CR				Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		SIL	5I	Gn	0.5
119.16	122.19	3.03	QFP	MG	porphyritic quartz feldspar porphyry dyke with patch chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.							
						MD	GY					
						MD	GN		ARG	1I		
						LT	WH		CHL	1I		
122.19	122.57	0.38	QFP	MG	intensely argillic and clay altered portion of dyke located jut above a polymetallic vein hosted at the contact between the QFP dyke and granodiorite below							
						MD	GY		CLY	4I		
						LT	GY		ARG	3I		
						LT	GN					
122.57	122.71	0.14	GRD	MG	medium grained moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
122.71	122.76	0.05	VEN	MG	quartz carbonate vein with bands of fine-grained galena in carbonate veinlet and pyrite/arsenopyrite in quartz rich segment of vein.							
						MD	GY				Gn	1
						LT	GY		SIL	5I	As	1
						LT	WH				Py	2
122.76	126.15	3.39	QFP	MG	porphyritic quartz feldspar porphyry dyke with pervasive chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.							
						MD	GN		PRO	1I		
126.15	127.30	1.15	MAF	MG	dark grey mafic dyke with finegrained black mineral (hornblende?) . Dyke is magnetic and has a gradational contact with the QFP dyke above it and a sharp contact with the granodiorite below							
						MD	GY					
						DK	GY					
127.30	129.40	2.10	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
129.40	129.42	0.02	VEN	MG	small pyrite bearing low angle (30 TCA) quartz carbonate veinlet							
						LT	WH				Py	1
129.42	131.90	2.48	GRD	MG	medium grained medium green ewak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN					
						LT	WH		PRO	2I		
131.90	131.94	0.04	VEN	MG	quartz carbonate vein with finegrained black mineral (galena?) on margin of vein. Hosted in vein is disseminated banded pyrite blebs.							
						LT	GY		SIL	5I	Py	2
						LT	WH				Gn	0.5
131.94	133.57	1.63	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
133.57	133.65	0.08	VEN	FG	pyrite bearing low angle (30 TCA) quartz veinlet							
133.65	134.11	0.46	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.52	1.52	OVB	OVB	--	overburden
1.52	3.05	1.53	GRD	GRD	MG	mixture of unaltered granodiorite and overburden
3.05	4.50	1.45	GRD	GRD	MG	medium grained medium grey unaltered granodiorite
4.50	4.76	0.26	GRD	GRDA	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval
4.76	4.78	0.02	VEN	GRDA	MG	fine-grained pyrite bearing quartz vein
4.78	5.37	0.59	GRD	GRDA	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval
5.37	5.52	0.15	GRD	GRDA	MG	medium grained oxidized fualted granodiorite with two sharp fractured contats trending 50 TCA
5.52	6.70	1.18	GRD	GRDA	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval
6.70	7.05	0.35	GRD	GRDF	MG	medium grained oxidized weakly argililc altered granodiorite with two sharp contacts trending 30 TCA
7.05	9.35	2.30	GRD	GRDA	MG	medium grained moderately argillic altered granodiorite, light brown to whitish greenish grey, weakly oxidized throughout entier interval
9.35	10.38	1.03	GRD	GRDF	MG	highly fractured, clay altered granodiorite with low angle fractures trending ~15-30 TCA
10.38	12.59	2.21	GRD	GRDA	MG	medium grained, light greenish grey granodiorite with weakl argillic alteration with a weak propylitic overprint. Oxidation confined to fractures, and entire interval is weakly bleached and oxidized.
12.59	13.21	0.62	GRD	GRDM	MG	medium grained, clay altered interval of grd with two low angle quartz carbonate veinlets that are pyrite bearing. Veins are same orientation as faulted surfaces measured throughout hole.
13.21	15.24	2.03	GRD	GRDA	MG	medium grained, medium grey to brown, oxidized on fracture surfaces, weak to moderately argillic altered granodiorite.
15.24	16.76	1.52	GRD	GRD	MG	unaltered medium grey granodiorite
16.76	18.07	1.31	GRD	GRDA	MG	medium grained medium grey to brownish grey weak to moderately argillic altered granodiorite with weak oxidation on fracture surfaces.
18.07	18.37	0.30	GRD	GRDM	MG	intensely clay altered faulted granodiorite with weak disseminated pyrite within groundmass of clay altered interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
18.37	19.81	1.44	GRD	GRDF	MG	medium grained, fractured, rubbly weakly argillic altered granodiorite with a weak propylitic overprint
19.81	20.41	0.60	GRD	GRDA	MG	medium grained, weak to trace propylitic altered granodiorite
20.41	21.30	0.89	GRD	GRDM	MG	medium grained, medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. Three small pyrite bearing quartz veinlets in interval
21.30	23.20	1.90	GRD	GRD	MG	unaltered granodiorite. Weak oxidation on fracture surfaces
23.20	24.53	1.33	GRD	GRDF	MG	medium grained, fractured and clay altered granodiorite, medium grey to brown, with rubbly intervals within a larger weakly argillic altered interval of granodiorite.
24.53	24.95	0.42	GRD	GRDM	MG	medium grained weak to moderately propylitic altered granodiorite with trace disseminated pyrite in interval and in two small hairline pyrite bearing quartz veinlets
24.95	26.00	1.05	GRD	GRDA	MG	medium grained light whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic oveprint. Oxidation haloes around fractures.
26.00	27.50	1.50	GRD	GRDF	MG	medium grained medium brown to grey, rubbly oxidized granodiorite with moderate clay alteration. Likely faulted.
27.50	32.00	4.50	GRD	GRDA	MG	medium grained medium grey, patchy greenish grey trace argillic and trace propylitic altered granodiorite with small hairline quartz carbonate stringer veinlets barren of sulfides
32.00	32.50	0.50	GRD	GRDM	MG	medium grained moderately propylitic altered granodiorite with weak silicification and disseminated pyrite throughout entire interval
32.50	33.50	1.00	GRD	GRDA	MG	medium grained moderately propylitic altered granodiorite with two weak hairline pyrite bearing quartz carbonate stringer veinlets
33.50	35.35	1.85	GRD	GRDA	MG	medium grained weakly propylitic altered granodiorite with very trace pyrite bearing quartz carbonate veinlets (two in interval) with weak disseminated pyrite.
35.35	35.68	0.33	GRD	GRDM	MG	medium grained stonrlgy propylitic and weak clay alterd granodiorite with a small 1 cm wide pyrite bearing quartz veinlet
35.68	36.86	1.18	GRD	GRDA	MG	medium grained moderately argillic altered granodiorite with weak propylitic overprint
36.86	37.26	0.40	GRD	GRDM	MG	medium to fine grained strongly silicified and propylitic altered granodiorite with disseminated blebby banded pyrite, and fine-grained black mineral 1mm wide banding on margin of pyrite (unknown mineral).
37.26	38.05	0.79	GRD	GRDM	MG	medium grained medium brown to brownish grey, weakly propylitic altered granodiorite with trace disseminated pyrite throghout interval.
38.05	38.55	0.50	GRD	GRDF	MG	brecciated, light brown to greyish white, intensely clay altered gouged granodiorite with trace disseminated pyrite within clay matrix of breccia

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
38.55	41.02	2.47	GRD	GRDA	MG	medium grained light brownish grey to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint. Interval is weakly bleached and oxidized
41.02	41.06	0.04	VEN	VEIN	FG	quartz carbonate veinlet with fine-grained galena, and pyrite (weak to trace of both minerals)
41.06	43.40	2.34	GRD	GRDA	MG	medium grained medium brown to grey weak to moderate argillic altered granodiorite with one hairline quartz carbonate stringer veinlet.
43.40	45.00	1.60	GRD	GRDF	MG	medium grained, fractured, rubbly granodiorite with intense clay alteration, likely related to faulting. One small interval from 44.20 to 44.50 contains disseminated pyrite within clay matrix of brecciated granodiorite
45.00	45.70	0.70	GRD	GRD	MG	medium grained weakly argillic altered granodiorite
45.70	47.00	1.30	GRD	GRDM	MG	medium grained, fractured, weakly propylitic altered granodiorite with dissemianted pyrite along margin of two quartz veinlets within interval
47.00	49.50	2.50	GRD	GRDA	MG	alternating between moderate argillic altered granodiorite to weakly argillic altered granodiorite with a weak propylitic overprint. Medium greyish whiteish brown to greenish grey. Trace disseminated pyrite bearing stringer veinlets throughout interval
49.50	52.60	3.10	GRD	GRDA	MG	weak argillic altered granodiorite with a weak to moderate propylitic overprint
52.60	52.74	0.14	GRD	GRDM	MG	dissemianted pyrite in siliceous moderately propylitic altered granodiorite
52.74	52.83	0.09	VEN	VEIN	MG	Clay altered sooty grey to creamy white silica and sericite altered vein material with 2mm wide greyish sooty bands of clay and 2-5 mm wide disseminated pyrite bands. One small 2 mm wide fine-grained silvery grey band could be galena.
52.83	55.40	2.57	GRD	GRDA	MG	medium grained medium grey to whitish grey moderate argillic altered granodiorite with a weak propylitic overprint
55.40	56.39	0.99	GRD	GRDF	MG	fractured rubbly granodiorite, likely faulted. Medium grey to greenish grey
56.39	57.40	1.01	GRD	GRDA	MG	medium grained, moderate propylitic altered granodiorite with blebby patchy tourmaline alteration
57.40	58.50	1.10	GRD	GRDA	MG	medium grained medium grey to whitish grey modeately argillic altered granodiorite
58.50	61.40	2.90	GRD	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered
61.40	61.60	0.20	GRD	GRD	MG	weak argillic altered granodiorite
61.60	64.00	2.40	GRD	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered
64.00	64.30	0.30	GRD	GRD	MG	weakly argillic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
64.30	66.75	2.45	GRD	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered
66.75	67.00	0.25	GRD	GRD	MG	weakly argillic altered granodiorite
67.00	67.50	0.50	GRD	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered
67.50	67.70	0.20	GRD	GRD	MG	weakly argillic altered granodiorite
67.70	68.00	0.30	GRD	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered
68.00	68.90	0.90	GRD	GRDA	MG	medium grained mdium grey granodiorite with weak heatite and chlorite alteration on fracture surfaces
68.90	71.00	2.10	GRD	GRD	MG	medium grained unaltered granodiorite
71.00	71.59	0.59	GRD	GRDA	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration overprint and trace disseminated pyrite throughout interval
71.59	71.68	0.09	VEN	VEIN	MG	fine to medium grained quartz carbonate vein with disseminated banded blebby galena and pyrite mineralization
71.68	72.30	0.62	GRD	GRDA	MG	moderate argillic altered granodiorite with a moderate propylitic overprint
72.30	73.16	0.86	GRD	GRD	MG	unaltered granodiorite
73.16	73.28	0.12	APL	DYK	FG	finegrained pinkish brown aplite dyke
73.28	73.80	0.52	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with a moderate propylitic overprint. Two small pyrite +- sphalerit bearing quartz veinlets run 80 TCA
73.80	82.30	8.50	GRD	GRD	MG	medium grained medium grey unaltered granodiorite. Weak hairline carbonate alteration on frx surfaces; trace
82.30	84.00	1.70	GRD	GRDM	MG	set of 7 small pyrite bearing quartz veinlets in this interval. Interval consists of medium grey to greenish grey whitish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint
84.00	84.76	0.76	GRD	GRDA	MG	medium grained moderately propylitic altered granodiorite, medium greenish grey
84.76	84.79	0.03	VEN	VEIN	FG	quartz carbonate veinlet with a carbonate rich seam 2 mm wide, with blackjac sphalerite along its margins. Pyrite and arseonpyirte (trace) is disseminated throghout wuartz rich phase of vein
84.79	89.06	4.27	GRD	GRDA	MG	medium grained medium green moderate to strongly propylitic altered granodiorite with weak mm-scale pyrite beraing quartz stringer veinlets. Patch weak to trace argillic alteratio

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
89.06	89.11	0.05	VEN	VEIN	FG	fine-grained quartz carbonate vein with disseminated blebby pryite with rare arsenopyrite, carbonate rich portion of vein contains galena and sphalerite
89.11	89.57	0.46	GRD	GRDA	MG	mediujm grained medium greenish grey moderately propylitic altered granodiorite alteration halo extending around polymetallic vein described above
89.57	91.20	1.63	GRD	GRD	MG	medium grey, medium grey unaltered granodiorite
91.20	92.46	1.26	GRD	GRDA	MG	medium grained, mweak to moderate argillic altered granodiorite with low angle fractures running throughout, possibly related to faulting.
92.46	95.66	3.20	GRD	GRD	MG	unaltered granodiorite
95.66	96.66	1.00	GRD	GRDA	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint and weak carbonate veinlet stringers developed throughout interval
96.66	96.76	0.10	VEN	VEIN	MG	medium grained banded blebby disseminated pyrite bearing quartz vein with minor colloform rhodochrosite
96.76	97.23	0.47	GRD	FLTM	FG	intensely clay and sericit altered portion of GRD. Disseminated pyrite throughout clay altered groundmass
97.23	98.12	0.89	GRD	GRDM	MG	weak argillic altered granodiorite with a weak to moderate propylitic overprint. 3 small pyrite bearing quartz veinlets in this interval
98.12	98.23	0.11	VEN	VEIN	FG	Fine grained white quartz vein with disseminated pyrite and finegrained trace galena
98.23	100.17	1.94	GRD	GRDA	MG	meidum grained whitish grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. 3 small mm-scale hairline pyrite stringer veinlets have strong propylitic alteration haloes around them.
100.17	100.20	0.03	VEN	VEIN	FG	pyrite bearing quartz vein
100.20	101.44	1.24	GRD	GRDA	MG	moderately argillic altered granodiorite
101.44	102.00	0.56	GRD	GRDA	MG	unaltered granodiorite
102.00	102.86	0.86	GRD	GRDA	MG	weakly propylitic altered granodiorite overprinting weak argillic alteration
102.86	104.50	1.64	GRD	GRDA	MG	unaltered granodiorite
104.50	105.35	0.85	GRD	GRDA	MG	weakly argillic altered granodiorite with a weak propylitic verprint
105.35	109.85	4.50	GRD	GRD	MG	unaltered medium grey granodiorite
109.85	111.24	1.39	GRD	GRDA	MG	medium grained patchy white to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint, with weak carbonate stringer veinlets throughout interval and weak dissmianted pyrite associated with them.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
111.24	111.33	0.09	VEN	VEIN	FG	fine grained quartz carbonate vein with patchy bands of pyrite, trace arsenopyrite, and sphalerite (related to more carbonate rich section of vein).
111.33	114.50	3.17	GRD	GRDA	MG	medium grained patchily trace propylitic altered granodiorite with sparse, rare, hairline, low angle carbonate veinlets barren of sulphides
114.50	117.20	2.70	GRD	GRD	MG	meidum grained, medium grey unaltered granodiorite
117.20	117.87	0.67	GRD	GRDM	MG	medium grained, fractured, veined, moderately propylitic altered granodiorite with 4 small pyrite bearing quartz veinlets.
117.87	118.43	0.56	QFP	DYK	MG	finegrained green chloritized dyke with rare <5% porphyritic feldspar grains. Dyke contains weak disseminated trace pyrite and a finegrained speckling of a black mineral (possibly hornblende?).
118.43	119.06	0.63	QFP	DYK	MG	porphytitic quartz feldspar porphyry dyke with weakly chloritized feldspar grains
119.06	119.16	0.10	VEN	VEIN	MG	quartz carbonate vein with disseminated blebby bands of pyrite and finegrained galena
119.16	122.19	3.03	QFP	DYK	MG	porphyritic quartz feldspar porphyry dyke with patch chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.
122.19	122.57	0.38	QFP	DYK	MG	intensely argillic and clay altered portion of dyke located jut above a polymetallic vein hosted at the contact between the QFP dyke and granodiorite below
122.57	122.71	0.14	GRD	GRDA	MG	medium grained moderately propylitic altered granodiorite
122.71	122.76	0.05	VEN	VEIN	MG	quartz carbonate vein with bands of fine-grained galena in carbonate veinlet and pyrite/arsenopyrite in quartz rich segment of vein.
122.76	126.15	3.39	QFP	DYK	MG	porphyritic quartz feldspar porphyry dyke with pervasive chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.
126.15	127.30	1.15	MAF	DYK	MG	dark grey mafic dyke with finegrained black mineral (hornblende?) . Dyke is magnetic and has a gradational contact with the QFP dyke above it and a sharp contact with the granodiorite below
127.30	129.40	2.10	GRD	GRDA	MG	medium grained trace propylitic altered granodiorite
129.40	129.42	0.02	VEN	VEIN	MG	small pyrite bearing low angle (30 TCA) quartz carbonate veinlet
129.42	131.90	2.48	GRD	GRDA	MG	medium grained medium green ewak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint
131.90	131.94	0.04	VEN	VEIN	MG	quartz carbonate vein with finegrained black mineral (galena?) on margin of vein. Hosted in vein is disseminated banded pyrite blebs.
131.94	133.57	1.63	GRD	GRDA	MG	medium grained trace propylitic altered granodiorite
133.57	133.65	0.08	VEN	VEIN	FG	pyrite bearing low angle (30 TCA) quartz veinlet
133.65	134.11	0.46	GRD	GRDA	MG	medium grained trace propylitic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	3.05	1.53	GRD	MG	mixture of unaltered granodiorite and overburden							
						MD	GY					
3.05	4.50	1.45	GRD	MG	medium grained medium grey unaltered granodiorite							
						MD	GY					
4.50	6.70	2.20	GRD	MG	medium grained, weak to moderately propylitic alterd granodiorite with weak oxidation envelopes around hairline carbonate fractures. One small 1 cm wide pyrite bearing quartz vein and one section of faulted granodiorite within a broader porpylitic altered interval							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
6.70	7.05	0.35	GRD	MG	medium grained oxidized weakly argililc altered granodiorite with two sharp contacts trending 30 TCA							
						LT	WH		OXI	2I		
						LT	BN		BLE	1I		
7.05	9.35	2.30	GRD	MG	medium grained moderately argillic altered granodiorite, light brown to whitish greenish grey, weakly oxidized throughout entier interval							
						LT	GN		ARG	3I		
						MD	GY		OXI	2I		
						LT	WH		BLE	1I		
						MD	BN					
9.35	10.38	1.03	GRD	MG	highly fractured, clay altered granodiorite with low angle fractures trending ~15-30 TCA							
						MD	BN		CLY	4I		
10.38	12.59	2.21	GRD	MG	medium grained, light greenish grey granodiorite with weakl argillic alteration with a weak propylitic overprint. Oxidation confined to fractures, and entire interval is weakly bleached and oxidized.							
						MD	GY		BLE	1I		
						MD	GN		PRO	2I		
						LT	BN		OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									ARG	2I		
12.59	13.21	0.62	GRD	MG	medium grained, clay altered interval of grd with two low angle quartz carbonate veinlets that are pyrite bearing. Veins are same orientation as faulted surfaces measured throughout hole.							
									ARG	2I		
						MD	GN		SIL	1I		
						MD	GY		PRO	2I	Py	0.5
13.21	15.24	2.03	GRD	MG	medium grained, medium grey to brown, oxidized on fracture surfaces, weak to moderately argillic altered granodiorite.							
						MD	GY		OXI	2I		
						MD	BN		ARG	2I		
15.24	16.76	1.52	GRD	MG	unaltered medium grey granodiorite							
						MD	GY					
16.76	18.07	1.31	GRD	MG	medium grained medium grey to brownish grey weak to moderately argillic altered granodiorite with weak oxidation on fracture surfaces.							
						MD	GY					
						MD	BN					
18.07	18.37	0.30	GRD	MG	intensely clay altered faulted granodiorite with weak disseminated pyrite within groundmass of clay altered interval.							
						MD	GY					
						LT	WH		CLY	4I	Py	0.5
18.37	19.81	1.44	GRD	MG	medium grained, fractured, rubbly weakly argillic altered granodiorite with a weak propylitic overprint							
						MD	BN		ARG	2I		
						MD	GY		PRO	2I		
19.81	20.41	0.60	GRD	MG	medium grained, weak to trace propylitic altered granodiorite							
						MD	GY		PRO	1I		
						LT	WH					
20.41	21.30	0.89	GRD	MG	medium grained, medium grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. Three small pyrite bearing quartz veinlets in interval							
						MD	GY		ARG	3I		
						MD	GN		OXI	1I		
						MD	BN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.30	23.20	1.90	GRD	MG	unaltered granodiorite. Weak oxidation on fracture surfaces							
						MD	GY		OXI	1I		
						LT	BN					
23.20	24.53	1.33	GRD	MG	medium grained, fractured and clay altered granodiorite, medium grey to brown, with rubbly intervals within a larger weakly argillic altered interval of granodiorite.							
									OXI	2I		
						MD	GY		CLY	3I		
24.53	24.95	0.42	GRD	MG	medium grained weak to moderately propylitic altered granodiorite with trace disseminated pyrite in interval and in two small hairline pyrite bearing quartz veinlets							
24.95	26.00	1.05	GRD	MG	medium grained light whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic oveprint. Oxidation haloes around fractures.							
						LT	WH		PRO	1I		
						LT	BN					
						MD	GY		ARG	2I		
26.00	27.50	1.50	GRD	MG	medium grained medium brown to grey, rubbly oxidized granodiorite with moderate clay alteration. Likely faulted.							
						LT	GY					
						MD	BN		CLY	3I		
						LT	GN					
27.50	32.00	4.50	GRD	MG	medium grained medium grey, patchy greenish grey trace argillic and trace propylitic altered granodiorite with small hairline quartz carbonate stringer veinlets barren of sulfides							
						LT	GN		PRO	1I		
						MD	GY		ARG	1I		
32.00	32.50	0.50	GRD	MG	medium grained moderately propylitic altered granodiorite with weak silicification and disseminated pyrite throughout entire interval							
						MD	GY		PRO	3I		
						LT	GY		SIL	1I	Py	0.5
32.50	33.50	1.00	GRD	MG	medium grained moderately propylitic altered granodiorite with two weak hairline pyrite bearing quartz carbonate stringer veinlets							
						MD	GN		PRO	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
33.50	35.35	1.85	GRD	MG	medium grained weakly propylitic altered granodiorite with very trace pyrite bearing quartz carbonate veinlets (two in interval) with weak disseminated pyrite.							
						MD	GY		PRO	1I		
									ARG	1I		
35.35	35.68	0.33	GRD	MG	medium grained stonrlgy propylitic and weak clay alterd granodiorite with a small 1 cm wide pyrite bearing quartz veinlet							
						LT	WH		CLY	1I		
						MD	GY		PRO	4I	Py	0.5
35.68	36.86	1.18	GRD	MG	medium grained moderately argillic altered granodiorite with weak propylitic overprint							
						MD	GY					
						LT	GN		ARG	2I		
						LT	WH		PRO	1I		
36.86	37.26	0.40	GRD	MG	medium to fine grained strongly silicified and propylitic altered granodiorite with disseminated blebby banded pyrite, and fine-grained black mineral 1mm wide banding on margin of pyrite (unknown mineral).							
						MD	GY				Py	1
						LT	BN		SIL	3I	Py	1
						LT	WH				Un	0.1
37.26	38.05	0.79	GRD	MG	medium grained medium brown to brownish grey, weakly propylitic altered granodiorite with trace disseminated pyrite throghout interval.							
						LT	GY					
						MD	BN		PRO	2I	Py	0.5
38.05	38.55	0.50	GRD	MG	brecciated, light brown to greyish white, intensely clay altered gouged granodiorite with trace disseminated pyrite within clay matrix of breccia							
						LT	GY		SER	1I	Py	0.5
						MD	GY		CLY	5I		
						LT	WH					
38.55	41.02	2.47	GRD	MG	medium grained light brownish grey to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint. Interval is weakly bleached and oxidized							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									ARG	1I		
						MD	GY		PRO	1I		
									BLE	1I		
						MD	BN		OXI	1I		
41.02	41.06	0.04	VEN	FG	quartz carbonate veinlet with fine-grained galena, and pyrite (weak to trace of both minerals)							
						LT	WH		SIL	1I	Py	0.5
						LT	CR				Gn	0.5
						MD	BN					
41.06	43.40	2.34	GRD	MG	medium grained medium brown to grey weak to moderate argillic altered granodiorite with one hairline quartz carbonate stringer veinlet.							
						MD	GY					
						MD	BN		ARG	1I		
43.40	45.00	1.60	GRD	MG	medium grained, fractured, rubbly granodiorite with intense clay alteration, likely related to faulting. One small interval from 44.20 to 44.50 contains disseminated pyrite within clay matrix of brecciated granodiorite							
						MD	BN		CLY	4I	Py	0.5
						LT	GY					
45.00	45.70	0.70	GRD	MG	medium grained weakly argillic altered granodiorite							
						LT	GY					
						MD	BN		ARG	1I		
45.70	47.00	1.30	GRD	MG	medium grained, fractured, weakly propylitic altered granodiorite with dissemianted pyrite along margin of two quartz veinlets within interval							
						LT	GY		PRO	2I	Py	0.5
						MD	BN		ARG	1I		
47.00	52.60	5.60	GRD	MG	alternating between moderate argillic altered granodiorite to weakly argillic altered granodiorite with a weak propylitic overprint. Medium greyish whiteish brown to greenish grey. Trace disseminated pyrite bearing stringer veinlets throughout interval							
						LT	BN					
						MD	GY		PRO	2I		
						LT	WH		ARG	2I	Py	0.1
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
52.60	52.74	0.14	GRD	MG	dissemianted pyrite in siliceous moderately propylitic altered granodiorite							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
52.74	52.83	0.09	VEN	MG	Clay altered sooty grey to creamy white silica and sericite altered vein material with 2mm wide greyish sooty bands of clay and 2-5 mm wide disseminated pyrite bands. One small 2 mm wide fine-grained silvery grey band could be galena.							
						LT	GY		SIL	2I		
						LT	WH		SER	2I	Gn	0.5
						MD	GY		CLY	4I	Py	2
52.83	55.40	2.57	GRD	MG	medium grained medium grey to whitish grey moderate argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		PRO	1I		
						MD	GN					
						LT	WH		ARG	2I		
55.40	56.39	0.99	GRD	MG	fractured rubbly granodiorite, likely faulted. Medium grey to greenish grey							
						LT	BN		PRO	1I		
						LT	GY					
						MD	GY		CLY	1I		
56.39	57.40	1.01	GRD	MG	medium grained, moderate propylitic altered granodiorite with blebby patchy tourmaline alteration							
						MD	GN		PRO	3I	To	1
57.40	58.50	1.10	GRD	MG	medium grained medium grey to whitish grey modeately argillic altered granodiorite							
						LT	WH					
						MD	GY		ARG	3I		
58.50	68.00	9.50	GRD	MG	medium grained medium grey relatively unaltered granodiorite, weak patchy argillic alteration that sporadically occurs over 40 cm intervals throughout interval. However, interval is mostly unaltered							
						MD	GY					
68.00	68.90	0.90	GRD	MG	medium grained mdium grey granodiorite with weak heatite and chlorite alteration on fracture surfaces							
									CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									HEM	3I		
68.90	71.00	2.10	GRD	MG	medium grained unaltered granodiorite							
						MD	GY					
71.00	71.59	0.59	GRD	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration overprint and trace disseminated pyrite throughout interval							
						MD	GN		PRO	3I		
						MD	GY		ARG	3I	Py	0.25
71.59	71.68	0.09	VEN	MG	fine to medium grained quartz carbonate vein with disseminated banded blebby galena and pyrite mineralization							
						LT	WH				Gn	1
						MD	GY					
						LT	GY				Py	1
71.68	72.30	0.62	GRD	MG	moderate argillic altered granodiorite with a moderate propylitic overprint							
						MD	GN					
						MD	GY		ARG	3I		
						LT	WH		PRO	2I		
72.30	73.16	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
73.16	73.28	0.12	APL	FG	finegrained pinkish brown aplite dyke							
						MD	BN					
						MD	PK					
73.28	73.80	0.52	GRD	MG	weak to moderate argillic altered granodiorite with a moderate propylitic overprint. Two small pyrite +- sphalerit bearing quartz veinlets run 80 TCA							
						MD	GY		PRO	3I	Sp	0.5
						MD	GN		ARG	2I	Py	0.5
73.80	82.30	8.50	GRD	MG	medium grained medium grey unaltered granodiorite. Weak hairline carbonate alteration on frx surfaces; trace							
						MD	GY					
82.30	84.00	1.70	GRD	MG	set of 7 small pyrite bearing quartz veinlets in this interval. Interval consists of medium grey to greenish grey whitish grey moderately argillic altered granodiorite with a weak to moderate propylitic overprint							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						MD	GN		ARG	3I		
						MD	GY		PRO	3I	Py	1
84.00	84.76	0.76	GRD	MG	medium grained moderately propylitic altered granodiorite, medium greenish grey							
						MD	GN					
						MD	GY		PRO	3I		
84.76	84.79	0.03	VEN	FG	quartz carbonate veinlet with a carbonate rich seam 2 mm wide, with blackjac sphalerite along its margins. Pyrite and arseonpyirte (trace) is disseminated throghout wuartz rich phase of vein							
						LT	WH		SER	2I	Py	2
											Sp	1
						LT	GY		SIL	4I	As	0.5
84.79	89.06	4.27	GRD	MG	medium grained medium green moderate to strongly propylitic altered granodiorite with weak mm-scale pyrite beraing quartz stringer veinlets. Patch weak to trace argillic alteratio							
						MD	GN		ARG	1I		
						MD	GY		PRO	3I	Py	0.1
89.06	89.11	0.05	VEN	FG	fine-grained quartz carbonate vein with disseminated blebby pryite with rare arsenopyrite, carbonate rich portion of vein contains galena and sphalerite							
											As	2
						LT	GY		SIL	3I	Py	2
						MD	WH		SER	1I	Sp	1
89.11	89.57	0.46	GRD	MG	mediujm grained medium greenish grey moderately propylitic altered granodiorite alteration halo extending around polymetallic vein described above							
						MD	GN		PRO	3I		
						MD	GY					
89.57	91.20	1.63	GRD	MG	medium grey, medium grey unaltered granodiorite							
						MD	GY					
91.20	92.46	1.26	GRD	MG	medium grained, mweak to moderate argillic altered granodiorite with low angle fractures running throughout, possibly related to faulting.							
						MD	GY		CLY	2I		
						LT	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
92.46	95.66	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
95.66	96.66	1.00	GRD	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint and weak carbonate veinlet stringers developed throughout interval							
						MD	GN		ARG	1I		
						MD	GY		PRO	2I		
96.66	96.76	0.10	VEN	MG	medium grained banded blebby disseminated pyrite bearing quartz vein with minor colloform rhodochrosite							
						LT	WH		SIL	4I	Py	3
						LT	PK					
96.76	97.23	0.47	GRD	FG	intensely clay and sericit altered portion of GRD. Disseminated pyrite throughout clay altered groundmass							
						MD	GY		SER	2I		
						LT	GY		CLY	4I	Py	0.5
97.23	98.12	0.89	GRD	MG	weak argillic altered granodiorite with a weak to moderate propylitic overprint. 3 small pyrite bearing quartz veinlets in this interval							
						MD	GY		PRO	3I	Py	1
						MD	GN		ARG	2I		
98.12	98.23	0.11	VEN	FG	Fine grained white quartz vein with disseminated pyrite and finegrained trace galena							
						LT	GY		SIL	4I	Gn	0.5
						LT	WH				Py	2
98.23	100.17	1.94	GRD	MG	meidum grained whitish grey to greenish grey moderately argillic altered granodiorite with a weak propylitic overprint. 3 small mm-scale hairline pyrite stringer veinlets have strong propylitic alteration haloes around them.							
						LT	WH					
						MD	GY		ARG	3I		
						MD	GN		PRO	3I	Py	0.5
100.17	100.20	0.03	VEN	FG	pyrite bearing quartz vein							
											Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.20	105.35	5.15	GRD	MG	weak argillic altered granodiorite with patchy weak propylitic alteration envelopes around small hairline quartz carbonate stringer veinlets with trace disseminated pyrite. Argillic alteration tends to envelope the propylitic alteration, but is likely being overprinted by propylitic alteration from veinlets							
						MD	GY					
						LT	WH		PRO	2I		
						MD	GN		ARG	1I	Py	0.1
105.35	109.85	4.50	GRD	MG	unaltered medium grey granodiorite							
						MD	GY					
109.85	111.24	1.39	GRD	MG	medium grained patchy white to greenish grey weakly argillic altered granodiorite with a weak propylitic overprint, with weak carbonate stringer veinlets throughout interval and weak dissmianted pyrite associated with them.							
						LT	WH		ARG	1I	Py	0.1
						MD	GY		PRO	2I		
						MD	GN					
111.24	111.33	0.09	VEN	FG	fine grained quartz carbonate vein with patchy bands of pyrite, trace arsenopyrite, and sphalerite (related to more carbonate rich section of vein).							
						LT	GY		CLY	2I	As	0.25
						LT	WH		SIL	5I	Py	3
											Sp	1
111.33	114.50	3.17	GRD	MG	medium grained patchily trace propylitic altered granodiorite with sparse, rare, hairline, low angle carbonate veinlets barren of sulphides							
						MD	GY		PRO	1I		
						MD	GN					
114.50	117.20	2.70	GRD	MG	meidum grained, medium grey unaltered granodiorite							
						MD	GY					
117.20	117.87	0.67	GRD	MG	medium grained, fractured, veined, moderately propylitic altered granodiorite with 4 small pyrite bearing quartz veinlets.							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
117.87	118.43	0.56	QFP	MG	finegrained green chloritized dyke with rare <5% porphyritic feldspar grains. Dyke contains weak disseminated trace pyrite and a finegrained speckling of a black mineral (possibly hornblende?).							
						LT	GN					
						MD	GN		CHL	3I	Py	0.75
118.43	119.06	0.63	QFP	MG	porphytitic quartz feldspar porphyry dyke with weakly chloritized feldspar grains							
						MD	GN		CHL	2I		
						MD	GY					
119.06	119.16	0.10	VEN	MG	quartz carbonate vein with disseminated blebby bands of pyrite and finegrained galena							
						MD	CR		SIL	5I	Py	3
						LT	WH				Gn	0.5
119.16	122.19	3.03	QFP	MG	porphyritic quartz feldspar porphyry dyke with patch chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.							
						MD	GY		ARG	1I		
						LT	WH					
						MD	GN		CHL	1I		
122.19	122.57	0.38	QFP	MG	intensely argillic and clay altered portion of dyke located jut above a polymetallic vein hosted at the contact between the QFP dyke and granodiorite below							
						LT	GY		ARG	3I		
						MD	GY		CLY	4I		
						LT	GN					
122.57	122.71	0.14	GRD	MG	medium grained moderately propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	3I		
122.71	122.76	0.05	VEN	MG	quartz carbonate vein with bands of fine-grained galena in carbonate veinlet and pyrite/arsenopyrite in quartz rich segment of vein.							
						LT	WH		SIL	5I	As	1
						LT	GY				Gn	1
						MD	GY				Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.76	126.15	3.39	QFP	MG	porphyritic quartz feldspar porphyry dyke with pervasive chloritization of feldspars and weak to trace argillic alteration of groundmass of dyke.							
						MD	GN		PRO	1I		
126.15	127.30	1.15	MAF	MG	dark grey mafic dyke with finegrained black mineral (hornblende?) . Dyke is magnetic and has a gradational contact with the QFP dyke above it and a sharp contact with the granodiorite below							
						DK	GY					
						MD	GY					
127.30	129.40	2.10	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
129.40	129.42	0.02	VEN	MG	small pyrite bearing low angle (30 TCA) quartz carbonate veinlet							
						LT	WH				Py	1
129.42	131.90	2.48	GRD	MG	medium grained medium green ewak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint							
						LT	WH		PRO	2I		
						MD	GN		ARG	3I		
						MD	GY					
131.90	131.94	0.04	VEN	MG	quartz carbonate vein with finegrained black mineral (galena?) on margin of vein. Hosted in vein is disseminated banded pyrite blebs.							
						LT	WH		SIL	5I	Gn	0.5
						LT	GY				Py	2
131.94	133.57	1.63	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
133.57	133.65	0.08	VEN	FG	pyrite bearing low angle (30 TCA) quartz veinlet							
											Py	0.5
133.65	134.11	0.46	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.52	34	0.00	0	--	1H	6W	
1.52	3.05	1.53	1.01	66	0.48	31	--	2H	4W	
3.05	4.57	1.52	1.4	92	0.75	49	--	3H	2W	
4.57	7.62	3.05	2.89	95	1.21	40	--	3H	2W	
7.62	9.14	1.52	1.5	99	1.15	76	--	3H	2W	
9.14	12.19	3.05	3	98	2.45	80	--	3H	2W	
12.19	15.24	3.05	3.05	100	0.90	30	--	3H	2W	
15.24	18.29	3.05	2.87	94	2.06	68	--	3H	2W	
18.29	21.34	3.05	3.02	99	1.76	58	--	3H	2W	
21.34	24.38	3.04	2.65	87	0.83	27	--	3H	2W	
24.38	27.43	3.05	2.95	97	1.27	42	--	4H	2W	
27.43	30.48	3.05	3.04	100	2.16	71	--	4H	2W	
30.48	32.00	1.52	1.48	97	1.07	70	--	4H	2W	
32.00	35.05	3.05	2.96	97	2.23	73	--	3H	2W	
35.05	38.10	3.05	2.84	93	0.88	29	--	3H	2W	
38.10	41.15	3.05	3.05	100	2.42	79	--	3H	2W	
41.15	44.20	3.05	3	98	1.65	54	--	2H	2W	
44.20	47.24	3.04	3.04	100	2.21	73	--	3H	2W	
47.24	50.29	3.05	3.05	100	2.57	84	--	4H	2W	
50.29	53.34	3.05	2.97	97	2.62	86	--	4H	1W	
53.34	56.39	3.05	2.92	96	1.04	34	--	3H	2W	
56.39	59.49	3.10	3.02	97	2.68	86	--	3H	2W	
59.49	62.48	2.99	2.93	98	2.02	68	--	4H	2W	
62.48	65.53	3.05	2.77	91	1.30	43	--	3H	2W	
65.53	68.58	3.05	3.05	100	1.52	50	--	4H	2W	
68.58	71.63	3.05	2.95	97	1.97	65	--	4H	1W	
71.63	74.68	3.05	2.85	93	2.60	85	--	4H	1W	
74.68	77.11	2.43	2.43	100	2.09	86	--	4H	1W	
77.11	79.25	2.14	1.96	92	1.91	89	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	82.30	3.05	2.98	98	2.47	81	--	4H	1W	
82.30	85.34	3.04	2.97	98	2.63	87	--	4H	1W	
85.34	88.39	3.05	2.93	96	2.70	89	--	4H	1W	
88.39	89.92	1.53	1.47	96	1.39	91	--	3H	1W	
89.92	92.96	3.04	3.04	100	1.44	47	--	4H	1W	
92.96	96.01	3.05	2.95	97	1.62	53	--	3H	1W	
96.01	99.06	3.05	2.99	98	2.39	78	--	3H	1W	
99.06	102.11	3.05	3.02	99	2.80	92	--	4H	1W	
102.11	105.16	3.05	3.05	100	2.79	91	--	4H	1W	
105.16	108.20	3.04	3.04	100	2.74	90	--	4H	1W	
108.20	111.25	3.05	3	98	2.70	89	--	4H	1W	
111.25	114.30	3.05	2.98	98	2.76	90	--	4H	1W	
114.30	117.35	3.05	3.05	100	2.93	96	--	4H	1W	
117.35	120.40	3.05	3.01	99	2.40	79	--	3H	1W	
120.40	123.44	3.04	3.03	100	2.98	98	--	3H	1W	
123.44	126.19	2.75	2.72	99	2.66	97	--	3H	1W	
126.19	129.24	3.05	3.05	100	2.80	92	--	4H	1W	
129.24	132.28	3.04	2.94	97	2.33	77	--	3H	1W	
132.28	134.11	1.83	1.77	97	1.70	93	--	3H	1W	

Magnetic Suscepatibility

KL -19-444

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	19.82	GRD	
3	6.265	GRD	
4	0.816	GRD	
5	0.459	GRD	
6	0.315	GRD	
7	0.812	GRD	
8	1.004	GRD	
9	0.66	GRD	
10	0.202	GRD	
11	0.225	GRD	
12	0.267	GRD	
13	0.757	GRD	
14	8.106	GRD	
15	16.85	GRD	
16	6.007	GRD	
17	0.366	GRD	
18	0.538	GRD	
19	8.831	GRD	
20	4.927	GRD	
21	0.397	GRD	
22	5.93	GRD	
23	9.866	GRD	
24	0.591	GRD	
25	0.338	GRD	
26	0.166	GRD	
26	0.166	GRD	
27	0.157	GRD	
28	0.665	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	5.836	GRD	
30	2.211	GRD	
31	1.207	GRD	
32	0.006	GRD	
32	0.006	GRD	
33	0.243	GRD	
34	2.592	GRD	
35	0.229	GRD	
36	0.122	GRD	
37	0.113	GRD	
38	0.112	GRD	
39	0.164	GRD	
40	0.145	GRD	
41	0.427	GRD	
42	0.825	GRD	
43	0.199	GRD	
44	0.326	GRD	
45	0.379	GRD	
45	0.379	GRD	
46	0.814	GRD	
47	1.384	GRD	
47	1.384	GRD	
48	0.237	GRD	
49	0.248	GRD	
50	2.222	GRD	
51	5.581	GRD	
52	3.013	GRD	
53	0.473	GRD	
54	1.672	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	0.549	GRD	
56	0.528	GRD	
57	0.441	GRD	
58	0.365	GRD	
59	9.531	GRD	
60	6.66	GRD	
61	11.06	GRD	
62	14.1	GRD	
63	12.29	GRD	
64	8.05	GRD	
65	3.408	GRD	
66	0.559	GRD	
67	0.158	GRD	
68	0.855	GRD	
68	0.855	GRD	
69	0.905	GRD	
70	0.672	GRD	
71	0.314	GRD	
71	0.314	GRD	
72	0.329	GRD	
73	8.388	GRD	
74	9.134	GRD	
75	7.901	GRD	
76	9.885	GRD	
77	9.086	GRD	
78	7.581	GRD	
79	10.55	GRD	
80	1.856	GRD	
81	10.28	GRD	
82	6.875	GRD	
83	0.454	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
84	0.251	GRD	
84	0.251	GRD	
85	0.57	GRD	
86	0.831	GRD	
87	8.232	GRD	
88	2.857	GRD	
89	0.523	GRD	
90	9.087	GRD	
91	12.51	GRD	
92	0.597	GRD	
93	21.92	GRD	
94	1.224	GRD	
95	0.588	GRD	
96	0.44	GRD	
97	0.408	GRD	
98	0.629	GRD	
99	0.386	GRD	
100	0.358	GRD	
101	0.503	GRD	
102	9.86	GRD	
103	5.443	GRD	
104	1.062	GRD	
105	11.74	GRD	
106	20.5	GRD	
107	0.621	GRD	
108	24.05	GRD	
109	15.43	GRD	
110	0.741	GRD	
111	0.474	GRD	
112	3.722	GRD	
113	0.577	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
114	13.48	GRD	
115	20.23	GRD	
116	10.33	GRD	
117	6.699	GRD	
118	0.978	QFP	
119	0.565	QFP	
120	0.344	QFP	
121	0.298	QFP	
122	0.313	QFP	
123	0.861	QFP	
124	0.94	QFP	
125	0.765	QFP	
126	1.552	QFP	
127	23.64	MAF	
128	0.739	GRD	
129	20.04	GRD	
130	4.826	GRD	
131	0.565	GRD	
132	0.332	GRD	
133	0.513	GRD	
134	0.835	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-444

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593421	☐	19-043	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593311	☐	19-037	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593433	☐	19-043	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593415	☐	19-043	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593396	☐	19-041	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593389	☐	19-041	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593374	☐	19-041	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593355	☐	19-038	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593340	☐	19-038	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593326	☐	19-038	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599173	☐	19-006	High grade	ME-16	☐	☐	☐
2.25	3.75	1.50	GRD	1.50	100	W593300	☐	19-037	low grade		☐	☐	☐
3.75	4.70	0.95	GRD	0.91	96	W593301	☐	19-037	low grade		☐	☐	☐
4.70	5.00	0.30	GRD	0.30	100	W593302	☐	19-037	low grade		☐	☐	☐
5.00	6.00	1.00	GRD	0.97	97	W593303	☐	19-037	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.42	95	W593304	☐	19-037	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.42	95	W593305	☐	19-037	low grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
7.50	9.00	1.50	GRD	1.50	100	W593306	☐	19-037	low grade		☐	☐	☐
9.00	10.38	1.38	GRD	1.35	98	W593307	☐	19-037	low grade		☐	☐	☐
10.38	11.38	1.00	GRD, GRD	1.00	100	W593308	☐	19-037	low grade		☐	☐	☐
11.38	12.39	1.01	GRD	1.00	99	W593309	☐	19-037	low grade		☐	☐	☐
12.39	13.21	0.82	GRD	0.72	88	W593310	☐	19-037	low grade		☐	☐	☐
13.21	14.71	1.50	GRD, GRD	1.46	97	W593312	☐	19-037	low grade		☐	☐	☐
14.71	16.07	1.36	GRD	1.32	97	W593313	☐	19-037	low grade		☐	☐	☐
16.07	17.07	1.00	GRD	0.98	98	W593314	☐	19-037	low grade		☐	☐	☐
17.07	18.07	1.00	GRD	1.00	100	W593315	☐	19-037	low grade		☐	☐	☐
18.07	18.50	0.43	GRD, GRD	0.42	98	W593316	☐	19-037	low grade		☐	☐	☐
18.50	19.50	1.00	GRD	1.00	100	W593317	☐	19-037	low grade		☐	☐	☐
19.50	20.40	0.90	GRD	0.82	91	W593318	☐	19-037	low grade		☐	☐	☐
20.40	21.30	0.90	GRD	0.85	94	W593319	☐	19-037	low grade		☐	☐	☐
21.30	22.80	1.50	GRD, GRD	1.22	81	W593320	☐	19-038	low grade		☐	☐	☐
22.80	24.15	1.35	GRD	1.20	89	W593321	☐	19-038	low grade		☐	☐	☐
24.15	24.58	0.43	GRD	0.40	93	W593322	☐	19-038	low grade		☐	☐	☐
24.58	25.00	0.42	GRD	0.40	95	W593323	☐	19-038	low grade		☐	☐	☐
25.00	25.91	0.91	GRD	0.90	99	W593325	☐	19-038	low grade		☐	☐	☐
25.91	27.41	1.50	GRD	1.42	95	W593327	☐	19-038	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
27.41	28.91	1.50	GRD	1.47	98	W593328	☐	19-038	low grade		☐	☐	☐
28.91	30.40	1.49	GRD	1.49	100	W593329	☐	19-038	low grade		☐	☐	☐
30.40	31.40	1.00	GRD	1.00	100	W593330	☐	19-038	low grade		☐	☐	☐
31.40	32.00	0.60	GRD	0.57	95	W593331	☐	19-038	low grade		☐	☐	☐
32.00	32.50	0.50	GRD, GRD	0.50	100	W593332	☐	19-038	low grade		☐	☐	☐
32.00	32.50	0.50	GRD, GRD	0.50	100	W593333	☐	19-038	low grade		☐	☑	☐
32.50	33.50	1.00	GRD, GRD	1.00	100	W593334	☐	19-038	low grade		☐	☐	☐
33.50	34.40	0.90	GRD, GRD	0.90	100	W593335	☐	19-038	low grade		☐	☐	☐
34.40	35.35	0.95	GRD	0.95	100	W593336	☐	19-038	low grade		☐	☐	☐
35.35	35.68	0.33	GRD, GRD	0.31	94	W593337	☐	19-038	low grade		☐	☐	☐
35.68	36.50	0.82	GRD, GRD	0.70	85	W593338	☐	19-038	low grade		☐	☐	☐
36.50	36.86	0.36	GRD	0.35	97	W593339	☐	19-038	low grade		☐	☐	☐
36.86	37.26	0.40	GRD, GRD	0.40	100	W599171	☐	19-006	High grade		☐	☐	☐
37.26	38.06	0.80	GRD, GRD	0.80	100	W593341	☐	19-038	low grade		☐	☐	☐
38.06	38.55	0.49	GRD	0.49	100	W593342	☐	19-038	low grade		☐	☐	☐
38.55	39.55	1.00	GRD, GRD	1.00	100	W593343	☐	19-038	low grade		☐	☐	☐
39.55	41.00	1.45	GRD	1.43	99	W593344	☐	19-038	low grade		☐	☐	☐
41.00	41.30	0.30	GRD	0.30	100	W593345	☐	19-038	low grade		☐	☐	☐
41.30	42.00	0.70	GRD	0.70	100	W593346	☐	19-038	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
41.30	42.00	0.70	GRD	0.70	100	W593347	☐	19-038	low grade		☐	☐	☑
42.00	43.40	1.40	GRD	1.38	99	W593348	☐	19-038	low grade		☐	☐	☐
43.40	44.20	0.80	GRD, GRD	0.80	100	W593349	☐	19-038	low grade		☐	☐	☐
44.20	44.50	0.30	GRD	0.27	90	W593350	☐	19-038	low grade		☐	☐	☐
44.50	45.00	0.50	GRD	0.50	100	W593351	☐	19-038	low grade		☐	☐	☐
45.00	45.70	0.70	GRD, GRD	0.70	100	W593352	☐	19-038	low grade		☐	☐	☐
45.70	46.00	0.30	GRD, GRD	0.29	97	W593353	☐	19-038	low grade		☐	☐	☐
46.00	47.00	1.00	GRD	1.00	100	W593354	☐	19-038	low grade		☐	☐	☐
47.00	48.50	1.50	GRD, GRD	1.50	100	W593356	☐	19-038	low grade		☐	☐	☐
48.50	50.00	1.50	GRD	1.50	100	W593357	☐	19-038	low grade		☐	☐	☐
50.00	51.50	1.50	GRD	1.50	100	W593358	☐	19-038	low grade		☐	☐	☐
51.50	52.60	1.10	GRD	1.07	97	W593359	☐	19-038	low grade		☐	☐	☐
52.60	52.90	0.30	GRD, GRD	0.30	100	W599172	☐	19-006	High grade		☐	☐	☐
52.90	53.90	1.00	GRD	1.00	100	W593360	☐	19-038	low grade		☐	☐	☐
53.90	55.40	1.50	GRD	1.48	99	W593361	☐	19-041	low grade		☐	☐	☐
55.40	56.90	1.50	GRD, GRD	1.50	100	W593362	☐	19-041	low grade		☐	☐	☐
56.90	58.40	1.50	GRD	1.49	99	W593363	☐	19-041	low grade		☐	☐	☐
58.40	59.90	1.50	GRD	1.50	100	W593364	☐	19-041	low grade		☐	☐	☐
59.90	61.40	1.50	GRD	1.48	99	W593365	☐	19-041	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
61.40	62.90	1.50	GRD	1.50	100	W593366	☐	19-041	low grade		☐	☐	☐
61.40	62.90	1.50	GRD	1.50	100	W593367	☐	19-041	low grade		☐	☐	☑
62.90	64.40	1.50	GRD	1.39	93	W593368	☐	19-041	low grade		☐	☐	☐
64.40	65.90	1.50	GRD	1.50	100	W593369	☐	19-041	low grade		☐	☐	☐
65.90	67.40	1.50	GRD	1.50	100	W593370	☐	19-041	low grade		☐	☐	☐
67.40	68.90	1.50	GRD	1.50	100	W593371	☐	19-041	low grade		☐	☐	☐
68.90	70.40	1.50	GRD, GRD	1.50	100	W593372	☐	19-041	low grade		☐	☐	☐
70.40	71.59	1.19	GRD	1.16	97	W593373	☐	19-041	low grade		☐	☐	☐
71.59	71.89	0.30	VEN, GRD	0.30	100	W599174	☐	19-006	High grade		☐	☐	☐
71.89	73.36	1.47	GRD	1.47	100	W593375	☐	19-041	low grade		☐	☐	☐
73.36	73.80	0.44	GRD	0.44	100	W593376	☐	19-041	low grade		☐	☐	☐
73.80	75.00	1.20	GRD, GRD	1.20	100	W593377	☐	19-041	low grade		☐	☐	☐
75.00	76.50	1.50	GRD	1.50	100	W593378	☐	19-041	low grade		☐	☐	☐
76.50	78.00	1.50	GRD	1.49	99	W593379	☐	19-041	low grade		☐	☐	☐
78.00	79.50	1.50	GRD	1.48	99	W593380	☐	19-041	low grade		☐	☐	☐
79.50	81.00	1.50	GRD	1.49	99	W593381	☐	19-041	low grade		☐	☐	☐
79.50	81.00	1.50	GRD	1.49	99	W593382	☐	19-041	low grade		☐	☑	☐
81.00	82.30	1.30	GRD	1.29	99	W593383	☐	19-041	low grade		☐	☐	☐
82.30	83.15	0.85	GRD, GRD	0.84	99	W593384	☐	19-041	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
83.15	83.65	0.50	GRD	0.49	98	W593385	☐	19-041	low grade		☐	☐	☐
83.65	84.56	0.91	GRD	0.90	99	W593386	☐	19-041	low grade		☐	☐	☐
84.56	84.92	0.36	GRD	0.35	97	W599181	☐	19-006	High grade		☐	☐	☐
84.92	85.92	1.00	GRD	1.00	100	W593387	☐	19-041	low grade		☐	☐	☐
85.92	86.42	0.50	GRD	0.48	96	W593388	☐	19-041	low grade		☐	☐	☐
86.42	87.92	1.50	GRD	1.50	100	W593390	☐	19-041	low grade		☐	☐	☐
87.92	88.97	1.05	GRD	1.03	98	W593391	☐	19-041	low grade		☐	☐	☐
88.97	89.27	0.30	GRD	0.30	100	W599175	☐	19-006	High grade		☐	☐	☐
89.27	90.27	1.00	GRD	1.00	100	W593392	☐	19-041	low grade		☐	☐	☐
90.27	91.16	0.89	GRD	0.89	100	W593393	☐	19-041	low grade		☐	☐	☐
91.16	92.66	1.50	GRD	1.50	100	W593394	☐	19-041	low grade		☐	☐	☐
92.66	94.16	1.50	GRD	1.50	100	W593395	☐	19-041	low grade		☐	☐	☐
94.16	95.66	1.50	GRD	1.50	100	W593397	☐	19-041	low grade		☐	☐	☐
95.66	96.57	0.91	GRD, GRD	0.90	99	W593398	☐	19-041	low grade		☐	☐	☐
96.57	96.90	0.33	GRD	0.32	97	W593399	☐	19-041	low grade		☐	☐	☐
96.90	97.46	0.56	GRD	0.55	98	W593400	☐	19-041	low grade		☐	☐	☐
97.46	98.00	0.54	GRD	0.53	98	W593401	☐	19-043	low grade		☐	☐	☐
98.00	98.30	0.30	GRD	0.30	100	W593402	☐	19-043	low grade		☐	☐	☐
98.30	99.08	0.78	GRD	0.77	99	W593403	☐	19-043	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
99.08	100.08	1.00	GRD	1.00	100	W593404	☐	19-043	low grade		☐	☐	☐
100.08	100.38	0.30	GRD	0.30	100	W593405	☐	19-043	low grade		☐	☐	☐
100.38	101.37	0.99	GRD	0.99	100	W593406	☐	19-043	low grade		☐	☐	☐
101.37	102.86	1.49	GRD	1.47	99	W593407	☐	19-043	low grade		☐	☐	☐
101.37	102.86	1.49	GRD	1.47	99	W593408	☐	19-043	low grade		☐	☑	☐
102.86	104.00	1.14	GRD	1.13	99	W593409	☐	19-043	low grade		☐	☐	☐
104.00	105.35	1.35	GRD	1.35	100	W593410	☐	19-043	low grade		☐	☐	☐
105.35	106.85	1.50	GRD, GRD	1.50	100	W593411	☐	19-043	low grade		☐	☐	☐
106.85	108.35	1.50	GRD	1.50	100	W593412	☐	19-043	low grade		☐	☐	☐
108.35	109.85	1.50	GRD	1.50	100	W593413	☐	19-043	low grade		☐	☐	☐
109.85	110.16	0.31	GRD, GRD	0.30	97	W593414	☐	19-043	low grade		☐	☐	☐
110.16	111.13	0.97	GRD	0.97	100	W593416	☐	19-043	low grade		☐	☐	☐
111.13	111.43	0.30	GRD	0.30	100	W599176	☐	19-006	High grade		☐	☐	☐
111.43	112.43	1.00	GRD	1.00	100	W593417	☐	19-043	low grade		☐	☐	☐
112.43	113.93	1.50	GRD	1.50	100	W593418	☐	19-043	low grade		☐	☐	☐
113.93	114.70	0.77	GRD	0.77	100	W593419	☐	19-043	low grade		☐	☐	☐
114.70	116.20	1.50	GRD	1.50	100	W593420	☐	19-043	low grade		☐	☐	☐
116.20	117.20	1.00	GRD	1.00	100	W593422	☐	19-043	low grade		☐	☐	☐
117.20	117.88	0.68	GRD, GRD	0.68	100	W593423	☐	19-043	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
117.88	118.94	1.06	QFP	1.00	94	W593424	☐	19-043	low grade		☐	☐	☐
118.94	119.26	0.32	QFP	0.31	97	W599177	☐	19-006	High grade		☐	☐	☐
118.94	119.26	0.32	QFP	0.31	97	W599178	☐	19-006	High grade		☐	☑	☐
119.26	120.40	1.14	QFP	1.13	99	W593425	☐	19-043	low grade		☐	☐	☐
120.40	121.19	0.79	QFP	0.79	100	W593426	☐	19-043	low grade		☐	☐	☐
120.40	121.19	0.79	QFP	0.79	100	W593427	☐	19-043	low grade		☐	☐	☑
121.19	122.12	0.93	QFP	0.90	97	W593428	☐	19-043	low grade		☐	☐	☐
122.12	122.57	0.45	QFP	0.43	96	W593429	☐	19-043	low grade		☐	☐	☐
122.57	122.87	0.30	QFP, GRD	0.30	100	W599179	☐	19-006	High grade		☐	☐	☐
122.87	123.20	0.33	QFP	0.30	91	W593430	☐	19-043	low grade		☐	☐	☐
123.20	124.65	1.45	QFP	1.45	100	W593431	☐	19-043	low grade		☐	☐	☐
124.65	126.15	1.50	QFP	1.50	100	W593432	☐	19-043	low grade		☐	☐	☐
126.15	127.30	1.15	QFP, MAF	1.12	97	W593434	☐	19-043	low grade		☐	☐	☐
127.30	128.40	1.10	GRD, MAF	1.10	100	W593435	☐	19-043	low grade		☐	☐	☐
128.40	129.40	1.00	GRD	1.00	100	W593436	☐	19-043	low grade		☐	☐	☐
129.40	129.70	0.30	GRD, VEN	0.30	100	W593437	☐	19-043	low grade		☐	☐	☐
129.70	130.55	0.85	GRD	0.83	98	W593438	☐	19-043	low grade		☐	☐	☐
130.55	130.88	0.33	GRD	0.33	100	W593439	☐	19-043	low grade		☐	☐	☐
130.88	131.79	0.91	GRD	0.90	99	W593440	☐	19-043	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
131.79	132.09	0.30	GRD	0.30	100	W593441	☐	19-044	low grade		☐	☐	☐
132.09	133.43	1.34	GRD	1.30	97	W593442	☐	19-044	low grade		☐	☐	☐
133.43	133.73	0.30	GRD	0.30	100	W593443	☐	19-044	low grade		☐	☐	☐
133.73	134.11	0.38	GRD	0.36	95	W593444	☐	19-044	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-038	W593326	0.00	0.00	0.30	570	☐	☐	☐	☑ ME-6	ME-6
19-038	W593340	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-038	W593355	0.00	0.00	0.26	540	☐	☐	☐	☑ ME-6	ME-6
19-006	W599173	0.00	0.00	1.55	180	☐	☐	☐	☑ ME-16	CDN ME-16
19-043	W593415	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-043	W593421	0.00	0.00	0.29	610	☐	☐	☐	☑ ME-6	STD ME-6
19-043	W593433	0.00	0.00	0.28	580	☐	☐	☐	☑ ME-6	ME - 6
19-037	W593311	0.00	0.00	0.28	570	☐	☐	☐	☑ ME-6	ME-6 STD
19-041	W593374	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-041	W593389	0.00	0.00	0.27	550	☐	☐	☐	☑ ME-6	ME-6 STD
19-041	W593396	0.00	0.00	0.27	620	☐	☐	☐	☑ ME-6	ME-6
19-037	W593300	2.25	3.75	0.01	2470	☐	☐	☐	☐	
19-037	W593301	3.75	4.70	0.01	4150	☐	☐	☐	☐	
19-037	W593302	4.70	5.00	0.02	2000	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-037	W593303	5.00	6.00	0.01	2080	☐	☐	☐	☐	
19-037	W593304	6.00	7.50	0.01	2360	☐	☐	☐	☐	
19-037	W593305	6.00	7.50	0.01	2270	☑	☐	☐	☐	1/4 udplicate
19-037	W593306	7.50	9.00	0.01	2480	☐	☐	☐	☐	
19-037	W593307	9.00	10.38	0.02	2790	☐	☐	☐	☐	
19-037	W593308	10.38	11.38	0.01	1530	☐	☐	☐	☐	
19-037	W593309	11.38	12.39	0.02	980	☐	☐	☐	☐	
19-037	W593310	12.39	13.21	0.48	490	☐	☐	☐	☐	
19-037	W593312	13.21	14.71	0.01	2260	☐	☐	☐	☐	
19-037	W593313	14.71	16.07	0.01	2410	☐	☐	☐	☐	
19-037	W593314	16.07	17.07	0.02	2380	☐	☐	☐	☐	
19-037	W593315	17.07	18.07	0.02	1740	☐	☐	☐	☐	
19-037	W593316	18.07	18.50	0.06	1340	☐	☐	☐	☐	
19-037	W593317	18.50	19.50	0.01	3190	☐	☐	☐	☐	
19-037	W593318	19.50	20.40	0.01	2320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-037	W593319	20.40	21.30	0.02	410	☐	☐	☐	☐	
19-038	W593320	21.30	22.80	0.01	2330	☐	☐	☐	☐	
19-038	W593321	22.80	24.15	0.01	2330	☐	☐	☐	☐	
19-038	W593322	24.15	24.58	0.01	2110	☐	☐	☐	☐	
19-038	W593323	24.58	25.00	0.08	490	☐	☐	☐	☐	
19-038	W593325	25.00	25.91	0.01	2660	☐	☐	☐	☐	
19-038	W593327	25.91	27.41	0.01	2330	☐	☐	☐	☐	
19-038	W593328	27.41	28.91	0.00	2300	☐	☐	☐	☐	
19-038	W593329	28.91	30.40	0.01	2290	☐	☐	☐	☐	
19-038	W593330	30.40	31.40	0.01	3490	☐	☐	☐	☐	
19-038	W593331	31.40	32.00	0.01	1900	☐	☐	☐	☐	
19-038	W593332	32.00	32.50	0.05	460	☐	☐	☐	☐	
19-038	W593333	32.00	32.50	0.05	230	☑	☐	☐	☐	1/4 duplicate
19-038	W593334	32.50	33.50	0.05	1960	☐	☐	☐	☐	
19-038	W593335	33.50	34.40	0.01	2110	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-038	W593336	34.40	35.35	0.04	2070	☐	☐	☐	☐	
19-038	W593337	35.35	35.68	0.08	110	☐	☐	☐	☐	
19-038	W593338	35.68	36.50	0.05	940	☐	☐	☐	☐	
19-038	W593339	36.50	36.86	0.28	330	☐	☐	☐	☐	
19-006	W599171	36.86	37.26	1.94	280	☐	☐	☐	☐	HIGH GRADE
19-038	W593341	37.26	38.06	0.04	1360	☐	☐	☐	☐	
19-038	W593342	38.06	38.55	0.17	190	☐	☐	☐	☐	
19-038	W593343	38.55	39.55	0.03	1350	☐	☐	☐	☐	
19-038	W593344	39.55	41.00	0.03	1410	☐	☐	☐	☐	
19-038	W593345	41.00	41.30	0.10	1550	☐	☐	☐	☐	
19-038	W593346	41.30	42.00	0.01	2200	☐	☐	☐	☐	
19-038	W593347	41.30	42.00	0.02	2220	☐	☑	☐	☐	coarse reject duplicate
19-038	W593348	42.00	43.40	0.56	1950	☐	☐	☐	☐	
19-038	W593349	43.40	44.20	0.02	2680	☐	☐	☐	☐	
19-038	W593350	44.20	44.50	0.42	130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-038	W593351	44.50	45.00	0.02	1190	☐	☐	☐	☐	
19-038	W593352	45.00	45.70	0.01	2460	☐	☐	☐	☐	
19-038	W593353	45.70	46.00	0.08	180	☐	☐	☐	☐	
19-038	W593354	46.00	47.00	0.03	1310	☐	☐	☐	☐	
19-038	W593356	47.00	48.50	0.01	1710	☐	☐	☐	☐	
19-038	W593357	48.50	50.00	0.01	2260	☐	☐	☐	☐	
19-038	W593358	50.00	51.50	0.00	2400	☐	☐	☐	☐	
19-038	W593359	51.50	52.60	0.00	2270	☐	☐	☐	☐	
19-006	W599172	52.60	52.90	1.04	110	☐	☐	☐	☐	HIGH GRADE
19-038	W593360	52.90	53.90	0.00	2250	☐	☐	☐	☐	
19-041	W593361	53.90	55.40	0.00	2280	☐	☐	☐	☐	
19-041	W593362	55.40	56.90	0.01	2730	☐	☐	☐	☐	
19-041	W593363	56.90	58.40	0.00	2120	☐	☐	☐	☐	
19-041	W593364	58.40	59.90	0.00	2250	☐	☐	☐	☐	
19-041	W593365	59.90	61.40	0.00	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-041	W593366	61.40	62.90	0.00	2090	☐	☐	☐	☐	
19-041	W593367	61.40	62.90	0.00	2020	☐	☑	☐	☐	coarse reject duplicate
19-041	W593368	62.90	64.40	0.00	2290	☐	☐	☐	☐	
19-041	W593369	64.40	65.90	0.00	2380	☐	☐	☐	☐	
19-041	W593370	65.90	67.40	0.00	2230	☐	☐	☐	☐	
19-041	W593371	67.40	68.90	0.02	2230	☐	☐	☐	☐	
19-041	W593372	68.90	70.40	0.01	1980	☐	☐	☐	☐	
19-041	W593373	70.40	71.59	0.03	1680	☐	☐	☐	☐	
19-006	W599174	71.59	71.89	0.15	830	☐	☐	☐	☐	HIGH GRADE
19-041	W593375	71.89	73.36	0.00	1790	☐	☐	☐	☐	
19-041	W593376	73.36	73.80	0.15	740	☐	☐	☐	☐	
19-041	W593377	73.80	75.00	0.01	2260	☐	☐	☐	☐	
19-041	W593378	75.00	76.50	0.01	2440	☐	☐	☐	☐	
19-041	W593379	76.50	78.00	0.00	2410	☐	☐	☐	☐	
19-041	W593380	78.00	79.50	0.00	2350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-041	W593381	79.50	81.00	0.00	2170	☐	☐	☐	☐	
19-041	W593382	79.50	81.00	0.00	2320	☑	☐	☐	☐	1/4 duplicate
19-041	W593383	81.00	82.30	0.01	2250	☐	☐	☐	☐	
19-041	W593384	82.30	83.15	0.00	2310	☐	☐	☐	☐	
19-041	W593385	83.15	83.65	0.13	520	☐	☐	☐	☐	
19-041	W593386	83.65	84.56	0.01	1980	☐	☐	☐	☐	
19-006	W599181	84.56	84.92	0.11	340	☐	☐	☐	☐	HIGH GRADE
19-041	W593387	84.92	85.92	0.04	1680	☐	☐	☐	☐	
19-041	W593388	85.92	86.42	0.09	940	☐	☐	☐	☐	
19-041	W593390	86.42	87.92	0.01	2380	☐	☐	☐	☐	
19-041	W593391	87.92	88.97	0.01	2060	☐	☐	☐	☐	
19-006	W599175	88.97	89.27	1.58	450	☐	☐	☐	☐	HIGH GRADE
19-041	W593392	89.27	90.27	0.00	2350	☐	☐	☐	☐	
19-041	W593393	90.27	91.16	0.00	2230	☐	☐	☐	☐	
19-041	W593394	91.16	92.66	0.00	2230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-041	W593395	92.66	94.16	0.00	2500	☐	☐	☐	☐	
19-041	W593397	94.16	95.66	0.01	2430	☐	☐	☐	☐	
19-041	W593398	95.66	96.57	0.07	1590	☐	☐	☐	☐	
19-041	W593399	96.57	96.90	1.84	130	☐	☐	☐	☐	
19-041	W593400	96.90	97.46	0.28	720	☐	☐	☐	☐	
19-043	W593401	97.46	98.00	0.04	810	☐	☐	☐	☐	
19-043	W593402	98.00	98.30	0.27	680	☐	☐	☐	☐	
19-043	W593403	98.30	99.08	0.02	2000	☐	☐	☐	☐	
19-043	W593404	99.08	100.08	0.00	2000	☐	☐	☐	☐	
19-043	W593405	100.08	100.38	0.10	270	☐	☐	☐	☐	
19-043	W593406	100.38	101.37	0.00	2420	☐	☐	☐	☐	
19-043	W593407	101.37	102.86	0.00	2350	☐	☐	☐	☐	
19-043	W593408	101.37	102.86	0.00	2380	☑	☐	☐	☐	1/4 dup
19-043	W593409	102.86	104.00	0.00	2310	☐	☐	☐	☐	
19-043	W593410	104.00	105.35	0.01	2240	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-043	W593411	105.35	106.85	0.00	2420	☐	☐	☐	☐	
19-043	W593412	106.85	108.35	0.00	2280	☐	☐	☐	☐	
19-043	W593413	108.35	109.85	0.00	2460	☐	☐	☐	☐	
19-043	W593414	109.85	110.16	0.06	1890	☐	☐	☐	☐	
19-043	W593416	110.16	111.13	0.06	2430	☐	☐	☐	☐	
19-006	W599176	111.13	111.43	0.54	250	☐	☐	☐	☐	HIGH GRADE
19-043	W593417	111.43	112.43	0.03	2210	☐	☐	☐	☐	
19-043	W593418	112.43	113.93	0.01	2570	☐	☐	☐	☐	
19-043	W593419	113.93	114.70	0.04	2180	☐	☐	☐	☐	
19-043	W593420	114.70	116.20	0.01	2410	☐	☐	☐	☐	
19-043	W593422	116.20	117.20	0.03	2400	☐	☐	☐	☐	
19-043	W593423	117.20	117.88	0.02	1870	☐	☐	☐	☐	
19-043	W593424	117.88	118.94	0.01	1350	☐	☐	☐	☐	
19-006	W599177	118.94	119.26	3.07	400	☐	☐	☐	☐	HIGH GRADE
19-006	W599178	118.94	119.26	1.19	630	☑	☐	☐	☐	1/4 duplicate

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-043	W593425	119.26	120.40	0.00	2320	☐	☐	☐	☐	
19-043	W593426	120.40	121.19	0.00	1760	☐	☐	☐	☐	
19-043	W593427	120.40	121.19	0.00	1790	☐	☑	☐	☐	coarse reject duplicate
19-043	W593428	121.19	122.12	0.00	1920	☐	☐	☐	☐	
19-043	W593429	122.12	122.57	0.00	10001	☐	☐	☐	☐	
19-006	W599179	122.57	122.87	0.59	690	☐	☐	☐	☐	HIGH GRADE
19-043	W593430	122.87	123.20	0.15	670	☐	☐	☐	☐	
19-043	W593431	123.20	124.65	0.03	930	☐	☐	☐	☐	
19-043	W593432	124.65	126.15	0.00	960	☐	☐	☐	☐	
19-043	W593434	126.15	127.30	0.00	2190	☐	☐	☐	☐	
19-043	W593435	127.30	128.40	0.03	2140	☐	☐	☐	☐	
19-043	W593436	128.40	129.40	0.01	2150	☐	☐	☐	☐	
19-043	W593437	129.40	129.70	0.24	1510	☐	☐	☐	☐	
19-043	W593438	129.70	130.55	0.00	2260	☐	☐	☐	☐	
19-043	W593439	130.55	130.88	0.09	510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-043	W593440	130.88	131.79	0.01	1390	☐	☐	☐	☐	
19-044	W593441	131.79	132.09	0.03	1580	☐	☐	☐	☐	
19-044	W593442	132.09	133.43	0.10	2300	☐	☐	☐	☐	
19-044	W593443	133.43	133.73	0.08	1230	☐	☐	☐	☐	
19-044	W593444	133.73	134.11	0.01	3140	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
4.77	4.81	VT	37	70	NUL	2	two small pyrite bearing veinlets			
								Py	1	DI
6.70	7.05	FT	42	20	NUL	1	set of prominent fractures that have clay alteration and oxdiation. Likely represents a fault surface			
9.35	10.38	FT	42	15	NUL	1	set of prominent fractures between 15-25 that have clay alteration and oxdiation. Likely represents a fault surface			
12.59	12.65	FT	42	10	NUL	1	sharp faulted contact between altered granodiorite above and faulted clay altered mineralized grd below			
13.00	13.01	VT	37	10	NUL	1	small 1 cm wide pyrite bearing quartz veinlet near a fault surface trending the same direction			
								Py	1	DI
18.07	18.10	FT	42	70	NUL	1	faulted surface with mineralized clay altered granodioirte for .4 m below this point. Altered granodiorite above for 1.5m			
20.80	20.90	ST		70	NUL	2	two small pyrite bearing harline frx with weak propylitic alteration haloes 2 cm on either side of them			
								Py	0.5	DI
23.24	23.28	FT	42	10	NUL	1	sharp contact clay gouged altered fault, with rubbly clay altered grd below and unaltered grd above			
25.70	25.83	ST		70	NUL	2	Small pyrite bearing quartz veinlets			
								Py	1	DI
25.91	25.92	FT	42	70	NUL	1	fault surface, sharp contact btween rubbly granodiorite below and competent grano above			
27.50	27.51	FT	42	75	NUL	1	lower fault contact, end of rubbly granodiorite interval			
32.11	32.13	VT	37	70	NUL	1	small pyrite bearing quartz veinlet			
								Py	1	DI
32.16	32.18	VT	37	70	NUL	1	small pyrite bearing quartz veinlet			
32.99	33.00	VT	37	15	NUL	1	small pyrite bearing quartz veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
33.15	33.50	ST		80	NUL	2	set of two small pyrite bearing quartz veinlet			
35.45	35.48	VT	37	80	NUL	1	small sooty grey clay altered pyrite bearing quartz veinlet			
36.73	36.83	VN	37	70	NUL	1	10 cm wide quartz carbonate vein containing trace dissemianted pyrite			
								Py	1	DI
37.00	37.10	VN	37	70	NUL	1	sooty grey clay altered quartz carbonate vein with lots of disseminated pyrite			
								Py	5	DI
38.05	38.55	FT	42	40	NUL	1	faulted clay gouged, brecciated altered granodiorite			
41.03	41.08	VN	37	80	NUL	1	small quartz cabonate altered granodiorite with weak trace pyrite			
								Py	0.01	DI
42.00	42.05	FT	42	20	NUL	1	clay rich faulted gouged horizon in moderately clay altered granodiorite			
43.40	45.00	FT	42	40	NUL	1	clay rich, faulted, gougy, brecciated granodiorite			
45.70	45.90	ST		40	NUL	3	set of 3 fractures with weak quartz veining along them and trace blebby dissemianted pyrite			
								Py	0.5	DI
45.95	46.40	ST		80	NUL	2	small pyrite bearing quartz veinlets			
								Py	0.5	DI
48.08	48.53	ST		70	NUL	2	small pyrite bearing quartz veinlets			
								Py	0.2	DI
52.74	52.83	VN	37	70	NUL	1	pyrite and galena bearing quartz carbonate clay altered veinlet			
								Py	2	DI
								Gn	0.25	DI
54.60	54.65	FT	42	40	NUL	1	small faulteed fracture preceding faulted rubbly granodiorite to 56.39m			
71.59	71.69	VN	37	70	NUL	1	quartz carbonate vein with disseminated blebby patches of pyrite and galena			
								Py	2	DI
								Gn	1	DI
73.16	73.28	DY	37	60	NUL	1	fine grained pinkish brown aplite dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
73.50	73.65	ST		70	NUL	2	small pyrite bearing quartz veinlet			
								Py	1	DI
82.90	84.00	ST		70	NUL	5	small pyrite bearing quartz veinlets			
								Py	0.5	DI
84.56	84.76	ST		80	NUL	3	set of small pyrite bearing quartz veinlets			
								Py	1	DI
84.76	84.79	VN	37	75	NUL	1	small quartz carbonate veinlet with sphalerite and pyrite			
								Sp	1	DI
								Py	1	DI
89.07	89.11	VN	37	70	NUL	1	small polymetallic quart vein with galena and sphalerite			
								As	0.5	DI
								Gn	0.5	DI
								Sp	0.5	DI
96.60	96.67	VN	37	60	NUL	1	small gouged clay altered quartz vein with banded dissemianted pyrite			
								Py	1	DI
97.21	97.22	FT	42	25	NUL	1	faulted contact cbetween intenseley clay altered grd above and argillic altered grd below			
97.46	98.30	ST		80	NUL	3	small clay altered envelope bounding a set of three separate 1 cm pyrite bearing quartz veins			
								Py	1	DI
100.15	100.18	VN	37	75	NUL	1	small pyrite bearing quartz vein			
								Py	1	DI
110.16	110.60	ST		60	NUL	3	set of 3 small carbonate (rhodochrosite) stringer veinlets			
111.26	111.32	VN	37	65	NUL	1	polymetallic quartz vein containing pyrite, galena +- arsenopyrite			
								Py	0.5	DI
								Sp	0.5	DI
								As	0.5	DI
								Gn	0.5	DI
115.90	115.91	VT	37	70	NUL	1	small pyrite bearing quartz veinlet			
								Py	0.1	DI
116.81	116.82	VT	37	70	NUL	1	small pyrite bearing quartz veinlet			
117.87	118.43	DY	37	80	NUL	1	small mafic dyke; magnetic			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
118.43	119.06	DY	37	85	NUL	1	QFP dyke			
119.06	119.15	VN	37	85	NUL	1	polykmetallic quartz vein with galena, sphalerite, pyrite +- arsenopyrite			
								Sp	0.25	DI
								Py	1	DI
								Gn	0.5	DI
								As	0.25	DI
119.15	127.19	DY	37	75	NUL	1	QFP dyke			
123.15	123.16	VT	37	70	NUL	1	small pyrite, galena, sphalerite bearing veinlet			
123.16	126.17	DY	37	90	NUL	1	QFP dyke			
126.17	127.40	DY	37	90	NUL	1	mafic dyke; magnetic			
127.19	127.57	DY	37	80	NUL	1	heavily clay altered, carbonate, and silicified dyke, light grey			
127.71	127.75	VN	37	70	NUL	1	small pyrite, galena, sphal +- arseno bearing quartz carbonate vein			
								Sp	0.5	DI
								Gn	0.5	DI
								As	0.5	DI
								Py	0.5	DI
129.40	129.42	VT	37	30	NUL	1	small pyrit bearing quartz veinlet			
131.86	131.90	VN	37	70	NUL	1	polymetallic vein with pyrite, galena			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382842	6889347	1461.893	132.59

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-445

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: Sep 12 - Sep 13, 2019

Geology Logged By: K. Willms

SURVEY			
Depth (m)	Azimuth	Dip	Method
12	37.96	-49.7	Reflex
132	39.66	-49	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.21	1.21	OVB
1.21	11.5	10.29	GRD
11.5	13.31	1.81	GRD
13.31	13.65	0.34	GRD
13.65	15	1.35	GRD
15	20.72	5.72	GRD
20.72	22.1	1.38	GRD
22.1	22.7	0.6	GRD
22.7	23.3	0.6	GRD
23.3	25.9	2.6	GRD
25.9	26	0.1	GRD
26	30	4	GRD
30	30.67	0.67	GRD
30.67	31	0.33	GRD
31	34.18	3.18	GRD
34.18	36	1.82	GRD

SAMPLES	
Numbers:	W593445 to W593588, W599180, W599182 to W599183, W599186
Total:	148
Batch:	006, 044, 045, 046, 048
Certificates:	WH19242472, WH19245860, WH19245865, WH19250393, WH19254134

COMMENTS

36	37.4	1.4	GRD
37.4	39.01	1.61	GRD
39.01	40.1	1.09	GRD
40.1	41	0.9	GRD
41	45.75	4.75	GRD
45.75	49.66	3.91	GRD
49.66	50.9	1.24	GRD
50.9	51.62	0.72	GRD
51.62	65.42	13.8	GRD
65.42	66.4	0.98	GRD
66.4	66.69	0.29	GRD
66.69	66.83	0.14	VEN
66.83	68.63	1.8	GRD
68.63	69.6	0.97	APL
69.6	71.74	2.14	GRD
71.74	72.5	0.76	GRD
72.5	79	6.5	GRD
79	80	1	GRD
80	93.81	13.81	GRD
93.81	94.1	0.29	MAF
94.1	94.97	0.87	GRD
94.97	95.3	0.33	GRD
95.3	95.9	0.6	GRD
95.9	96.19	0.29	GRD
96.19	97.05	0.86	GRD
97.05	97.85	0.8	GRD
97.85	100.58	2.73	GRD
100.58	102	1.42	GRD
102	104	2	GRD
104	107.43	3.43	GRD
107.43	108.43	1	GRD
108.43	108.84	0.41	VEN

108.84	111	2.16	GRD
111	112.43	1.43	GRD
112.43	112.5	0.07	APL
112.5	115	2.5	GRD
115	115.39	0.39	GRD
115.39	115.58	0.19	VEN
115.58	115.71	0.13	GRD
115.71	117	1.29	GRD
117	119.2	2.2	GRD
119.2	119.85	0.65	GRD
119.85	120.04	0.19	VEN
120.04	120.7	0.66	GRD
120.7	121.2	0.5	GRD
121.2	124.9	3.7	GRD
124.9	125.03	0.13	GRD
125.03	126.2	1.17	GRD
126.2	129.07	2.87	GRD
129.07	129.43	0.36	VEN
129.43	130.3	0.87	GRD
130.3	132.59	2.29	GRD

Box Log

KL -19-445

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.21	5.5
2	5.5	9.64
3	9.64	14.03
4	14.03	18.44
5	18.44	22.88
6	22.88	27.17
7	27.17	31.67
8	31.67	36.06
9	36.06	39.78
10	39.78	44
11	44	48.22
12	48.22	52.53
13	52.53	56.89
14	56.89	61.12
15	61.12	65.4
16	65.4	70.04
17	70.04	74.48
18	74.48	78.59
19	78.59	82.83
20	82.83	87.4
21	87.4	91.66
22	91.66	95.73
23	95.73	100.04
24	100.04	104.23
25	104.23	108.7
26	108.7	113.22
27	113.22	117.5
28	117.5	121.92
29	121.92	126.31
30	126.31	130.64
31	130.64	132.59

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-445									
	18.42	13	NTW	GRD	876	617.7	2.38	3.4	
	63	12.5	NTW	GRD	895.8	614.7	2.53	3.2	
	108.43	13	NTW	VEN	1060.4	824.6	2.88	4.5	
	108.43	13	NTW	GRD	1060.4	824.6	2.88	4.5	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.21	1.21	OVB	--	overburden							
1.21	11.50	10.29	GRD	MG	medium grained, unaltered, medium grey granodiorite							
						MD	GY					
11.50	13.31	1.81	GRD	MG	medium grained, light whitish grey to greenish grey weakly argillic altered granodiorite (mostly confined to fracture surfaces) with a trace propylitic overprint.							
						MD	GY		BLE	1I		
						LT	BF		ARG	1I		
						LT	WH		PRO	1I		
						LT	GN		OXI	1I		
13.31	13.65	0.34	GRD	MG	medium grained weak to moderate propylitic altered granodiorite with one small 1 cm pyrie beraing quartz vein							
						MD	GY					
						MD	GN		PRO	2I	Py	0.5
13.65	15.00	1.35	GRD	MG	mediu grained medium grey unaltered granodiorite							
						MD	GY					
15.00	20.72	5.72	GRD	MG	medium grained, mediu whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Patch pyrite bearing quartz veinlets occur throughout interval and are highlighted in secondary structure							
						MD	GN		PRO	2I		
						MD	GY					
						LT	WH		ARG	1I		
20.72	22.10	1.38	GRD	MG	unaltered granodiorite							
						MD	GY					
22.10	22.70	0.60	GRD	MG	medium grained, weak to moderately propylitic altered granodiorite with 4 pyrite bearing quartz veinlets							
						MD	GN		PRO	3I	Py	1
						MD	GY		OXI	1I		
									ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
22.70	23.30	0.60	GRD	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint. This interval contains 6 hairline stringer veinlets that are pyrite bearing.							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	2I		
23.30	25.90	2.60	GRD	MG	unaltered granodiorite							
						MD	GY					
25.90	26.00	0.10	GRD	MG	medium to fine grained moderately propylitic altred granodiorite with two 1 cm wide pyrite baring quartz veinlets							
						MD	GY		PRO	2I	Py	0.5
						MD	GN					
26.00	30.00	4.00	GRD	MG	unaltered granodiorite							
						MD	GY					
30.00	30.67	0.67	GRD	MG	weak to moderate patchy argillic altered granodiorite with a weak to moderate propylitic overprint and two small pyrite baring quartz veinlets.							
						MD	GN		PRO	2I	Py	0.5
						MD	GY					
30.67	31.00	0.33	GRD	MG	intensely clay altered brecciated granodiorite with a clay rich matrix							
						MD	GY		CLY	4I		
						LT	BN					
31.00	34.18	3.18	GRD	MG	patch medium brown to patchy whitish grey, weakly argillic altered granodiorite. Clay alteration and oxidation confined to fracture surfaces. Weak hairline quartz carbonate veining persisten throughout interval.							
						MD	GY		CLY	3I		
						MD	BN		ARG	2I		
						LT	BN					
						LT	WH					
34.18	36.00	1.82	GRD	MG	medium grained bleached, oxidized, strongly clay altered, faulted granodiorite							
						MD	BN		CLY	4I		
						LT	WH		BLE	2I		
						LT	BF		OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.00	37.40	1.40	GRD	MG	unaltered granodiorite							
						MD	GY					
37.40	39.01	1.61	GRD	MG	medium grained medium grey to buff greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidatino on fracture surfaes							
						MD	GY		ARG	2I		
						MD	GN		OXI	1I		
						LT	BN		PRO	2I		
39.01	40.10	1.09	GRD	MG	medium grey to greenish grey, oxidized, rubbly to gravely faulted granodiorite. Strong clay alteration							
						MD	GN					
						MD	GY					
						LT	BN		CLY	4I		
40.10	41.00	0.90	GRD	MG	medium grained, weakly argillic altered granodiorite with weak quartz veining barren of sulphides							
						MD	GY		ARG	1I		
						LT	WH					
						LT	GN					
41.00	45.75	4.75	GRD	MG	unaltered granodiorite							
						MD	GY					
45.75	49.66	3.91	GRD	MG	medium grained, medium green with whitish patches, trace argillic altered granodiorite with a moderate patchy pervasive propylitic alteration overprint.							
						MD	GN		PRO	3I		
						MD	GY					
						LT	WH		ARG	1I		
49.66	50.90	1.24	GRD	MG	unaltered granodiorite							
						MD	GY					
50.90	51.62	0.72	GRD	MG	medium grained, greenish grey weakly argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN		ARG	1I		
						MD	GY		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.62	55.30	3.68	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets							
						MD	GY					
55.30	55.40	0.10	GRD	MG	weakly propylitic altered granodiorite							
55.40	59.29	3.89	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets							
59.29	59.47	0.18	GRD	MG	trace propylitic altered granodiorite							
59.47	65.42	5.95	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets							
65.42	66.40	0.98	GRD	MG	unaltere granodiorite							
						MD	GY					
66.40	66.69	0.29	GRD	MG	medium grained weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
66.69	66.83	0.14	VEN	FG	small quartz carbonate vein contianing disseminated pyrite, trace galena, and possibly trace arsenopyrite							
						MD	GY					
						LT	WH				As	0.5
						LT	BF				Py	1
						DK	GY		SIL	5I	Gn	1
66.83	68.63	1.80	GRD	MG	medium grained, moderately silicifeid and porpylitic altered granodiorite							
						MD	GY		SIL	2I		
						MD	GN		PRO	3I		
68.63	69.60	0.97	APL	FG	fine-grained very siliceous pinkish brown aplite dyke with a sharp upper contact and a gradational lower contact							
						MD	BN		SIL	3I		
						MD	BF					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK					
69.60	71.74	2.14	GRD	MG	patchy medium greenish grey to medium grey weak to moderately silicified granodiorite with weak to moderate propylitic alteration							
						MD	GN		SIL	3I		
						MD	GY		PRO	3I		
71.74	72.50	0.76	GRD	MG	moderate argillic altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
72.50	79.00	6.50	GRD	MG	unaltered granodiorite							
						MD	GY					
79.00	80.00	1.00	GRD	MG	unaltered granodiorite with a hematite and chlorite stained 1.5 cm wide fracture running 10 TCA							
						MD	GY					
						LT	BN					
						LT	GN					
80.00	93.81	13.81	GRD	MG	unaltered granodiorite							
						MD	GY					
93.81	94.10	0.29	MAF	FG	fine grained dark green to medium green mafic dyke with weak pyrite along margins, at a low angle to core axis							
						MD	GN					
						MD	GY					
						LT	GN					
94.10	94.97	0.87	GRD	MG	unaltered granodiorite							
						MD	GY					
94.97	95.30	0.33	GRD	MG	faulted, oxidized, hematite stained granodiorite with weak clay gouge developed							
						MD	GN					
						LT	RD					
						LT	GN					
95.30	95.90	0.60	GRD	MG	unaltered granodiorite							
						MD	GY					
95.90	96.19	0.29	GRD	MG	medium grained intensely clay altered faulted granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.19	97.05	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
97.05	97.85	0.80	GRD	MG	medium grained, medium browish grey, oxidized, bleached, altered granodiorite with moderate clay alteration. Possibly faulted							
						MD	BN					
						LT	GY					
						LT	GN		CLY	4I		
97.85	100.58	2.73	GRD	MG	medium grained, weak to trace propylitic altered granodiorite with a weak argillic alteration overprint							
						MD	GN		PRO	1I		
						MD	GY					
						LT	WH		ARG	2I		
100.58	102.00	1.42	GRD	MG	unaltered granodiorite							
						MD	GY					
102.00	104.00	2.00	GRD	MG	medium grained, medium greenish grey weakly propylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN					
104.00	107.43	3.43	GRD	MG	medium grained medium grey unaltered granodiorite with weak clay alteration on fractures							
						MD	GY					
107.43	108.43	1.00	GRD	MG	medium grained, weak argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
108.43	108.84	0.41	VEN	FG	quartz vein with two bull white, medium grained glassy 1cm wide quartz veins on both upper and lower margins. Inside the two cm-white glassy white bull quartz veins is semi-massive sulfide mineralization, with patch blebs of pyrite and arsenopyrite, with weak blebby bands of galena							
						MD	GY		SIL	5I	Py	5
						LT	WH				As	2
108.84	111.00	2.16	GRD	MG	medium grained weak argillic alteration in granodiorite with a trace propylitic overprint							
						MD	GY		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						LT	WH		ARG	2I		
111.00	112.43	1.43	GRD	MG	unaltered granodiorite							
						MD	GY					
112.43	112.50	0.07	APL	FG	fine grained dark greyish green aplite dyke							
						MD	GY					
						DK	GN					
112.50	115.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
115.00	115.39	0.39	GRD	MG	medium grained trace propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
115.39	115.58	0.19	VEN	MG	quartz carbonate vein , weakly brecciated with dissemianted patch blebs of pyrite.							
						MD	GY				Py	1
						LT	WH				Py	1
115.58	115.71	0.13	GRD	MG	intensely clay altered granodiorite							
						MD	GY		CLY	3I		
						LT	WH		ARG	3I		
115.71	117.00	1.29	GRD	MG	medium grained, weak to moderate argillic alteration with a trace propylitic overprint							
						MD	GY		ARG	2I		
						LT	GN		PRO	1I		
						LT	WH					
117.00	119.20	2.20	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
119.20	119.85	0.65	GRD	MG	medium grained, weak to moderate argillic altered granodiorite.							
						MD	GY		ARG	3I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
119.85	120.04	0.19	VEN	MG	fine grained, dark grey with weak orange mm-scale bands throughout interval, with one 4 cm band of rhodochrosite within. Darker bands of vein contain disseminated blebby pyrite, small mm-scale orange fractures throughout vein.							
						MD	GY					
						LT	BN					
						LT	WH		OXI	1I		
						DK	GY		SIL	4I	Py	0.5
120.04	120.70	0.66	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with trace disseminated pyrite							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
120.70	121.20	0.50	GRD	MG	medium grained, weakly silicified and propylitic altered granodiorite with disseminated pyrite within groundmass							
						MD	GY		SIL	1I	Py	0.5
						MD	GN		PRO	3I		
121.20	124.90	3.70	GRD	MG	moderately propylitic altered medium greenish grey to grey granodiorite, with set of carbonte veinlets eveny spaced throughout interval							
						MD	GN					
						MD	GY					
124.90	125.03	0.13	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinets and disseminated pyrite within groundmass							
						MD	GN		ARG	1I	Py	1
						MD	GY		PRO	2I		
125.03	126.20	1.17	GRD	MG	medium grained, medium grey unaltered granodiorite							
						MD	GY					
126.20	129.07	2.87	GRD	MG	medium grained meidum green to grey weakly argillic altered granodiorite with a moderate propylitic overprint.							
						MD	GY		ARG	1I		
						MD	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
129.07	129.43	0.36	VEN	MG	medium grained, creamy white to brownish light grey, quartz carbonate breccia with open-space vuggy textures and colloform banding, along with a sporadically brecciated quartz rich section in the middle of the vein. NO visible sulfides present in the vein, but its brecciated nature and textures suggest epithermal origin							
						MD	OR					
						MD	WH					
						LT	CR		SIL	4I		
						LT	BN					
129.43	130.30	0.87	GRD	MG	medium grained moderately argillic altered granodiorite							
						MD	GY		ARG	2I		
						MD	WH					
130.30	132.59	2.29	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.21	1.21	OVB	OVB	--	overburden
1.21	11.50	10.29	GRD	GRD	MG	medium grained, unaltered, medium grey granodiorite
11.50	13.31	1.81	GRD	GRDA	MG	medium grained, light whitish grey to greenish grey weakly argillic altered granodiorite (mostly confined to fracture surfaces) with a trace propylitic overprint.
13.31	13.65	0.34	GRD	GRD	MG	medium grained weak to moderate propylitic altered granodiorite with one small 1 cm pyrie beraing quartz vein
13.65	15.00	1.35	GRD	GRD	MG	mediu grained medium grey unaltered granodiorite
15.00	20.72	5.72	GRD	GRDA	MG	medium grained, mediu whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Patch pyrite bearing quartz veinlets occur throughout interval and are highlighted in secondary structure
20.72	22.10	1.38	GRD	GRD	MG	unaltered granodiorite
22.10	22.70	0.60	GRD	GRDM	MG	medium grained, weak to moderately propylitic altered granodiorite with 4 pyrite bearing quartz veinlets
22.70	23.30	0.60	GRD	GRDM	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint. This interval contains 6 hairline stringer veinlets that are pyrite bearing.
23.30	25.90	2.60	GRD	GRD	MG	unaltered granodiorite
25.90	26.00	0.10	GRD	GRDM	MG	medium to fine grained moderately propylitic altred granodiorite with two 1 cm wide pyrite baring quartz veinlets
26.00	30.00	4.00	GRD	GRD	MG	unaltered granodiorite
30.00	30.67	0.67	GRD	GRDM	MG	weak to moderate patchy argillic altered granodiorite with a weak to moderate propylitic overprint and two small pyrite baring quartz veinlets.
30.67	31.00	0.33	GRD	GRDF	MG	intensely clay altered brecciated granodiorite with a clay rich matrix
31.00	34.18	3.18	GRD	GRDA	MG	patch medium brown to patchy whitish grey, weakly argillic altered granodiorite. Clay alteration and oxidation confined to fracture surfaces. Weak hairline quartz carbonate veining persisten throughout interval.
34.18	36.00	1.82	GRD	GRDF	MG	medium grained bleached, oxidized, strongly clay altered, faulted granodiorite
36.00	37.40	1.40	GRD	GRD	MG	unaltered granodiorite
37.40	39.01	1.61	GRD	GRDA	MG	medium grained medium grey to buff greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidatino on fracture surfaes

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
39.01	40.10	1.09	GRD	GRDF	MG	medium grey to greenish grey, oxidized, rubbly to gravely faulted granodiorite. Strong clay alteration
40.10	41.00	0.90	GRD	GRDA	MG	medium grained, weakly argillic altered granodiorite with weak quartz veining barren of sulphides
41.00	45.75	4.75	GRD	GRD	MG	unaltered granodiorite
45.75	49.66	3.91	GRD	GRDA	MG	medium grained, medium green with whitish patches, trace argillic altered granodiorite with a moderate patchy pervasive propylitic alteration overprint.
49.66	50.90	1.24	GRD	GRD	MG	unaltered granodiorite
50.90	51.62	0.72	GRD	GRDA	MG	medium grained, greenish grey weakly argillic altered granodiorite with a weak to moderate propylitic overprint
51.62	55.30	3.68	GRD	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets
55.30	55.40	0.10	GRD	GRD	MG	weakly propylitic altered granodiorite
55.40	59.29	3.89	GRD	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets
59.29	59.47	0.18	GRD	GRD	MG	trace propylitic altered granodiorite
59.47	65.42	5.95	GRD	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets
65.42	66.40	0.98	GRD	GRD	MG	unaltere granodiorite
66.40	66.69	0.29	GRD	GRDA	MG	medium grained weakly propylitic altered granodiorite
66.69	66.83	0.14	VEN	VEIN	FG	small quartz carbonate vein contianing disseminated pyrite, trace galena, and possibly trace arsenopyrite
66.83	68.63	1.80	GRD	GRDA	MG	medium grained, moderately silicifeid and porpylitic altered granodiorite
68.63	69.60	0.97	APL	DYK	FG	fine-grained very siliceous pinkish brown aplite dyke with a sharp upper contact and a gradational lower contact
69.60	71.74	2.14	GRD	GRDA	MG	patchy medium greenish grey to medium grey weak to moderately silicified granodiorite with weak to moderate propylitic alteration
71.74	72.50	0.76	GRD	GRDA	MG	moderate argillic altered granodiorite
72.50	79.00	6.50	GRD	GRD	MG	unaltered granodiorite
79.00	80.00	1.00	GRD	GRDF	MG	unaltered granodiorite with a hematite and chlorite stained 1.5 cm wide fracture running 10 TCA
80.00	93.81	13.81	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
93.81	94.10	0.29	MAF	DYK	FG	fine grained dark green to medium green mafic dyke with weak pyrite along margins, at a low angle to core axis
94.10	94.97	0.87	GRD	GRD	MG	unaltered granodiorite
94.97	95.30	0.33	GRD	GRDF	MG	faulted, oxidized, hematite stained granodiorite with weak clay gouge developed
95.30	95.90	0.60	GRD	GRD	MG	unaltered granodiorite
95.90	96.19	0.29	GRD	GRDF	MG	medium grained intensely clay altered faulted granodiorite
96.19	97.05	0.86	GRD	GRD	MG	unaltered granodiorite
97.05	97.85	0.80	GRD	GRDF	MG	medium grained, medium browish grey, oxidized, bleached, altered granodiorite with moderate clay alteration. Possibly faulted
97.85	100.58	2.73	GRD	GRDA	MG	medium grained, weak to trace propylitic altered granodiorite with a weak argillic alteration overprint
100.58	102.00	1.42	GRD	GRD	MG	unaltered granodiorite
102.00	104.00	2.00	GRD	GRDA	MG	medium grained, medium greenish grey weakly propylitic altered granodiorite
104.00	107.43	3.43	GRD	GRD	MG	medium grained medium grey unaltered granodiorite with weak clay alteration on fractures
107.43	108.43	1.00	GRD	GRDA	MG	medium grained, weak argillic altered granodiorite with a weak propylitic overprint
108.43	108.84	0.41	VEN	VEIN	FG	quartz vein with two bull white, medium grained glassy 1cm wide quartz veins on both upper and lower margins. Inside the two cm-white glassy white bull quartz veins is semi-massive sulfide mineralization, with patch blebs of pyrite and arsenopyrite, with weak blebby bands of galena
108.84	111.00	2.16	GRD	GRDA	MG	medium grained weak argillic alteration in granodiorite with a trace propylitic overprint
111.00	112.43	1.43	GRD	GRD	MG	unaltered granodiorite
112.43	112.50	0.07	APL	DYK	FG	fine grained dark greyish green aplite dyke
112.50	115.00	2.50	GRD	GRD	MG	unaltered granodiorite
115.00	115.39	0.39	GRD	GRDA	MG	medium grained trace propylitic altered granodiorite
115.39	115.58	0.19	VEN	VEIN	MG	quartz carbonate vein , weakly brecciated with dissemianted patch blebs of pyrite.
115.58	115.71	0.13	GRD	GRDA	MG	intensely clay altered granodiorite
115.71	117.00	1.29	GRD	GRDA	MG	medium grained, weak to moderate argillic alteration with a trace propylitic overprint

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
117.00	119.20	2.20	GRD	GRD	MG	medium grained, unaltered granodiorite
119.20	119.85	0.65	GRD	GRDA	MG	medium grained, weak to moderate argillic altered granodiorite.
119.85	120.04	0.19	VEN	VEIN	MG	fine grained, dark grey with weak orange mm-scale bands throughout interval, with one 4 cm band of rhodochrosite within. Darker bands of vein contain disseminated blebby pyrite, small mm-scale orange fractures throughout vein.
120.04	120.70	0.66	GRD	GRDA	MG	medium grained, weak to moderate propylitic altered granodiorite with trace disseminated pyrite
120.70	121.20	0.50	GRD	GRDM	MG	medium grained, weakly silicified and propylitic altered granodiorite with disseminated pyrite within groundmass
121.20	124.90	3.70	GRD	GRDA	MG	moderately propylitic altered medium greenish grey to grey granodiorite, with set of carbonte veinlets eveny spaced throughout interval
124.90	125.03	0.13	GRD	GRDM	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinets and disseminated pyrite within groundmass
125.03	126.20	1.17	GRD	GRD	MG	medium grained, medium grey unaltered granodiorite
126.20	129.07	2.87	GRD	GRDA	MG	medium grained meidum green to grey weakly argillic altered granodiorite with a moderate propylitic overprint.
129.07	129.43	0.36	VEN	VEIN	MG	medium grained, creamy white to brownish light grey, quartz carbonate breccia with open-space vuggy textures and colloform banding, along with a sporadically brecciated quartz rich section in the middle of the vein. NO visible sulfides present in the vein, but its brecciated nature and textures suggest epithermal origin
129.43	130.30	0.87	GRD	GRDA	MG	medium grained moderately argillic altered granodiorite
130.30	132.59	2.29	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.21	1.21	OVB	--	overburden							
1.21	11.50	10.29	GRD	MG	medium grained, unaltered, medium grey granodiorite							
						MD	GY					
11.50	13.31	1.81	GRD	MG	medium grained, light whitish grey to greenish grey weakly argillic altered granodiorite (mostly confined to fracture surfaces) with a trace propylitic overprint.							
						LT	GN		PRO	1I		
						LT	WH		OXI	1I		
						LT	BF		ARG	1I		
						MD	GY		BLE	1I		
13.31	13.65	0.34	GRD	MG	medium grained weak to moderate propylitic altered granodiorite with one small 1 cm pyrie beraing quartz vein							
						MD	GN					
						MD	GY		PRO	2I	Py	0.5
13.65	15.00	1.35	GRD	MG	mediu grained medium grey unaltered granodiorite							
						MD	GY					
15.00	20.72	5.72	GRD	MG	medium grained, mediu whitish grey to greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Patch pyrite bearing quartz veinlets occur throughout interval and are highlighted in secondary structure							
						MD	GN		PRO	2I		
						MD	GY		ARG	1I		
						LT	WH					
20.72	22.10	1.38	GRD	MG	unaltered granodiorite							
						MD	GY					
22.10	22.70	0.60	GRD	MG	medium grained, weak to moderately propylitic altered granodiorite with 4 pyrite bearing quartz veinlets							
						MD	GN		PRO	3I	Py	1
									ARG	1I		
						MD	GY		OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
22.70	23.30	0.60	GRD	MG	medium grained weakly argillic altered granodiorite with a weak to moderate propylitic overprint. This interval contains 6 hairline stringer veinlets that are pyrite bearing.							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	2I		
23.30	25.90	2.60	GRD	MG	unaltered granodiorite							
						MD	GY					
25.90	26.00	0.10	GRD	MG	medium to fine grained moderately propylitic altred granodiorite with two 1 cm wide pyrite baring quartz veinlets							
						MD	GY		PRO	2I	Py	0.5
						MD	GN					
26.00	30.00	4.00	GRD	MG	unaltered granodiorite							
						MD	GY					
30.00	30.67	0.67	GRD	MG	weak to moderate patchy argillic altered granodiorite with a weak to moderate propylitic overprint and two small pyrite baring quartz veinlets.							
						MD	GN					
						MD	GY		PRO	2I	Py	0.5
30.67	31.00	0.33	GRD	MG	intensely clay altered brecciated granodiorite with a clay rich matrix							
						LT	BN					
						MD	GY		CLY	4I		
31.00	34.18	3.18	GRD	MG	patch medium brown to patchy whitish grey, weakly argillic altered granodiorite. Clay alteration and oxidation confined to fracture surfaces. Weak hairline quartz carbonate veining persisten throughout interval.							
						LT	BN					
						MD	GY		CLY	3I		
						LT	WH					
						MD	BN		ARG	2I		
34.18	36.00	1.82	GRD	MG	medium grained bleached, oxidized, strongly clay altered, faulted granodiorite							
						LT	WH		BLE	2I		
						MD	BN		CLY	4I		
						LT	BF		OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.00	37.40	1.40	GRD	MG	unaltered granodiorite							
						MD	GY					
37.40	39.01	1.61	GRD	MG	medium grained medium grey to buff greenish grey, weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidatino on fracture surfaes							
						LT	BN		OXI	1I		
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
39.01	40.10	1.09	GRD	MG	medium grey to greenish grey, oxidized, rubbly to gravely faulted granodiorite. Strong clay alteration							
						MD	GN					
						MD	GY		CLY	4I		
						LT	BN					
40.10	41.00	0.90	GRD	MG	medium grained, weakly argillic altered granodiorite with weak quartz veining barren of sulphides							
						LT	GN					
						MD	GY					
						LT	WH		ARG	1I		
41.00	45.75	4.75	GRD	MG	unaltered granodiorite							
						MD	GY					
45.75	49.66	3.91	GRD	MG	medium grained, medium green with whitish patches, trace argillic altered granodiorite with a moderate patchy pervasive propylitic alteration overprint.							
						MD	GN		ARG	1I		
						LT	WH		PRO	3I		
						MD	GY					
49.66	50.90	1.24	GRD	MG	unaltered granodiorite							
						MD	GY					
50.90	51.62	0.72	GRD	MG	medium grained, greenish grey weakly argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GY		PRO	3I		
						MD	GN		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.62	65.42	13.80	GRD	MG	unaltered granodiorite with two small 20 cm wide discrete zones of weak propylitic alteration related to small pyrite bearing quartz veinlets							
						MD	GY					
65.42	66.40	0.98	GRD	MG	unaltere granodiorite							
						MD	GY					
66.40	66.69	0.29	GRD	MG	medium grained weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
66.69	66.83	0.14	VEN	FG	small quartz carbonate vein contianing disseminated pyrite, trace galena, and possibly trace arsenopyrite							
						LT	BF		SIL	5I	Py	1
						LT	WH				Gn	1
						MD	GY				As	0.5
						DK	GY					
66.83	68.63	1.80	GRD	MG	medium grained, moderately silicifeid and porpylitic altered granodiorite							
						MD	GN		SIL	2I		
						MD	GY		PRO	3I		
68.63	69.60	0.97	APL	FG	fine-grained very siliceous pinkish brown aplite dyke with a sharp upper contact and a gradational lower contact							
						MD	BF					
						MD	BN					
						LT	PK		SIL	3I		
69.60	71.74	2.14	GRD	MG	patchy medium greenish grey to medium grey weak to moderately silicified granodiorite with weak to moderate propylitic alteration							
						MD	GN		SIL	3I		
						MD	GY		PRO	3I		
71.74	72.50	0.76	GRD	MG	moderate argillic altered granodiorite							
						LT	WH					
						MD	GY		ARG	3I		
72.50	79.00	6.50	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
79.00	80.00	1.00	GRD	MG	unaltered granodiorite with a hematite and chlorite stained 1.5 cm wide fracture running 10 TCA							
						LT	BN					
						MD	GY					
						LT	GN					
80.00	93.81	13.81	GRD	MG	unaltered granodiorite							
						MD	GY					
93.81	94.10	0.29	MAF	FG	fine grained dark green to medium green mafic dyke with weak pyrite along margins, at a low angle to core axis							
						LT	GN					
						MD	GY					
						MD	GN					
94.10	94.97	0.87	GRD	MG	unaltered granodiorite							
						MD	GY					
94.97	95.30	0.33	GRD	MG	faulted, oxidized, hematite stained granodiorite with weak clay gouge developed							
						LT	GN					
						LT	RD					
						MD	GN					
95.30	95.90	0.60	GRD	MG	unaltered granodiorite							
						MD	GY					
95.90	96.19	0.29	GRD	MG	medium grained intensely clay altered faulted granodiorite							
						MD	GY					
96.19	97.05	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
97.05	97.85	0.80	GRD	MG	medium grained, medium browish grey, oxidized, bleached, altered granodiorite with moderate clay alteration. Possibly faulted							
						LT	GY					
						LT	GN					
						MD	BN		CLY	4I		
97.85	100.58	2.73	GRD	MG	medium grained, weak to trace propylitic altered granodiorite with a weak argillic alteration overprint							
						LT	WH		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	1I		
						MD	GY					
100.58	102.00	1.42	GRD	MG	unaltered granodiorite							
						MD	GY					
102.00	104.00	2.00	GRD	MG	medium grained, medium greenish grey weakly propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	2I		
104.00	107.43	3.43	GRD	MG	medium grained medium grey unaltered granodiorite with weak clay alteration on fractures							
						MD	GY					
107.43	108.43	1.00	GRD	MG	medium grained, weak argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
108.43	108.84	0.41	VEN	FG	quartz vein with two bull white, medium grained glassy 1cm wide quartz veins on both upper and lower margins. Inside the two cm-white glassy white bull quartz veins is semi-massive sulfide mineralization, with patch blebs of pyrite and arsenopyrite, with weak blebby bands of galena							
						MD	GY				Py	5
						LT	WH		SIL	5I	As	2
108.84	111.00	2.16	GRD	MG	medium grained weak argillic alteration in granodiorite with a trace propylitic overprint							
						MD	GN					
						MD	GY		ARG	2I		
						LT	WH		PRO	1I		
111.00	112.43	1.43	GRD	MG	unaltered granodiorite							
						MD	GY					
112.43	112.50	0.07	APL	FG	fine grained dark greyish green aplite dyke							
						MD	GY					
						DK	GN					
112.50	115.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
115.00	115.39	0.39	GRD	MG	medium grained trace propylitic altered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	1I		
						MD	GY					
115.39	115.58	0.19	VEN	MG	quartz carbonate vein , weakly brecciated with dissemianted patch blebs of pyrite.							
						LT	WH				Py	1
						MD	GY				Py	1
115.58	115.71	0.13	GRD	MG	intensely clay altered granodiorite							
						MD	GY		CLY	3I		
						LT	WH		ARG	3I		
115.71	117.00	1.29	GRD	MG	medium grained, weak to moderate argillic alteration with a trace propylitic overprint							
						MD	GY					
						LT	GN		PRO	1I		
						LT	WH		ARG	2I		
117.00	119.20	2.20	GRD	MG	medium grained, unaltered granodiorite							
						MD	GY					
119.20	119.85	0.65	GRD	MG	medium grained, weak to moderate argillic altered granodiorite.							
						LT	WH		ARG	3I		
						MD	GY					
119.85	120.04	0.19	VEN	MG	fine grained, dark grey with weak orange mm-scale bands throughout interval, with one 4 cm band of rhodochrosite within. Darker bands of vein contain disseminated blebby pyrite, small mm-scale orange fractures throughout vein.							
						LT	WH		SIL	4I	Py	0.5
						LT	BN					
						DK	GY					
						MD	GY		OXI	1I		
120.04	120.70	0.66	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with trace disseminated pyrite							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
120.70	121.20	0.50	GRD	MG	medium grained, weakly silicified and propylitic altered granodiorite with disseminated pyrite within groundmass							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		SIL	1I		
						MD	GY		PRO	3I	Py	0.5
121.20	124.90	3.70	GRD	MG	moderately propylitic altered medium greenish grey to grey granodiorite, with set of carbonte veinlets eveny spaced throughout interval							
						MD	GN		PRO	3I		
						MD	GY					
124.90	125.03	0.13	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinets and disseminated pyrite within groundmass							
						MD	GY		ARG	1I	Py	1
						MD	GN		PRO	2I		
125.03	126.20	1.17	GRD	MG	medium grained, medium grey unaltered granodiorite							
						MD	GY					
126.20	129.07	2.87	GRD	MG	medium grained meidum green to grey weakly argillic altered granodiorite with a moderate propylitic overprint.							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I		
129.07	129.43	0.36	VEN	MG	medium grained, creamy white to brownish light grey, quartz carbonate breccia with open-space vuggy textures and colloform banding, along with a sporadically brecciated quartz rich section in the middle of the vein. NO visible sulfides present in the vein, but its brecciated nature and textures suggest epithermal origin							
						MD	OR					
						LT	BN		SIL	4I		
						LT	CR					
						MD	WH					
129.43	130.30	0.87	GRD	MG	medium grained moderately argillic altered granodiorite							
						MD	WH					
						MD	GY		ARG	2I		
130.30	132.59	2.29	GRD	MG	unaltered granodiorite							
						MD	GY					

KL -19-445

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.21	1.21	0	0	0.00	0	--	--	--	
1.21	3.05	1.84	0.91	49	0.00	0	--	2H	3W	
3.05	4.57	1.52	1.44	95	1.01	66	--	4H	2W	
4.57	6.10	1.53	1.47	96	1.20	78	--	4H	2W	
6.10	9.14	3.04	2.9	95	2.05	67	--	4H	2W	
9.14	12.19	3.05	2.88	94	2.35	77	--	3H	2W	
12.19	15.24	3.05	3.02	99	2.48	81	--	3H	2W	
15.24	18.29	3.05	3.04	100	2.90	95	--	3H	2W	
18.29	21.34	3.05	2.93	96	2.58	85	--	3H	2W	
21.34	23.77	2.43	2.39	98	2.32	95	--	3H	2W	
23.77	26.82	3.05	2.98	98	2.84	93	--	4H	1W	
26.82	29.87	3.05	2.97	97	2.76	90	--	4H	1W	
29.87	32.92	3.05	2.92	96	2.72	89	--	3H	1W	
32.92	35.97	3.05	2.86	94	1.06	35	--	3H	2W	
35.97	39.01	3.04	2.96	97	2.24	74	--	4H	1W	
39.01	42.06	3.05	2.88	94	1.46	48	--	3H	1W	
42.06	45.11	3.05	2.96	97	2.83	93	--	4H	1W	
45.11	48.16	3.05	2.97	97	2.74	90	--	4H	1W	
48.16	51.21	3.05	3.05	100	2.51	82	--	4H	1W	
51.21	54.25	3.04	2.95	97	2.79	92	--	4H	1W	
54.25	57.30	3.05	3.04	100	2.35	77	--	4H	1W	
57.30	60.35	3.05	3.05	100	2.83	93	--	4H	1W	
60.35	63.40	3.05	3.05	100	1.92	63	--	4H	1W	
63.40	65.53	2.13	2.07	97	2.00	94	--	4H	1W	
65.53	68.58	3.05	2.97	97	2.50	82	--	3H	1W	
68.58	71.63	3.05	3.05	100	2.87	94	--	4H	1W	
71.63	74.68	3.05	2.9	95	2.53	83	--	4H	1W	
74.68	76.20	1.52	1.47	97	1.21	80	--	3H	1W	
76.20	78.94	2.74	2.64	96	2.03	74	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
78.94	80.77	1.83	1.77	97	1.41	77	--	3H	1W	
80.77	83.82	3.05	2.96	97	2.72	89	--	4H	1W	
83.82	86.87	3.05	3.05	100	2.73	90	--	4H	1W	
86.87	89.92	3.05	3.02	99	2.48	81	--	4H	1W	
89.92	92.96	3.04	2.88	95	2.84	93	--	4H	1W	
92.96	95.71	2.75	2.65	96	2.20	80	--	3H	1W	
95.71	97.54	1.83	1.76	96	0.62	34	--	3H	1W	
97.54	100.58	3.04	2.99	98	2.61	86	--	4H	1W	
100.58	103.63	3.05	2.78	91	2.13	70	--	4H	1W	
103.63	106.68	3.05	2.89	95	2.69	88	--	4H	1W	
106.68	109.73	3.05	2.95	97	2.42	79	--	4H	1W	
109.73	112.78	3.05	2.98	98	2.70	89	--	4H	1W	
112.78	115.82	3.04	3.04	100	2.85	94	--	3H	1W	
115.82	118.87	3.05	2.96	97	2.54	83	--	4H	1W	
118.87	121.92	3.05	3	98	2.70	89	--	3H	1W	
121.92	124.97	3.05	3.05	100	2.72	89	--	3H	1W	
124.97	128.02	3.05	3.05	100	2.54	83	--	3H	1W	
128.02	131.06	3.04	3.04	100	2.82	93	--	3H	1W	
131.06	132.59	1.53	1.53	100	1.51	99	--	4H	1W	

KL -19-445

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	19.81	GRD	
3	5.658	GRD	
4	24.13	GRD	
5	11.66	GRD	
6	24.37	GRD	
7	19.67	GRD	
8	10.92	GRD	
9	20.47	GRD	
10	18	GRD	
11	15.12	GRD	
12	18.32	GRD	
13	0.466	GRD	
14	16.51	GRD	
15	3.382	GRD	
15	3.382	GRD	
16	0.44	GRD	
17	0.528	GRD	
18	1.341	GRD	
19	0.737	GRD	
20	19.44	GRD	
21	18.31	GRD	
22	20.19	GRD	
23	0.694	GRD	
24	18.47	GRD	
25	8.938	GRD	
26	9.251	GRD	
26	9.251	GRD	
27	16.74	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	16.25	GRD	
29	19.35	GRD	
30	0.636	GRD	
30	0.636	GRD	
31	0.283	GRD	
31	0.283	GRD	
32	19.86	GRD	
33	1.471	GRD	
34	0.524	GRD	
35	24.32	GRD	
36	15.67	GRD	
36	15.67	GRD	
37	32.1	GRD	
38	23.74	GRD	
39	0.604	GRD	
40	2.63	GRD	
41	21.19	GRD	
41	21.19	GRD	
42	26.896	GRD	
43	28.38	GRD	
44	21.19	GRD	
45	25.87	GRD	
46	8.338	GRD	
47	22.96	GRD	
48	1.164	GRD	
49	1.139	GRD	
50	29.6	GRD	
51	1.238	GRD	
52	22.42	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	25.81	GRD	
54	21.46	GRD	
55	22.92	GRD	
56	22.87	GRD	
57	22.48	GRD	
58	19.3	GRD	
59	23.01	GRD	
60	19.29	GRD	
61	17.68	GRD	
62	20.5	GRD	
63	18.65	GRD	
64	22.63	GRD	
65	16.12	GRD	
66	20.59	GRD	
67	0.559	GRD	
68	0.405	GRD	
69	0.741	APL	
70	0.519	GRD	
71	0.353	GRD	
72	0.432	GRD	
73	5.402	GRD	
74	0.421	GRD	
75	18.07	GRD	
76	17.76	GRD	
77	1.266	GRD	
78	7.129	GRD	
79	17.08	GRD	
79	17.08	GRD	
80	27.49	GRD	
80	27.49	GRD	
81	19.72	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
82	18.58	GRD	
83	19.62	GRD	
84	19.07	GRD	
85	18.36	GRD	
86	22	GRD	
87	15.41	GRD	
88	10.15	GRD	
89	19.07	GRD	
90	19.71	GRD	
91	19.15	GRD	
92	6.251	GRD	
93	23.52	GRD	
94	1.162	MAF	
95	0.44	GRD	
96	5.645	GRD	
97	11.34	GRD	
98	0.619	GRD	
99	16.86	GRD	
100	0.569	GRD	
101	3.303	GRD	
102	18.22	GRD	
102	18.22	GRD	
103	0.469	GRD	
104	0.473	GRD	
104	0.473	GRD	
105	18.36	GRD	
106	13.74	GRD	
107	11.22	GRD	
108	0.859	GRD	
109	0.364	GRD	
110	0.505	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
111	1.293	GRD	
111	1.293	GRD	
112	17.33	GRD	
113	16.34	GRD	
114	18.26	GRD	
115	9.547	GRD	
115	9.547	GRD	
116	0.413	GRD	
117	7.011	GRD	
117	7.011	GRD	
118	3.941	GRD	
119	1.965	GRD	
120	0.141	VEN	
121	0.153	GRD	
122	0.248	GRD	
123	0.446	GRD	
124	1.018	GRD	
125	0.381	GRD	
126	11.28	GRD	
127	0.309	GRD	
128	0.763	GRD	
129	0.806	GRD	
130	0.2	GRD	
131	16.06	GRD	
132	14.78	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-445

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593555	☐	19-046	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593588	☐	19-048	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593455	☐	19-044	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593567	☐	19-048	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593539	☐	19-046	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593526	☐	19-046	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593510	☐	19-045	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593498	☐	19-045	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593492	☐	19-045	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593476	☐	19-044	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593465	☐	19-044	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593573	☐	19-048	low grade		☑	☐	☐
2.50	4.00	1.50	GRD	1.40	93	W593445	☐	19-044	low grade		☐	☐	☐
4.00	5.50	1.50	GRD	1.45	97	W593446	☐	19-044	low grade		☐	☐	☐
5.50	7.00	1.50	GRD	1.48	99	W593447	☐	19-044	low grade		☐	☐	☐
5.50	7.00	1.50	GRD	1.48	99	W593448	☐	19-044	low grade		☐	☑	☐
7.00	8.50	1.50	GRD	1.50	100	W593449	☐	19-044	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
8.50	10.00	1.50	GRD	1.50	100	W593450	☐	19-044	low grade		☐	☐	☐
10.00	11.34	1.34	GRD	1.32	99	W593451	☐	19-044	low grade		☐	☐	☐
11.34	12.23	0.89	GRD	0.88	99	W593452	☐	19-044	low grade		☐	☐	☐
12.23	13.23	1.00	GRD	1.00	100	W593453	☐	19-044	low grade		☐	☐	☐
13.23	13.53	0.30	GRD	0.30	100	W593454	☐	19-044	low grade		☐	☐	☐
13.53	14.70	1.17	GRD	1.17	100	W593456	☐	19-044	low grade		☐	☐	☐
14.70	15.70	1.00	GRD	1.00	100	W593457	☐	19-044	low grade		☐	☐	☐
15.70	16.00	0.30	GRD	0.30	100	W593458	☐	19-044	low grade		☐	☐	☐
16.00	16.70	0.70	GRD	0.69	99	W593459	☐	19-044	low grade		☐	☐	☐
16.70	17.70	1.00	GRD	1.00	100	W593460	☑	19-044	low grade		☐	☐	☐
17.70	18.00	0.30	GRD	0.30	100	W593461	☐	19-044	low grade		☐	☐	☐
18.00	18.52	0.52	GRD	0.50	96	W593462	☐	19-044	low grade		☐	☐	☐
18.52	18.82	0.30	GRD	0.30	100	W593463	☐	19-044	low grade		☐	☐	☐
18.82	19.18	0.36	GRD	0.35	97	W593464	☐	19-044	low grade		☐	☐	☐
19.18	20.00	0.82	GRD	0.80	98	W593466	☐	19-044	low grade		☐	☐	☐
20.00	21.00	1.00	GRD	1.00	100	W593467	☐	19-044	low grade		☐	☐	☐
21.00	22.09	1.09	GRD	1.08	99	W593468	☐	19-044	low grade		☐	☐	☐
21.00	22.09	1.09	GRD	1.08	99	W593469	☐	19-044	low grade		☐	☐	☑
22.09	22.39	0.30	GRD	0.30	100	W593470	☐	19-044	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
22.39	22.85	0.46	GRD	0.45	98	W593471	☐	19-044	low grade		☐	☐	☐
22.85	23.15	0.30	GRD	0.30	100	W593472	☐	19-044	low grade		☐	☐	☐
23.15	24.00	0.85	GRD	0.83	98	W593473	☐	19-044	low grade		☐	☐	☐
24.00	24.95	0.95	GRD	0.95	100	W593474	☐	19-044	low grade		☐	☐	☐
24.95	26.40	1.45	GRD	1.45	100	W593475	☐	19-044	low grade		☐	☐	☐
26.40	27.90	1.50	GRD	1.50	100	W593477	☐	19-044	low grade		☐	☐	☐
27.90	29.40	1.50	GRD	1.50	100	W593478	☐	19-044	low grade		☐	☐	☐
29.40	30.40	1.00	GRD	1.00	100	W593479	☐	19-044	low grade		☐	☐	☐
30.40	30.70	0.30	GRD	0.30	100	W593480	☐	19-044	low grade		☐	☐	☐
30.70	31.00	0.30	GRD	0.30	100	W593481	☐	19-045	low grade		☐	☐	☐
31.00	31.95	0.95	GRD, GRD	0.94	99	W593482	☐	19-045	low grade		☐	☐	☐
31.95	33.45	1.50	GRD	1.48	99	W593483	☐	19-045	low grade		☐	☐	☐
33.45	34.00	0.55	GRD	0.55	100	W593484	☐	19-045	low grade		☐	☐	☐
34.00	34.67	0.67	GRD	0.67	100	W593485	☐	19-045	low grade		☐	☐	☐
34.00	34.67	0.67	GRD	0.67	100	W593486	☐	19-045	low grade		☐	☐	☑
34.67	36.00	1.33	GRD	1.33	100	W593487	☐	19-045	low grade		☐	☐	☐
36.00	37.50	1.50	GRD, GRD	1.49	99	W593488	☐	19-045	low grade		☐	☐	☐
37.50	39.00	1.50	GRD	1.49	99	W593489	☐	19-045	low grade		☐	☐	☐
39.00	40.15	1.15	GRD	1.00	87	W593490	☐	19-045	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
40.15	41.25	1.10	GRD	1.10	100	W593491	☐	19-045	low grade		☐	☐	☐
41.25	42.75	1.50	GRD	1.50	100	W593493	☐	19-045	low grade		☐	☐	☐
42.75	44.25	1.50	GRD	1.50	100	W593494	☐	19-045	low grade		☐	☐	☐
44.25	45.75	1.50	GRD	1.50	100	W593495	☐	19-045	low grade		☐	☐	☐
45.75	46.30	0.55	GRD, GRD	0.55	100	W593496	☐	19-045	low grade		☐	☐	☐
46.30	46.65	0.35	GRD	0.35	100	W593497	☐	19-045	low grade		☐	☐	☐
46.65	47.60	0.95	GRD	0.95	100	W593499	☐	19-045	low grade		☐	☐	☐
47.60	48.30	0.70	GRD	0.70	100	W593500	☐	19-045	low grade		☐	☐	☐
48.30	48.70	0.40	GRD	0.40	100	W593501	☐	19-045	low grade		☐	☐	☐
48.70	50.20	1.50	GRD	1.50	100	W593502	☐	19-045	low grade		☐	☐	☐
50.20	51.20	1.00	GRD	0.98	98	W593503	☐	19-045	low grade		☐	☐	☐
51.20	51.50	0.30	GRD	0.30	100	W593504	☐	19-045	low grade		☐	☐	☐
51.20	51.50	0.30	GRD	0.30	100	W593505	☐	19-045	low grade		☐	☑	☐
51.50	53.00	1.50	GRD	1.50	100	W593506	☐	19-045	low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.50	100	W593507	☐	19-045	low grade		☐	☐	☐
54.50	56.00	1.50	GRD	1.50	100	W593508	☐	19-045	low grade		☐	☐	☐
56.00	57.50	1.50	GRD	1.50	100	W593509	☐	19-045	low grade		☐	☐	☐
57.50	59.00	1.50	GRD	1.50	100	W593511	☐	19-045	low grade		☐	☐	☐
59.00	60.50	1.50	GRD	1.50	100	W593512	☐	19-045	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
60.50	62.00	1.50	GRD	1.48	99	W593513	☐	19-045	low grade		☐	☐	☐
62.00	63.50	1.50	GRD	1.49	99	W593514	☐	19-045	low grade		☐	☐	☐
63.50	65.00	1.50	GRD	1.50	100	W593515	☐	19-045	low grade		☐	☐	☐
65.00	66.00	1.00	GRD	1.00	100	W593516	☐	19-045	low grade		☐	☐	☐
66.00	66.65	0.65	GRD	0.64	98	W593517	☐	19-045	low grade		☐	☐	☐
66.65	66.95	0.30	GRD	0.30	100	W599180	☐	19-006	High grade		☐	☐	☐
66.95	67.95	1.00	GRD	1.00	100	W593518	☐	19-045	low grade		☐	☐	☐
67.95	68.63	0.68	GRD	0.68	100	W593519	☐	19-045	low grade		☐	☐	☐
68.63	69.77	1.14	APL, GRD	1.12	98	W593520	☐	19-045	low grade		☐	☐	☐
69.77	70.07	0.30	GRD	0.30	100	W593521	☐	19-046	low grade		☐	☐	☐
70.07	71.07	1.00	GRD	1.00	100	W593522	☐	19-046	low grade		☐	☐	☐
71.07	71.74	0.67	GRD	0.65	97	W593523	☐	19-046	low grade		☐	☐	☐
71.74	72.50	0.76	GRD, GRD	0.73	96	W593524	☐	19-046	low grade		☐	☐	☐
72.50	74.00	1.50	GRD, GRD	1.50	100	W593525	☐	19-046	low grade		☐	☐	☐
74.00	74.50	0.50	GRD	0.50	100	W593527	☐	19-046	low grade		☐	☐	☐
74.50	76.00	1.50	GRD	1.50	100	W593528	☐	19-046	low grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.50	100	W593529	☐	19-046	low grade		☐	☐	☐
77.50	79.00	1.50	GRD	1.50	100	W593530	☐	19-046	low grade		☐	☐	☐
79.00	80.00	1.00	GRD, GRD	1.00	100	W593531	☐	19-046	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
80.00	81.50	1.50	GRD, GRD	1.50	100	W593532	☐	19-046	low grade		☐	☐	☐
80.00	81.50	1.50	GRD, GRD	1.50	100	W593533	☐	19-046	low grade		☐	☐	☑
81.50	83.00	1.50	GRD	1.50	100	W593534	☐	19-046	low grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.50	100	W593535	☐	19-046	low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	W593536	☐	19-046	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W593537	☐	19-046	low grade		☐	☐	☐
87.50	87.90	0.40	GRD	0.40	100	W593538	☐	19-046	low grade		☐	☐	☐
87.90	89.00	1.10	GRD	1.10	100	W593540	☐	19-046	low grade		☐	☐	☐
89.00	90.16	1.16	GRD	1.15	99	W593541	☐	19-046	low grade		☐	☐	☐
90.16	91.66	1.50	GRD	1.50	100	W593542	☐	19-046	low grade		☐	☐	☐
91.66	92.15	0.49	GRD	0.49	100	W593543	☐	19-046	low grade		☐	☐	☐
92.15	93.62	1.47	GRD	0.55	37	W593544	☐	19-046	low grade		☐	☐	☐
93.62	94.10	0.48	GRD	0.48	100	W593545	☐	19-046	low grade		☐	☐	☐
93.62	94.10	0.48	GRD	0.48	100	W593546	☐	19-046	low grade		☐	☑	☐
94.10	94.85	0.75	GRD, MAF	0.75	100	W593547	☐	19-046	low grade		☐	☐	☐
94.85	95.15	0.30	GRD	0.30	100	W593548	☐	19-046	low grade		☐	☐	☐
95.15	96.19	1.04	GRD	1.03	99	W593549	☐	19-046	low grade		☐	☐	☐
96.19	97.00	0.81	GRD, GRD	0.80	99	W593550	☐	19-046	low grade		☐	☐	☐
97.00	98.50	1.50	GRD	1.50	100	W593551	☐	19-046	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
98.50	100.00	1.50	GRD	1.50	100	W593552	☐	19-046	low grade		☐	☐	☐
100.00	101.50	1.50	GRD	1.50	100	W593553	☐	19-046	low grade		☐	☐	☐
101.50	103.00	1.50	GRD	1.50	100	W593554	☐	19-046	low grade		☐	☐	☐
103.00	104.50	1.50	GRD	1.50	100	W593556	☐	19-046	low grade		☐	☐	☐
104.50	106.00	1.50	GRD	1.50	100	W593557	☐	19-046	low grade		☐	☐	☐
106.00	107.43	1.43	GRD	1.40	98	W593558	☐	19-046	low grade		☐	☐	☐
107.43	108.43	1.00	GRD, GRD	1.00	100	W593559	☐	19-046	low grade		☐	☐	☐
108.43	108.84	0.41	VEN, GRD	0.40	98	W599182	☐	19-006	High grade		☐	☐	☐
108.84	109.84	1.00	VEN, GRD	1.00	100	W593560	☐	19-046	low grade		☐	☐	☐
109.84	111.00	1.16	GRD	1.15	99	W593561	☐	19-048	low grade		☐	☐	☐
111.00	112.50	1.50	GRD, GRD	1.50	100	W593562	☐	19-048	low grade		☐	☐	☐
112.50	114.00	1.50	GRD, APL	1.50	100	W593563	☐	19-048	low grade		☐	☐	☐
114.00	115.00	1.00	GRD	1.00	100	W593564	☐	19-048	low grade		☐	☐	☐
115.00	115.37	0.37	GRD, GRD	0.37	100	W593565	☐	19-048	low grade		☐	☐	☐
115.37	115.71	0.34	GRD	0.34	100	W599186	☐	19-006	High grade		☐	☐	☐
115.71	116.71	1.00	GRD, GRD	1.00	100	W593566	☐	19-048	low grade		☐	☐	☐
116.71	117.80	1.09	GRD	1.08	99	W593568	☐	19-048	low grade		☐	☐	☐
117.80	119.00	1.20	GRD	1.20	100	W593569	☐	19-048	low grade		☐	☐	☐
119.00	119.80	0.80	GRD	0.80	100	W593570	☐	19-048	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
119.80	120.10	0.30	GRD	0.30	100	W599183	☐	19-006	High grade		☐	☐	☐
120.10	120.90	0.80	GRD	0.80	100	W593571	☐	19-048	low grade		☐	☐	☐
120.90	121.25	0.35	GRD	0.35	100	W593572	☐	19-048	low grade		☐	☐	☐
121.25	121.75	0.50	GRD	0.50	100	W593574	☐	19-048	low grade		☐	☐	☐
121.75	122.87	1.12	GRD	1.11	99	W593575	☐	19-048	low grade		☐	☐	☐
122.87	123.87	1.00	GRD	1.00	100	W593576	☐	19-048	low grade		☐	☐	☐
123.87	124.90	1.03	GRD	1.01	98	W593577	☐	19-048	low grade		☐	☐	☐
124.90	125.20	0.30	GRD, GRD	0.30	100	W593578	☐	19-048	low grade		☐	☐	☐
125.20	126.20	1.00	GRD	1.00	100	W593579	☐	19-048	low grade		☐	☐	☐
126.20	127.70	1.50	GRD, GRD	1.45	97	W593580	☐	19-048	low grade		☐	☐	☐
126.20	127.70	1.50	GRD, GRD	1.45	97	W593581	☐	19-048	low grade		☐	☐	☑
127.70	128.24	0.54	GRD	0.53	98	W593582	☐	19-048	low grade		☐	☐	☐
128.24	129.07	0.83	GRD	0.80	96	W593583	☐	19-048	low grade		☐	☐	☐
129.07	129.64	0.57	GRD, VEN	0.55	96	W593584	☐	19-048	low grade		☐	☐	☐
129.64	130.30	0.66	GRD	0.65	98	W593585	☐	19-048	low grade		☐	☐	☐
130.30	130.93	0.63	GRD, GRD	0.63	100	W593586	☐	19-048	low grade		☐	☐	☐
130.93	132.59	1.66	GRD	0.64	39	W593587	☐	19-048	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-048	W593567	0.00	0.00	1.76	980	☐	☐	☐	☑ KL-STD6	KL-6 STD
19-048	W593573	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-048	W593588	0.00	0.00	1.48	130	☐	☐	☐	☑ ME-16	ME-16 STD
19-044	W593455	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-044	W593465	0.00	0.00	0.30	610	☐	☐	☐	☑ ME-6	ME*6 STD
19-044	W593476	0.00	0.00	0.26	570	☐	☐	☐	☑ ME-6	ME-6
19-046	W593526	0.00	0.00	1.54	150	☐	☐	☐	☑ ME-16	ME-16
19-046	W593539	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-046	W593555	0.00	0.00	0.27	620	☐	☐	☐	☑ ME-6	ME-6 STD
19-045	W593492	0.00	0.00	1.45	100	☐	☐	☐	☑ ME-16	ME-16
19-045	W593498	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-045	W593510	0.00	0.00	0.27	370	☐	☐	☐	☑ ME-6	ME-6
19-044	W593445	2.50	4.00	0.01	2560	☐	☐	☐	☐	
19-044	W593446	4.00	5.50	0.01	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-044	W593447	5.50	7.00	0.00	2380	☐	☐	☐	☐	
19-044	W593448	5.50	7.00	0.00	2370	☑	☐	☐	☐	1/4 duplicate
19-044	W593449	7.00	8.50	0.01	2440	☐	☐	☐	☐	
19-044	W593450	8.50	10.00	0.00	2240	☐	☐	☐	☐	
19-044	W593451	10.00	11.34	0.00	2340	☐	☐	☐	☐	
19-044	W593452	11.34	12.23	0.00	2190	☐	☐	☐	☐	
19-044	W593453	12.23	13.23	0.03	1590	☐	☐	☐	☐	
19-044	W593454	13.23	13.53	0.09	330	☐	☐	☐	☐	
19-044	W593456	13.53	14.70	0.01	2450	☐	☐	☐	☐	
19-044	W593457	14.70	15.70	0.02	2270	☐	☐	☐	☐	
19-044	W593458	15.70	16.00	1.20	440	☐	☐	☐	☐	
19-044	W593459	16.00	16.70	0.01	2740	☐	☐	☐	☐	
19-044	W593460	16.70	17.70	0.02	1850	☐	☐	☐	☐	
19-044	W593461	17.70	18.00	0.17	490	☐	☐	☐	☐	
19-044	W593462	18.00	18.52	0.11	1010	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-044	W593463	18.52	18.82	2.48	30	☐	☐	☐	☐	
19-044	W593464	18.82	19.18	0.20	1250	☐	☐	☐	☐	
19-044	W593466	19.18	20.00	0.01	2290	☐	☐	☐	☐	
19-044	W593467	20.00	21.00	0.00	2380	☐	☐	☐	☐	
19-044	W593468	21.00	22.09	0.00	2430	☐	☐	☐	☐	
19-044	W593469	21.00	22.09	0.00	2350	☐	☑	☐	☐	coarse duplicate
19-044	W593470	22.09	22.39	0.38	1150	☐	☐	☐	☐	
19-044	W593471	22.39	22.85	0.01	2580	☐	☐	☐	☐	
19-044	W593472	22.85	23.15	0.39	390	☐	☐	☐	☐	
19-044	W593473	23.15	24.00	0.03	2440	☐	☐	☐	☐	
19-044	W593474	24.00	24.95	0.00	2460	☐	☐	☐	☐	
19-044	W593475	24.95	26.40	0.01	2470	☐	☐	☐	☐	
19-044	W593477	26.40	27.90	0.00	2440	☐	☐	☐	☐	
19-044	W593478	27.90	29.40	0.00	2490	☐	☐	☐	☐	
19-044	W593479	29.40	30.40	0.01	2270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-044	W593480	30.40	30.70	0.09	1060	☐	☐	☐	☐	
19-045	W593481	30.70	31.00	0.02	1370	☐	☐	☐	☐	
19-045	W593482	31.00	31.95	0.00	2100	☐	☐	☐	☐	
19-045	W593483	31.95	33.45	0.01	2420	☐	☐	☐	☐	
19-045	W593484	33.45	34.00	0.01	1460	☐	☐	☐	☐	
19-045	W593485	34.00	34.67	0.01	1890	☐	☐	☐	☐	
19-045	W593486	34.00	34.67	0.02	2000	☐	☑	☐	☐	coarse reject duplicate
19-045	W593487	34.67	36.00	0.00	2510	☐	☐	☐	☐	
19-045	W593488	36.00	37.50	0.00	2360	☐	☐	☐	☐	
19-045	W593489	37.50	39.00	0.01	2120	☐	☐	☐	☐	
19-045	W593490	39.00	40.15	0.00	2490	☐	☐	☐	☐	
19-045	W593491	40.15	41.25	0.01	2200	☐	☐	☐	☐	
19-045	W593493	41.25	42.75	0.00	2490	☐	☐	☐	☐	
19-045	W593494	42.75	44.25	0.00	2430	☐	☐	☐	☐	
19-045	W593495	44.25	45.75	0.00	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-045	W593496	45.75	46.30	0.05	1470	☐	☐	☐	☐	
19-045	W593497	46.30	46.65	0.17	100	☐	☐	☐	☐	
19-045	W593499	46.65	47.60	0.02	2100	☐	☐	☐	☐	
19-045	W593500	47.60	48.30	0.00	2090	☐	☐	☐	☐	
19-045	W593501	48.30	48.70	0.06	690	☐	☐	☐	☐	
19-045	W593502	48.70	50.20	0.02	1850	☐	☐	☐	☐	
19-045	W593503	50.20	51.20	0.00	2030	☐	☐	☐	☐	
19-045	W593504	51.20	51.50	0.01	1670	☐	☐	☐	☐	
19-045	W593505	51.20	51.50	0.00	1810	☑	☐	☐	☐	1/4 duplicate
19-045	W593506	51.50	53.00	0.00	2340	☐	☐	☐	☐	
19-045	W593507	53.00	54.50	0.00	2300	☐	☐	☐	☐	
19-045	W593508	54.50	56.00	0.00	2370	☐	☐	☐	☐	
19-045	W593509	56.00	57.50	0.00	2230	☐	☐	☐	☐	
19-045	W593511	57.50	59.00	0.00	2260	☐	☐	☐	☐	
19-045	W593512	59.00	60.50	0.00	2420	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-045	W593513	60.50	62.00	0.00	2200	☐	☐	☐	☐	
19-045	W593514	62.00	63.50	0.00	2130	☐	☐	☐	☐	
19-045	W593515	63.50	65.00	0.00	2280	☐	☐	☐	☐	
19-045	W593516	65.00	66.00	0.00	2170	☐	☐	☐	☐	
19-045	W593517	66.00	66.65	0.10	1260	☐	☐	☐	☐	
19-006	W599180	66.65	66.95	0.66	1000	☐	☐	☐	☐	high grade
19-045	W593518	66.95	67.95	0.01	2340	☐	☐	☐	☐	
19-045	W593519	67.95	68.63	0.02	2100	☐	☐	☐	☐	
19-045	W593520	68.63	69.77	0.00	1060	☐	☐	☐	☐	
19-046	W593521	69.77	70.07	0.02	2500	☐	☐	☐	☐	
19-046	W593522	70.07	71.07	0.02	2330	☐	☐	☐	☐	
19-046	W593523	71.07	71.74	0.02	1770	☐	☐	☐	☐	
19-046	W593524	71.74	72.50	0.01	2470	☐	☐	☐	☐	
19-046	W593525	72.50	74.00	0.00	2500	☐	☐	☐	☐	
19-046	W593527	74.00	74.50	0.02	1530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-046	W593528	74.50	76.00	0.05	2160	☐	☐	☐	☐	
19-046	W593529	76.00	77.50	0.01	2490	☐	☐	☐	☐	
19-046	W593530	77.50	79.00	0.01	2860	☐	☐	☐	☐	
19-046	W593531	79.00	80.00	0.09	2120	☐	☐	☐	☐	
19-046	W593532	80.00	81.50	0.00	2560	☐	☐	☐	☐	
19-046	W593533	80.00	81.50	0.00	2600	☐	☑	☐	☐	coarse rej dup
19-046	W593534	81.50	83.00	0.01	2460	☐	☐	☐	☐	
19-046	W593535	83.00	84.50	0.00	2320	☐	☐	☐	☐	
19-046	W593536	84.50	86.00	0.00	2500	☐	☐	☐	☐	
19-046	W593537	86.00	87.50	0.00	2560	☐	☐	☐	☐	
19-046	W593538	87.50	87.90	0.29	1020	☐	☐	☐	☐	
19-046	W593540	87.90	89.00	0.01	2120	☐	☐	☐	☐	
19-046	W593541	89.00	90.16	0.00	2540	☐	☐	☐	☐	
19-046	W593542	90.16	91.66	0.00	2580	☐	☐	☐	☐	
19-046	W593543	91.66	92.15	0.00	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-046	W593544	92.15	93.62	0.00	2620	☐	☐	☐	☐	
19-046	W593545	93.62	94.10	0.01	1920	☐	☐	☐	☐	
19-046	W593546	93.62	94.10	0.01	1770	☑	☐	☐	☐	1/4 dup
19-046	W593547	94.10	94.85	0.00	2240	☐	☐	☐	☐	
19-046	W593548	94.85	95.15	0.01	960	☐	☐	☐	☐	
19-046	W593549	95.15	96.19	0.00	2280	☐	☐	☐	☐	
19-046	W593550	96.19	97.00	0.00	2480	☐	☐	☐	☐	
19-046	W593551	97.00	98.50	0.01	1890	☐	☐	☐	☐	
19-046	W593552	98.50	100.00	0.00	2130	☐	☐	☐	☐	
19-046	W593553	100.00	101.50	0.00	2420	☐	☐	☐	☐	
19-046	W593554	101.50	103.00	0.00	1820	☐	☐	☐	☐	
19-046	W593556	103.00	104.50	0.00	2010	☐	☐	☐	☐	
19-046	W593557	104.50	106.00	0.00	2400	☐	☐	☐	☐	
19-046	W593558	106.00	107.43	0.01	2450	☐	☐	☐	☐	
19-046	W593559	107.43	108.43	0.03	1140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-006	W599182	108.43	108.84	7.83	180	☐	☐	☐	☐	high grade
19-046	W599360	108.84	109.84	0.03	1530	☐	☐	☐	☐	
19-048	W599361	109.84	111.00	0.00	1910	☐	☐	☐	☐	
19-048	W599362	111.00	112.50	0.00	2140	☐	☐	☐	☐	
19-048	W599363	112.50	114.00	0.00	2250	☐	☐	☐	☐	
19-048	W599364	114.00	115.00	0.00	2210	☐	☐	☐	☐	
19-048	W599365	115.00	115.37	0.06	370	☐	☐	☐	☐	
19-006	W599186	115.37	115.71	3.18	820	☐	☐	☐	☐	high grade
19-048	W599366	115.71	116.71	0.04	1890	☐	☐	☐	☐	
19-048	W599368	116.71	117.80	0.00	2180	☐	☐	☐	☐	
19-048	W599369	117.80	119.00	0.00	2280	☐	☐	☐	☐	
19-048	W599370	119.00	119.80	0.03	1710	☐	☐	☐	☐	
19-006	W599183	119.80	120.10	8.84	100	☐	☐	☐	☐	HIGH GRADE
19-048	W599371	120.10	120.90	0.04	810	☐	☐	☐	☐	
19-048	W599372	120.90	121.25	0.24	580	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-048	W593574	121.25	121.75	0.03	220	☐	☐	☐	☐	
19-048	W593575	121.75	122.87	0.10	1310	☐	☐	☐	☐	
19-048	W593576	122.87	123.87	0.57	770	☐	☐	☐	☐	
19-048	W593577	123.87	124.90	0.02	1800	☐	☐	☐	☐	
19-048	W593578	124.90	125.20	0.18	380	☐	☐	☐	☐	
19-048	W593579	125.20	126.20	0.00	2350	☐	☐	☐	☐	
19-048	W593580	126.20	127.70	0.10	1730	☐	☐	☐	☐	
19-048	W593581	126.20	127.70	0.01	1700	☐	☑	☐	☐	coarse duplicate
19-048	W593582	127.70	128.24	0.09	1710	☐	☐	☐	☐	
19-048	W593583	128.24	129.07	0.04	1630	☐	☐	☐	☐	
19-048	W593584	129.07	129.64	0.42	2660	☐	☐	☐	☐	
19-048	W593585	129.64	130.30	0.00	2710	☐	☐	☐	☐	
19-048	W593586	130.30	130.93	0.00	2450	☐	☐	☐	☐	
19-048	W593587	130.93	132.59	0.00	2270	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
11.44	11.45	VT	37	60	NUL	1	small oxidized minor pyrite bearing quartz veinlet			
								Py	0.1	DI
12.41	12.43	VT	37	60	NUL	1	small oxidized pyrite besaring quartz vein			
								Py	0.5	DI
15.90	16.00	ST		60	NUL	2	small pyrite bearing quartz veins with didsemianted pyrite in propylitic groundmass of granodiorite			
								Py	0.5	DI
16.78	16.81	VN	37	70	NUL	1	small quart carboante veinlet with no visible sulfides			
18.54	18.69	VN	37	70	NUL	1	pyrite bearing quartz vein, no other sulfides present.			
								Py	1	DI
22.15	22.30	ST		75	NUL	2	two small pyrite bearing quartz veinlets			
								Py	0.5	DI
22.85	23.10	ST		75	NUL	6	small 0.5 cm wide pyrite bearing quartz veinlets			
								Py	1	DI
25.90	26.00	ST		65	NUL	2	two small 0.5 cm pyrite bearing quartz veinlets			
								Py	0.5	DI
30.43	30.48	VN	37	30	NUL	1	low angle quartz vein, relatively barren with weak hematite staining and trace pyrite along margin			
								He	0.5	DI
								Py	0.5	DI
30.80	30.95	FT	42	30	NUL	1	brecciated clay altered portion of granodiorite, heavily oxidized and clay altered			
34.00	34.18	FT	42	30	NUL	1	quartz carbonate breccia vein, barren of sulfides, sharp upper and lower contact with clay altred granodiorite.			
34.69	34.70	FT	42	30	NUL	1	small fault surfaces, rubbly granodiorite for ~40 cm below			
41.70	41.73	VN	37	15	NUL	1	small pyrite and hematite stained quartz vein, rweakly mineralized			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								He	0.5	DI
46.37	46.65	ST		80	NUL	4	four small pyrite bearing quartz venlets			
								Py	0.5	DI
48.45	48.47	VN	37	40	NUL	1	small pyrite bearing quartz veinlet			
								Py	0.5	DI
54.21	51.24	VN	37	40	NUL	1	small pyrie bearing quartz vein			
								Py	0.5	DI
59.28	59.29	VT	37	40	NUL	1	small chlorite-rich weak pyrite bearing veinlet			
								Py	0.1	DI
66.63	66.83	VN	37	70	NUL	1	polymetallic quartz vein			
								As	0.1	DI
								Gn	0.1	DI
								Py	0.5	DI
68.63	69.60	DY	37	70	NUL	1	aplite dyke pinkish brown fine grained			
69.84	69.87	VT	37	70	NUL	1	small polymetallic veinlet with sphalerite on vein margin			
								Py	0.25	BA
								Gn	0.5	BA
								Sp	1	BA
71.74	71.75	FT	42	30	NUL	1	clay altered fault surface with intenesely clay altered granodiorite below			
79.30	79.40	VT	37	10	NUL	1	clay altered chloritized and hematite altered fractured vein in granodiorite			
94.00	94.01	DY	37	30	NUL	1	strange dark greenish grey mafic? Dyke with weak pyrite developed on margin. Patchy textured with epidote and fine-grained black mineral			
94.92	95.08	FT	42	30	NUL	1	clay altered hematite stained faulted section of granodiorite with intense clay alteration extending 50 cm below this point			
96.18	96.19	FT	42	30	NUL	1	carbonate on fracture with clay altered granodiorite above this point for 40 cm			
100.20	100.58	ST		40	NUL	5	small set of hairline carbonatee stringer veinlets			
108.43	108.84	VN	37	70	NUL	1	polymetallic quartz vein with semimassive sulfide mineralization (pyrite, arseno +- galena +- sphal)			
								Py	5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								As	2	DI
								Gn	1	DI
								Sp	0.5	DI
112.43	112.50	DY	37	30	NUL	1	small greenish grey fine grained aplite dyke			
115.39	115.59	VN	37	75	NUL	1	small polymetallic quartz carbonate vein with pyrite and galena +- arsenopyrite			
								Py	2	DI
								As	0.1	DI
								Gn	0.1	DI
115.59	115.71	FT	42	70	NUL	1	small clay altered fault gouged weakly mineralized granodiorite			
								Py	1	DI
119.93	120.04	VN	37	60	NUL	1	small weakly mineralized quartz carbonte vein with pyrite and galena mineralization			
								Gn	0.5	DI
								Py	1	DI
121.10	121.13	VN	37	70	NUL	1	small pyrite bearing quartz vein			
122.00	124.00	ST		30	NUL	15	set of 15 small carbonate stringer veinlets, with traec pyrite (2 sets) one set trends 30 TCA and the other is less prominent and trends 70 TCA			
								Py	0.5	DI
124.97	125.03	VN	37	70	NUL	1	small pyrite bearing quartz vein			
127.03	127.10	ST		75	NUL	2	two small quartz carbonte veinlets devoid of sulfides			
128.00	128.05	VT	37	85	NUL	1	small quartz carbonate veinlet with weak brecciation on its lower margin, no visible sulfides			
129.07	129.43	VB	37	70	NUL	1	small quartz carbonate vein with brecciated epithermal textures			
129.52	129.64	VB	37	70	NUL	1	sall quartz carbonate veinlet with brecciated texture, same as vein described above			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382802	6889290	1458.967	135.64

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-446

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: Sep 13 - Sep 14, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
15	34.86	-52.5	Reflex
135	37.46	-51.9	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.37	2.37	OVB
2.37	4.65	2.28	GRD
4.65	7.39	2.74	GRD
7.39	7.96	0.57	GRD
7.96	10.67	2.71	GRD
10.67	15.05	4.38	GRD
15.05	17.23	2.18	GRD
17.23	18.75	1.52	GRD
18.75	18.95	0.2	GRD
18.95	19.75	0.8	GRD
19.75	21	1.25	GRD
21	22	1	GRD
22	24.5	2.5	GRD
24.5	25.15	0.65	GRD
25.15	27.4	2.25	GRD
27.4	29.4	2	GRD

SAMPLES	
Numbers:	K294651 to K294715, W593589 to W593650, W599193
Total:	128
Batch:	048, 049, 050, 052, 053
Certificates:	WH19245865, WH19245869, WH19245885, WH19245903, WH19255796, WH19283115

COMMENTS

29.4	30.55	1.15	GRD
30.55	32	1.45	GRD
32	37.95	5.95	GRD
37.95	38.85	0.9	GRD
38.85	42.05	3.2	GRD
42.05	45.11	3.06	GRD
45.11	45.55	0.44	APL
45.55	45.7	0.15	GRD
45.7	47	1.3	GRD
47	51.45	4.45	GRD
51.45	52.22	0.77	GRD
52.22	52.6	0.38	GRD
52.6	53.75	1.15	GRD
53.75	53.96	0.21	VEN
53.96	55.8	1.84	GRD
55.8	64.66	8.86	GRD
64.66	73.3	8.64	GRD
73.3	75.5	2.2	GRD
75.5	78.7	3.2	GRD
78.7	79.5	0.8	GRD
79.5	90.4	10.9	GRD
90.4	90.75	0.35	GRD
90.75	94.55	3.8	GRD
94.55	95.05	0.5	GRD
95.05	96.7	1.65	GRD
96.7	99.61	2.91	GRD
99.61	103.24	3.63	GRD
103.24	106.16	2.92	GRD
106.16	108.7	2.54	GRD
108.7	112.78	4.08	GRD
112.78	114.8	2.02	GRD
114.8	114.86	0.06	APL

114.86	116	1.14	GRD
116	119	3	GRD
119	119.9	0.9	GRD
119.9	120.75	0.85	GRD
120.75	121.1	0.35	GRD
121.1	121.6	0.5	GRD
121.6	122.3	0.7	GRD
122.3	125.26	2.96	GRD
125.26	125.92	0.66	GRD
125.92	126.92	1	GRD
126.92	127.38	0.46	GRD
127.38	127.65	0.27	VEN
127.65	127.85	0.2	GRD
127.85	128.78	0.93	GRD
128.78	129.35	0.57	GRD
129.35	130.35	1	GRD
130.35	131.35	1	GRD
131.35	131.95	0.6	GRD
131.95	132.3	0.35	GRD
132.3	132.8	0.5	GRD
132.8	133.4	0.6	GRD
133.4	135.64	2.24	GRD

Box Log

KL -19-446

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	2.37	7.02
2	7.02	11.04
3	11.04	15.24
4	15.24	19.2
5	19.2	23.45
6	23.45	27.82
7	27.82	32.05
8	32.05	36.45
9	36.45	40.87
10	40.87	45.36
11	45.36	49.76
12	49.76	53.9
13	53.9	57.99
14	57.99	62.2
15	62.2	66.52
16	66.52	70.95
17	70.95	75.19
18	75.19	79.38
19	79.38	83.83
20	83.83	88.39
21	88.39	92.66
22	92.66	97.15
23	97.15	101.37
24	101.37	105.69
25	105.69	110.19
26	110.19	114.4
27	114.4	118.71
28	118.71	122.81
29	122.81	127.29
30	127.29	131.73
31	131.73	135.64

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-446									
	22.1	12	NTW	GRD	742.3	506.7	2.19	3.2	
	53	13	NTW	GRD	926.2	607.6	2.52	2.9	
	65.45	12	NTW	GRD	890	586.7	2.62	2.9	
	127.4	11	NTW	VEN	787.3	569.7	2.53	3.6	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.37	2.37	OVB	--	overburden							
2.37	4.65	2.28	GRD	MG	mixture of overburden and oxidized granodiorite							
						MD	BN		OXI	3I		
4.65	7.39	2.74	GRD	MG	medium grained medium brown to whitish greenish grey weakly argillic and clay altered granodiorite with weak oxidation and bleaching							
						MD	GY		BLE	2I		
						MD	BN		OXI	2I		
									ARG	2I		
									CLY	2I		
7.39	7.96	0.57	GRD	MG	medium grained, strongly clay altered and gouged faulted granodiorite							
						MD	BN					
						LT	GY		CLY	3I		
7.96	10.67	2.71	GRD	MG	meium grained, light brown to brownish grey weakly silicified and patchily oxidized granodiorite with very weak argillic alteration							
						MD	GY		BLE	2I		
						MD	BN		ARG	1I		
						LT	GY		OXI	2I		
10.67	15.05	4.38	GRD	MG	medium grained, medium greenish grey to grey weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidative haloes usrround fractures extending 1 cm from fracture surfaces							
						MD	BN		ARG	2I		
						MD	GN		PRO	2I		
						MD	GY					
15.05	17.23	2.18	GRD	MG	patchy weakly argillic altered granodiorite with weak oxidative staining on fracture surfaces							
						MD	GY		OXI	2I		
						LT	GN					
						LT	GN		ARG	2I		
17.23	18.75	1.52	GRD	MG	moderate to strong clay and argillic altered granodiorite possibly related to faulting							
						LT	GY		CLY	4I		
						LT	GN		ARG	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.75	18.95	0.20	GRD	MG	intensely clay altered, brecciated granodiorite							
						MD	BN		CLY	5I		
18.95	19.75	0.80	GRD	MG	weakly propylitic altered granodiorite, medium greenish grey to grey							
						MD	GN		PRO	2I		
						MD	GY					
19.75	21.00	1.25	GRD	MG	unaltered granodiorite							
						MD	GY					
21.00	22.00	1.00	GRD	MG	medium grained, moderately silicified and moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY		SIL	3I		
22.00	24.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
24.50	25.15	0.65	GRD	MG	weakly propylitic altered granodiorite, medium greenish grey							
						MD	GY		PRO	2I		
						MD	GN					
25.15	27.40	2.25	GRD	MG	medium grained unaltered granodiorite							
						MD	GY					
27.40	29.40	2.00	GRD	MG	medium grained weak to moderately argillic altered granodiorite with trace porpylitic overprint							
						MD	GN		PRO	1I		
						MD	GY					
						LT	WH		ARG	3I		
29.40	30.55	1.15	GRD	MG	medium grained moderately propylitic altered granodiorite overprinting weak argillic alteration							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
30.55	32.00	1.45	GRD	MG	medium grained moderately silicified and propylitic altered granodiorite							
						MD	GN		SIL	2I		
						MD	GY		PRO	2I		
32.00	37.95	5.95	GRD	MG	medium grained unaltered granodiorite with two patches of weak propylitic alteration ~10cm wide. Majority of interval is unaltered							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.95	38.85	0.90	GRD	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration, and weak pyrite bearing quartz veinlets developed throughotu interval (4)							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		ARG	3I		
						LT	WH					
38.85	42.05	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
42.05	45.11	3.06	GRD	MG	medium grained, weak to moderately silicified and propylitic altered granodiorite							
						MD	GY		SIL	3I		
						MD	GN		PRO	3I		
45.11	45.55	0.44	APL	FG	finegrained pinkish brown aplite dyke with patchy greyish green							
						MD	BN					
						MD	GY					
						MD	GN					
						LT	PK					
45.55	45.70	0.15	GRD	MG	pyrite bearing quartz vein within silicified and propylitic altered granodiorite							
						MD	GY		SIL	3I		
						MD	GN		PRO	3I	Py	1
45.70	47.00	1.30	GRD	MG	medium grained moderately propylitic and silicified granodiorite							
						MD	GY		SIL	3I		
						MD	GN		PRO	3I		
47.00	51.45	4.45	GRD	MG	unaltered granodiorite							
						MD	GY					
51.45	52.22	0.77	GRD	MG	medium grained clay altered granodiorite							
						MD	BN		CLY	4I		
						MD	GY					
52.22	52.60	0.38	GRD	MG	two pyrite bearing quartz veinlets trneding 70 TCA within silicified and propylitic altered granodiorite							
						MD	GN					
						MD	BN		PRO	3I	Py	1
						MD	GY		SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
52.60	53.75	1.15	GRD	MG	medium greained, oxidized and weakly silicified granodiorite with trace dissemianted pyrite within groundmass							
						MD	GY		OXI	2I		
						MD	GN		CLY	1I		
						MD	BN		SIL	2I		
									BLE	2I		
53.75	53.96	0.21	VEN	MG	medium grained, banded quartz vein with semimassive pyrite and fine grained galena bands.							
						MD	GY				Py	10
						LT	WH		SIL	5I	Gn	1
53.96	55.80	1.84	GRD	MG	unaltered granodiorite							
						MD	GY					
55.80	64.66	8.86	GRD	MG	medium grained mediu greenish grey weak to moderately propylitic altered granodiorite with weak argillic alteration							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH		PRO	2I		
64.66	73.30	8.64	GRD	MG	unaltered granodiorite							
						MD	GY					
73.30	75.50	2.20	GRD	MG	medium grained weak to moderate argillic and clay altered granodiorite with weak propylitic alteration							
						MD	GY		PRO	1I		
						MD	GN		CLY	3I		
									ARG	3I		
75.50	78.70	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
78.70	79.50	0.80	GRD	MG	medium grained weakly argillic altered granodiorite with weawk propylitic alteration							
						MD	GY		ARG	2I		
						LT	WH		PRO	2I		
79.50	90.40	10.90	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
90.40	90.75	0.35	GRD	MG	intensely clay altered possibly faulted granodiorite							
						MD	GY					
						MD	BN		CLY	4I		
90.75	94.55	3.80	GRD	MG	unalteredgranodiorite							
						MD	GY					
94.55	95.05	0.50	GRD	MG	weakly argillic alteredgranodiorite							
						MD	GY					
						LT	WH		ARG	1I		
95.05	96.70	1.65	GRD	MG	unaltered granodiorite							
						MD	GY					
96.70	99.61	2.91	GRD	MG	medium grained moderate to strong argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
99.61	103.24	3.63	GRD	MG	unaltered granodiorite							
						MD	GY					
103.24	106.16	2.92	GRD	MG	medium grained weakly argillic altered granodiorite with a trace propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH					
106.16	108.70	2.54	GRD	MG	unaltered granodiorite							
						MD	GY					
108.70	112.78	4.08	GRD	MG	medium grained greenish grey oderate propylitic altered granodiorite with weak carbonate veinlet stringers developed throughout							
						MD	GY					
						MD	GN		PRO	3I		
112.78	114.80	2.02	GRD	MG	unaltered granodiorite							
						MD	GY					
114.80	114.86	0.06	APL	FG	fine graine pinkish brown aplite dyke							
						LT	BN					
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.86	116.00	1.14	GRD	MG	unaltered granodiorite							
						MD	GY					
116.00	119.00	3.00	GRD	MG	medium grained patchy greenish whitish grey to medium grey with one patchy siliceous greenish grey patch, weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		ARG	3I		
						MD	GY		PRO	2I		
						LT	WH					
119.00	119.90	0.90	GRD	MG	intensely clay altered, oxidized and bleached, granodiorite likely related to faulting							
						MD	BN		OXI	3I		
						MD	GY		CLY	5I		
						LT	WH		BLE	3I		
119.90	120.75	0.85	GRD	MG	unaltered granodiorite							
						MD	GY					
120.75	121.10	0.35	GRD	MG	medium graeiend intensely clay altere granodiorite, likely related to faulting							
						MD	GN		CLY	4I		
						MD	GY					
121.10	121.60	0.50	GRD	MG	unaltered granodiorite							
						MD	GY					
121.60	122.30	0.70	GRD	MG	clay altered granodiorite, likely related to faulting							
						MD	GY					
						LT	WH		CLY	3I		
						LT	GN					
122.30	125.26	2.96	GRD	MG	unaltered granodiorite							
						MD	GY					
125.26	125.92	0.66	GRD	MG	siliceous moderate to strongly propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets developed throughout interval							
						MD	GY		PRO	5I	Py	1
						LT	GN		SIL	3I		
125.92	126.92	1.00	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
126.92	127.38	0.46	GRD	MG	medium grained moderate argillic and weak propylitic alterd grano							
						MD	GY					
						LT	GN		PRO	1I		
						LT	WH		ARG	3I		
127.38	127.65	0.27	VEN	MG	medium to dinegrained, quartz carbonate vein with bands of disseminated blebby pyrite and bands of sphalerite, carbonate, and fine-grained galena (rare)							
						MD	GY		SIL	5I	Gn	0.5
						LT	WH				Sp	2
											Py	4
127.65	127.85	0.20	GRD	MG	moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
127.85	128.78	0.93	GRD	MG	unaltered granodiorite							
128.78	129.35	0.57	GRD	MG	weak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN		PRO	3I		
129.35	130.35	1.00	GRD	MG	unaltered granodiorite							
130.35	131.35	1.00	GRD	MG	moderate to strong propylitic altered granodiorite with 4 small pyrite beraing quartz veinlets in this interval							
						MD	GY		PRO	4I	Py	2
						MD	GN					
131.35	131.95	0.60	GRD	MG	uunaltered granodiorite							
131.95	132.30	0.35	GRD	MG	strongly propylitic altered granodiorite with one small 3 cm wide galena + sphal + pyrite bearing quartz veinlet							
						MD	GN		PRO	4I	Py	1
											Gn	1
											Sp	1
132.30	132.80	0.50	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
132.80	133.40	0.60	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	4I		
						MD	GY					
133.40	135.64	2.24	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	2.37	2.37	OVB	OVB	--	overburden
2.37	4.65	2.28	GRD	GRDA	MG	mixture of overburden and oxidized granodiorite
4.65	7.39	2.74	GRD	GRDA	MG	medium grained medium brown to whitish greenish grey weakly argillic and clay altered granodiorite with weak oxidation and bleaching
7.39	7.96	0.57	GRD	GRDF	MG	medium grained, strongly clay altered and gouged faulted granodiorite
7.96	10.67	2.71	GRD	GRDA	MG	meium grained, light brown to brownish grey weakly silicified and patchily oxidized granodiorite with very weak argillic alteration
10.67	15.05	4.38	GRD	GRDA	MG	medium grained, medium greenish grey to grey weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidative haloes usrround fractures extending 1 cm from fracture surfaces
15.05	17.23	2.18	GRD	GRDA	MG	patchy weakly argillic altered granodiorite with weak oxidative staining on fracture surfaces
17.23	18.75	1.52	GRD	GRDA	MG	moderate to strong clay and argillic altered granodiorite possibly related to faulting
18.75	18.95	0.20	GRD	GRDF	MG	intensely clay altered, brecciated granodiorite
18.95	19.75	0.80	GRD	GRDA	MG	weakly propylitic altered granodiorite, medium greenish grey to grey
19.75	21.00	1.25	GRD	GRD	MG	unaltered granodiorite
21.00	22.00	1.00	GRD	GRDA	MG	medium grained, moderately silicified and moderately propylitic altered granodiorite
22.00	24.50	2.50	GRD	GRD	MG	unaltered granodiorite
24.50	25.15	0.65	GRD	GRDA	MG	weakly propylitic altered granodiorite, medium greenish grey
25.15	27.40	2.25	GRD	GRD	MG	medium grained unaltered granodiorite
27.40	29.40	2.00	GRD	GRDA	MG	medium grained weak to moderately argillic altered granodiorite with trace porpylitic overprint
29.40	30.55	1.15	GRD	GRDA	MG	medium grained moderately propylitic altered granodiorite overprinting weak argillic alteration
30.55	32.00	1.45	GRD	GRDA	MG	medium grained moderately silicified and propylitic altered granodiorite
32.00	37.95	5.95	GRD	GRD	MG	medium grained unaltered granodiorite with two patches of weak propylitic alteration ~10cm wide. Majority of interval is unaltered
37.95	38.85	0.90	GRD	GRDM	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration, and weak pyrite bearing quartz veinlets developed throughotu interval (4)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
38.85	42.05	3.20	GRD	GRD	MG	unaltered granodiorite
42.05	45.11	3.06	GRD	GRDA	MG	medium grained, weak to moderately silicified and propylitic altered granodiorite
45.11	45.55	0.44	APL	DYK	FG	finegrained pinkish brown aplite dyke with patchy greyish green
45.55	45.70	0.15	GRD	GRDM	MG	pyrite bearing quartz vein within silicified and propylitic altered granodiorite
45.70	47.00	1.30	GRD	GRDA	MG	medium grained moderately propylitic and silicified granodiorite
47.00	51.45	4.45	GRD	GRD	MG	unaltered granodiorite
51.45	52.22	0.77	GRD	GRDA	MG	medium grained clay altered granodiorite
52.22	52.60	0.38	GRD	GRDM	MG	two pyrite bearing quartz veinlets trneding 70 TCA within silicified and propylitic altered granodiorite
52.60	53.75	1.15	GRD	GRDA	MG	medium greained, oxidized and weakly silicified granodiorite with trace dissemianted pyrite within groundmass
53.75	53.96	0.21	VEN	VEIN	MG	medium grained, banded quartz vein with semimassive pyrite and fine grained galena bands.
53.96	55.80	1.84	GRD	GRD	MG	unaltered granodiorite
55.80	64.66	8.86	GRD	GRDA	MG	medium grained mediu greenish grey weak to moderately propylitic altered granodiorite with weak argillic alteration
64.66	73.30	8.64	GRD	GRD	MG	unaltered granodiorite
73.30	75.50	2.20	GRD	GRDA	MG	medium grained weak to moderate argillic and clay altered granodiorite with weak propylitic alteration
75.50	78.70	3.20	GRD	GRD	MG	unaltered granodiorite
78.70	79.50	0.80	GRD	GRDA	MG	medium grained weakly argillic altered granodiorite with weawk propylitic alteration
79.50	90.40	10.90	GRD	GRD	MG	unaltered granodiorite
90.40	90.75	0.35	GRD	GRDF	MG	intensely clay altered possibly faulted granodiorite
90.75	94.55	3.80	GRD	GRD	MG	unalteredgranodiorite
94.55	95.05	0.50	GRD	GRDA	MG	weakly argillic alteredgranodiorite
95.05	96.70	1.65	GRD	GRD	MG	unaltered granodiorite
96.70	99.61	2.91	GRD	GRDA	MG	medium grained moderate to strong argillic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
99.61	103.24	3.63	GRD	GRD	MG	unaltered granodiorite
103.24	106.16	2.92	GRD	GRDA	MG	medium grained weakly argillic altered granodiorite with a trace propylitic overprint
106.16	108.70	2.54	GRD	GRD	MG	unaltered granodiorite
108.70	112.78	4.08	GRD	GRDA	MG	medium grained greenish grey oderate propylitic altered granodiorite with weak carbonate veinlet stringers developed throughout
112.78	114.80	2.02	GRD	GRD	MG	unaltered granodiorite
114.80	114.86	0.06	APL	DYK	FG	fine graine pinkish brown aplite dyke
114.86	116.00	1.14	GRD	GRD	MG	unaltered granodiorite
116.00	119.00	3.00	GRD	GRDA	MG	medium grained patchy greenish whitish grey to medium grey with one patchy siliceous greenish grey patch, weak to moderately argillic altered granodiorite with a weak propylitic overprint
119.00	119.90	0.90	GRD	GRDA	MG	intensely clay altered, oxidized and bleached, granodiorite likely related to faulting
119.90	120.75	0.85	GRD	GRD	MG	unaltered granodiorite
120.75	121.10	0.35	GRD	GRDF	MG	medium graeiend intensely clay altere granodiorite, likely related to faulting
121.10	121.60	0.50	GRD	GRD	MG	unaltered granodiorite
121.60	122.30	0.70	GRD	GRDF	MG	clay altered granodiorite, likely related to faulting
122.30	125.26	2.96	GRD	GRD	MG	unaltered granodiorite
125.26	125.92	0.66	GRD	GRDM	MG	siliceous moderate to strongly propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets developed throughout interval
125.92	126.92	1.00	GRD	GRD	MG	unaltered granodiorite
126.92	127.38	0.46	GRD	GRDA	MG	medium grained moderate argillic and weak propylitic alterd grano
127.38	127.65	0.27	VEN	VEIN	MG	medium to dinegrained, quartz carbonate vein with bands of disseminated blebby pyrite and bands of sphalerite, carbonate, and fine-grained galena (rare)
127.65	127.85	0.20	GRD	GRDA	MG	moderate propylitic altered granodiorite
127.85	128.78	0.93	GRD	GRD	MG	unaltered granodiorite
128.78	129.35	0.57	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
129.35	130.35	1.00	GRD	GRD	MG	unaltered granodiorite
130.35	131.35	1.00	GRD	GRDM	MG	moderate to strong propylitic altered granodiorite with 4 small pyrite beraing quartz veinlets in this interval
131.35	131.95	0.60	GRD	GRD	MG	uunaltered granodiorite
131.95	132.30	0.35	GRD	GRDM	MG	strongly propylitic altered granodiorite with one small 3 cm wide galena + sphal + pyrite bearing quartz veinlet
132.30	132.80	0.50	GRD	GRD	MG	unaltered granodiorite
132.80	133.40	0.60	GRD	GRDA	MG	moderately propylitic altered granodiorite
133.40	135.64	2.24	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.37	2.37	OVB	--	overburden							
2.37	4.65	2.28	GRD	MG	mixture of overburden and oxidized granodiorite							
						MD	BN		OXI	3I		
4.65	7.39	2.74	GRD	MG	medium grained medium brown to whitish greenish grey weakly argillic and clay altered granodiorite with weak oxidation and bleaching							
						MD	BN		BLE	2I		
						MD	GY		ARG	2I		
									CLY	2I		
									OXI	2I		
7.39	7.96	0.57	GRD	MG	medium grained, strongly clay altered and gouged faulted granodiorite							
						LT	GY		CLY	3I		
						MD	BN					
7.96	10.67	2.71	GRD	MG	meium grained, light brown to brownish grey weakly silicified and patchily oxidized granodiorite with very weak argillic alteration							
						MD	BN		BLE	2I		
						LT	GY		ARG	1I		
						MD	GY		OXI	2I		
10.67	15.05	4.38	GRD	MG	medium grained, medium greenish grey to grey weakly argillic altered granodiorite with a weak propylitic overprint. Weak oxidative haloes usrround fractures extending 1 cm from fracture surfaces							
						MD	GN		ARG	2I		
						MD	BN		PRO	2I		
						MD	GY					
15.05	17.23	2.18	GRD	MG	patchy weakly argillic altered granodiorite with weak oxidative staining on fracture surfaces							
						LT	GN		ARG	2I		
						LT	GN		OXI	2I		
						MD	GY					
17.23	18.75	1.52	GRD	MG	moderate to strong clay and argillic altered granodiorite possibly related to faulting							
						LT	GY		CLY	4I		
						LT	GN		ARG	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.75	18.95	0.20	GRD	MG	intensely clay altered, brecciated granodiorite							
						MD	BN		CLY	5I		
18.95	19.75	0.80	GRD	MG	weakly propylitic altered granodiorite, medium greenish grey to grey							
						MD	GY		PRO	2I		
						MD	GN					
19.75	21.00	1.25	GRD	MG	unaltered granodiorite							
						MD	GY					
21.00	22.00	1.00	GRD	MG	medium grained, moderately silicified and moderately propylitic altered granodiorite							
						MD	GY		SIL	3I		
						MD	GN		PRO	3I		
22.00	24.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
24.50	25.15	0.65	GRD	MG	weakly propylitic altered granodiorite, medium greenish grey							
						MD	GN		PRO	2I		
						MD	GY					
25.15	27.40	2.25	GRD	MG	medium grained unaltered granodiorite							
						MD	GY					
27.40	29.40	2.00	GRD	MG	medium grained weak to moderately argillic altered granodiorite with trace porpylitic overprint							
						MD	GN		ARG	3I		
						LT	WH		PRO	1I		
						MD	GY					
29.40	30.55	1.15	GRD	MG	medium grained moderately propylitic altered granodiorite overprinting weak argillic alteration							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
30.55	32.00	1.45	GRD	MG	medium grained moderately silicified and propylitic altered granodiorite							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I		
32.00	37.95	5.95	GRD	MG	medium grained unaltered granodiorite with two patches of weak propylitic alteration ~10cm wide. Majority of interval is unaltered							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.95	38.85	0.90	GRD	MG	medium grained moderately argillic altered granodiorite with moderate propylitic alteration, and weak pyrite bearing quartz veinlets developed throughotu interval (4)							
						LT	WH					
						MD	GN		ARG	3I		
						MD	GY		PRO	4I	Py	0.5
38.85	42.05	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
42.05	45.11	3.06	GRD	MG	medium grained, weak to moderately silicified and propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY		SIL	3I		
45.11	45.55	0.44	APL	FG	finegrained pinkish brown aplite dyke with patchy greyish green							
						MD	GN					
						MD	GY					
						MD	BN					
						LT	PK					
45.55	45.70	0.15	GRD	MG	pyrite bearing quartz vein within silicified and propylitic altered granodiorite							
						MD	GN		SIL	3I		
						MD	GY		PRO	3I	Py	1
45.70	47.00	1.30	GRD	MG	medium grained moderately propylitic and silicified granodiorite							
						MD	GY		PRO	3I		
						MD	GN		SIL	3I		
47.00	51.45	4.45	GRD	MG	unaltered granodiorite							
						MD	GY					
51.45	52.22	0.77	GRD	MG	medium grained clay altered granodiorite							
						MD	BN					
						MD	GY		CLY	4I		
52.22	52.60	0.38	GRD	MG	two pyrite bearing quartz veinlets trneding 70 TCA within silicified and propylitic altered granodiorite							
						MD	GY		PRO	3I	Py	1
						MD	BN		SIL	3I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
52.60	53.75	1.15	GRD	MG	medium greained, oxidized and weakly silicified granodiorite with trace dissemianted pyrite within groundmass							
						MD	GY		SIL	2I		
						MD	GN		BLE	2I		
						MD	BN		OXI	2I		
									CLY	1I		
53.75	53.96	0.21	VEN	MG	medium grained, banded quartz vein with semimassive pyrite and fine grained galena bands.							
						MD	GY		SIL	5I	Py	10
						LT	WH				Gn	1
53.96	55.80	1.84	GRD	MG	unaltered granodiorite							
						MD	GY					
55.80	64.66	8.86	GRD	MG	medium grained mediu greenish grey weak to moderately propylitic altered granodiorite with weak argillic alteration							
						LT	WH					
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
64.66	73.30	8.64	GRD	MG	unaltered granodiorite							
						MD	GY					
73.30	75.50	2.20	GRD	MG	medium grained weak to moderate argillic and clay altered granodiorite with weak propylitic alteration							
						MD	GY		PRO	1I		
									ARG	3I		
						MD	GN		CLY	3I		
75.50	78.70	3.20	GRD	MG	unaltered granodiorite							
						MD	GY					
78.70	79.50	0.80	GRD	MG	medium grained weakly argillic altered granodiorite with weawk propylitic alteration							
						LT	WH		PRO	2I		
						MD	GY		ARG	2I		
79.50	90.40	10.90	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
90.40	90.75	0.35	GRD	MG	intensely clay altered possibly faulted granodiorite							
						MD	GY					
						MD	BN		CLY	4I		
90.75	94.55	3.80	GRD	MG	unalteredgranodiorite							
						MD	GY					
94.55	95.05	0.50	GRD	MG	weakly argillic alteredgranodiorite							
						MD	GY		ARG	1I		
						LT	WH					
95.05	96.70	1.65	GRD	MG	unaltered granodiorite							
						MD	GY					
96.70	99.61	2.91	GRD	MG	medium grained moderate to strong argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
99.61	103.24	3.63	GRD	MG	unaltered granodiorite							
						MD	GY					
103.24	106.16	2.92	GRD	MG	medium grained weakly argillic altered granodiorite with a trace propylitic overprint							
						MD	GN					
						MD	GY		ARG	2I		
						LT	WH					
106.16	108.70	2.54	GRD	MG	unaltered granodiorite							
						MD	GY					
108.70	112.78	4.08	GRD	MG	medium grained greenish grey oderate propylitic altered granodiorite with weak carbonate veinlet stringers developed throughout							
						MD	GN		PRO	3I		
						MD	GY					
112.78	114.80	2.02	GRD	MG	unaltered granodiorite							
						MD	GY					
114.80	114.86	0.06	APL	FG	fine graine pinkish brown aplite dyke							
						LT	PK					
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.86	116.00	1.14	GRD	MG	unaltered granodiorite							
						MD	GY					
116.00	119.00	3.00	GRD	MG	medium grained patchy greenish whitish grey to medium grey with one patchy siliceous greenish grey patch, weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						LT	WH					
						MD	GY		PRO	2I		
						MD	GN		ARG	3I		
119.00	119.90	0.90	GRD	MG	intensely clay altered, oxidized and bleached, granodiorite likely related to faulting							
						LT	WH		BLE	3I		
						MD	GY		CLY	5I		
						MD	BN		OXI	3I		
119.90	120.75	0.85	GRD	MG	unaltered granodiorite							
						MD	GY					
120.75	121.10	0.35	GRD	MG	medium graeiend intensely clay altere granodiorite, likely related to faulting							
						MD	GY		CLY	4I		
						MD	GN					
121.10	121.60	0.50	GRD	MG	unaltered granodiorite							
						MD	GY					
121.60	122.30	0.70	GRD	MG	clay altered granodiorite, likely related to faulting							
						LT	GN		CLY	3I		
						LT	WH					
						MD	GY					
122.30	125.26	2.96	GRD	MG	unaltered granodiorite							
						MD	GY					
125.26	125.92	0.66	GRD	MG	siliceous moderate to strongly propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets developed throughout interval							
						LT	GN		SIL	3I		
						MD	GY		PRO	5I	Py	1
125.92	126.92	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
126.92	127.38	0.46	GRD	MG	medium grained moderate argillic and weak propylitic alterd grano							
						MD	GY					
						LT	WH		PRO	1I		
						LT	GN		ARG	3I		
127.38	127.65	0.27	VEN	MG	medium to finegrained, quartz carbonate vein with bands of disseminated blebby pyrite and bands of sphalerite, carbonate, and fine-grained galena (rare)							
						MD	GY				Py	4
						LT	WH		SIL	5I	Sp	2
											Gn	0.5
127.65	127.85	0.20	GRD	MG	moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
127.85	128.78	0.93	GRD	MG	unaltered granodiorite							
128.78	129.35	0.57	GRD	MG	weak to moderate argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN		PRO	3I		
						MD	GY		ARG	3I		
129.35	130.35	1.00	GRD	MG	unaltered granodiorite							
130.35	131.35	1.00	GRD	MG	moderate to strong propylitic altered granodiorite with 4 small pyrite beraing quartz veinlets in this interval							
						MD	GY					
						MD	GN		PRO	4I	Py	2
131.35	131.95	0.60	GRD	MG	uunaltered granodiorite							
131.95	132.30	0.35	GRD	MG	strongly propylitic altered granodiorite with one small 3 cm wide galena + sphal + pyrite bearing quartz veinlet							
											Gn	1
											Sp	1
						MD	GN		PRO	4I	Py	1
132.30	132.80	0.50	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
132.80	133.40	0.60	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	4I		
						MD	GY					
133.40	135.64	2.24	GRD	MG	unaltered granodiorite							

KL -19-446

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.37	2.37	0	0	0.00	0	--	--	--	
2.37	3.05	0.68	0.68	100	0.00	0	--	1H	6W	
3.05	4.57	1.52	1.48	97	0.00	0	--	1H	6W	
4.57	6.10	1.53	1.5	98	0.80	52	--	2H	3W	
6.10	9.14	3.04	2.96	97	1.80	59	--	3H	3W	
9.14	12.19	3.05	2.89	95	2.23	73	--	3H	2W	
12.19	15.24	3.05	2.94	96	2.08	68	--	3H	2W	
15.24	18.29	3.05	3.05	100	1.24	41	--	3H	2W	
18.29	20.12	1.83	1.81	99	1.10	60	--	3H	2W	
20.12	22.86	2.74	2.57	94	2.11	77	--	4H	2W	
22.86	25.91	3.05	3	98	2.48	81	--	4H	2W	
25.91	28.96	3.05	2.97	97	2.74	90	--	3H	2W	
28.96	32.00	3.04	3.04	100	2.54	84	--	3H	2W	
32.00	35.05	3.05	3.05	100	2.65	87	--	4H	2W	
35.05	38.10	3.05	2.98	98	2.68	88	--	4H	2W	
38.10	41.15	3.05	2.99	98	2.63	86	--	4H	2W	
41.15	44.20	3.05	3.03	99	2.54	83	--	4H	1W	
44.20	47.24	3.04	2.96	97	2.64	87	--	4H	1W	
47.24	50.29	3.05	3.04	100	2.73	90	--	4H	1W	
50.29	53.34	3.05	2.78	91	1.47	48	--	3H	1W	
53.34	56.39	3.05	2.8	92	1.32	43	--	3H	1W	
56.39	59.44	3.05	2.98	98	2.04	67	--	3H	1W	
59.44	62.48	3.04	3.04	100	2.48	82	--	4H	1W	
62.48	65.53	3.05	3.02	99	2.52	83	--	4H	1W	
65.53	68.58	3.05	2.99	98	2.88	94	--	4H	1W	
68.58	71.63	3.05	3.05	100	2.90	95	--	4H	1W	
71.63	74.07	2.44	2.4	98	1.65	68	--	3H	1W	
74.07	76.20	2.13	2.13	100	0.90	42	--	3H	1W	
76.20	79.25	3.05	2.8	92	1.22	40	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	82.30	3.05	2.98	98	2.71	89	--	3H	1W	
82.30	85.34	3.04	2.96	97	2.39	79	--	4H	1W	
85.34	88.39	3.05	2.94	96	2.72	89	--	3H	1W	
88.39	91.44	3.05	3.02	99	2.72	89	--	4H	1W	
91.44	94.49	3.05	3.05	100	2.78	91	--	4H	1W	
94.49	97.54	3.05	3.04	100	2.48	81	--	4H	1W	
97.54	100.58	3.04	2.89	95	1.61	53	--	3H	1W	
100.58	103.63	3.05	2.95	97	2.77	91	--	4H	1W	
103.63	106.68	3.05	3.02	99	2.64	87	--	3H	1W	
106.68	109.73	3.05	3.05	100	2.72	89	--	4H	1W	
109.73	112.78	3.05	3.05	100	2.62	86	--	3H	1W	
112.78	115.82	3.04	2.96	97	2.54	84	--	4H	1W	
115.82	118.87	3.05	3.02	99	0.94	31	--	3H	1W	
118.87	121.92	3.05	3.05	100	1.94	64	--	3H	1W	
121.92	124.97	3.05	2.97	97	2.64	87	--	4H	1W	
124.97	126.49	1.52	1.52	100	1.46	96	--	4H	1W	
126.49	129.54	3.05	3	98	2.83	93	--	3H	1W	
129.54	132.59	3.05	2.97	97	2.84	93	--	4H	1W	
132.59	135.64	3.05	3.04	100	2.95	97	--	4H	1W	

KL -19-446

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	highly fractured
2	0	OVB	highly fractured
3	0	GRD	highly fractured
4	0	GRD	highly fractured
5	2.56	GRD	
6	0.232	GRD	
7	0.511	GRD	
8	0.279	GRD	
9	0.468	GRD	
10	0.339	GRD	
11	0.675	GRD	
12	0.312	GRD	
13	0.294	GRD	
14	0.286	GRD	
15	0.408	GRD	
16	6.185	GRD	
17	0.367	GRD	
18	0.245	GRD	
19	0.334	GRD	
20	18.48	GRD	
21	12.66	GRD	
21	12.66	GRD	
22	0.539	GRD	
22	0.539	GRD	
23	13.07	GRD	
24	24.73	GRD	
25	0.655	GRD	
26	19.85	GRD	
27	24.31	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.702	GRD	
29	0.317	GRD	
30	1.236	GRD	
31	0.646	GRD	
32	2.739	GRD	
32	2.739	GRD	
33	0.817	GRD	
34	20.16	GRD	
35	17.66	GRD	
36	19.77	GRD	
37	21.15	GRD	
38	7.297	GRD	
39	16.69	GRD	
40	14.93	GRD	
41	23.39	GRD	
42	20.42	GRD	
43	0.489	GRD	
44	1.827	GRD	
45	19.03	GRD	
46	1.473	GRD	
47	0.341	GRD	
47	0.341	GRD	
48	8.299	GRD	
49	18.51	GRD	
50	20.9	GRD	
51	17.37	GRD	
52	1.34	GRD	
53	0.329	GRD	
54	0.289	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	0.487	GRD	
56	8.927	GRD	
57	5.679	GRD	
58	1.295	GRD	
59	0.447	GRD	
60	0.313	GRD	
61	0.51	GRD	
62	0.178	GRD	
63	0.298	GRD	
64	0.967	GRD	
65	7.412	GRD	
66	8.729	GRD	
67	8.032	GRD	
68	1.48	GRD	
69	10.11	GRD	
70	10.91	GRD	
71	11.32	GRD	
72	10.987	GRD	
73	9.233	GRD	
74	8.213	GRD	
75	0.419	GRD	
76	10.77	GRD	
77	5.641	GRD	
78	7.476	GRD	
79	10.12	GRD	
80	10.15	GRD	
81	9.098	GRD	
82	9.252	GRD	
83	10.59	GRD	
84	11.86	GRD	
85	11.85	GRD	
86	11.53	GRD	
87	7.546	GRD	
88	12.28	GRD	
89	10.63	GRD	
90	9.579	GRD	
91	12.58	GRD	
92	8.707	GRD	
93	10.38	GRD	
94	4.114	GRD	
95	3.736	GRD	
96	8.403	GRD	
97	0.313	GRD	
98	0.369	GRD	
99	0.939	GRD	
100	13.11	GRD	
101	11.86	GRD	
102	9.058	GRD	
103	5.956	GRD	
104	7.007	GRD	
105	3.391	GRD	
106	0.952	GRD	
107	13.56	GRD	
108	0.296	GRD	
109	0.349	GRD	
110	0.203	GRD	
111	0.959	GRD	
112	0.111	GRD	
113	2.725	GRD	
114	0.991	GRD	
115	22.74	GRD	
116	1.343	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
116	1.343	GRD	
117	16.18	GRD	
118	16.15	GRD	
119	0.729	GRD	
119	0.729	GRD	
120	23.4	GRD	
121	23.36	GRD	
122	17.31	GRD	
123	23.38	GRD	
124	19.33	GRD	
125	21.04	GRD	
126	21.95	GRD	
127	0.944	GRD	
128	13.07	GRD	
129	0.933	GRD	
130	14.01	GRD	
131	0.536	GRD	
132	12.03	GRD	
133	8.635	GRD	
134	20.06	GRD	
135	18.67	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593622	☐	19-050	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294653	☐	19-052	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593628	☐	19-050	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593607	☐	19-050	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294715	☐	19-053	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294707	☐	19-053	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294693	☐	19-053	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294674	☐	19-052	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294666	☐	19-052	low grade	ME-16	☐	☐	☐
2.27	4.77	2.50	OVB	1.35	54	W593589	☐	19-048	low grade		☐	☐	☐
4.77	7.27	2.50	GRD	1.48	59	W593590	☐	19-048	low grade		☐	☐	☐
7.27	8.22	0.95	GRD	0.95	100	W593591	☐	19-048	low grade		☐	☐	☐
8.22	9.72	1.50	GRD	1.43	95	W593592	☐	19-048	low grade		☐	☐	☐
9.72	11.22	1.50	GRD	1.48	99	W593593	☐	19-048	low grade		☐	☐	☐
9.72	11.22	1.50	GRD	1.48	99	W593594	☐	19-048	low grade		☐	☑	☐
11.22	12.72	1.50	GRD	1.50	100	W593595	☐	19-048	low grade		☐	☐	☐
12.72	13.72	1.00	GRD	1.00	100	W593596	☐	19-048	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
13.72	15.22	1.50	GRD	1.48	99	W593597	☐	19-048	low grade		☐	☐	☐
15.22	15.80	0.58	GRD	0.58	100	W593598	☐	19-048	low grade		☐	☐	☐
15.80	17.23	1.43	GRD	1.43	100	W593599	☐	19-048	low grade		☐	☐	☐
17.23	18.29	1.06	GRD, GRD	1.05	99	W593600	☐	19-048	low grade		☐	☐	☐
18.29	19.42	1.13	GRD	1.12	99	W593601	☐	19-050	low grade		☐	☐	☐
19.42	20.21	0.79	GRD	0.79	100	W593602	☐	19-050	low grade		☐	☐	☐
20.21	21.01	0.80	GRD	0.80	100	W593603	☐	19-050	low grade		☐	☐	☐
21.01	22.05	1.04	GRD	1.02	98	W593604	☐	19-050	low grade		☐	☐	☐
22.05	23.55	1.50	GRD	1.48	99	W593605	☐	19-050	low grade		☐	☐	☐
23.55	25.05	1.50	GRD	1.48	99	W593606	☐	19-050	low grade		☐	☐	☐
25.05	26.55	1.50	GRD	1.50	100	W593608	☐	19-050	low grade		☐	☐	☐
26.55	28.05	1.50	GRD	1.50	100	W593609	☐	19-050	low grade		☐	☐	☐
28.05	29.40	1.35	GRD	1.32	98	W593610	☐	19-050	low grade		☐	☐	☐
29.40	30.07	0.67	GRD, GRD	0.32	48	W593611	☐	19-050	low grade		☐	☐	☐
30.07	31.20	1.13	GRD	1.13	100	W593612	☐	19-050	low grade		☐	☐	☐
30.07	31.20	1.13	GRD	1.13	100	W593613	☐	19-050	low grade		☐	☐	☑
31.20	31.70	0.50	GRD	0.40	80	W593614	☐	19-050	low grade		☐	☐	☐
31.70	33.00	1.30	GRD	1.30	100	W593615	☐	19-050	low grade		☐	☐	☐
33.00	34.50	1.50	GRD	1.50	100	W593616	☐	19-050	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
34.50	34.86	0.36	GRD	0.35	97	W593617	☐	19-050	low grade		☐	☐	☐
34.86	36.15	1.29	GRD	1.29	100	W593618	☐	19-050	low grade		☐	☐	☐
36.15	37.15	1.00	GRD	1.00	100	W593619	☐	19-050	low grade		☐	☐	☐
37.15	38.20	1.05	GRD	1.03	98	W593620	☐	19-050	low grade		☐	☐	☐
38.20	38.81	0.61	GRD	0.60	98	W593621	☐	19-050	low grade		☐	☐	☐
38.81	40.30	1.49	GRD	1.48	99	W593623	☐	19-050	low grade		☐	☐	☐
40.30	41.80	1.50	GRD	1.50	100	W593624	☐	19-050	low grade		☐	☐	☐
41.80	43.08	1.28	GRD	1.28	100	W593625	☐	19-050	low grade		☐	☐	☐
43.08	43.68	0.60	GRD	0.60	100	W593626	☐	19-050	low grade		☐	☐	☐
43.68	44.83	1.15	GRD	1.10	96	W593627	☐	19-050	low grade		☐	☐	☐
44.83	45.55	0.72	GRD	0.70	97	W593629	☐	19-050	low grade		☐	☐	☐
45.55	46.09	0.54	GRD, APL	0.52	96	W593630	☐	19-050	low grade		☐	☐	☐
46.09	47.00	0.91	GRD	0.90	99	W593631	☐	19-050	low grade		☐	☐	☐
47.00	48.50	1.50	GRD, GRD	1.50	100	W593632	☐	19-050	low grade		☐	☐	☐
48.50	50.00	1.50	GRD	1.50	100	W593633	☐	19-050	low grade		☐	☐	☐
50.00	51.25	1.25	GRD	1.25	100	W593634	☐	19-050	low grade		☐	☐	☐
50.00	51.25	1.25	GRD	1.25	100	W593635	☐	19-050	low grade		☐	☑	☐
51.25	52.00	0.75	GRD	0.75	100	W593636	☐	19-050	low grade		☐	☐	☐
52.00	52.60	0.60	GRD	0.58	97	W593637	☐	19-050	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
52.60	53.65	1.05	GRD, GRD	1.03	98	W593638	☐	19-050	low grade		☐	☐	☐
53.65	53.95	0.30	GRD	0.30	100	W593639	☐	19-050	low grade		☐	☐	☐
53.95	55.00	1.05	VEN	1.00	95	W593640	☐	19-050	low grade		☐	☐	☐
55.00	56.50	1.50	GRD	1.50	100	W593641	☐	19-052	low grade		☐	☐	☐
56.50	58.00	1.50	GRD	1.50	100	W593642	☐	19-052	low grade		☐	☐	☐
58.00	59.50	1.50	GRD	1.50	100	W593643	☐	19-052	low grade		☐	☐	☐
59.50	61.00	1.50	GRD	1.48	99	W593644	☐	19-052	low grade		☐	☐	☐
61.00	62.50	1.50	GRD	1.50	100	W593645	☐	19-052	low grade		☐	☐	☐
62.50	64.00	1.50	GRD	1.50	100	W593646	☐	19-052	low grade		☐	☐	☐
62.50	64.00	1.50	GRD	1.50	100	W593647	☐	19-052	low grade		☐	☑	☐
64.00	65.50	1.50	GRD	1.49	99	W593648	☐	19-052	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W593649	☐	19-052	low grade		☐	☐	☐
67.00	68.50	1.50	GRD	1.48	99	W593650	☐	19-052	low grade		☐	☐	☐
68.50	70.00	1.50	GRD	1.50	100	K294651	☐	19-052	low grade		☐	☐	☐
70.00	71.50	1.50	GRD	1.50	100	K294652	☐	19-052	low grade		☐	☐	☐
71.50	73.00	1.50	GRD	1.50	100	K294654	☐	19-052	low grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.50	100	K294655	☐	19-052	low grade		☐	☐	☐
74.50	76.00	1.50	GRD	1.50	100	K294656	☐	19-052	low grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.48	99	K294657	☐	19-052	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
77.50	79.00	1.50	GRD	1.47	98	K294658	☐	19-052	low grade		☐	☐	☐
77.50	79.00	1.50	GRD	1.47	98	K294659	☐	19-052	low grade		☐	☐	☑
79.00	80.50	1.50	GRD	1.50	100	K294660	☐	19-052	low grade		☐	☐	☐
80.50	81.43	0.93	GRD	0.90	97	K294661	☐	19-052	low grade		☐	☐	☐
81.43	81.83	0.40	GRD	0.40	100	K294662	☐	19-052	low grade		☐	☐	☐
81.83	83.00	1.17	GRD	1.16	99	K294663	☐	19-052	low grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.50	100	K294664	☐	19-052	low grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.50	100	K294665	☐	19-052	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	K294667	☐	19-052	low grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.50	100	K294668	☐	19-052	low grade		☐	☐	☐
89.00	90.50	1.50	GRD	1.50	100	K294669	☐	19-052	low grade		☐	☐	☐
90.50	92.00	1.50	GRD	1.48	99	K294670	☐	19-052	low grade		☐	☐	☐
92.00	93.50	1.50	GRD	1.50	100	K294671	☐	19-052	low grade		☐	☐	☐
93.50	95.00	1.50	GRD	1.50	100	K294672	☐	19-052	low grade		☐	☐	☐
95.00	96.50	1.50	GRD	1.50	100	K294673	☐	19-052	low grade		☐	☐	☐
96.50	97.50	1.00	GRD	1.00	100	K294675	☐	19-052	low grade		☐	☐	☐
97.50	99.00	1.50	GRD	1.50	100	K294676	☐	19-052	low grade		☐	☐	☐
99.00	100.50	1.50	GRD	1.50	100	K294677	☐	19-052	low grade		☐	☐	☐
100.50	102.00	1.50	GRD	1.50	100	K294678	☐	19-052	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
102.00	103.50	1.50	GRD	1.50	100	K294679	☐	19-052	low grade		☐	☐	☐
103.50	104.50	1.00	GRD	1.00	100	K294680	☐	19-052	low grade		☐	☐	☐
104.50	105.00	0.50	GRD	0.50	100	K294681	☐	19-053	low grade		☐	☐	☐
105.00	105.86	0.86	GRD	0.85	99	K294682	☐	19-053	low grade		☐	☐	☐
105.86	106.50	0.64	GRD	0.60	94	K294683	☐	19-053	low grade		☐	☐	☐
106.50	108.00	1.50	GRD	1.50	100	K294684	☐	19-053	low grade		☐	☐	☐
108.00	109.50	1.50	GRD	1.47	98	K294685	☐	19-053	low grade		☐	☐	☐
109.50	111.00	1.50	GRD	1.50	100	K294686	☐	19-053	low grade		☐	☐	☐
109.50	111.00	1.50	GRD	1.50	100	K294687	☐	19-053	low grade		☐	☑	☐
111.00	112.20	1.20	GRD	1.20	100	K294688	☐	19-053	low grade		☐	☐	☐
112.20	112.50	0.30	GRD	0.30	100	K294689	☐	19-053	low grade		☐	☐	☐
112.50	113.50	1.00	GRD	1.00	100	K294690	☐	19-053	low grade		☐	☐	☐
113.50	114.50	1.00	GRD	1.00	100	K294691	☐	19-053	low grade		☐	☐	☐
114.50	116.00	1.50	GRD	1.50	100	K294692	☐	19-053	low grade		☐	☐	☐
116.00	117.50	1.50	GRD, GRD	1.38	92	K294694	☐	19-053	low grade		☐	☐	☐
117.50	119.00	1.50	GRD	1.50	100	K294695	☐	19-053	low grade		☐	☐	☐
119.00	119.90	0.90	GRD, GRD	0.90	100	K294696	☐	19-053	low grade		☐	☐	☐
119.90	121.00	1.10	GRD, GRD	1.10	100	K294697	☐	19-053	low grade		☐	☐	☐
121.00	122.50	1.50	GRD	1.50	100	K294698	☐	19-053	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
122.50	124.00	1.50	GRD	1.50	100	K294699	☐	19-053	low grade		☐	☐	☐
122.50	124.00	1.50	GRD	1.50	100	K294700	☐	19-053	low grade		☐	☐	☑
124.00	125.26	1.26	GRD	1.26	100	K294701	☐	19-053	low grade		☐	☐	☐
125.26	125.92	0.66	GRD, GRD	0.65	98	K294702	☐	19-053	low grade		☐	☐	☐
125.92	126.92	1.00	GRD, GRD	1.00	100	K294703	☐	19-053	low grade		☐	☐	☐
126.92	127.38	0.46	GRD, GRD	0.42	91	K294704	☐	19-053	low grade		☐	☐	☐
127.38	127.68	0.30	GRD, VEN	0.30	100	W599193	☐	19-049	high grade		☐	☐	☐
127.68	128.78	1.10	GRD	1.10	100	K294705	☐	19-053	low grade		☐	☐	☐
128.78	129.35	0.57	GRD, GRD	0.55	96	K294706	☐	19-053	low grade		☐	☐	☐
129.35	130.35	1.00	GRD, GRD	1.00	100	K294708	☐	19-053	low grade		☐	☐	☐
130.35	131.35	1.00	GRD, GRD	1.00	100	K294709	☐	19-053	low grade		☐	☐	☐
131.35	131.94	0.59	GRD, GRD	0.59	100	K294710	☐	19-053	low grade		☐	☐	☐
131.94	132.30	0.36	GRD	0.35	97	K294711	☐	19-053	low grade		☐	☐	☐
132.30	133.80	1.50	GRD, GRD	1.50	100	K294712	☐	19-053	low grade		☐	☐	☐
133.80	134.33	0.53	GRD	0.50	94	K294713	☐	19-053	low grade		☐	☐	☐
134.33	135.64	1.31	GRD	1.30	99	K294714	☐	19-053	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-052	K294653	0.00	0.00	1.48	140	☐	☐	☐	☑ ME-16	ME-16
19-052	K294666	0.00	0.00	1.50	150	☐	☐	☐	☑ ME-16	ME-16
19-052	K294674	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-053	K294693	0.00	0.00	0.27	490	☐	☐	☐	☑ ME-6	ME-6
19-053	K294707	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-053	K294715	0.00	0.00	1.47	130	☐	☐	☐	☑ ME-16	ME-16
19-050	W593607	0.00	0.00	0.28	470	☐	☐	☐	☑ ME-6	ME-6 STD
19-050	W593622	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-050	W593628	0.00	0.00	1.32	140	☐	☐	☐	☑ ME-16	ME-16 ST
19-048	W593589	2.27	4.77	0.01	2070	☐	☐	☐	☐	
19-048	W593590	4.77	7.27	0.02	1980	☐	☐	☐	☐	
19-048	W593591	7.27	8.22	0.05	1630	☐	☐	☐	☐	
19-048	W593592	8.22	9.72	0.01	2020	☐	☐	☐	☐	
19-048	W593593	9.72	11.22	0.01	2750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-048	W593594	9.72	11.22	0.01	1630	☑	☐	☐	☐	1/4 dup
19-048	W593595	11.22	12.72	0.01	1470	☐	☐	☐	☐	
19-048	W593596	12.72	13.72	0.01	2250	☐	☐	☐	☐	
19-048	W593597	13.72	15.22	0.02	2290	☐	☐	☐	☐	
19-048	W593598	15.22	15.80	0.00	2210	☐	☐	☐	☐	
19-048	W593599	15.80	17.23	0.00	2020	☐	☐	☐	☐	
19-048	W593600	17.23	18.29	0.01	2830	☐	☐	☐	☐	
19-050	W593601	18.29	19.42	0.02	2430	☐	☐	☐	☐	
19-050	W593602	19.42	20.21	0.00	2110	☐	☐	☐	☐	
19-050	W593603	20.21	21.01	0.00	2170	☐	☐	☐	☐	
19-050	W593604	21.01	22.05	0.01	2400	☐	☐	☐	☐	
19-050	W593605	22.05	23.55	0.00	2270	☐	☐	☐	☐	
19-050	W593606	23.55	25.05	0.01	2220	☐	☐	☐	☐	
19-050	W593608	25.05	26.55	0.00	2220	☐	☐	☐	☐	
19-050	W593609	26.55	28.05	0.01	2230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-050	W593610	28.05	29.40	0.01	1950	☐	☐	☐	☐	
19-050	W593611	29.40	30.07	0.01	1480	☐	☐	☐	☐	
19-050	W593612	30.07	31.20	0.03	1640	☐	☐	☐	☐	
19-050	W593613	30.07	31.20	0.02	1570	☐	☑	☐	☐	coarse duplicate
19-050	W593614	31.20	31.70	0.31	390	☐	☐	☐	☐	
19-050	W593615	31.70	33.00	0.02	2140	☐	☐	☐	☐	
19-050	W593616	33.00	34.50	0.01	2210	☐	☐	☐	☐	
19-050	W593617	34.50	34.86	0.00	2070	☐	☐	☐	☐	
19-050	W593618	34.86	36.15	0.00	2250	☐	☐	☐	☐	
19-050	W593619	36.15	37.15	0.01	2180	☐	☐	☐	☐	
19-050	W593620	37.15	38.20	0.01	1760	☐	☐	☐	☐	
19-050	W593621	38.20	38.81	0.10	180	☐	☐	☐	☐	
19-050	W593623	38.81	40.30	0.01	2930	☐	☐	☐	☐	
19-050	W593624	40.30	41.80	0.00	2310	☐	☐	☐	☐	
19-050	W593625	41.80	43.08	0.01	2070	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-050	W593626	43.08	43.68	0.05	1270	☐	☐	☐	☐	
19-050	W593627	43.68	44.83	0.03	2060	☐	☐	☐	☐	
19-050	W593629	44.83	45.55	0.01	1480	☐	☐	☐	☐	
19-050	W593630	45.55	46.09	0.02	220	☐	☐	☐	☐	
19-050	W593631	46.09	47.00	0.01	1850	☐	☐	☐	☐	
19-050	W593632	47.00	48.50	0.01	2280	☐	☐	☐	☐	
19-050	W593633	48.50	50.00	0.01	2230	☐	☐	☐	☐	
19-050	W593634	50.00	51.25	0.01	2250	☐	☐	☐	☐	
19-050	W593635	50.00	51.25	0.01	2180	☑	☐	☐	☐	1/4 duplicate
19-050	W593636	51.25	52.00	0.01	1900	☐	☐	☐	☐	
19-050	W593637	52.00	52.60	1.22	770	☐	☐	☐	☐	
19-050	W593638	52.60	53.65	0.05	1170	☐	☐	☐	☐	
19-050	W593639	53.65	53.95	1.28	370	☐	☐	☐	☐	
19-050	W593640	53.95	55.00	0.89	330	☐	☐	☐	☐	
19-052	W593641	55.00	56.50	0.01	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-052	W593642	56.50	58.00	0.00	2330	☐	☐	☐	☐	
19-052	W593643	58.00	59.50	0.02	3510	☐	☐	☐	☐	
19-052	W593644	59.50	61.00	0.01	2810	☐	☐	☐	☐	
19-052	W593645	61.00	62.50	0.01	1950	☐	☐	☐	☐	
19-052	W593646	62.50	64.00	0.04	2060	☐	☐	☐	☐	
19-052	W593647	62.50	64.00	0.04	2030	☑	☐	☐	☐	1/4 dup
19-052	W593648	64.00	65.50	0.01	2540	☐	☐	☐	☐	
19-052	W593649	65.50	67.00	0.00	2380	☐	☐	☐	☐	
19-052	W593650	67.00	68.50	0.00	2240	☐	☐	☐	☐	
19-052	K294651	68.50	70.00	0.00	2500	☐	☐	☐	☐	
19-052	K294652	70.00	71.50	0.01	2110	☐	☐	☐	☐	
19-052	K294654	71.50	73.00	0.00	2410	☐	☐	☐	☐	
19-052	K294655	73.00	74.50	0.01	2270	☐	☐	☐	☐	
19-052	K294656	74.50	76.00	0.01	1980	☐	☐	☐	☐	
19-052	K294657	76.00	77.50	0.00	2370	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-052	K294658	77.50	79.00	0.01	2240	☐	☐	☐	☐	
19-052	K294659	77.50	79.00	0.01	2170	☐	☑	☐	☐	coarse rej dup
19-052	K294660	79.00	80.50	0.01	2580	☐	☐	☐	☐	
19-052	K294661	80.50	81.43	0.02	2140	☐	☐	☐	☐	
19-052	K294662	81.43	81.83	0.08	1360	☐	☐	☐	☐	
19-052	K294663	81.83	83.00	0.01	2230	☐	☐	☐	☐	
19-052	K294664	83.00	84.50	0.00	2090	☐	☐	☐	☐	
19-052	K294665	84.50	86.00	0.00	2340	☐	☐	☐	☐	
19-052	K294667	86.00	87.50	0.00	1900	☐	☐	☐	☐	
19-052	K294668	87.50	89.00	0.01	2080	☐	☐	☐	☐	
19-052	K294669	89.00	90.50	0.00	2300	☐	☐	☐	☐	
19-052	K294670	90.50	92.00	0.00	2350	☐	☐	☐	☐	
19-052	K294671	92.00	93.50	0.00	2230	☐	☐	☐	☐	
19-052	K294672	93.50	95.00	0.01	1860	☐	☐	☐	☐	
19-052	K294673	95.00	96.50	0.00	2090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-052	K294675	96.50	97.50	0.01	2620	☐	☐	☐	☐	
19-052	K294676	97.50	99.00	0.00	1970	☐	☐	☐	☐	
19-052	K294677	99.00	100.50	0.00	2200	☐	☐	☐	☐	
19-052	K294678	100.50	102.00	0.00	2410	☐	☐	☐	☐	
19-052	K294679	102.00	103.50	0.00	2340	☐	☐	☐	☐	
19-052	K294680	103.50	104.50	0.02	2210	☐	☐	☐	☐	
19-053	K294681	104.50	105.00	0.17	490	☐	☐	☐	☐	
19-053	K294682	105.00	105.86	0.85	280	☐	☐	☐	☐	
19-053	K294683	105.86	106.50	0.02	2190	☐	☐	☐	☐	
19-053	K294684	106.50	108.00	0.01	2320	☐	☐	☐	☐	
19-053	K294685	108.00	109.50	0.00	2140	☐	☐	☐	☐	
19-053	K294686	109.50	111.00	0.01	2060	☐	☐	☐	☐	
19-053	K294687	109.50	111.00	0.01	2080	☑	☐	☐	☐	1/4 dup
19-053	K294688	111.00	112.20	0.01	1470	☐	☐	☐	☐	
19-053	K294689	112.20	112.50	0.21	470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-053	K294690	112.50	113.50	0.00	1860	☐	☐	☐	☐	
19-053	K294691	113.50	114.50	0.03	2080	☐	☐	☐	☐	
19-053	K294692	114.50	116.00	0.00	2010	☐	☐	☐	☐	
19-053	K294694	116.00	117.50	0.01	2090	☐	☐	☐	☐	
19-053	K294695	117.50	119.00	0.00	2230	☐	☐	☐	☐	
19-053	K294696	119.00	119.90	0.00	2180	☐	☐	☐	☐	
19-053	K294697	119.90	121.00	0.00	2360	☐	☐	☐	☐	
19-053	K294698	121.00	122.50	0.00	2200	☐	☐	☐	☐	
19-053	K294699	122.50	124.00	0.00	2200	☐	☐	☐	☐	
19-053	K294700	122.50	124.00	0.00	2150	☐	☑	☐	☐	coarse rej dup
19-053	K294701	124.00	125.26	0.00	2160	☐	☐	☐	☐	
19-053	K294702	125.26	125.92	0.02	400	☐	☐	☐	☐	
19-053	K294703	125.92	126.92	0.00	2270	☐	☐	☐	☐	
19-053	K294704	126.92	127.38	0.10	630	☐	☐	☐	☐	
19-049	W599193	127.38	127.68	3.44	60	☐	☐	☐	☐	HI GRADE

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-053	K294705	127.68	128.78	0.00	2340	☐	☐	☐	☐	
19-053	K294706	128.78	129.35	0.04	2140	☐	☐	☐	☐	
19-053	K294708	129.35	130.35	0.01	2330	☐	☐	☐	☐	
19-053	K294709	130.35	131.35	0.10	1340	☐	☐	☐	☐	
19-053	K294710	131.35	131.94	0.00	2260	☐	☐	☐	☐	
19-053	K294711	131.94	132.30	0.15	1620	☐	☐	☐	☐	
19-053	K294712	132.30	133.80	0.01	2200	☐	☐	☐	☐	
19-053	K294713	133.80	134.33	0.60	540	☐	☐	☐	☐	
19-053	K294714	134.33	135.64	0.02	2130	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.39	7.50	FT	42	80	NUL	1	intensely clay altered goued interval, likely a fault surface			
14.75	15.00	ST		70	NUL	4	small quartz carbonatve hairline veinlets			
18.35	18.45	VT	37	0	NUL	1	1 cm wide quartz carbonate veinlet trending between +1- and -10 TCA, cut by fault below and clay altered granodiorite above			
18.75	18.95	FT	42	50	NUL	1	intensely clay altered gouged section, likely a fulat			
19.36	19.40	VT	37	40	NUL	1	small quartz carbonate veinlet with no visible sulfides			
19.75	19.76	FT	42	50	NUL	1	dicrete small possible fault surface marking boundary between altered granoiorite (above) and unaltered granodiorite (below)			
21.95	21.96	VT	37	70	NUL	1	small pyrite bearing quartz vein			
								Py	0.5	DI
29.50	29.53	VT	37	50	NUL	1	small pyrite and sphalerite bearing quartz venlet			
								Sp	0.5	DI
								Py	0.5	DI
31.27	31.60	ST		60	NUL	3	small pyrite bearing quartz veinlets			
								Py	0.5	DI
34.65	34.75	ST		60	NUL	1	small pyrite bearing quartz veinlet			
								Py	0.25	DI
38.34	38.45	VT	37	70	NUL	1	pyrite bearing quartz vein			
								Py	2	DI
45.11	45.55	DY	37	50	NUL	1	small aplite dyke; fine grained pinkish brown			
45.55	46.00	ST		70	NUL	4	small pyrite bearing quartz veins			
								Py	0.5	DI
51.47	51.48	FT	42	40	NUL	1	small fracture with weak oxidation; possibly representing a fault due to oxidizedd clay altered granodiorite below this point			
52.35	52.59	VN	37	70	NUL	2	small pyrite bearing quartz vein			
								Py	0.5	DI
53.75	53.95	VN	37	60	NUL	1	pyrite and galena beainrg quaftz fein			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	10	DI
								Gn	1	BA
58.50	58.60	VN	37	10	NUL	1	quartz carbonate veinlet			
63.50	64.00	ST		70	NUL	4	small quartz carbonate stringers no sulfide			
78.70	78.90	ST		70	NUL	3	small quartz carbonate stringers minor pyrite			
								Py	0.1	DI
81.55	81.83	ST		70	NUL	1	small quartz carbonate stringers minor pyrite			
								Py	0.5	DI
90.50	90.50	FT	42	60	NUL	1	small faulted surface			
97.04	97.05	VT	37	70	NUL	1	small pyrit bearing quartz vein			
								Py	0.5	DI
99.60	99.59	FT	42	70	NUL	1	small faulted surface, intensely clay altered grd above			
105.69	105.73	VT	37	60	NUL	1	set of pyrite bearing quartz veinlets			
								Py	0.5	DI
114.79	114.85	DY	37	60	NUL	1	aplit dyke finegrained			
116.00	116.01	FT	42	30	NUL	1	faulted surfsce with clay alteration below			
119.00	119.01	FT	42	40	NUL	1	faulted clay altered grd below			
119.90	119.91	FT	42	40	NUL	1	faulted clay altered grd aboe			
123.60	124.30	FT	42	35	NUL	1	clay altered faulted interval			
125.26	125.92	ST		70	NUL	4	small pyrite bearing quartz veinlets			
127.38	127.65	VN	37	70	NUL	1	pyrite and sphalerite with trace galena bearing quartz carbonate vein			
								Py	2	DI
								Gn	1	DI
								Sp	2	DI
128.78	129.35	ST		70	NUL	2	small pyrite bearing quartz veinletd			
								Py	0.5	BA
130.35	131.35	ST		70	NUL	2	two small quartz carbonate veinlets with disseminated pyrite as well as within groundmass			
								Py	0.5	DI
131.94	132.30	ST		70	NUL	2	2 small pyrite sphalerite bearing quartz veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
132.94	132.99	ST		70	NUL	2	atwo small pyrite galena bearing quartz veinlets			
								Py	0.5	DI
								Gn	0.5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382769	6889239	1456.061	128.02

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-447

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 0m, Out

Drilling Dates: Sep 14 - Sep 15, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
8	34.56	-49.9	Reflex
128	38.46	-49.4	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.46	1.46	OVB
1.46	4	2.54	GRD
4	5.5	1.5	GRD
5.5	6.8	1.3	GRD
6.8	8.5	1.7	GRD
8.5	10.25	1.75	GRD
10.25	13.62	3.37	GRD
13.62	23.25	9.63	GRD
23.25	24.33	1.08	GRD
24.33	27	2.67	QFP
27	28	1	GRD
28	31.25	3.25	GRD
31.25	31.45	0.2	VEN
31.45	33	1.55	GRD
33	34.56	1.56	GRD
34.56	34.75	0.19	VEN

SAMPLES	
Numbers:	K294716 to K294857, W599198 to W599207
Total:	152
Batch:	049, 053, 054, 056, 057, 058
Certificates:	WH19245903, WH19245912, WH19245913, WH19245914, WH19247965, WH19255796

COMMENTS

34.75	38.05	3.3	GRD
38.05	38.28	0.23	VEN
38.28	39.38	1.1	GRD
39.38	41.38	2	QFP
41.38	42.63	1.25	GRD
42.63	43.25	0.62	GRD
43.25	44.2	0.95	GRD
44.2	44.71	0.51	GRD
44.71	44.87	0.16	GRD
44.87	45.4	0.53	GRD
45.4	45.72	0.32	GRD
45.72	47	1.28	QFP
47	48	1	GRD
48	49.16	1.16	GRD
49.16	49.36	0.2	VEN
49.36	49.69	0.33	GRD
49.69	50.17	0.48	VEN
50.17	50.61	0.44	QFP
50.61	51.15	0.54	VEN
51.15	51.8	0.65	GRD
51.8	52.27	0.47	QFP
52.27	55.67	3.4	QFP
55.67	55.75	0.08	GRD
55.75	56.1	0.35	VEN
56.1	56.39	0.29	GRD
56.39	57.5	1.11	VEN
57.5	58.8	1.3	GRD
58.8	61.2	2.4	GRD
61.2	61.7	0.5	GRD
61.7	63.7	2	GRD
63.7	65.55	1.85	GRD
65.55	65.76	0.21	VEN

65.76	66.27	0.51	GRD
66.27	67.3	1.03	GRD
67.3	70.63	3.33	GRD
70.63	73.2	2.57	GRD
73.2	75.7	2.5	GRD
75.7	80.25	4.55	GRD
80.25	81	0.75	GRD
81	85.44	4.44	GRD
85.44	86.5	1.06	GRD
86.5	91	4.5	GRD
91	92.3	1.3	GRD
92.3	94	1.7	GRD
94	94.7	0.7	GRD
94.7	97.46	2.76	GRD
97.46	99	1.54	GRD
99	100.5	1.5	GRD
100.5	102	1.5	GRD
102	104.5	2.5	GRD
104.5	105.5	1	GRD
105.5	106.4	0.9	GRD
106.4	106.85	0.45	GRD
106.85	108.2	1.35	GRD
108.2	108.3	0.1	VEN
108.3	109.25	0.95	GRD
109.25	110.3	1.05	GRD
110.3	110.55	0.25	GRD
110.55	112	1.45	GRD
112	112.35	0.35	GRD
112.35	113.4	1.05	GRD
113.4	114.05	0.65	GRD
114.05	117.5	3.45	GRD
117.5	118.84	1.34	GRD

118.84	119	0.16	VEN
119	119.3	0.3	GRD
119.3	120.3	1	GRD
120.3	121.2	0.9	GRD
121.2	123.82	2.62	GRD
123.82	124.5	0.68	GRD
124.5	126.3	1.8	GRD
126.3	126.55	0.25	GRD
126.55	128.02	1.47	GRD

Box Log

KL -19-447

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.46	6.1
2	6.1	10.09
3	10.09	14.34
4	14.34	18.57
5	18.57	22.8
6	22.8	26.62
7	26.62	30.57
8	30.57	34.82
9	34.82	39
10	39	42.53
11	42.53	46.79
12	46.79	50.9
13	50.9	54.88
14	54.88	59
15	59	63.34
16	63.34	67.49
17	67.49	71.52
18	71.52	75.5
19	75.5	79.82
20	79.82	84.25
21	84.25	88.51
22	88.51	92.96
23	92.96	97.46
24	97.46	101.88
25	101.88	106.21
26	106.21	110.7
27	110.7	115.2
28	115.2	119.54
29	119.54	123.74
30	123.74	128.02

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-447									
	51.89	14	NTW	QFP	972.6	617.7	2.46	2.7	
	94.06	12	NTW	GRD	867.5	577.1	2.56	3.0	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.46	1.46	OVB	--	overburden/casing							
1.46	4.00	2.54	GRD	MG	mix of overburden and gractured granodiorite. Poor recovery							
4.00	5.50	1.50	GRD	MG	unaltered granodiorite							
5.50	6.80	1.30	GRD	MG	medium grained oxidized and bleached, fractured granodiorite with moderate argillic alteration							
						MD	GY					
						MD	BN					
6.80	8.50	1.70	GRD	FG	intensely clay altered granodiorite, likely faulted							
						MD	BN		OXI	3I		
						MD	GY		CLY	5I		
8.50	10.25	1.75	GRD	MG	medium grained, moderately argillic altered granodiorite with oxidation on fracture surfaces							
						MD	BN		OXI	2I		
						LT	WH		ARG	4I		
10.25	13.62	3.37	GRD	MG	medium grained weakly argillic altered, oxidized granodiorite with weak propylicit overprint and sporadic quartz carbonate veinlets dissemianted throughout interval with trace disseminated pyrite.							
						MD	GY		OXI	2I		
						DK	GN		ARG	2I		
									PRO	2I		
13.62	23.25	9.63	GRD	MG	medium grained, weak to moderately argillic altered granodiorite with a weak propylitic overpint, moderate oxidation on fractures, and trace quartz carbonate veining throughout; barren of sulphides							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
						MD	BN		BLE	2I		
						LT	WH		OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.25	24.33	1.08	GRD	MG	medium grained, moderately propylitic altered and silicified granodiorite with weak pyrite throughout and sparse quarta carbonate veinlets bearing pyrite							
						MD	GY		SIL	1I	Py	0.5
						MD	GN		PRO	3I		
24.33	27.00	2.67	QFP	MG	medium grained, brownish orange to brownish grey weakly oxidized feldspar porphyritic dyke with a rubbly lower section - no defined lower contact. Upper contact is sharp and trends 60 TCA.							
						MD	BN		OXI	2I		
						MD	GY					
27.00	28.00	1.00	GRD	MG	medium grained weakly oxidized, moderately clay altered granodiorite with rubbly intervals; possibly fault related							
						MD	GY		CLY	3I		
						MD	BN					
						MD	BF					
28.00	31.25	3.25	GRD	MG	weak to moderately propylitic altered granodiorite with weak oxidative staining and weak quartz carbonate strginer veinelts dispersed throughout interval with weak disseminated pyrite							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
31.25	31.45	0.20	VEN	MG	rubbly faulted upper and lower contact, hosts a quartz carbonate vein with finegrained dissemianted banded pyrite and galena							
						MD	GY					
						LT	WH		SIL	4I	Gn	0.5
						LT	GY		CLY	3I	Py	3
31.45	33.00	1.55	GRD	MG	medium grained strongly clay altered granodiorite with weak propylitic alteration.							
						MD	GN		PRO	2I		
						MD	GY		ARG	4I		
33.00	34.56	1.56	GRD	MG	faulted, gougy clay altered granodiorite with dissemianted pyrite throughout and small pyrite bearing quartz stringer veinlets							
						MD	GY		CLY	3I	Py	1
						LT	GY					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
34.56	34.75	0.19	VEN	FG	finegraeind dark banded section of granodiorite; likely hosting fine grained pyrite							
						LT	WH		CLY	2I	Py	2
						LT	GY					
						DK	GY					
34.75	38.05	3.30	GRD	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.							
						MD	GY		CLY	5I		
						LT	GN					
						LT	GY					
38.05	38.28	0.23	VEN	FG	fine-grained clay altered fine-grained pyrite bearing quartz vein							
						LT	GY					
						LT	GN					
						LT	WH		CLY	4I	Py	3
						DK	GY					
38.28	39.38	1.10	GRD	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.							
39.38	41.38	2.00	QFP	MG	medium grained, heavily fractured and faulted feldspar porphyry dyke, oxidized and partially clay altered in faulted sections.							
						MD	GY		OXI	2I		
						MD	BN		CLY	2I		
						MD	GN					
41.38	42.63	1.25	GRD	MG	medium grained, oxidized and altered granodiorite, likely faulted. Heavily fractured							
						MD	GN		OXI	2I		
						MD	BN		ARG	2I		
						MD	GY					
42.63	43.25	0.62	GRD	MG	medium grained granodiorite, arigllic and porpylitic altered							
						MD	GN		PHC	2I		
						MD	GY		ARG	2I		
									CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
43.25	44.20	0.95	GRD	MG	meium grained, fraulted, fractued, oxidized granodiorite							
						MD	GY		OXI	2I		
						MD	BN		CLY	2I		
44.20	44.71	0.51	GRD	MG	mediu grained argillic altered grano with propylitic overprint							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
44.71	44.87	0.16	GRD	MG	medium grained futed clay gouge granodiorite							
						MD	GY					
						MD	GN					
						LT	WH		CLY	5I		
44.87	45.40	0.53	GRD	MG	propylitic and siliceous grano with pyrite bearing quartz stringer veinletes							
						MD	GY		SIL	2I	Py	1
									PRO	3I		
45.40	45.72	0.32	GRD	MG	clay gouged altered faulted granodiorite with disseminated pyrite							
						LT	WH		CLY	5I	Py	0.5
45.72	47.00	1.28	QFP	MG	quartz feldspar porphyry dyke, heavily fractured and propylitically altered, some feldspar have been chloritized, while other have altered to clay.							
						MD	BN		CLY	3I		
						LT	GN		CHL	1I		
						LT	GY					
47.00	48.00	1.00	GRD	MG	faulted, brecciated clay altered granodiorite, weakly propylitic altered and intense clay alteration							
						MD	GY		PRO	1I		
						LT	GY		CLY	5I		
48.00	49.16	1.16	GRD	MG	medium grained, moderately argillic alterd granodiorite with a weak propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
49.16	49.36	0.20	VEN	MG	pyrite bearing quartz vein.							
						LT	WH		SIL	5I	Py	5
						LT	GY				Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
49.36	49.69	0.33	GRD	MG	medium grained, silicified grano with dissem pyrite in grundmass							
						LT	GY		SIL	3I	Py	1
49.69	50.17	0.48	VEN	FG	quartz vein hosting semimassive sulfide mineralization. Blebby patch disseminated bands of subhedral pyrite up to 3 cm in size, trace finegrained galena dissemianted throughout							
						LT	WH		SIL	4I	Gn	1
											Py	25
50.17	50.61	0.44	QFP	MG	silicified feldspar porphyty dyke, with dissemintaed sulphide and pyrite bearing quartz stringers dispersed throughout							
						MD	GY					
						LT	WH		SIL	3I	Py	2
50.61	51.15	0.54	VEN	MG	dark grey, semimassive to massive sulfide mineralized quartz vein with blebby clumps of pyrite and galena, cut by carbonate veinlets and infilled with sphalerite. Looks as though pyrite came first, vein was reactivated bringing galena, and later once again bringing sphalerite afterwards. Trace arsenopyrite throughout; lower portion of vein looks more brecciated than top portion, which has more of a banded texture to it							
						DK	GY		SIL	5I	Sp	5
											Py	15
											Gn	5
51.15	51.80	0.65	GRD	MG	fault gouged oxidized brecciated grano							
						MD	BN		CLY	4I		
51.80	52.27	0.47	QFP	MG	brown feldspar porphyry dyke, heavily oxidized and fractued with quartz carbonate veins barren of sulfide							
						MD	BN					
52.27	55.67	3.40	QFP	MG	light greenish grey, heavily fractured with clay, chloritized feldspar porphyry dyke. Pervasive chloritization and clay alteration throughout whole dyke.							
						MD	GY		CHL	4I		
						MD	GN		CLY	4I		
55.67	55.75	0.08	GRD	MG	clay altered grano; likely faulted							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		CLY	5I		
55.75	56.10	0.35	VEN	MG	semimassive sulfide vein hosting subhedral blebby pyrite							
						LT	WH		SIL	5I	Py	15
						LT	GY					
56.10	56.39	0.29	GRD	MG	clay altered granodiorite, heavily fractued with disseminated pyrite thorughout							
						LT	BN		CLY	4I	Py	1
						LT	GY					
56.39	57.50	1.11	VEN	MG	semimassive to massive sulfide bearing quartz vein. Sulfides consists of massive blebby pyrite, and minor finegrained banded galena and rare patches of fine-grained sphalerite. Vein consists mostly of blebby clumps of massive pyrite							
						LT	WH		SIL	5I	Gn	1
											Py	50
											Sp	1
57.50	58.80	1.30	GRD	MG	mediumgrained, strongly silicified and propylitic altered granodiorite with disseminated pyrite throughout the entire interval							
						MD	GY		SIL	3I		
						MD	GN		PRO	4I	Py	2
58.80	61.20	2.40	GRD	MG	medium greained weak to moderately propylitic altered granodiorite wih weak propylitic alteratoin							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
61.20	61.70	0.50	GRD	MG	strong propylitic altered grano with trace dissem pyrite							
						MD	GN		PRO	4I	Py	0.5
						MD	GY					
61.70	63.70	2.00	GRD	MG	medium grained moderately argilic altered granodiorite with weak to moderate propylitic alteration							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I		
63.70	65.55	1.85	GRD	MG	faulted granodiorite, clay altered and quartz carbonate stringers barren of sulfide							
						MD	GN		CLY	3I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
65.55	65.76	0.21	VEN	MG	quartz carbonate breccia vein with disseminated pyrite, sphal, and galena. More pyrite mineralization on the lower 5 cm of the vein.							
						MD	GY		SIL	4I	Sp	1
						LT	WH				Gn	1
											Py	5
65.76	66.27	0.51	GRD	MG	clay altered, gougy grano; likely faulted							
						LT	GY		CLY	4I		
66.27	67.30	1.03	GRD	MG	strong propylitic altered grano; dissem py throguhout							
						MD	GN		PRO	4I	Py	0.5
						MD	GY					
67.30	70.63	3.33	GRD	MG	brecciated, clay altered on fractures, heavily argillic and clay altered granodiorite; likely related to fualting							
						MD	BN		CLY	3I		
									ARG	4I		
70.63	73.20	2.57	GRD	MG	argillic and propylitic altered granodiorite							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
73.20	75.70	2.50	GRD	MG	medium grained, heavily fractured with rubbly gravelly sections, faulted granodiorite, heavily clay altered							
						MD	GY		CLY	3I		
									ARG	3I		
75.70	80.25	4.55	GRD	MG	medium grained, whitish grey to greenish grey alternating between weak argillic and weak propylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
80.25	81.00	0.75	GRD	MG	unaltered granodiorite							
						MD	GY					
81.00	85.44	4.44	GRD	MG	medium grained, moderate argillic and moderate propylitic altered granodiorite							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I		
85.44	86.50	1.06	GRD	MG	strongly propylitic altered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	5I		
									SIL	4I		
86.50	91.00	4.50	GRD	MG	unaltered granodiorite							
						MD	GY					
91.00	92.30	1.30	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
92.30	94.00	1.70	GRD	MG	unaltered granodiorite							
						MD	GY					
94.00	94.70	0.70	GRD	MG	strongly propylitic altered granodiorite with weak argillic overprint							
						MD	GY		ARG	1I		
						MD	GN		PRO	4I		
94.70	97.46	2.76	GRD	MG	unaltered granodiorite							
						MD	GY					
97.46	99.00	1.54	GRD	MG	medium grained meidum green to grey weak to moerate propylitic altered granodiorite with weak pyrite bearing quartz veinlet							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
99.00	100.50	1.50	GRD	MG	unaltered granodiorite							
						MD	GY					
100.50	102.00	1.50	GRD	MG	medum grained medium green to grey weakly propylitic altered granodiorite with low angle quartz carboante stringers barren of sulfide							
						MD	GY					
						MD	GN					
102.00	104.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
104.50	105.50	1.00	GRD	MG	medium grained medium green to grey propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
105.50	106.40	0.90	GRD	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite throughout							
						MD	GN		PRO	4I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
106.40	106.85	0.45	GRD	MG	unaltered granodiorite							
						MD	GY					
106.85	108.20	1.35	GRD	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite							
						MD	GY					
						MD	GN		PRO	3I		
108.20	108.30	0.10	VEN	MG	medium graiend dissseminated blebby banded pyrite vein with trace galena and arseno							
						MD	GY		SIL	4I	As	0.5
						LT	WH				Gn	0.2
											Py	2
108.30	109.25	0.95	GRD	MG	moderate to strong propylitic altered granodiorite with weak dissemianted pyrite bearing quartz veinlets and disseminated pyrite in groundmass							
						MD	GN				Py	0.5
109.25	110.30	1.05	GRD	MG	unaltered granodiorite							
110.30	110.55	0.25	GRD	MG	moderate propylitic altered granodiorite with one pyrite bearing quartz veinlet							
						MD	GY					
						MD	GN					
110.55	112.00	1.45	GRD	MG	unaltered granodiorite							
						MD	GY					
112.00	112.35	0.35	GRD	MG	moderate propylitic altered granodiorite with weak pyrite bearing quartz veinlet							
						MD	GN				Py	0.5
112.35	113.40	1.05	GRD	MG	unaltered granodiorite							
						MD	GN					
113.40	114.05	0.65	GRD	MG	moderate to strong propylitic altered granodiorite							
						MD	GN		PRO	3I		
114.05	117.50	3.45	GRD	MG	unaltered granodiorite							
						MD	GY					
117.50	118.84	1.34	GRD	MG	propylitic altered granodiorite with quartz carbonate stringers with trace dissemianted pyrite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	3I	Py	1
						MD	GY					
118.84	119.00	0.16	VEN	MG	semimassive quartz carbonate vein with pyrite, sphalerite, and trace galena and arsenopyrite.							
						MD	GY				Py	15
						LT	WH		SIL	4I	Sp	2
											As	0.5
											Gn	1
119.00	119.30	0.30	GRD	MG	strongly propylitic altered granodiorite with disseminated pyrite in groundmass							
						MD	GN		PRO	3I	Py	1
						LT	GN					
119.30	120.30	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
120.30	121.20	0.90	GRD	MG	faulted, chlorite and carbonate altered, eavily fractured granodiorite							
						MD	GY		CHL	3I		
						MD	GN					
121.20	123.82	2.62	GRD	MG	unaltered granodiorite with prominent 30 TCA carbonate fractures throughout entire interval							
						MD	GY					
123.82	124.50	0.68	GRD	MG	faulted, chloritized and clay altered, rubbly granodiorite							
						MD	GY		CLY	3I		
						MD	GN		CHL	3I		
124.50	126.30	1.80	GRD	MG	unaltered granodiorite							
						MD	GY					
126.30	126.55	0.25	GRD	MG	fualted, chlorite and carbontae altered on fractures, heavily fractured granoidotie							
						MD	GN		CLY	2I		
						MD	GY		CHL	3I		
126.55	128.02	1.47	GRD	MG	unaltered granodiorite							
						MD	GY					

KL -19-447

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.46	1.46	OVB	OVB	--	overburden/casing
1.46	4.00	2.54	GRD	GRD	MG	mix of overburden and gractured granodiorite. Poor recovery
4.00	5.50	1.50	GRD	GRD	MG	unaltered granodiorite
5.50	6.80	1.30	GRD	GRDA	MG	medium grained oxidized and bleached, fractured granodiorite with moderate argillic alteration
6.80	8.50	1.70	GRD	GRDF	FG	intensely clay altered granodiorite, likely faulted
8.50	10.25	1.75	GRD	GRDA	MG	medium grained, moderately argillic altered granodiorite with oxidation on fracture surfaces
10.25	13.62	3.37	GRD	GRDA	MG	medium grained weakly argillic altered, oxidized granodiorite with weak propylicit overprint and sporadic quartz carbonate veinlets dissemianted throughout interval with trace disseminated pyrite.
13.62	23.25	9.63	GRD	GRDA	MG	medium grained, weak to moderately argillic altered granodiorite with a weak propylitic overpint, moderate oxidation on fractures, and trace quartz carbonate veining throughout; barren of sulphides
23.25	24.33	1.08	GRD	GRDM	MG	medium grained, moderately propylitic altered and silicified granodiorite with weak pyrite throughout and sparse quarta carbonate veinlets bearing pyrite
24.33	27.00	2.67	QFP	DYK	MG	medium grained, brownish orange to brownish grey weakly oxidized feldspar porphyritic dyke with a rubbly lower section - no defined lower contact. Upper contact is sharp and trends 60 TCA.
27.00	28.00	1.00	GRD	GRDA	MG	medium grained weakly oxidized, moderately clay altered granodiorite with rubbly intervals; possibly fault related
28.00	31.25	3.25	GRD	GRDA	MG	weak to moderately propylitic altered granodiorite with weak oxidative staining and weak quartz carbonate strginer veinelts dispersed throughout interval with weak disseminated pyrite
31.25	31.45	0.20	VEN	VEIN	MG	rubbly faulted upper and lower contact, hosts a quartz carbonate vein with finegrained dissemianted banded pyrite and galena
31.45	33.00	1.55	GRD	GRDA	MG	medium grained strongly clay altered granodiorite with weak propylitic alteration.
33.00	34.56	1.56	GRD	GRDM	MG	faulted, gougy clay altered granodiorite with dissemianted pyrite throughout and small pyrite bearing quartz stringer veinlets
34.56	34.75	0.19	VEN	VEIN	FG	finegraeind dark banded section of granodiorite; likely hosting fine grained pyrite
34.75	38.05	3.30	GRD	GRDF	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.
38.05	38.28	0.23	VEN	VEIN	FG	fine-grained clay altered fine-grained pyrite bearing quartz vein

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
38.28	39.38	1.10	GRD	GRDF	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.
39.38	41.38	2.00	QFP	DYK	MG	medium grained, heavily fractured and faulted feldspar porphyry dyke, oxidized and partially clay altered in faulted sections.
41.38	42.63	1.25	GRD	GRDF	MG	medium grained, oxidized and altered granodiorite, likely faulted. Heavily fractured
42.63	43.25	0.62	GRD	GRDA	MG	medium grained granodiorite, arigllic and porpylitic altered
43.25	44.20	0.95	GRD	GRDF	MG	meium grained, fraulted, fractued, oxidized granodiorite
44.20	44.71	0.51	GRD	GRDA	MG	mediu grained argillic altered grano with propylitic overprint
44.71	44.87	0.16	GRD	GRDF	MG	medium grained futed clay gouge granodiorite
44.87	45.40	0.53	GRD	GRDM	MG	propylitic and siliceous grano with pyrite bearing quartz stringer veinletes
45.40	45.72	0.32	GRD	GRDF	MG	clay gouged altered faulted granodiorite with disseminated pyrite
45.72	47.00	1.28	QFP	DYK	MG	quartz feldspar porphyry dyke, heavily fractured and propylitically altered, some feldspar have been chloritized, while other have altered to clay.
47.00	48.00	1.00	GRD	GRDF	MG	faulted, brecciated clay altered granodiorite, weakly propylitic altered and intense clay alteration
48.00	49.16	1.16	GRD	GRDA	MG	medium grained, moderately argillic alterd granodiorite with a weak propylitic overprint
49.16	49.36	0.20	VEN	VEIN	MG	pyrite bearing quartz vein.
49.36	49.69	0.33	GRD	GRDM	MG	medium grained, silicified grano with dissem pyrite in grundmass
49.69	50.17	0.48	VEN	VEIN	FG	quartz vein hosting semimassive sulfide mineralization. Blebby patch disseminated bands of subhedral pyrite up to 3 cm in size, trace finegrained galena dissemianted throughout
50.17	50.61	0.44	QFP	DYK	MG	silicified feldspar porphyty dyke, with dissemintaed sulphide and pyrite bearing quartz stringers dispersed throughout
50.61	51.15	0.54	VEN	VEIN	MG	dark grey, semimassive to massive sulfide mineralized quartz vein with blebby clumps of pyrite and galena, cut by carbonate veinlets and infilled with sphalerite. Looks as though pyrite came first, vein was reactivated bringing galena, and later once again bringing sphalerite afterwards. Trace arsenopyrite throughout; lower portion of vein looks more brecciated than top portion, which has more of a banded texture to it
51.15	51.80	0.65	GRD	GRDF	MG	fault gouged oxidized brecciated grano
51.80	52.27	0.47	QFP	DYK	MG	brown feldspar porphyry dyke, heavily oxidized and fractued with quartz carbonate veins barren of sulfide

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
52.27	55.67	3.40	QFP	DYK	MG	light greenish grey, heavily fractured with clay, chloritized feldspar porphyry dyke. Pervasive chloritization and clay alteration throughout whole dyke.
55.67	55.75	0.08	GRD	GRDF	MG	clay altered grano; likely faulted
55.75	56.10	0.35	VEN	VEIN	MG	semimassive sulfide vein hosting subhedral blebby pyrite
56.10	56.39	0.29	GRD	GRDM	MG	clay altered granodiorite, heavily fractued with disseminated pyrite thorughout
56.39	57.50	1.11	VEN	VEIN	MG	semimassive to massive sulfide bearing quartz vein. Sulfides consists of massive blebby pyrite, and minor finegrained banded galena and rare patches of fine-grained sphalerite. Vein consists mostly of blebby clumps of massive pyrite
57.50	58.80	1.30	GRD	GRDM	MG	mediumgrained, strongly silicified and propylitic altered granodiorite with disseminated pyrite throughout the entire interval
58.80	61.20	2.40	GRD	GRDA	MG	medium greained weak to moderately propylitic altered granodiorite wih weak propylitic alteratoin
61.20	61.70	0.50	GRD	GRDM	MG	strong propylitic altered grano with trace dissem pyrite
61.70	63.70	2.00	GRD	GRDA	MG	medium grained moderately argilic altered granodiorite with weak to moderate propylitic alteration
63.70	65.55	1.85	GRD	GRDF	MG	faulted granodiorite, clay altered and quartz carbonate stringers barren of sulfide
65.55	65.76	0.21	VEN	VEIN	MG	quartz carbonate breccia vein with disseminated pyrite, sphal, and galena. More pyrite mineralization on the lower 5 cm of the vein.
65.76	66.27	0.51	GRD	GRDF	MG	clay altered, gougy grano; likely faulted
66.27	67.30	1.03	GRD	GRDM	MG	strong propylitic altered grano; dissem py throguhout
67.30	70.63	3.33	GRD	GRDF	MG	brecciated, clay altered on fractures, heavily argillic and clay altered granodiorite; likely related to fualting
70.63	73.20	2.57	GRD	GRDA	MG	argillic and propylitic altered granodiorite
73.20	75.70	2.50	GRD	GRDF	MG	medium grained, heavily fractured with rubbly gravelly sections, faulted granodiorite, heavily clay altered
75.70	80.25	4.55	GRD	GRDA	MG	medium grained, whitish grey to greenish grey alternating between weak argillic and weak propylitic altered granodiorite
80.25	81.00	0.75	GRD	GRD	MG	unaltered granodiorite
81.00	85.44	4.44	GRD	GRDA	MG	medium grained, moderate argillic and moderate propylitic altered granodiorite
85.44	86.50	1.06	GRD	GRDA	MG	strongly propylitic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
86.50	91.00	4.50	GRD	GRD	MG	unaltered granodiorite
91.00	92.30	1.30	GRD	GRDA	MG	weakly propylitic altered granodiorite
92.30	94.00	1.70	GRD	GRD	MG	unaltered granodiorite
94.00	94.70	0.70	GRD	GRDA	MG	strongly propylitic altered granodiorite with weak argillic overprint
94.70	97.46	2.76	GRD	GRD	MG	unaltered granodiorite
97.46	99.00	1.54	GRD	GRDA	MG	medium grained meidum green to grey weak to moerate propylitic altered granodiorite with weak pyrite bearing quartz veinlet
99.00	100.50	1.50	GRD	GRD	MG	unaltered granodiorite
100.50	102.00	1.50	GRD	GRDA	MG	medum grained medium green to grey weakly propylitic altered granodiorite with low angle quartz carboante stringers barren of sulfide
102.00	104.50	2.50	GRD	GRD	MG	unaltered granodiorite
104.50	105.50	1.00	GRD	GRDA	MG	medium grained medium green to grey propylitic altered granodiorite
105.50	106.40	0.90	GRD	GRDM	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite throughout
106.40	106.85	0.45	GRD	GRD	MG	unaltered granodiorite
106.85	108.20	1.35	GRD	GRDM	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite
108.20	108.30	0.10	VEN	VEIN	MG	medium graiend dissseminated blebby banded pyrite vein with trace galena and arseno
108.30	109.25	0.95	GRD	GRDM	MG	moderate to strong propylitic altered granodiorite with weak dissemianted pyrite bearing quartz veinlets and disseminated pyrite in groundmass
109.25	110.30	1.05	GRD	GRD	MG	unaltered granodiorite
110.30	110.55	0.25	GRD	GRDM	MG	moderate propylitic altered granodiorite with one pyrite bearing quartz veinlet
110.55	112.00	1.45	GRD	GRD	MG	unaltered granodiorite
112.00	112.35	0.35	GRD	GRDA	MG	moderate propylitic altered granodiorite with weak pyrite bearing quartz veinlet
112.35	113.40	1.05	GRD	GRD	MG	unaltered granodiorite
113.40	114.05	0.65	GRD	GRDA	MG	moderate to strong propylitic altered granodiorite
114.05	117.50	3.45	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
117.50	118.84	1.34	GRD	GRDM	MG	propylitic altered granodiorite with quartz carbonate stringers with trace dissemianted pyrite
118.84	119.00	0.16	VEN	VEIN	MG	semimassive quartz carbonate vein with pyrite, sphalerite, and trace galena and arsenopyrite.
119.00	119.30	0.30	GRD	GRDM	MG	strongly propylitic altered granodiorite with disseminated pyrite in groundmass
119.30	120.30	1.00	GRD	GRD	MG	unaltered granodiorite
120.30	121.20	0.90	GRD	GRDF	MG	faulted, chlorite and carbonate altered, eavily fractured granodiorite
121.20	123.82	2.62	GRD	GRD	MG	unaltered granodiorite with prominent 30 TCA carbonate fractures throughout entire interval
123.82	124.50	0.68	GRD	GRDF	MG	faulted, chloritized and clay altered, rubbly granodiorite
124.50	126.30	1.80	GRD	GRD	MG	unaltered granodiorite
126.30	126.55	0.25	GRD	GRDF	MG	fualted, chlorite and carbontae altered on fractures, heavily fractured granoidotie
126.55	128.02	1.47	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.46	1.46	OVB	--	overburden/casing							
1.46	4.00	2.54	GRD	MG	mix of overburden and gractured granodiorite. Poor recovery							
4.00	5.50	1.50	GRD	MG	unaltered granodiorite							
5.50	6.80	1.30	GRD	MG	medium grained oxidized and bleached, fractured granodiorite with moderate argillic alteration							
						MD	GY					
						MD	BN					
6.80	8.50	1.70	GRD	FG	intensely clay altered granodiorite, likely faulted							
						MD	BN		CLY	5I		
						MD	GY		OXI	3I		
8.50	10.25	1.75	GRD	MG	medium grained, moderately argillic altered granodiorite with oxidation on fracture surfaces							
						LT	WH		ARG	4I		
						MD	BN		OXI	2I		
10.25	13.62	3.37	GRD	MG	medium grained weakly argillic altered, oxidized granodiorite with weak propylicit overprint and sporadic quartz carbonate veinlets dissemianted throughout interval with trace disseminated pyrite.							
						DK	GN		PRO	2I		
						MD	GY		ARG	2I		
									OXI	2I		
13.62	23.25	9.63	GRD	MG	medium grained, weak to moderately argillic altered granodiorite with a weak propylitic overpint, moderate oxidation on fractures, and trace quartz carbonate veining throughout; barren of sulphides							
						MD	GY		OXI	2I		
						LT	WH		ARG	2I		
						MD	BN		PRO	2I		
						MD	GN		BLE	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.25	24.33	1.08	GRD	MG	medium grained, moderately propylitic altered and silicified granodiorite with weak pyrite throughout and sparse quarta carbonate veinlets bearing pyrite							
						MD	GN		PRO	3I		
						MD	GY		SIL	1I	Py	0.5
24.33	27.00	2.67	QFP	MG	medium grained, brownish orange to brownish grey weakly oxidized feldspar porphyritic dyke with a rubbly lower section - no defined lower contact. Upper contact is sharp and trends 60 TCA.							
						MD	GY		OXI	2I		
						MD	BN					
27.00	28.00	1.00	GRD	MG	medium grained weakly oxidized, moderately clay altered granodiorite with rubbly intervals; possibly fault related							
						MD	BF					
						MD	GY					
						MD	BN		CLY	3I		
28.00	31.25	3.25	GRD	MG	weak to moderately propylitic altered granodiorite with weak oxidative staining and weak quartz carbonate strginer veinelts dispersed throughout interval with weak disseminated pyrite							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
31.25	31.45	0.20	VEN	MG	rubbly faulted upper and lower contact, hosts a quartz carbonate vein with finegrained dissemianted banded pyrite and galena							
						MD	GY					
						LT	GY		CLY	3I	Gn	0.5
						LT	WH		SIL	4I	Py	3
31.45	33.00	1.55	GRD	MG	medium grained strongly clay altered granodiorite with weak propylitic alteration.							
						MD	GY		PRO	2I		
						MD	GN		ARG	4I		
33.00	34.56	1.56	GRD	MG	faulted, gougy clay altered granodiorite with dissemianted pyrite throughout and small pyrite bearing quartz stringer veinlets							
						LT	WH					
						MD	GY		CLY	3I	Py	1
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
34.56	34.75	0.19	VEN	FG	finegraeind dark banded section of granodiorite; likely hosting fine grained pyrite							
						LT	WH					
						LT	GY					
						DK	GY		CLY	2I	Py	2
34.75	38.05	3.30	GRD	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.							
						LT	GY		CLY	5I		
						MD	GY					
						LT	GN					
38.05	38.28	0.23	VEN	FG	fine-grained clay altered fine-grained pyrite bearing quartz vein							
						LT	WH					
						LT	GY					
						DK	GY					
						LT	GN		CLY	4I	Py	3
38.28	39.38	1.10	GRD	MG	medium grained, light white to greenish grey, faulted, clay altred, rubbly + brecciated grd. Intensely clay altered and likely related to faulting.							
39.38	41.38	2.00	QFP	MG	medium grained, heavily fractured and faulted feldspar porphyry dyke, oxidized and partially clay altered in faulted sections.							
						MD	GY					
						MD	BN		CLY	2I		
						MD	GN		OXI	2I		
41.38	42.63	1.25	GRD	MG	medium grained, oxidized and altered granodiorite, likely faulted. Heavily fractured							
						MD	GY					
						MD	BN		ARG	2I		
						MD	GN		OXI	2I		
42.63	43.25	0.62	GRD	MG	medium grained granodiorite, arigllic and porpylitic altered							
						MD	GY		PHC	2I		
									ARG	2I		
						MD	GN		CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
43.25	44.20	0.95	GRD	MG	meium grained, fraulted, fractued, oxidized granodiorite							
						MD	GY		CLY	2I		
						MD	BN		OXI	2I		
44.20	44.71	0.51	GRD	MG	mediu grained argillic altered grano with propylitic overprint							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
44.71	44.87	0.16	GRD	MG	medium grained futed clay gouge granodiorite							
						MD	GY					
						MD	GN					
						LT	WH		CLY	5I		
44.87	45.40	0.53	GRD	MG	propylitic and siliceous grano with pyrite bearing quartz stringer veinletes							
						MD	GY		SIL	2I	Py	1
									PRO	3I		
45.40	45.72	0.32	GRD	MG	clay gouged altered faulted granodiorite with disseminated pyrite							
						LT	WH		CLY	5I	Py	0.5
45.72	47.00	1.28	QFP	MG	quartz feldspar porphyry dyke, heavily fractured and propylitically altered, some feldspar have been chloritized, while other have altered to clay.							
						MD	BN		CHL	1I		
						LT	GN		CLY	3I		
						LT	GY					
47.00	48.00	1.00	GRD	MG	faulted, brecciated clay altered granodiorite, weakly propylitic altered and intense clay alteration							
						MD	GY		PRO	1I		
						LT	GY		CLY	5I		
48.00	49.16	1.16	GRD	MG	medium grained, moderately argillic alterd granodiorite with a weak propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
49.16	49.36	0.20	VEN	MG	pyrite bearing quartz vein.							
						LT	WH				Py	2
						LT	GY		SIL	5I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
49.36	49.69	0.33	GRD	MG	medium grained, silicified grano with dissem pyrite in grundmass							
						LT	GY		SIL	3I	Py	1
49.69	50.17	0.48	VEN	FG	quartz vein hosting semimassive sulfide mineralization. Blebby patch disseminated bands of subhedral pyrite up to 3 cm in size, trace finegrained galena dissemianted throughout							
											Py	25
						LT	WH		SIL	4I	Gn	1
50.17	50.61	0.44	QFP	MG	silicified feldspar porphyty dyke, with dissemintaed sulphide and pyrite bearing quartz stringers dispersed throughout							
						LT	WH					
						MD	GY		SIL	3I	Py	2
50.61	51.15	0.54	VEN	MG	dark grey, semimassive to massive sulfide mineralized quartz vein with blebby clumps of pyrite and galena, cut by carbonate veinlets and infilled with sphalerite. Looks as though pyrite came first, vein was reactivated bringing galena, and later once again bringing sphalerite afterwards. Trace arsenopyrite throughout; lower portion of vein looks more brecciated than top portion, which has more of a banded texture to it							
											Gn	5
											Py	15
						DK	GY		SIL	5I	Sp	5
51.15	51.80	0.65	GRD	MG	fault gouged oxidized brecciated grano							
						MD	BN		CLY	4I		
51.80	52.27	0.47	QFP	MG	brown feldspar porphyry dyke, heavily oxidized and fractued with quartz carbonate veins barren of sulfide							
						MD	BN					
52.27	55.67	3.40	QFP	MG	light greenish grey, heavily fractured with clay, chloritized feldspar porphyry dyke. Pervasive chloritization and clay alteration throughout whole dyke.							
						MD	GN		CLY	4I		
						MD	GY		CHL	4I		
55.67	55.75	0.08	GRD	MG	clay altered grano; likely faulted							
						MD	BN		CLY	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
55.75	56.10	0.35	VEN	MG	semimassive sulfide vein hosting subhedral blebby pyrite							
						LT	GY					
						LT	WH		SIL	5I	Py	15
56.10	56.39	0.29	GRD	MG	clay altered granodiorite, heavily fractued with disseminated pyrite thorughout							
						LT	GY					
						LT	BN		CLY	4I	Py	1
56.39	57.50	1.11	VEN	MG	semimassive to massive sulfide bearing quartz vein. Sulfides consists of massive blebby pyrite, and minor finegrained banded galena and rare patches of fine-grained sphalerite. Vein consists mostly of blebby clumps of massive pyrite, with rare bands of arsenopyrite only 1-3 mm wide							
											Py	50
											Gn	1
						LT	WH		SIL	5I	As	2
											Sp	1
57.50	58.80	1.30	GRD	MG	mediumgrained, strongly silicified and propylitic altered granodiorite with disseminated pyrite throughout the entire interval							
						MD	GN		PRO	4I	Py	2
						MD	GY		SIL	3I		
58.80	61.20	2.40	GRD	MG	medium greained weak to moderately propylitic altered granodiorite wih weak propylitic alteratoin							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
61.20	61.70	0.50	GRD	MG	strong propylitic altered grano with trace dissem pyrite							
						MD	GY		PRO	4I	Py	0.5
						MD	GN					
61.70	63.70	2.00	GRD	MG	medium grained moderately argilic altered granodiorite with weak to moderate propylitic alteration							
						MD	GY		PRO	3I		
						MD	GN		ARG	2I		
63.70	65.55	1.85	GRD	MG	faulted granodiorite, clay altered and quartz carbonate stringers barren of sulfide							
						MD	GN		CLY	3I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
65.55	65.76	0.21	VEN	MG	quartz carbonate breccia vein with disseminated pyrite, sphal, and galena. More pyrite mineralization on the lower 5 cm of the vein.							
						MD	GY				Py	5
											Sp	1
						LT	WH		SIL	4I	Gn	1
65.76	66.27	0.51	GRD	MG	clay altered, gougy grano; likely faulted							
						LT	GY		CLY	4I		
66.27	67.30	1.03	GRD	MG	strong propylitic altered grano; dissem py throguhout							
						MD	GY		PRO	4I	Py	0.5
						MD	GN					
67.30	70.63	3.33	GRD	MG	brecciated, clay altered on fractures, heavily argillic and clay altered granodiorite; likely related to fualting							
						MD	BN		CLY	3I		
									ARG	4I		
70.63	73.20	2.57	GRD	MG	argillic and propylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
73.20	75.70	2.50	GRD	MG	medium grained, heavily fractured with rubbly gravelly sections, faulted granodiorite, heavily clay altered							
									CLY	3I		
						MD	GY		ARG	3I		
75.70	80.25	4.55	GRD	MG	medium grained, whitish grey to greenish grey alternating between weak argillic and weak propylitic altered granodiorite							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
80.25	81.00	0.75	GRD	MG	unaltered granodiorite							
						MD	GY					
81.00	85.44	4.44	GRD	MG	medium grained, moderate argillic and moderate propylitic altered granodiorite							
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
85.44	86.50	1.06	GRD	MG	strongly propylitic altered granodiorite							
									PRO	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		SIL	4I		
86.50	91.00	4.50	GRD	MG	unaltered granodiorite							
						MD	GY					
91.00	92.30	1.30	GRD	MG	weakly propylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN					
92.30	94.00	1.70	GRD	MG	unaltered granodiorite							
						MD	GY					
94.00	94.70	0.70	GRD	MG	strongly propylitic altered granodiorite with weak argillic overprint							
						MD	GN		ARG	1I		
						MD	GY		PRO	4I		
94.70	97.46	2.76	GRD	MG	unaltered granodiorite							
						MD	GY					
97.46	99.00	1.54	GRD	MG	medium grained meidum green to grey weak to moerate propylitic altered granodiorite with weak pyrite bearing quartz veinlet							
						MD	GY					
						MD	GN		PRO	3I	Py	0.5
99.00	100.50	1.50	GRD	MG	unaltered granodiorite							
						MD	GY					
100.50	102.00	1.50	GRD	MG	medum grained medium green to grey weakly propylitic altered granodiorite with low angle quartz carboante stringers barren of sulfide							
						MD	GN					
						MD	GY					
102.00	104.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
104.50	105.50	1.00	GRD	MG	medium grained medium green to grey propylitic altered granodiorite							
						MD	GY					
						MD	GN		PRO	3I		
105.50	106.40	0.90	GRD	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite throughout							
						MD	GN		PRO	4I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
106.40	106.85	0.45	GRD	MG	unaltered granodiorite							
						MD	GY					
106.85	108.20	1.35	GRD	MG	medium grained moderate to strong propylitic altered granodiorite with disseminated pyrite							
						MD	GN		PRO	3I		
						MD	GY					
108.20	108.30	0.10	VEN	MG	medium graiend dissseminated blebby banded pyrite vein with trace galena and arseno							
											As	0.5
						LT	WH				Gn	0.2
						MD	GY		SIL	4I	Py	2
108.30	109.25	0.95	GRD	MG	moderate to strong propylitic altered granodiorite with weak dissemianted pyrite bearing quartz veinlets and disseminated pyrite in groundmass							
						MD	GN				Py	0.5
109.25	110.30	1.05	GRD	MG	unaltered granodiorite							
110.30	110.55	0.25	GRD	MG	moderate propylitic altered granodiorite with one pyrite bearing quartz veinlet							
						MD	GN					
						MD	GY					
110.55	112.00	1.45	GRD	MG	unaltered granodiorite							
						MD	GY					
112.00	112.35	0.35	GRD	MG	moderate propylitic altered granodiorite with weak pyrite bearing quartz veinlet							
						MD	GN				Py	0.5
112.35	113.40	1.05	GRD	MG	unaltered granodiorite							
						MD	GN					
113.40	114.05	0.65	GRD	MG	moderate to strong propylitic altered granodiorite							
						MD	GN		PRO	3I		
114.05	117.50	3.45	GRD	MG	unaltered granodiorite							
						MD	GY					
117.50	118.84	1.34	GRD	MG	propylitic altered granodiorite with quartz carbonate stringers with trace dissemianted pyrite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	3I	Py	1
						MD	GY					
118.84	119.00	0.16	VEN	MG	semimassive quartz carbonate vein with pyrite, sphalerite, and trace galena and arsenopyrite.							
											Gn	1
						LT	WH		SIL	4I	Py	15
											Sp	2
						MD	GY				As	0.5
119.00	119.30	0.30	GRD	MG	strongly propylitic altered granodiorite with disseminated pyrite in groundmass							
						LT	GN		PRO	3I	Py	1
						MD	GN					
119.30	120.30	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
120.30	121.20	0.90	GRD	MG	faulted, chlorite and carbonate altered, eavily fractured granodiorite							
						MD	GN					
						MD	GY		CHL	3I		
121.20	123.82	2.62	GRD	MG	unaltered granodiorite with prominent 30 TCA carbonate fractures throughout entire interval							
						MD	GY					
123.82	124.50	0.68	GRD	MG	faulted, chloritized and clay altered, rubbly granodiorite							
						MD	GN		CLY	3I		
						MD	GY		CHL	3I		
124.50	126.30	1.80	GRD	MG	unaltered granodiorite							
						MD	GY					
126.30	126.55	0.25	GRD	MG	fualted, chlorite and carbontae altered on fractures, heavily fractured granoidotie							
						MD	GN		CHL	3I		
						MD	GY		CLY	2I		
126.55	128.02	1.47	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.06	4	0.00	0	--	--	6W	
1.52	3.05	1.53	0.35	23	0.00	0	--	--	4W	
3.05	4.57	1.52	1.25	82	0.15	10	--	3H	2W	
4.57	7.62	3.05	2.37	78	0.99	32	--	3H	3W	
7.62	9.14	1.52	1.35	89	0.39	26	--	3H	3W	
9.14	10.67	1.53	1.37	90	0.92	60	--	3H	2W	
10.67	13.72	3.05	2.83	93	1.55	51	--	3H	2W	
13.72	15.24	1.52	1.48	97	1.11	73	--	3H	2W	
15.24	18.29	3.05	2.94	96	1.72	56	--	3H	2W	
18.29	21.34	3.05	2.83	93	1.24	41	--	3H	2W	
21.34	24.38	3.04	2.67	88	1.05	35	--	3H	2W	
24.38	25.91	1.53	1.52	99	0.57	37	--	3H	2W	
25.91	28.96	3.05	2.81	92	1.08	35	--	3H	2W	
28.96	30.48	1.52	1.52	100	0.94	62	--	3H	2W	
30.48	33.53	3.05	2.92	96	1.83	60	--	3H	2W	
33.53	35.05	1.52	1.51	99	1.33	88	--	3H	2W	
35.05	38.10	3.05	2.78	91	2.04	67	--	2H	1W	
38.10	41.15	3.05	3	98	0.26	9	--	3H	1W	
41.15	44.20	3.05	2.85	93	0.88	29	--	3H	1W	
44.20	47.24	3.04	2.76	91	1.08	36	--	3H	1W	
47.24	50.29	3.05	2.95	97	1.90	62	--	4H	1W	
50.29	53.34	3.05	2.93	96	1.48	49	--	3H	1W	
53.34	56.39	3.05	2.92	96	1.80	59	--	2H	1W	
56.39	58.83	2.44	2.38	98	1.49	61	--	3H	1W	
58.83	60.96	2.13	2.13	100	1.69	79	--	3H	1W	
60.96	64.01	3.05	2.9	95	1.47	48	--	3H	1W	
64.01	67.06	3.05	3.05	100	1.11	36	--	3H	1W	
67.06	70.10	3.04	3.04	100	1.23	40	--	3H	1W	
70.10	73.15	3.05	2.94	96	2.22	73	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
73.15	76.20	3.05	2.67	88	0.70	23	--	3H	1W	
76.20	79.25	3.05	2.93	96	2.09	69	--	3H	1W	
79.25	82.30	3.05	2.96	97	2.25	74	--	3H	1W	
82.30	85.34	3.04	3.02	99	2.60	86	--	3H	1W	
85.34	88.39	3.05	3.05	100	2.43	80	--	4H	1W	
88.39	89.92	1.53	1.53	100	1.39	91	--	4H	1W	
89.92	92.96	3.04	3.04	100	2.99	98	--	4H	1W	
92.96	96.01	3.05	3.05	100	2.36	77	--	4H	1W	
96.01	99.06	3.05	2.97	97	2.90	95	--	4H	1W	
99.06	102.11	3.05	3.05	100	2.78	91	--	4H	1W	
102.11	105.16	3.05	3.05	100	2.73	90	--	4H	1W	
105.16	108.20	3.04	2.99	98	2.60	86	--	4H	1W	
108.20	111.25	3.05	2.98	98	2.88	94	--	4H	1W	
111.25	114.30	3.05	3.02	99	2.95	97	--	4H	1W	
114.30	115.82	1.52	1.52	100	1.47	97	--	4H	1W	
115.82	118.87	3.05	2.95	97	2.56	84	--	4H	1W	
118.87	121.92	3.05	3.05	100	1.68	55	--	4H	1W	
121.92	123.44	1.52	1.52	100	1.02	67	--	4H	1W	
123.44	126.19	2.75	2.59	94	1.47	53	--	4H	1W	
126.19	128.02	1.83	1.8	98	1.56	85	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0	GRD	
3	0	GRD	
4	22.14	GRD	
4	22.14	GRD	
5	18.24	GRD	
6	0.327	GRD	
7	0.854	GRD	
8	0.163	GRD	
9	0.751	GRD	
10	1.013	GRD	
11	0.281	GRD	
12	0.247	GRD	
13	4.253	GRD	
14	0.548	GRD	
15	0.642	GRD	
16	0.867	GRD	
17	16.33	GRD	
18	0.773	GRD	
19	0.376	GRD	
20	0.301	GRD	
21	0.302	GRD	
22	0.06	GRD	
23	0.683	GRD	
24	0.279	GRD	
25	0.267	QFP	
26	0.506	QFP	
27	0.667	GRD	
27	0.667	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.399	GRD	
28	0.399	GRD	
29	0.443	GRD	
30	0.43	GRD	
31	0.254	GRD	
32	1.135	GRD	
33	0.352	GRD	
33	0.352	GRD	
34	0.057	GRD	
35	0.684	GRD	
36	1.541	GRD	
37	0.265	GRD	
38	0.541	GRD	
39	0.272	GRD	
40	0.261	QFP	
41	0.314	QFP	
42	0.341	GRD	
43	0.743	GRD	
44	0.251	GRD	
45	0.288	GRD	
46	0.299	QFP	
47	0.453	QFP	
47	0.453	GRD	
48	0.883	GRD	
48	0.883	GRD	
49	0.823	GRD	
50	0.222	VEN	
51	0.167	VEN	
52	0.306	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	0.272	QFP	
54	0.312	QFP	
55	0.246	QFP	
56	0.069	VEN	
57	0.238	VEN	
58	0.382	GRD	
59	0.653	GRD	
60	0.618	GRD	
61	0.661	GRD	
62	0.408	GRD	
63	0.381	GRD	
64	0.355	GRD	
65	0.311	GRD	
66	0.313	GRD	
67	0.297	GRD	
68	0.336	GRD	
69	0.291	GRD	
70	0.771	GRD	
71	0.296	GRD	
72	0.257	GRD	
73	0.245	GRD	
74	0.412	GRD	
75	0.247	GRD	
76	0.619	GRD	
77	0.258	GRD	
78	0.295	GRD	
79	0.283	GRD	
80	0.937	GRD	
81	0.237	GRD	
81	0.237	GRD	
82	0.253	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
83	0.675	GRD	
84	0.616	GRD	
85	0.586	GRD	
86	0.325	GRD	
87	4.452	GRD	
88	26.8	GRD	
89	0.751	GRD	
90	3.495	GRD	
91	0.687	GRD	
91	0.687	GRD	
92	0.641	GRD	
93	21.9	GRD	
94	23.15	GRD	
94	23.15	GRD	
95	25.07	GRD	
96	21.31	GRD	
97	19.13	GRD	
98	5.318	GRD	
99	20.44	GRD	
99	20.44	GRD	
100	17.82	GRD	
101	17.44	GRD	
102	19.06	GRD	
102	19.06	GRD	
103	6.036	GRD	
104	8.649	GRD	
105	15.94	GRD	
106	0.683	GRD	
107	4.338	GRD	
108	0.526	GRD	
109	0.408	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
110	17.21	GRD	
111	20.58	GRD	
112	9.34	GRD	
112	9.34	GRD	
113	16.41	GRD	
114	1.566	GRD	
115	12.99	GRD	
116	5.261	GRD	
117	18.3	GRD	
118	5.966	GRD	
119	0.244	GRD	
119	0.244	VEN	
120	19.51	GRD	
121	18.98	GRD	
122	18.57	GRD	
123	20.59	GRD	
124	14.8	GRD	
125	20.82	GRD	
126	14.91	GRD	
127	12.41	GRD	
128	19.07	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-447

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K294825	☐	19-057	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294728	☐	19-054	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599205	☐	19-049	high grade	ME-1402	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294817	☐	19-057	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294811	☐	19-057	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294796	☐	19-056	ow grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294784	☐	19-056	ow grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294768	☐	19-056	ow grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294756	☐	19-054	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294735	☐	19-054	low grade		☑	☐	☐
3.00	4.00	1.00	GRD	0.80	80	K294716	☐	19-053	low grade		☐	☐	☐
4.00	5.50	1.50	GRD, GRD	1.30	87	K294717	☐	19-053	low grade		☐	☐	☐
5.50	7.00	1.50	GRD, GRD	1.40	93	K294718	☐	19-053	low grade		☐	☐	☐
7.00	8.50	1.50	GRD	1.45	97	K294719	☐	19-053	low grade		☐	☐	☐
8.50	10.00	1.50	GRD, GRD	1.49	99	K294720	☐	19-053	low grade		☐	☐	☐
10.00	11.50	1.50	GRD	1.50	100	K294721	☐	19-054	low grade		☐	☐	☐
11.50	12.60	1.10	GRD	1.10	100	K294722	☐	19-054	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
12.60	14.00	1.40	GRD	1.35	96	K294723	☐	19-054	low grade		☐	☐	☐
14.00	15.50	1.50	GRD	1.50	100	K294724	☐	19-054	low grade		☐	☐	☐
15.50	17.00	1.50	GRD	1.50	100	K294725	☐	19-054	low grade		☐	☐	☐
17.00	18.50	1.50	GRD	1.50	100	K294726	☐	19-054	low grade		☐	☐	☐
18.50	20.00	1.50	GRD	1.50	100	K294727	☐	19-054	low grade		☐	☐	☐
20.00	21.50	1.50	GRD	1.48	99	K294729	☐	19-054	low grade		☐	☐	☐
21.50	23.00	1.50	GRD	1.50	100	K294730	☐	19-054	low grade		☐	☐	☐
23.00	24.33	1.33	GRD	1.33	100	K294731	☐	19-054	low grade		☐	☐	☐
24.33	25.50	1.17	GRD, QFP	1.17	100	K294732	☐	19-054	low grade		☐	☐	☐
25.50	27.00	1.50	QFP	1.50	100	K294733	☐	19-054	low grade		☐	☐	☐
27.00	28.35	1.35	GRD, QFP	1.30	96	K294734	☐	19-054	low grade		☐	☐	☐
28.35	28.65	0.30	GRD	0.30	100	K294736	☐	19-054	low grade		☐	☐	☐
28.65	30.00	1.35	GRD	1.30	96	K294737	☐	19-054	low grade		☐	☐	☐
30.00	31.20	1.20	GRD	1.20	100	K294738	☐	19-054	low grade		☐	☐	☐
31.20	31.50	0.30	GRD	0.30	100	K294739	☐	19-054	low grade		☐	☐	☐
31.50	32.00	0.50	GRD	0.50	100	K294740	☐	19-054	low grade		☐	☐	☐
32.00	33.35	1.35	GRD	1.34	99	K294741	☐	19-054	low grade		☐	☐	☐
32.00	33.35	1.35	GRD	1.34	99	K294742	☐	19-054	low grade		☐	☑	☐
33.35	34.35	1.00	GRD	1.00	100	K294743	☐	19-054	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
34.35	34.70	0.35	GRD	0.34	97	K294744	☐	19-054	low grade		☐	☐	☐
34.70	35.50	0.80	VEN	0.75	94	K294745	☐	19-054	low grade		☐	☐	☐
35.50	36.45	0.95	GRD	0.93	98	K294746	☐	19-054	low grade		☐	☐	☐
36.45	37.00	0.55	GRD	0.55	100	K294747	☐	19-054	low grade		☐	☐	☐
37.00	38.00	1.00	GRD	1.00	100	K294748	☐	19-054	low grade		☐	☐	☐
37.00	38.00	1.00	GRD	1.00	100	K294749	☐	19-054	low grade		☐	☐	☑
38.00	38.30	0.30	GRD	0.30	100	K294750	☐	19-054	low grade		☐	☐	☐
38.30	39.38	1.08	GRD	1.00	93	K294751	☐	19-054	low grade		☐	☐	☐
39.38	40.78	1.40	GRD, QFP	1.40	100	K294752	☐	19-054	low grade		☐	☐	☐
40.78	41.38	0.60	QFP	0.55	92	K294753	☐	19-054	low grade		☐	☐	☐
41.38	42.88	1.50	QFP, GRD	1.50	100	K294754	☐	19-054	low grade		☐	☐	☐
42.88	44.20	1.32	GRD	1.30	98	K294755	☐	19-054	low grade		☐	☐	☐
44.20	44.70	0.50	GRD, GRD	0.50	100	K294757	☐	19-054	low grade		☐	☐	☐
44.70	45.00	0.30	GRD	0.30	100	K294758	☐	19-054	low grade		☐	☐	☐
45.00	45.34	0.34	GRD	0.32	94	K294759	☐	19-054	low grade		☐	☐	☐
45.34	45.72	0.38	GRD	0.36	95	K294760	☐	19-054	low grade		☐	☐	☐
45.72	46.50	0.78	QFP, GRD	0.78	100	K294761	☐	19-056	ow grade		☐	☐	☐
46.50	47.25	0.75	QFP	0.73	97	K294762	☐	19-056	ow grade		☐	☐	☐
47.25	47.85	0.60	GRD	0.60	100	K294763	☐	19-056	ow grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
47.85	48.70	0.85	GRD	0.83	98	K294764	☐	19-056	ow grade		☐	☐	☐
48.70	49.10	0.40	GRD	0.40	100	K294765	☐	19-056	ow grade		☐	☐	☐
49.10	49.40	0.30	GRD	0.30	100	W599198	☐	19-049	high grade		☐	☐	☐
49.10	49.40	0.30	GRD	0.30	100	W599199	☐	19-049	high grade		☐	☑	☐
49.40	49.70	0.30	GRD	0.30	100	K294766	☐	19-056	ow grade		☐	☐	☐
49.70	50.17	0.47	VEN	0.45	96	W599200	☐	19-049	high grade		☐	☐	☐
50.17	50.60	0.43	VEN, QFP	0.42	98	K294767	☐	19-056	ow grade		☐	☐	☐
50.60	51.15	0.55	QFP	0.54	98	W599201	☐	19-049	high grade		☐	☐	☐
51.15	51.80	0.65	VEN, GRD	0.65	100	K294769	☐	19-056	ow grade		☐	☐	☐
51.80	52.27	0.47	QFP, GRD	0.45	96	K294770	☐	19-056	ow grade		☐	☐	☐
52.27	53.38	1.11	QFP, QFP	1.10	99	K294771	☐	19-056	ow grade		☐	☐	☐
53.38	54.88	1.50	QFP	1.50	100	K294772	☐	19-056	ow grade		☐	☐	☐
54.88	55.84	0.96	QFP	0.96	100	K294773	☐	19-056	ow grade		☐	☐	☐
55.84	56.12	0.28	VEN	0.28	100	W599202	☐	19-049	high grade		☐	☐	☐
56.12	56.42	0.30	GRD	0.30	100	K294774	☐	19-056	ow grade		☐	☐	☐
56.42	56.75	0.33	VEN	0.33	100	W599203	☐	19-049	high grade		☐	☐	☐
56.75	57.20	0.45	VEN	0.45	100	W599204	☐	19-049	high grade		☐	☐	☐
57.20	57.50	0.30	VEN	0.30	100	W599206	☐	19-049	high grade		☐	☐	☐
57.50	58.32	0.82	VEN, GRD	0.80	98	K294775	☐	19-056	ow grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
58.32	58.80	0.48	GRD	0.48	100	K294776	☐	19-056	ow grade		☐	☐	☐
58.32	58.80	0.48	GRD	0.48	100	K294777	☐	19-056	ow grade		☐	☑	☐
58.80	59.90	1.10	GRD, GRD	1.10	100	K294778	☐	19-056	ow grade		☐	☐	☐
59.90	60.60	0.70	GRD	0.70	100	K294779	☐	19-056	ow grade		☐	☐	☐
60.60	61.40	0.80	GRD	0.80	100	K294780	☐	19-056	ow grade		☐	☐	☐
61.40	61.80	0.40	GRD	0.40	100	K294781	☐	19-056	ow grade		☐	☐	☐
61.80	62.75	0.95	GRD	0.92	97	K294782	☐	19-056	ow grade		☐	☐	☐
62.75	64.25	1.50	GRD	1.50	100	K294783	☐	19-056	ow grade		☐	☐	☐
64.25	65.05	0.80	GRD	0.80	100	K294785	☐	19-056	ow grade		☐	☐	☐
65.05	65.55	0.50	GRD	0.50	100	K294786	☐	19-056	ow grade		☐	☐	☐
65.55	65.85	0.30	VEN, GRD	0.30	100	W599207	☐	19-049	high grade		☐	☐	☐
65.85	66.28	0.43	GRD	0.40	93	K294787	☐	19-056	ow grade		☐	☐	☐
66.28	67.20	0.92	GRD	0.92	100	K294788	☐	19-056	ow grade		☐	☐	☐
67.20	68.00	0.80	GRD	0.80	100	K294789	☐	19-056	ow grade		☐	☐	☐
68.00	69.35	1.35	GRD	1.35	100	K294790	☐	19-056	ow grade		☐	☐	☐
68.00	69.35	1.35	GRD	1.35	100	K294791	☐	19-056	ow grade		☐	☐	☑
69.35	69.75	0.40	GRD	0.40	100	K294792	☐	19-056	ow grade		☐	☐	☐
69.75	70.30	0.55	GRD	0.55	100	K294793	☐	19-056	ow grade		☐	☐	☐
70.30	70.75	0.45	GRD	0.45	100	K294794	☐	19-056	ow grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
70.75	71.40	0.65	GRD	0.64	98	K294795	☐	19-056	ow grade		☐	☐	☐
71.40	72.60	1.20	GRD	1.20	100	K294797	☐	19-056	ow grade		☐	☐	☐
72.60	73.20	0.60	GRD	0.60	100	K294798	☐	19-056	ow grade		☐	☐	☐
73.20	74.50	1.30	GRD, GRD	1.30	100	K294799	☐	19-056	ow grade		☐	☐	☐
74.50	75.75	1.25	GRD	1.25	100	K294800	☐	19-056	ow grade		☐	☐	☐
75.75	76.40	0.65	GRD	0.65	100	K294801	☐	19-057	low grade		☐	☐	☐
76.40	77.90	1.50	GRD	1.50	100	K294802	☐	19-057	low grade		☐	☐	☐
77.90	78.90	1.00	GRD	1.00	100	K294803	☐	19-057	low grade		☐	☐	☐
78.90	80.40	1.50	GRD	1.50	100	K294804	☐	19-057	low grade		☐	☐	☐
80.40	81.70	1.30	GRD	1.30	100	K294805	☐	19-057	low grade		☐	☐	☐
80.40	81.70	1.30	GRD	1.30	100	K294806	☐	19-057	low grade		☐	☐	☑
81.70	82.37	0.67	GRD	0.55	82	K294807	☐	19-057	low grade		☐	☐	☐
82.37	83.87	1.50	GRD	1.50	100	K294808	☐	19-057	low grade		☐	☐	☐
83.87	84.40	0.53	GRD	0.53	100	K294809	☐	19-057	low grade		☐	☐	☐
84.40	85.00	0.60	GRD	0.60	100	K294810	☐	19-057	low grade		☐	☐	☐
85.00	85.50	0.50	GRD	0.50	100	K294812	☐	19-057	low grade		☐	☐	☐
85.50	86.50	1.00	GRD	1.00	100	K294813	☐	19-057	low grade		☐	☐	☐
86.50	87.33	0.83	GRD, GRD	0.83	100	K294814	☐	19-057	low grade		☐	☐	☐
87.33	87.65	0.32	GRD	0.32	100	K294815	☐	19-057	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
87.65	88.50	0.85	GRD	0.85	100	K294816	☐	19-057	low grade		☐	☐	☐
88.50	90.00	1.50	GRD	1.50	100	K294818	☐	19-057	low grade		☐	☐	☐
90.00	91.50	1.50	GRD	1.50	100	K294819	☐	19-057	low grade		☐	☐	☐
91.50	92.20	0.70	GRD	0.70	100	K294820	☐	19-057	low grade		☐	☐	☐
92.20	93.30	1.10	GRD	1.10	100	K294821	☐	19-057	low grade		☐	☐	☐
93.30	94.05	0.75	GRD	0.75	100	K294822	☐	19-057	low grade		☐	☐	☐
94.05	94.50	0.45	GRD	0.45	100	K294823	☐	19-057	low grade		☐	☐	☐
94.50	96.00	1.50	GRD	1.50	100	K294824	☐	19-057	low grade		☐	☐	☐
96.00	97.46	1.46	GRD	1.45	99	K294826	☐	19-057	low grade		☐	☐	☐
97.46	98.96	1.50	GRD, GRD	1.50	100	K294827	☐	19-057	low grade		☐	☐	☐
98.96	100.46	1.50	GRD	1.50	100	K294828	☐	19-057	low grade		☐	☐	☐
100.46	101.96	1.50	GRD	1.50	100	K294829	☐	19-057	low grade		☐	☐	☐
101.96	103.46	1.50	GRD	1.50	100	K294830	☐	19-057	low grade		☐	☐	☐
103.46	104.96	1.50	GRD	1.50	100	K294831	☐	19-057	low grade		☐	☐	☐
103.46	104.96	1.50	GRD	1.50	100	K294832	☐	19-057	low grade		☐	☑	☐
104.96	105.65	0.69	GRD	0.68	99	K294833	☐	19-057	low grade		☐	☐	☐
105.65	106.40	0.75	GRD	0.75	100	K294834	☐	19-057	low grade		☐	☐	☐
106.40	107.00	0.60	GRD, GRD	0.60	100	K294835	☐	19-057	low grade		☐	☐	☐
107.00	108.10	1.10	GRD	1.10	100	K294836	☐	19-057	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
108.10	108.71	0.61	GRD	0.60	98	K294837	☐	19-057	low grade		☐	☐	☐
108.71	109.25	0.54	GRD	0.53	98	K294838	☐	19-057	low grade		☐	☐	☐
109.25	110.30	1.05	GRD, GRD	1.05	100	K294839	☐	19-057	low grade		☐	☐	☐
110.30	110.55	0.25	GRD, GRD	0.25	100	K294840	☐	19-057	low grade		☐	☐	☐
110.55	112.00	1.45	GRD, GRD	1.45	100	K294841	☐	19-058	low grade		☐	☐	☐
112.00	112.32	0.32	GRD, GRD	0.32	100	K294842	☐	19-058	low grade		☐	☐	☐
112.32	113.44	1.12	GRD	1.10	98	K294843	☐	19-058	low grade		☐	☐	☐
113.44	114.03	0.59	GRD	0.59	100	K294844	☐	19-058	low grade		☐	☐	☐
114.03	115.53	1.50	GRD	1.50	100	K294845	☐	19-058	low grade		☐	☐	☐
114.03	115.53	1.50	GRD	1.50	100	K294846	☐	19-058	low grade		☐	☑	☐
115.53	117.03	1.50	GRD	1.50	100	K294847	☐	19-058	low grade		☐	☐	☐
117.03	118.00	0.97	GRD	0.97	100	K294848	☐	19-058	low grade		☐	☐	☐
118.00	118.73	0.73	GRD	0.73	100	K294849	☐	19-058	low grade		☐	☐	☐
118.73	119.18	0.45	GRD	0.44	98	K294850	☐	19-058	low grade		☐	☐	☐
119.18	120.68	1.50	GRD	1.43	95	K294851	☐	19-058	low grade		☐	☐	☐
120.68	122.18	1.50	GRD	1.50	100	K294852	☐	19-058	low grade		☐	☐	☐
120.68	122.18	1.50	GRD	1.50	100	K294853	☐	19-058	low grade		☐	☐	☑
122.18	123.68	1.50	GRD	1.50	100	K294854	☐	19-058	low grade		☐	☐	☐
123.68	125.18	1.50	GRD	1.40	93	K294855	☐	19-058	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
125.18	126.68	1.50	GRD	1.47	98	K294856	☐	19-058	low grade		☐	☐	☐
126.68	128.02	1.34	GRD	1.31	98	K294857	☐	19-058	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-056	K294768	0.00	0.00	0.00	20	☐	☐	☑	☐	BLANK
19-056	K294784	0.00	0.00	0.30	560	☐	☐	☐	☑ ME-6	ME-6 STD
19-056	K294796	0.00	0.00	0.30	590	☐	☐	☐	☑ ME-6	ME-6 STD
19-054	K294728	0.00	0.00	0.29	450	☐	☐	☐	☑ ME-6	ME-6 STD
19-054	K294735	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-054	K294756	0.00	0.00	0.27	560	☐	☐	☐	☑ ME-6	ME-6
19-049	W599205	0.00	0.00	10.50	460	☐	☐	☐	☑ ME-1402	ME-1402 STD
19-057	K294811	0.00	0.00	0.00	30	☐	☐	☑	☐	bank
19-057	K294817	0.00	0.00	1.81	1150	☐	☐	☐	☑ KL-STD6	KL-6 STD
19-057	K294825	0.00	0.00	0.28	630	☐	☐	☐	☑ ME-6	ME-6
19-053	K294716	3.00	4.00	0.04	2000	☐	☐	☐	☐	
19-053	K294717	4.00	5.50	0.01	2220	☐	☐	☐	☐	
19-053	K294718	5.50	7.00	0.01	1780	☐	☐	☐	☐	
19-053	K294719	7.00	8.50	0.01	1850	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-053	K294720	8.50	10.00	0.06	2100	☐	☐	☐	☐	
19-054	K294721	10.00	11.50	0.01	2400	☐	☐	☐	☐	
19-054	K294722	11.50	12.60	0.06	1980	☐	☐	☐	☐	
19-054	K294723	12.60	14.00	0.02	2170	☐	☐	☐	☐	
19-054	K294724	14.00	15.50	0.00	2430	☐	☐	☐	☐	
19-054	K294725	15.50	17.00	0.02	2170	☐	☐	☐	☐	
19-054	K294726	17.00	18.50	0.06	1900	☐	☐	☐	☐	
19-054	K294727	18.50	20.00	0.08	1550	☐	☐	☐	☐	
19-054	K294729	20.00	21.50	0.07	1300	☐	☐	☐	☐	
19-054	K294730	21.50	23.00	0.34	1250	☐	☐	☐	☐	
19-054	K294731	23.00	24.33	0.32	370	☐	☐	☐	☐	
19-054	K294732	24.33	25.50	0.01	1850	☐	☐	☐	☐	
19-054	K294733	25.50	27.00	0.07	1040	☐	☐	☐	☐	
19-054	K294734	27.00	28.35	0.02	1690	☐	☐	☐	☐	
19-054	K294736	28.35	28.65	2.93	230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-054	K294737	28.65	30.00	0.02	1690	☐	☐	☐	☐	
19-054	K294738	30.00	31.20	0.04	1940	☐	☐	☐	☐	
19-054	K294739	31.20	31.50	2.28	790	☐	☐	☐	☐	
19-054	K294740	31.50	32.00	0.13	870	☐	☐	☐	☐	
19-054	K294741	32.00	33.35	0.07	1130	☐	☐	☐	☐	
19-054	K294742	32.00	33.35	0.07	1570	☑	☐	☐	☐	1/4 dup
19-054	K294743	33.35	34.35	0.20	80	☐	☐	☐	☐	
19-054	K294744	34.35	34.70	0.17	170	☐	☐	☐	☐	
19-054	K294745	34.70	35.50	0.13	500	☐	☐	☐	☐	
19-054	K294746	35.50	36.45	0.17	310	☐	☐	☐	☐	
19-054	K294747	36.45	37.00	0.04	1070	☐	☐	☐	☐	
19-054	K294748	37.00	38.00	0.06	1390	☐	☐	☐	☐	
19-054	K294749	37.00	38.00	0.06	1390	☐	☑	☐	☐	coarse dup
19-054	K294750	38.00	38.30	0.22	560	☐	☐	☐	☐	
19-054	K294751	38.30	39.38	0.08	2150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-054	K294752	39.38	40.78	0.01	1320	☐	☐	☐	☐	
19-054	K294753	40.78	41.38	0.21	1230	☐	☐	☐	☐	
19-054	K294754	41.38	42.88	0.08	1190	☐	☐	☐	☐	
19-054	K294755	42.88	44.20	0.08	1140	☐	☐	☐	☐	
19-054	K294757	44.20	44.70	0.04	780	☐	☐	☐	☐	
19-054	K294758	44.70	45.00	0.34	310	☐	☐	☐	☐	
19-054	K294759	45.00	45.34	0.09	80	☐	☐	☐	☐	
19-054	K294760	45.34	45.72	0.08	170	☐	☐	☐	☐	
19-056	K294761	45.72	46.50	0.05	1200	☐	☐	☐	☐	
19-056	K294762	46.50	47.25	0.01	1070	☐	☐	☐	☐	
19-056	K294763	47.25	47.85	0.05	460	☐	☐	☐	☐	
19-056	K294764	47.85	48.70	0.02	1570	☐	☐	☐	☐	
19-056	K294765	48.70	49.10	0.05	720	☐	☐	☐	☐	
19-049	W599198	49.10	49.40	0.45	140	☐	☐	☐	☐	high grade
19-049	W599199	49.10	49.40	0.28	320	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-056	K294766	49.40	49.70	0.50	70	☐	☐	☐	☐	
19-049	W599200	49.70	50.17	1.67	40	☐	☐	☐	☐	high grade
19-056	K294767	50.17	50.60	0.32	140	☐	☐	☐	☐	
19-049	W599201	50.60	51.15	7.18	110	☐	☐	☐	☐	high grade
19-056	K294769	51.15	51.80	0.01	1530	☐	☐	☐	☐	
19-056	K294770	51.80	52.27	0.00	2780	☐	☐	☐	☐	
19-056	K294771	52.27	53.38	0.00	1490	☐	☐	☐	☐	
19-056	K294772	53.38	54.88	0.00	1910	☐	☐	☐	☐	
19-056	K294773	54.88	55.84	0.00	1910	☐	☐	☐	☐	
19-049	W599202	55.84	56.12	0.85	70	☐	☐	☐	☐	high grade
19-056	K294774	56.12	56.42	0.37	200	☐	☐	☐	☐	
19-049	W599203	56.42	56.75	1.86	30	☐	☐	☐	☐	high grade
19-049	W599204	56.75	57.20	1.91	50	☐	☐	☐	☐	high grade
19-049	W599206	57.20	57.50	8.37	370	☐	☐	☐	☐	high grade
19-056	K294775	57.50	58.32	0.06	310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-056	K294776	58.32	58.80	0.04	340	☐	☐	☐	☐	
19-056	K294777	58.32	58.80	0.05	390	☑	☐	☐	☐	1/4 dup
19-056	K294778	58.80	59.90	0.01	1850	☐	☐	☐	☐	
19-056	K294779	59.90	60.60	0.03	3660	☐	☐	☐	☐	
19-056	K294780	60.60	61.40	0.06	2010	☐	☐	☐	☐	
19-056	K294781	61.40	61.80	0.03	530	☐	☐	☐	☐	
19-056	K294782	61.80	62.75	0.07	1850	☐	☐	☐	☐	
19-056	K294783	62.75	64.25	0.28	1990	☐	☐	☐	☐	
19-056	K294785	64.25	65.05	0.20	1890	☐	☐	☐	☐	
19-056	K294786	65.05	65.55	0.23	350	☐	☐	☐	☐	
19-049	W599207	65.55	65.85	0.24	160	☐	☐	☐	☐	high grade
19-056	K294787	65.85	66.28	0.08	440	☐	☐	☐	☐	
19-056	K294788	66.28	67.20	0.06	640	☐	☐	☐	☐	
19-056	K294789	67.20	68.00	0.04	1760	☐	☐	☐	☐	
19-056	K294790	68.00	69.35	0.03	2130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-056	K294791	68.00	69.35	0.04	3230	☐	☑	☐	☐	coarse rej dup
19-056	K294792	69.35	69.75	0.02	3500	☐	☐	☐	☐	
19-056	K294793	69.75	70.30	0.02	870	☐	☐	☐	☐	
19-056	K294794	70.30	70.75	0.06	630	☐	☐	☐	☐	
19-056	K294795	70.75	71.40	0.03	1150	☐	☐	☐	☐	
19-056	K294797	71.40	72.60	0.03	2170	☐	☐	☐	☐	
19-056	K294798	72.60	73.20	0.01	1900	☐	☐	☐	☐	
19-056	K294799	73.20	74.50	0.01	2090	☐	☐	☐	☐	
19-056	K294800	74.50	75.75	0.07	2140	☐	☐	☐	☐	
19-057	K294801	75.75	76.40	0.03	2170	☐	☐	☐	☐	
19-057	K294802	76.40	77.90	0.02	2010	☐	☐	☐	☐	
19-057	K294803	77.90	78.90	0.03	2500	☐	☐	☐	☐	
19-057	K294804	78.90	80.40	0.03	2110	☐	☐	☐	☐	
19-057	K294805	80.40	81.70	0.02	2430	☐	☐	☐	☐	
19-057	K294806	80.40	81.70	0.02	2590	☐	☑	☐	☐	coarse rej dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-057	K294807	81.70	82.37	0.49	1640	☐	☐	☐	☐	
19-057	K294808	82.37	83.87	0.03	2090	☐	☐	☐	☐	
19-057	K294809	83.87	84.40	0.09	2300	☐	☐	☐	☐	
19-057	K294810	84.40	85.00	1.37	650	☐	☐	☐	☐	
19-057	K294812	85.00	85.50	0.01	2270	☐	☐	☐	☐	
19-057	K294813	85.50	86.50	0.02	1260	☐	☐	☐	☐	
19-057	K294814	86.50	87.33	0.01	2100	☐	☐	☐	☐	
19-057	K294815	87.33	87.65	0.24	820	☐	☐	☐	☐	
19-057	K294816	87.65	88.50	0.01	2860	☐	☐	☐	☐	
19-057	K294818	88.50	90.00	0.01	4160	☐	☐	☐	☐	
19-057	K294819	90.00	91.50	0.01	2660	☐	☐	☐	☐	
19-057	K294820	91.50	92.20	0.20	1760	☐	☐	☐	☐	
19-057	K294821	92.20	93.30	0.01	2590	☐	☐	☐	☐	
19-057	K294822	93.30	94.05	0.01	2550	☐	☐	☐	☐	
19-057	K294823	94.05	94.50	0.06	960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-057	K294824	94.50	96.00	0.01	2650	☐	☐	☐	☐	
19-057	K294826	96.00	97.46	0.02	2680	☐	☐	☐	☐	
19-057	K294827	97.46	98.96	0.08	2160	☐	☐	☐	☐	
19-057	K294828	98.96	100.46	0.03	2420	☐	☐	☐	☐	
19-057	K294829	100.46	101.96	0.01	2240	☐	☐	☐	☐	
19-057	K294830	101.96	103.46	0.01	2500	☐	☐	☐	☐	
19-057	K294831	103.46	104.96	0.01	2620	☐	☐	☐	☐	
19-057	K294832	103.46	104.96	0.01	2640	☑	☐	☐	☐	1/4 dup
19-057	K294833	104.96	105.65	0.00	2340	☐	☐	☐	☐	
19-057	K294834	105.65	106.40	0.02	1810	☐	☐	☐	☐	
19-057	K294835	106.40	107.00	0.00	2030	☐	☐	☐	☐	
19-057	K294836	107.00	108.10	0.05	1480	☐	☐	☐	☐	
19-057	K294837	108.10	108.71	0.63	780	☐	☐	☐	☐	
19-057	K294838	108.71	109.25	0.03	930	☐	☐	☐	☐	
19-057	K294839	109.25	110.30	0.01	2560	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-057	K294840	110.30	110.55	0.01	2190	☐	☐	☐	☐	
19-058	K294841	110.55	112.00	0.00	2380	☐	☐	☐	☐	
19-058	K294842	112.00	112.32	0.02	1300	☐	☐	☐	☐	
19-058	K294843	112.32	113.44	0.01	2470	☐	☐	☐	☐	
19-058	K294844	113.44	114.03	0.01	1940	☐	☐	☐	☐	
19-058	K294845	114.03	115.53	0.03	2230	☐	☐	☐	☐	
19-058	K294846	114.03	115.53	0.02	2190	☑	☐	☐	☐	1/4 dup
19-058	K294847	115.53	117.03	0.00	2360	☐	☐	☐	☐	
19-058	K294848	117.03	118.00	0.01	2220	☐	☐	☐	☐	
19-058	K294849	118.00	118.73	0.01	1820	☐	☐	☐	☐	
19-058	K294850	118.73	119.18	1.83	130	☐	☐	☐	☐	
19-058	K294851	119.18	120.68	0.01	2310	☐	☐	☐	☐	
19-058	K294852	120.68	122.18	0.01	2300	☐	☐	☐	☐	
19-058	K294853	120.68	122.18	0.00	2270	☐	☑	☐	☐	coarse duplicate
19-058	K294854	122.18	123.68	0.00	2260	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-058	K294855	123.68	125.18	0.00	2270	☐	☐	☐	☐	
19-058	K294856	125.18	126.68	0.00	2330	☐	☐	☐	☐	
19-058	K294857	126.68	128.02	0.00	2370	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.80	8.50	FT	42	60	NUL	1	intensely lay altered section of granodiorite - definitely a fault running through here			
11.25	11.50	ST		60	NUL	4	small quartz carbonate veinlets - barren of sulfie			
12.50	12.80	ST		70	NUL	2	two small pyrite bearing quartz veinlet			
								Py	0.5	DI
22.00	23.65	ST		70	NUL	3	three small pyrit ebearing quartz veinlets			
								Py	0.5	DI
24.33	27.00	DY	37	70	NUL	1	feldspar porphyritic dye			
28.50	28.75	ST		80	NUL	2	two small pyrite and galena bearing quartz carbonate veinlets			
								Py	0.5	DI
								Gn	0.5	DI
30.00	30.30	ST		70	NUL	4	small quartz carbonate veinlets - barren of sulfide			
31.25	31.45	VN	37	75	NUL	1	quartz cabornate clay vein with pyrite and galena			
								Py	1	DI
								Gn	1	DI
34.56	34.76	VN	37	70	NUL	1	pyrite bearing clay altered quartz carbonate vein			
								Py	2	DI
38.05	38.28	VB	37	80	vn	1	pyrite bearing quartz crbonate clay altered vein			
								Py	2	DI
39.38	41.38	DY	37	70	NUL	1	QFP dyke			
44.71	44.87	VN	37	75	NUL	1	polymetalic qyartz vein			
45.04	45.34	ST		70	NUL	3	pyrite bearing quartz stringers			
45.34	45.72	FT	42	70	NUL	1	gouged mineralied fault material			
45.72	47.24	DY	37	70	NUL	1	QFP dyke			
47.24	48.00	GO	34	70	NUL	1	gouge and brecia grd			
49.16	49.30	VN	37	60	NUL	1	pyrite bearing QV			
49.69	50.17	VN	37	80	NUL	1	pyrite bearing QV			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
50.17	50.61	DY	37	70	NUL	1	QFP dyke			
50.61	51.15	VN	37	70	NUL	1	pyrite and arseno beaering QV			
51.15	51.80	GO	34	50	NUL	1	gouged brecciated granodioirte			
52.27	55.75	DY	37	70	NUL	1	QFP dyke; chloritized			
55.75	56.10	VN	37	70	NUL	1	pyrite bearing QV			
56.45	57.50	VN	37	70	NUL	1	pyrite bearing QV with arseno galena and sphal			
61.57	61.58	VT	37	70	NUL	1	pyrite bearing QV			
63.40	63.60	BX	34	90	NUL	1	small carboante ebreccia zone, no sulfides			
63.70	65.09	FT	42	70	NUL	1	faulted granodiorite			
65.56	65.76	VB	37	70	NUL	1	quartz carbonate vein breccia with pyrite and galena and sphal (trace)			
68.27	68.50	ST		70	NUL	3	pyrite bearing q veinlets			
68.39	68.45	FT	42	30	NUL	1	brecciated gouged grnodiorite			
70.30	70.63	FT	42	45	NUL	1	faulted gouged granodiorite			
78.85	79.50	ST		30	NUL	5	quartz carbonate stringer veinlets no sulfide			
90.25	90.75	ST		60	NUL	3	smally quartz stringers no sulfide			
91.00	92.50	ST		70	NUL	4	pyrite bearing quartz veinlets			
								Py	0.5	DI
94.00	94.50	ST		70	NUL	3	pyrite bearing quartz veinlets			
								Py	0.5	DI
96.01	97.10	ST		70	NUL	4	pyrite bearing quartz veinlets			
								Py	0.5	DI
98.00	99.00	ST		70	NUL	4	pyrite bearing quartz veinlets			
								Py	1	DI
105.50	106.21	ST		60	NUL	6	small quartz carbonate veinlets with minor pyrite			
								Py	0.5	DI
107.75	108.20	ST		70	NUL	2	pyrite bearing quartz veinlets			
								Py	0.5	DI
108.20	108.30	VN	37	70	NUL	1	semimassive polymetallic vein			
								Sp	2	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	1	DI
								Py	5	DI
108.30	109.25	ST		60	NUL	5	pyrite bearing quartz veinlets			
								Py	1	DI
110.30	110.55	ST		60	NUL	2	pyrite bearing quartz veinlets			
								Py	0.5	DI
112.00	112.35	ST		60	NUL	1	pyrite bearing quartz veinlet			
								Py	0.1	DI
113.40	114.05	ST		60	NUL	3	carbonate veinlet stringers no sulfide			
118.84	119.00	VN	37	60	NUL	1	semimassive sufide vein; polymetallic, with galena, pyrite, sphalerite and arsenopyrite			
								Py	15	BA
								Gn	2	DI
								As	1	DI
								Sp	2	BA
120.30	121.20	FT	42	30	NUL	1	chloritized faulted section of granodiorite			
122.00	123.50	ST		30	NUL	13	set of small carbonate chlorite strginer veinlets			
123.83	124.50	FT	42	25	NUL	1	faulted granodiorite			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382718	6889131	1448.794	179.83

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-448

CLAIM: YC37991

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 0m, Out

Drilling Dates: Sep 15 - Sep 16, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
15	34.66	-51	Reflex
179.83	36.96	-51.2	Reflex

TARGET: Resource infill, AEX

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.05	1.05	OVB
1.05	3	1.95	GRD
3	5.2	2.2	GRD
5.2	12.7	7.5	GRD
12.7	12.89	0.19	VEN
12.89	14.84	1.95	GRD
14.84	19.61	4.77	QFP
19.61	19.95	0.34	GRD
19.95	20.1	0.15	GRD
20.1	23.5	3.4	GRD
23.5	24.1	0.6	QFP
24.1	26	1.9	GRD
26	27.14	1.14	GRD
27.14	29.4	2.26	GRD
29.4	31.75	2.35	GRD
31.75	39.05	7.3	QFP

SAMPLES	
Numbers:	K294858 to K295039, W599208
Total:	183
Batch:	049, 058, 061, 062, 063, 065
Certificates:	WH19247965, WH19247969, WH19247972, WH19247974, WH19247978, WH19255796

COMMENTS

39.05	40.16	1.11	GRD
40.16	40.35	0.19	GRD
40.35	42.67	2.32	GRD
42.67	50.1	7.43	QFP
50.1	51.58	1.48	GRD
51.58	55.8	4.22	GRD
55.8	56.12	0.32	GRD
56.12	64.4	8.28	QFP
64.4	65.33	0.93	QFP
65.33	65.45	0.12	GRD
65.45	69.92	4.47	QFP
69.92	70.5	0.58	GRD
70.5	71.7	1.2	GRD
71.7	72	0.3	GRD
72	73.5	1.5	GRD
73.5	77.07	3.57	GRD
77.07	77.23	0.16	GRD
77.23	78.4	1.17	GRD
78.4	78.5	0.1	GRD
78.5	79.45	0.95	GRD
79.45	80.3	0.85	GRD
80.3	82	1.7	GRD
82	85.1	3.1	QFP
85.1	85.7	0.6	GRD
85.7	101.1	15.4	QFP
101.1	101.86	0.76	GRD
101.86	109.8	7.94	QFP
109.8	114.6	4.8	QFP
114.6	115.6	1	QFP
115.6	116.3	0.7	GRD
116.3	117.65	1.35	GRD
117.65	120.4	2.75	GRD

120.4	122	1.6	GRD
122	123.7	1.7	GRD
123.7	124.1	0.4	GRD
124.1	125	0.9	GRD
125	126.12	1.12	GRD
126.12	126.75	0.63	GRD
126.75	127.36	0.61	GRD
127.36	127.5	0.14	GRD
127.5	128.6	1.1	GRD
128.6	130.3	1.7	GRD
130.3	131.3	1	GRD
131.3	131.9	0.6	GRD
131.9	133.18	1.28	QFP
133.18	133.62	0.44	QFP
133.62	134.05	0.43	QFP
134.05	136.5	2.45	GRD
136.5	136.64	0.14	VEN
136.64	137.2	0.56	GRD
137.2	138.64	1.44	GRD
138.64	141	2.36	QFP
141	142.45	1.45	GRD
142.45	149.57	7.12	QFP
149.57	149.85	0.28	GRD
149.85	150.9	1.05	GRD
150.9	152.2	1.3	GRD
152.2	153.47	1.27	GRD
153.47	156	2.53	GRD
156	157	1	GRD
157	158.5	1.5	GRD
158.5	159	0.5	GRD
159	160.5	1.5	GRD
160.5	161.33	0.83	GRD

161.33	162.5	1.17	GRD
162.5	165.5	3	GRD
165.5	168	2.5	GRD
168	169.3	1.3	GRD
169.3	171.06	1.76	GRD
171.06	171.87	0.81	GRD
171.87	172.3	0.43	VEN
172.3	174.15	1.85	GRD
174.15	174.7	0.55	GRD
174.7	175.9	1.2	GRD
175.9	177	1.1	GRD
177	178.55	1.55	GRD
178.55	179.83	1.28	GRD

Box Log

KL -19-448

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.05	5.51
2	5.51	9.78
3	9.78	14.08
4	14.08	18.52
5	18.52	22.81
6	22.81	27.14
7	27.14	31.5
8	31.5	35.41
9	35.41	39.62
10	39.62	43.82
11	43.82	47.96
12	47.96	52.31
13	52.31	56.28
14	56.28	60.47
15	60.47	64.68
16	64.68	68.53
17	68.53	72.72
18	72.72	76.96
19	76.96	81.33
20	81.33	85.6
21	85.6	89.86
22	89.86	94
23	94	98.35
24	98.35	102.31
25	102.31	106.3
26	106.3	110.66
27	110.66	114.94
28	114.94	119.02
29	119.02	123.12
30	123.12	127.7
31	127.7	131.4
32	131.4	135.64
33	135.64	139.72
34	139.72	143.89
35	143.89	148
36	148	152.2
37	152.2	156.38
38	156.38	160.56
39	160.56	164.69
40	164.69	168.9
41	168.9	173.18
42	173.18	177.19
43	177.19	179.83

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-448									
	33.73	15	NTW	QFP	861.1	558.1	2.03	2.8	
	37.81	13	NTW	QFP	764.1	499.5	2.08	2.9	
	82	20	NTW	GRD	1244.7	799.6	2.2	2.8	
	82	20	NTW	QFP	1244.7	799.6	2.2	2.8	
	139.04	8	NTW	QFP	421.1	280.6	1.86	3.0	
	147.67	10	NTW	QFP	557.8	367.5	1.97	2.9	
	168.6	19	NTW	GRD	1213.7	824	2.26	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.05	1.05	OVB	--	overburden							
1.05	3.00	1.95	GRD	MG	60 % overburden and 40% unaltered granodiorite							
						MD	GY					
						MD	BN					
3.00	5.20	2.20	GRD	MG	unaltered graanodiorite							
						MD	GY					
5.20	12.70	7.50	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with weak argillic alteration. Patchily oxidzed, with rare quartz carbonate veinlets containing pyrite							
						MD	GN		SIL	1I		
						MD	GN		PRO	3I		
						LT	BN		OXI	2I	Py	1
12.70	12.89	0.19	VEN	MG	clay gouged at upper contact, brecciated quartz feldspar porphyry with mineralized quartz carbonate infilling in the centre of the brecciated dyke. Subangular clasts of chloritized feldspar porphyry with a dark fine-grained groundmass on outer margins, with a light quartz carbonate groundmass in the centre with mineralized clasts and disseminated blebby banded pyrite							
						MD	GY		PRO	2I	Py	1
						LT	WH		SIL	3I	Sp	1
						LT	GN				Py	0.5
						DK	GY		CHL	2I	Gn	0.5
12.89	14.84	1.95	GRD	MG	medium grained weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
14.84	18.29	3.45	QFP	MG	porphyritic quartz feldspar dyke with chloritized and clay altered feldspar, with a heavily fractured section filled with hairline clay seams and weak carbonate veining barren of sulfide.							
						MD	GY		CLY	2I		
						MD	GN		CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.29	19.61	1.32	QFP	MG	heavily fracture qfp dyke							
19.61	19.95	0.34	GRD	MG	clay gouged, limonitic intensely clay altered granodiorite							
						LT	GY		CLY	5I		
						LT	BN					
19.95	20.10	0.15	GRD	MG	silicified and moderately propylitic altered granodiorite with dissesmianted pyrite and one pyrite beraing quartz veinlet							
						MD	GY		SIL	2I	Py	1
						DK	GY		PRO	4I		
20.10	23.50	3.40	GRD	MG	medium grained, patchily oxidized, weak to moderate propylitic altered granodiorite with sparse pyrite bearing quartz veinlets throughout							
						MD	GY		OXI	2I		
						LT	BN		PRO	1I	Py	0.5
23.50	24.10	0.60	QFP	MG	chloritized grains and groundmass in quartz feldspar porphyry dyke, sharp upper and lower contact with altered granodiorite							
						MD	GN		CHL	3I		
24.10	26.00	1.90	GRD	MG	medium grained, patchily oxidized, weakly propylitic altered granodiorite							
						MD	GN		OXI	2I		
						MD	GY					
						MD	BN		PRO	2I		
26.00	27.14	1.14	GRD	MG	moderately propylitic altered granodiorite with rare pyrite baring quartz veinlets							
						MD	GN		PRO	4I	Py	0.5
						MD	GY					
27.14	29.40	2.26	GRD	MG	unaltered granodiorite							
						MD	GY					
29.40	31.75	2.35	GRD	MG	medium grained, medium green weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
31.75	37.52	5.77	QFP	MG	medium grained, bleached light grey with clay altered feldspars quartz feldspar porphyry dyke, with a lower interval that is brown and oxidized.							
						MD	BN					
						LT	GY		CLY	3I		
37.52	39.05	1.53	QFP	MG	brown, oxidized portion of QFP dyke							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		OXI	3I		
39.05	40.16	1.11	GRD	MG	medium grained, weakly oxidized granodiorite with weak argillic and propylitic alteration							
						MD	GY		OXI	1I		
						MD	BN		CLY	1I		
									PRO	1I		
									ARG	1I		
40.16	40.35	0.19	GRD	MG	fault gouged granodiorite with an intensely clay altered matric with sparse GD clasts within							
						MD	BN		CLY	4I		
40.35	42.67	2.32	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinlets							
						MD	GY		PRO	3I	Py	0.5
						MD	GN		SIL	2I		
42.67	50.10	7.43	QFP	MG	medium grained, weakly chloritized and clay altered quartz feldspar porphyry dyke, with patch oxidation and rare quartz carbonate veinlets containing pyrite +- sphalerite.							
						MD	GN		CHL	2I	Sp	0.1
									CLY	2I		
50.10	51.58	1.48	GRD	MG	medium grained, weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
51.58	55.80	4.22	GRD	MG	medium grained, weak to moderately propylitic altered granodiorite with trace pyrite bearing quartz veinlets throughout interval.							
						MD	GN		PRO	3I	Py	0.1
55.80	56.12	0.32	GRD	MG	clay gouged, faulted, intensely clay altered granodiorite							
						LT	GY		CLY	5I		
56.12	60.50	4.38	QFP	MG	medium grained, tan brown to light brownish green, weakly chloritized and clay altered feldspar porphytyitic dyke, with one section of grain size reduction and propylitic alteration, with quartz carbonate veinlets with fine-grained black minerals along the quartz veinlet margins.							
						MD	GN					
						LT	BF		CHL	1I		
						LT	BN		PRO	2I		
60.50	61.10	0.60	QFP	FG	fine-grained quartz carbonate veinlet rich section of dyke							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	3I		
61.10	61.60	0.50	QFP	MG	medium grained, tan brown to light brownish green, weakly chloritized and clay altered feldspar porphytyitic dyke, with one section of grain size reduction and propylitic alteration, with quartz carbonate veinlets with fine-grained black minerals along the quartz veinlet margins.							
61.60	64.40	2.80	QFP	FG	fine-grained quartz carbonate rich section of dyke, with grain size reduction and fine-grained black mineral on margin of veinlets							
						MD	GN					
64.40	65.33	0.93	QFP	MG	faulted, clay gouged portion of quartz feldspar dyke							
						LT	GY		CLY	5I		
						LT	BN					
65.33	65.45	0.12	GRD	MG	medium grained lens of granodiorite surrounded by dyke							
						MD	GY					
65.45	69.92	4.47	QFP	MG	medium grained, weakly chloritized and clay altered feldspar porphyryitic dyke with weak oxidation on fracture surfaces.							
						MD	GN		OXI	1I		
						LT	BN		ARG	1I		
									CHL	1I		
69.92	70.50	0.58	GRD	MG	moderate to strongly propylitic altered granodiorite with weak dissemianted pyrite throughout							
						MD	GN		PRO	3I	Py	0.5
70.50	71.70	1.20	GRD	MG	medium grained medium to light greenish grey, weakly argillic altered granodiorite with moderate propylitic overprint							
						MD	GY		ARG	1I		
						MD	GN		PRO	3I		
71.70	72.00	0.30	GRD	MG	medium grained, strong propylitic altered granodiorite with 3 low angle quartz carbonate veinlets with finegrained pyrit e and sphalerite							
						MD	GN		PRO	4I	Sp	0.5
											Py	1
72.00	73.50	1.50	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
73.50	77.07	3.57	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. Light greenish grey to medium greenish grey, patchy white							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	2I		
77.07	77.23	0.16	GRD	MG	clay gouged, faulted granodiorite							
						LT	GY		CLY	5I		
						LT	BN					
77.23	78.40	1.17	GRD	MG	moderate propylitic altered granodiorite							
						MD	GY		PRO	3I		
						MD	GN					
78.40	78.50	0.10	GRD	MG	siliceous, strongly propylitic altered granodiorite with disseminated pyrite							
						MD	GY		PRO	4I	Py	1
						MD	GN		SIL	2I		
78.50	79.45	0.95	GRD	MG	medium grained, wealy propylitic altered granodiorite							
						MD	GY					
						MD	GN		PRO	1I		
79.45	80.30	0.85	GRD	MG	medium grained, strongly propylitic altered granodiorite with quartz veinlets with pyrite							
						MD	GN		PRO	4I	Py	3
									SIL	4I		
80.30	82.00	1.70	GRD	MG	medium grained, moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I		
82.00	85.10	3.10	QFP	MG	tan brown to grey feldspar porphyryitic with a fine-grained groundmass dyke							
						MD	GY		CLY	2I		
						LT	BN					
						LT	TN					
85.10	85.70	0.60	GRD	MG	faulted, weakly brecciated granodiorite with a dark grey to black groundmass and minor dyke intermingled within interval. Weak disseminated pyrite thorughout interval; likely fault related							
						MD	GY				Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
85.70	101.10	15.40	QFP	MG	medium greenish grey to brownish grey, clay and chlorite altered feldspar porphyrytic dyke with a fine-grained groundmass. Variably altered between weak to moderate chloritized and clay altered feldspars within a fine-grained weakly chloritized groundmass.							
						MD	BN					
						MD	GY		CHL	2I		
						MD	GN		CLY	2I		
101.10	101.86	0.76	GRD	MG	medium grained, dark grey, silicified and propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets. Sharp upper and lower contct with dyke							
						DK	GY		PRO	2I	Py	2
									SIL	3I		
101.86	109.80	7.94	QFP	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.							
						MD	BN		CLY	3I		
109.80	114.60	4.80	QFP	MG	light green feldspar porphyry dyke, likely similar phase to the one described above (gradational upper ocntact with brown dyke; similar porphyritic texture, only difference between them is colour); with chloritized and clay altered groundmass and feldspar grains							
						MD	GN		CHL	3I		
									CLY	2I		
114.60	115.60	1.00	QFP	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.							
						MD	BN		CLY	2I		
115.60	116.30	0.70	GRD	MG	intensely clay altered; likely faulted ontact between granodiorite and dyke (above).							
						MD	GY		CLY	4I		
						LT	GY					
116.30	117.65	1.35	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak (2) pyrite bearing quartz veinlets							
						MD	GY					
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
117.65	120.40	2.75	GRD	MG	medium grained, weakly brecciated granodiorite with dissemianted pyrite along groundmass and on edges of some brecciated clasts of granodiorite. Stockwork-like hairline clay fractures contain trace pyrite along them; weak pyrite +- sphalerite bearing quartz veinlets dispersed throughout interval							
						MD	GY		CLY	2I	Sp	0.5
						LT	GY					
						DK	GY		ARG	2I	Py	1
120.40	122.00	1.60	GRD	MG	medium grained alternating between moderately argillic altered and moderately propylitic altered granodiorite. Propylitic altered sections are medium greyish green, and argillic sections are whitish green. Strongly propylitic altered zones host disseminated pyrite in groundmass and within pyrite veinlets							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH		PRO	3I	Py	0.4
122.00	123.70	1.70	GRD	MG	medium grained, light greenish white to greenish grey, moderately argillic altered granodiorite with a weak propylitic and siliceous alteration overprint. Silceous zones are darker grey and have weak disseminted pyrite in granodiorite groundmass							
						MD	GY		ARG	2I	Py	0.5
						MD	GN					
						LT	WH		PRO	3I		
123.70	124.10	0.40	GRD	MG	silicified strongly propylitic altered granodiorite with two sphalerite bearing 1 cm wide carbonate veinlets							
						MD	GY		PRO	4I	Sp	1
											Py	0.5
124.10	125.00	0.90	GRD	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena							
						MD	GY		SIL	1I	Py	1
						MD	GN		PRO	4I	To	0.5
											Py	0.5
											Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
125.00	126.12	1.12	GRD	MG	moderately silicified and propylitic altered granodiorite with one patch of tourmaline and one stringer veinlet with pyrite.							
						MD	GN				Py	0.5
						MD	GY				To	0.5
126.12	126.75	0.63	GRD	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena. Small 2 cm wide zone of brecciation within interval; barren of sulphide							
						MD	GN		PRO	4I	Gn	0.5
						MD	GY		SIL	2I	Py	0.5
126.75	127.36	0.61	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
127.36	127.50	0.14	GRD	MG	faulted, rubby fractured granodiorite likely related to faulitng							
						MD	GY		CLY	4I		
127.50	128.60	1.10	GRD	MG	fractured, moderately silicified and propylitic altered granodiorite with disseminated pyrite thoughout groundmass							
						MD	GY		PRO	2I	Py	0.5
						LT	GN		CLY	1I		
						DK	GY		SIL	3I		
128.60	130.30	1.70	GRD	MG	heavily fractured, competent, yet strongly clay altered granodiorite with stockwork hairline clay-fractures throughout. Weak brecciated texture throughout interval. No sulfides							
						MD	GY		CLY	3I		
						MD	GN					
130.30	131.30	1.00	GRD	MG	silicified and propylitic altered granodiorite with disseminated pyrite throughout interval							
						MD	GN		PRO	3I	Py	1
						MD	GY		SIL	3I		
131.30	131.90	0.60	GRD	MG	intensely clay altered, faulted clay gouged granodiorite.							
						MD	GY		CLY	5I		
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
131.90	133.18	1.28	QFP	MG	tan brown with weakly clay altered freldspar porphyryitic dyke, heavily fractured near upper cotact with fault, and less dense fractures as you move downhole. Last 10 cm of lower conatc is fractured, as you hit another faulted section and colour change in the dyke.							
						MD	BN					
						LT	TN		CLY	2I		
133.18	133.62	0.44	QFP	MG	faulted dyke, heavily clay altered and fractured. Light greenish grey							
						MD	GY		CLY	5I		
						LT	GN					
133.62	134.05	0.43	QFP	MG	heavily faulted dyke/granodiorite mix with heavy clay alteration							
						LT	GN		PRO	3I		
						LT	GY		CLY	5I		
134.05	136.50	2.45	GRD	MG	wekaly argillic altered granodiorite with a strong siliceous and porpylitic overprint. Medium to dra grye, heavily fractured, with dissemianted patch tourmaline and dissminated pyrite throughout. Pyrite is develeoped along fracture surfaces as well as clay. Patchy banded pyrite along fractures throughout interval							
						MD	GY		SIL	3I	Py	1
						LT	GN					
						DK	GY		PRO	4I	Py	1
136.50	136.64	0.14	VEN	MG	quartz rich milky white quartz vein with 3 1 cm wide bands of pyrite trending 70 TCA							
						LT	WH		SIL	5I	Py	5
136.64	137.20	0.56	GRD	MG	moderate siliceous and propylitic altered granodiorite with traec dissem pyrite							
						MD	GY		PRO	3I	Py	0.5
						LT	GN		SIL	2I		
						DK	GY					
137.20	138.64	1.44	GRD	MG	weakly silicifed and pyropyltic altered granodiorite with no visible sulfide							
						MD	GY		PRO	2I		
						MD	GN		SIL	2I		
138.64	141.00	2.36	QFP	MG	tan brown feldspar porphyritic dyke with weak two carbonate veinlets developed running parallel TCA							
						MD	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	TN					
141.00	142.45	1.45	GRD	MG	heavily fractured and clay altered granodiorite with dense stockwork of hairline clay farctures. One small section with banded grey fine-grained minerals (see secondary). Trending 70 TCA							
						MD	GY		CLY	3I		
						LT	GY					
142.45	149.57	7.12	QFP	MG	tan brown to patchy greyish green, weakly clay altered feldspar porphyryitic dyke, with weak clay alteration along fractures and small carbonate veinlets running 30 TCA with 1cm wide bleached alteration haloes - no sulfide							
						MD	GY					
						MD	GN		CLY	2I		
						LT	BN					
						LT	RD					
149.57	149.85	0.28	GRD	MG	heavily fractured, brecciated mixture between GRD and QFP denoting a faulted contact between dyke (above) and GRD (below).							
						LT	GY		CLY	3I	Py	0.5
149.85	150.90	1.05	GRD	MG	medium grained, strongly argillic altered and moderately propylitic altered granodiorite with disseminated patchy pyrite along the intensely argillic altered intervals, and with trace dissemianted pyrite throughout the propylitic altered intervals							
						MD	GY		ARG	4I		
						LT	GN		PRO	4I	Py	1
						LT	GY					
150.90	152.20	1.30	GRD	MG	meidum grained, weakly argillic and propylitic altered granodiorite with sparse rubbly sections, likely weak faulting.							
						MD	GY		ARG	2I		
						LT	WH		PRO	1I		
						LT	GN					
152.20	153.47	1.27	GRD	MG	heavily fracuted, rubbly, gravelly interval of intensely clay altered granodiorite. Not fualt gouge, but heavily rubby							
						MD	GY		CLY	5I		
153.47	156.00	2.53	GRD	MG	unaltered granodiorite, weak carbonate on rare fractures							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
156.00	157.00	1.00	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
157.00	158.50	1.50	GRD	MG	weak to modearte argillic altered granodiorite with a weak propylitic overprint.							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH		PRO	2I		
158.50	159.00	0.50	GRD	MG	moderate to strong propylitic altered granoiroite with four two mm wide stringers with pyrite, and weak sphalerite							
						MD	GY		PRO	4I	Py	0.5
						MD	GN				Sp	0.5
159.00	160.50	1.50	GRD	MG	moderately propylitic granodiorite with seven small mm-scale stringer vienlets that have trace pyrite							
						MD	GN		PRO	4I	Py	1
						MD	GY		SIL	2I		
160.50	161.33	0.83	GRD	MG	moderately argillic altered granodiorite							
						LT	WH		ARG	3I		
161.33	162.50	1.17	GRD	MG	moderately propylitic altered granodioirte; weakly silicifed. No visible sulfide							
						MD	GN					
						MD	GY					
162.50	165.50	3.00	GRD	MG	moderately argillic altered granodiorite with fractured rubbly sections througout up to 10 cm long							
						MD	GY					
						LT	WH		ARG	2I		
165.50	168.00	2.50	GRD	MG	medium grained, strongly propylitic altered granodiorite with weak argillic alteration							
						MD	GY		PRO	4I		
						MD	GN		ARG	2I		
						DK	GY					
168.00	169.30	1.30	GRD	MG	strongly silicified, with rare brecciated intervals up to 3 cm wide, moderately propylitic altered granodiorite with 8 small 0.5 cm wide pyrite bearing quartz veinlets							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						MD	GN					
169.30	171.06	1.76	GRD	MG	moderately argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
171.06	171.87	0.81	GRD	MG	strongly fractured, strongly argillic and propylitic altered granodiorite with two 1 cm wide pyrite bearing quartz veins 30 TCA, and dissem py thorughout groundmass							
						MD	GN		CLY	2I	Py	1
						MD	GY		ARG	3I	Py	1
									PRO	3I		
171.87	172.30	0.43	VEN	MG	milky white quartz vein with patchy blebs of pyrite and weak patch bands of pyrite; lower 10 cm of vein contains semirhythmically banded pyrite, quartz, and carbonate.							
						MD	GY		SIL	5I	Py	2
						LT	WH					
172.30	174.15	1.85	GRD	MG	silicified and moderateely propylitic altered granodiorite with disseminated pyrite in groundmass							
						MD	GY		PRO	4I	Py	1
						MD	GN		SIL	3I		
174.15	174.70	0.55	GRD	MG	faulted, clay gougey granodiorite with disseminated patchy pyrite in gouge							
						LT	GY		CLY	5I	Py	0.25
						LT	GN					
174.70	175.90	1.20	GRD	MG	moderately argillic altered granodiorite with weak propylitic overprint. NO visible sulfide							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
175.90	177.00	1.10	GRD	MG	faulted, rubbly, gouged granodiorite; likely faulted							
						MD	GY		CLY	4I		
177.00	178.55	1.55	GRD	MG	medium grained, unaltered granodiorite with weak carbonate alteration on fractures							
						MD	GY					
178.55	179.83	1.28	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.05	1.05	OVB	OVB	--	overburden
1.05	3.00	1.95	GRD	GRD	MG	60 % overburden and 40% unaltered granodiorite
3.00	5.20	2.20	GRD	GRD	MG	unaltered graanodiorite
5.20	12.70	7.50	GRD	GRDA	MG	medium grained, weak to moderate propylitic altered granodiorite with weak argillic alteration. Patchily oxidzed, with rare quartz carbonate veinlets containing pyrite
12.70	12.89	0.19	VEN	VEIN	MG	clay gouged at upper contact, brecciated quartz feldspar porphyry with mineralized quartz carbonate infilling in the centre of the brecciated dyke. Subangular clasts of chloritized feldspar porphyry with a dark fine-grained groundmass on outer margins, with a light quartz carbonate groundmass in the centre with mineralized clasts and disseminated blebby banded pyrite
12.89	14.84	1.95	GRD	GRDA	MG	medium grained weakly propylitic altered granodiorite
14.84	18.29	3.45	QFP	DYK	MG	porphyritic quartz feldspar dyke with chloritized and clay altered feldspar, with a heavily fractured section filled with hairline clay seams and weak carbonate veining barren of sulfide.
18.29	19.61	1.32	QFP	DYK	MG	heavily fracture qfp dyke
19.61	19.95	0.34	GRD	GRDF	MG	clay gouged, limonitic intensely clay altered granodiorite
19.95	20.10	0.15	GRD	GRDM	MG	silicified and moderately propylitic altered granodiorite with dissesmianted pyrite and one pyrite beraing quartz veinlet
20.10	23.50	3.40	GRD	GRDA	MG	medium grained, patchily oxidized, weak to moderate propylitic altered granodiorite with sparse pyrite bearing quartz veinlets throughout
23.50	24.10	0.60	QFP	DYK	MG	chloritized grains and groundmass in quartz feldspar porphyry dyke, sharp upper and lower contact with altered granodiorite
24.10	26.00	1.90	GRD	GRDA	MG	medium grained, patchily oxidized, weakly propylitic altered granodiorite
26.00	27.14	1.14	GRD	GRDM	MG	moderately propylitic altered granodiorite with rare pyrite baring quartz veinlets
27.14	29.40	2.26	GRD	GRD	MG	unaltered granodiorite
29.40	31.75	2.35	GRD	GRDA	MG	medium grained, medium green weak to moderate propylitic altered granodiorite
31.75	37.52	5.77	QFP	DYK	MG	medium grained, bleached light grey with clay altered feldspars quartz feldspar porphyry dyke, with a lower interval that is brown and oxidized.
37.52	39.05	1.53	QFP	DYK	MG	brown, oxidized portion of QFP dyke

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
39.05	40.16	1.11	GRD	GRDA	MG	medium grained, weakly oxidized granodiorite with weak argillic and propylitic alteration
40.16	40.35	0.19	GRD	GRDF	MG	fault gouged granodiorite with an intensely clay altered matric with sparse GD clasts within
40.35	42.67	2.32	GRD	GRDA	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinlets
42.67	50.10	7.43	QFP	DYK	MG	medium grained, weakly chloritized and clay altered quartz feldspar porphyry dyke, with patch oxidation and rare quartz carbonate veinlets containing pyrite +- sphalerite.
50.10	51.58	1.48	GRD	GRDA	MG	medium grained, weakly propylitic altered granodiorite
51.58	55.80	4.22	GRD	GRDA	MG	medium grained, weak to moderately propylitic altered granodiorite with trace pyrite bearing quartz veinlets throughout interval.
55.80	56.12	0.32	GRD	GRDF	MG	clay gouged, faulted, intensely clay altered granodiorite
56.12	60.50	4.38	QFP	DYK	MG	medium grained, tan brown to light brownish green, weakly chloritized and clay altered feldspar porphytyitic dyke, with one section of grain size reduction and propylitic alteration, with quartz carbonate veinlets with fine-grained black minerals along the quartz veinlet margins.
60.50	61.10	0.60	QFP	DYK	FG	fine-grained quartz carbonate veinlet rich section of dyke
61.10	61.60	0.50	QFP	DYK	MG	medium grained, tan brown to light brownish green, weakly chloritized and clay altered feldspar porphytyitic dyke, with one section of grain size reduction and propylitic alteration, with quartz carbonate veinlets with fine-grained black minerals along the quartz veinlet margins.
61.60	64.40	2.80	QFP	DYK	FG	fine-grained quartz carbonate rich section of dyke, with grain size reduction and fine-grained black mineral on margin of veinlets
64.40	65.33	0.93	QFP	DYK	MG	faulted, clay gouged portion of quartz feldspar dyke
65.33	65.45	0.12	GRD	GRDA	MG	medium grained lens of granodiorite surrounded by dyke
65.45	69.92	4.47	QFP	DYK	MG	medium grained, weakly chloritized and clay altered feldspar porphyryitic dyke with weak oxidation on fracture surfaces.
69.92	70.50	0.58	GRD	GRDM	MG	moderate to strongly propylitic altered granodiorite with weak dissemianted pyrite throughout
70.50	71.70	1.20	GRD	GRDA	MG	medium grained medium to light greenish grey, weakly argillic altered granodiorite with moderate propylitic overprint
71.70	72.00	0.30	GRD	GRDM	MG	medium grained, strong propylitic altered granodiorite with 3 low angle quartz carbonate veinlets with finegrained pyrit e and sphalerite
72.00	73.50	1.50	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite
73.50	77.07	3.57	GRD	GRDA	MG	medium grained, weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. Light greenish grey to medium greenish grey, patchy white

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
77.07	77.23	0.16	GRD	GRDF	MG	clay gouged, faulted granodiorite
77.23	78.40	1.17	GRD	GRDA	MG	moderate propylitic altered granodiorite
78.40	78.50	0.10	GRD	GRDM	MG	siliceous, strongly propylitic altered granodiorite with disseminated pyrite
78.50	79.45	0.95	GRD	GRDA	MG	medium grained, wealy propylitic altered granodiorite
79.45	80.30	0.85	GRD	GRDM	MG	medium grained, strongly propylitic altered granodiorite with quartz veinlets with pyrite
80.30	82.00	1.70	GRD	GRDA	MG	medium grained, moderately argillic altered granodiorite with a weak propylitic overprint
82.00	85.10	3.10	QFP	DYK	MG	tan brown to grey feldspar porphyryitic with a fine-grained groundmass dyke
85.10	85.70	0.60	GRD	GRDM	MG	faulted, weakly brecciated granodiorite with a dark grey to black groundmass and minor dyke intermingled within interval. Weak disseminated pyrite thorughout interval; likely fault related
85.70	101.10	15.40	QFP	DYK	MG	medium greenish grey to brownish grey, clay and chlorite altered feldspar porphyrytic dyke with a fine-grained groundmass. Variably altered between weak to moderate chloritized and clay altered feldspars within a fine-grained weakly chloritized groundmass.
101.10	101.86	0.76	GRD	GRDM	MG	medium grained, dark grey, silicified and propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets. Sharp upper and lower contct with dyke
101.86	109.80	7.94	QFP	DYK	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.
109.80	114.60	4.80	QFP	DYK	MG	light green feldspar porphyry dyke, likely similar phase to the one described above (gradational upper ocntact with brown dyke; similar porphyritic texture, only difference between them is colour); with chloritized and clay altered groundmass and feldspar grains
114.60	115.60	1.00	QFP	DYK	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.
115.60	116.30	0.70	GRD	GRDA	MG	intensely clay altered; likely faulted ontact between granodiorite and dyke (above).
116.30	117.65	1.35	GRD	GRDA	MG	medium grained, moderately propylitic altered granodiorite with weak (2) pyrite bearing quartz veinlets
117.65	120.40	2.75	GRD	GRDM	MG	medium grained, weakly brecciated granodiorite with dissemianted pyrite along groundmass and on edges of some brecciated clasts of granodiorite. Stockwork-like hairline clay fractures contain trace pyrite along them; weak pyrite +- sphalerite bearing quartz veinlets dispersed throughout interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
120.40	122.00	1.60	GRD	GRDM	MG	medium grained alternating between moderately argillic altered and moderately propylitic altered granodiorite. Propylitic altered sections are medium greyish green, and argillic sections are whitish green. Strongly propylitic altered zones host disseminated pyrite in groundmass and within pyrite veinlets
122.00	123.70	1.70	GRD	GRDA	MG	medium grained, light greenish white to greenish grey, moderately argillic altered granodiorite with a weak propylitic and siliceous alteration overprint. Silceous zones are darker grey and have weak disseminted pyrite in granodiorite groundmass
123.70	124.10	0.40	GRD	GRDM	MG	silicified strongly propylitic altered granodiorite with two sphalerite bearing 1 cm wide carbonate veinlets
124.10	125.00	0.90	GRD	GRDM	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena
125.00	126.12	1.12	GRD	GRDA	MG	moderately silicified and propylitic altered granodiorite with one patch of tourmaline and one stringer veinlet with pyrite.
126.12	126.75	0.63	GRD	GRDM	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena. Small 2 cm wide zone of brecciation within interval; barren of sulphide
126.75	127.36	0.61	GRD	GRDA	MG	moderately propylitic altered granodiorite
127.36	127.50	0.14	GRD	GRDF	MG	faulted, rubby fractured granodiorite likely related to faulitng
127.50	128.60	1.10	GRD	GRDM	MG	fractured, moderately silicified and propylitic altered granodiorite with disseminated pyrite thoughout groundmass
128.60	130.30	1.70	GRD	GRDA	MG	heavily fractured, competent, yet strongly clay altered granodiorite with stockwork hairline clay-fractures throughout. Weak brecciated texture throughout interval. No sulfides
130.30	131.30	1.00	GRD	GRDA	MG	silicified and propylitic altered granodiorite with disseminated pyrite throughout interval
131.30	131.90	0.60	GRD	GRDF	MG	intensely clay altered, faulted clay gouged granodiorite.
131.90	133.18	1.28	QFP	DYK	MG	tan brown with weakly clay altered freldspar porphyryitic dyke, heavily fractured near upper cotact with fault, and less dense fractures as you move downhole. Last 10 cm of lower conatc is fractured, as you hit another faulted section and colour change in the dyke.
133.18	133.62	0.44	QFP	DYK	MG	faulted dyke, heavily clay altered and fractured. Light greenish grey
133.62	134.05	0.43	QFP	FLT	MG	heavily faulted dyke/granodiorite mix with heavy clay alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
134.05	136.50	2.45	GRD	GRDM	MG	wekaly argillic altered granodiorite with a strong siliceous and porpylitic overprint. Medium to dra grye, heavily fractured, with dissemianted patch tourmaline and dissminated pyrite throughout. Pyrite is develeoped along fracture surfaces as well as clay. Patchy banded pyrite along fractures throughout interval
136.50	136.64	0.14	VEN	VEIN	MG	quartz rich milky white quartz vein with 3 1 cm wide bands of pyrite trending 70 TCA
136.64	137.20	0.56	GRD	GRDM	MG	moderate siliceous and propylitic altered granodiorite with traec dissem pyrite
137.20	138.64	1.44	GRD	GRDA	MG	weakly silicifed and pyropyltic altered granodiorite with no visible sulfide
138.64	141.00	2.36	QFP	DYK	MG	tan brown feldspar porphyritic dyke with weak two carbonate veinlets developed running parallel TCA
141.00	142.45	1.45	GRD	GRDA	MG	heavily fractured and clay altered granodiorite with dense stockwork of hairline clay farctures. One small section with banded grey fine-grained minerals (see secondary). Trending 70 TCA
142.45	149.57	7.12	QFP	DYK	MG	tan brown to patchy greyish green, weakly clay altered feldspar porphyryitic dyke, with weak clay alteration along fractures and small carbonate veinlets running 30 TCA with 1cm wide bleached alteration haloes - no sulfide
149.57	149.85	0.28	GRD	GRDF	MG	heavily fractured, brecciated mixture between GRD and QFP denoting a faulted contact between dyke (above) and GRD (below).
149.85	150.90	1.05	GRD	GRDM	MG	medium grained, strongly argillic altered and moderately propylitic altered granodiorite with disseminated patchy pyrite along the intensely argillic altered intervals, and with trace dissemianted pyrite throughout the propylitic altered intervals
150.90	152.20	1.30	GRD	GRDA	MG	meidum grained, weakly argillic and propylitic altered granodiorite with sparse rubbly sections, likely weak faulting.
152.20	153.47	1.27	GRD	GRDF	MG	heavily fracuted, rubbly, gravelly interval of intensely clay altered granodiorite. Not fualt gouge, but heavily rubby
153.47	156.00	2.53	GRD	GRD	MG	unaltered granodiorite, weak carbonate on rare fractures
156.00	157.00	1.00	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite
157.00	158.50	1.50	GRD	GRDA	MG	weak to modearte argillic altered granodiorite with a weak propylitic overprint.
158.50	159.00	0.50	GRD	GRDM	MG	moderate to strong propylitic altered granoiroite with four two mm wide stringers with pyrite, and weak sphalerite
159.00	160.50	1.50	GRD	GRDM	MG	moderately propylitic granodiorite with seven small mm-scale stringer vienlets that have trace pyrite
160.50	161.33	0.83	GRD	GRDA	MG	moderately argillic altered granodiorite
161.33	162.50	1.17	GRD	GRDA	MG	moderately propylitic altered granodioirte; weakly silicifed. No visible sulfide

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
162.50	165.50	3.00	GRD	GRDA	MG	moderately argillic altered granodiorite with fractured rubbly sections througout up to 10 cm long
165.50	168.00	2.50	GRD	GRDA	MG	medium grained, strongly propylitic altered granodiorite with weak argillic alteration
168.00	169.30	1.30	GRD	GRDM	MG	strongly silicified, with rare brecciated intervals up to 3 cm wide, moderately propylitic altered granodiorite with 8 small 0.5 cm wide pyrite bearing quartz veinlets
169.30	171.06	1.76	GRD	GRDA	MG	moderately argillic altered granodiorite
171.06	171.87	0.81	GRD	GRDM	MG	strongly fractured, strongly argillic and propylitic altered granodiorite with two 1 cm wide pyrite bearing quartz veins 30 TCA, and dissem py thorughout groundmass
171.87	172.30	0.43	VEN	VEIN	MG	milky white quartz vein with patchy blebs of pyrite and weak patch bands of pyrite; lower 10 cm of vein contains semirhythmically banded pyrite, quartz, and carbonate.
172.30	174.15	1.85	GRD	GRDM	MG	silicified and moderateely propylitic altered granodiorite with disseminated pyrite in groundmass
174.15	174.70	0.55	GRD	GRDF	MG	faulted, clay gougey granodiorite with disseminated patchy pyrite in gouge
174.70	175.90	1.20	GRD	GRDA	MG	moderately argillic altered granodiorite with weak propylitic overprint. NO visible sulfide
175.90	177.00	1.10	GRD	GRDF	MG	faulted, rubbly, gouged granodiorite; likely faulted
177.00	178.55	1.55	GRD	GRDA	MG	medium grained, unaltered granodiorite with weak carbonate alteration on fractures
178.55	179.83	1.28	GRD	GRDA	MG	weakly argillic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.05	1.05	OVB	--	overburden							
1.05	3.00	1.95	GRD	MG	60 % overburden and 40% unaltered granodiorite							
						MD	GY					
						MD	BN					
3.00	5.20	2.20	GRD	MG	unaltered graanodiorite							
						MD	GY					
5.20	12.70	7.50	GRD	MG	medium grained, weak to moderate propylitic altered granodiorite with weak argillic alteration. Patchily oxidzed, with rare quartz carbonate veinlets containing pyrite							
						MD	GN		OXI	2I		
						LT	BN		PRO	3I		
						MD	GN		SIL	1I	Py	1
12.70	12.89	0.19	VEN	MG	clay gouged at upper contact, brecciated quartz feldspar porphyry with mineralized quartz carbonate infilling in the centre of the brecciated dyke. Subangular clasts of chloritized feldspar porphyry with a dark fine-grained groundmass on outer margins, with a light quartz carbonate groundmass in the centre with mineralized clasts and disseminated blebby banded pyrite							
						MD	GY		PRO	2I	Py	1
						DK	GY		SIL	3I	Sp	1
						LT	WH		CHL	2I	Gn	0.5
						LT	GN				Py	0.5
12.89	14.84	1.95	GRD	MG	medium grained weakly propylitic altered granodiorite							
						MD	GY					
						MD	GN		PRO	2I		
14.84	19.61	4.77	QFP	MG	porphyritic quartz feldspar dyke with chloritized and clay altered feldspar, with a heavily fractured section filled with hairline clay seams and weak carbonate veining barren of sulfide.							
						MD	GY		CLY	2I		
						MD	GN		CHL	3I		
19.61	19.95	0.34	GRD	MG	clay gouged, limonitic intensely clay altered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
						LT	BN		CLY	5I		
19.95	20.10	0.15	GRD	MG	silicified and moderately propylitic altered granodiorite with dissesmianted pyrite and one pyrite beraing quartz veinlet							
						DK	GY		SIL	2I		
						MD	GY		PRO	4I	Py	1
20.10	23.50	3.40	GRD	MG	medium grained, patchily oxidized, weak to moderate propylitic altered granodiorite with sparse pyrite bearing quartz veinlets throughout							
						LT	BN		OXI	2I		
						MD	GY		PRO	1I	Py	0.5
23.50	24.10	0.60	QFP	MG	chloritized grains and groundmass in quartz feldspar porphyry dyke, sharp upper and lower contact with altered granodiorite							
						MD	GN		CHL	3I		
24.10	26.00	1.90	GRD	MG	medium grained, patchily oxidized, weakly propylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN		OXI	2I		
						MD	BN					
26.00	27.14	1.14	GRD	MG	moderately propylitic altered granodiorite with rare pyrite baring quartz veinlets							
						MD	GN		PRO	4I	Py	0.5
						MD	GY					
27.14	29.40	2.26	GRD	MG	unaltered granodiorite							
						MD	GY					
29.40	31.75	2.35	GRD	MG	medium grained, medium green weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
31.75	39.05	7.30	QFP	MG	medium grained, bleached light grey with clay altered feldspars quartz feldspar porphyry dyke, with a lower interval that is brown and oxidized.							
						MD	BN					
						LT	GY		CLY	3I		
39.05	40.16	1.11	GRD	MG	medium grained, weakly oxidized granodiorite with weak argillic and propylitic alteration							
									CLY	1I		
						MD	BN		OXI	1I		
						MD	GY		PRO	1I		
									ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
40.16	40.35	0.19	GRD	MG	fault gouged granodiorite with an intensely clay altered matric with sparse GD clasts within							
						MD	BN		CLY	4I		
40.35	42.67	2.32	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak pyrite bearing quartz veinlets							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	3I		
42.67	50.10	7.43	QFP	MG	medium grained, weakly chloritized and clay altered quartz feldspar porphyry dyke, with patch oxidation and rare quartz carbonate veinlets containing pyrite +- sphalerite.							
						MD	GN		CLY	2I	Sp	0.1
									CHL	2I		
50.10	51.58	1.48	GRD	MG	medium grained, weakly propylitic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
51.58	55.80	4.22	GRD	MG	medium grained, weak to moderately propylitic altered granodiorite with trace pyrite bearing quartz veinlets throughout interval.							
						MD	GN		PRO	3I	Py	0.1
55.80	56.12	0.32	GRD	MG	clay gouged, faulted, intensely clay altered granodiorite							
						LT	GY		CLY	5I		
56.12	64.40	8.28	QFP	MG	medium grained, tan brown to light brownish green, weakly chloritized and clay altered feldspar porphytyitic dyke, with one section of grain size reduction and propylitic alteration, with quartz carbonate veinlets with fine-grained black minerals along the quartz veinlet margins.							
						MD	GN					
						LT	BN		PRO	2I		
						LT	BF		CHL	1I		
64.40	65.33	0.93	QFP	MG	faulted, clay gouged portion of quartz feldspar dyke							
						LT	BN					
						LT	GY		CLY	5I		
65.33	65.45	0.12	GRD	MG	medium grained lens of granodiorite surrounded by dyke							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
65.45	69.92	4.47	QFP	MG	medium grained, weakly chloritized and clay altered feldspar porphyryitic dyke with weak oxidation on fracture surfaces.							
						MD	GN		OXI	1I		
									ARG	1I		
						LT	BN		CHL	1I		
69.92	70.50	0.58	GRD	MG	moderate to strongly propylitic altered granodiorite with weak dissemianted pyrite throughout							
						MD	GN		PRO	3I	Py	0.5
70.50	71.70	1.20	GRD	MG	medium grained medium to light greenish grey, weakly argillic altered granodiorite with moderate propylitic overprint							
						MD	GY		ARG	1I		
						MD	GN		PRO	3I		
71.70	72.00	0.30	GRD	MG	medium grained, strong propylitic altered granodiorite with 3 low angle quartz carbonate veinlets with finegrained pyrit e and sphalerite							
											Py	1
						MD	GN		PRO	4I	Sp	0.5
72.00	73.50	1.50	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
73.50	77.07	3.57	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. Light greenish grey to medium greenish grey, patchy white							
						MD	GN					
						LT	WH		ARG	2I		
						MD	GY		PRO	2I		
77.07	77.23	0.16	GRD	MG	clay gouged, faulted granodiorite							
						LT	BN		CLY	5I		
						LT	GY					
77.23	78.40	1.17	GRD	MG	moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
78.40	78.50	0.10	GRD	MG	siliceous, strongly propylitic altered granodiorite with disseminated pyrite							
						MD	GN		SIL	2I		
						MD	GY		PRO	4I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
78.50	79.45	0.95	GRD	MG	medium grained, wealy propylitic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
79.45	80.30	0.85	GRD	MG	medium grained, strongly propylitic altered granodiorite with quartz veinlets with pyrite							
						MD	GN		SIL	4I	Py	3
									PRO	4I		
80.30	82.00	1.70	GRD	MG	medium grained, moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
82.00	85.10	3.10	QFP	MG	tan brown to grey feldspar porphyryitic with a fine-grained groundmass dyke							
						MD	GY		CLY	2I		
						LT	TN					
						LT	BN					
85.10	85.70	0.60	GRD	MG	faulted, weakly brecciated granodiorite with a dark grey to black groundmass and minor dyke intermingled within interval. Weak disseminated pyrite thorughout interval; likely fault related							
						MD	GY				Py	1
						DK	GY					
85.70	101.10	15.40	QFP	MG	medium greenish grey to brownish grey, clay and chlorite altered feldspar porphyrytic dyke with a fine-grained groundmass. Variably altered between weak to moderate chloritized and clay altered feldspars within a fine-grained weakly chloritized groundmass.							
						MD	GY					
						MD	BN		CLY	2I		
						MD	GN		CHL	2I		
101.10	101.86	0.76	GRD	MG	medium grained, dark grey, silicified and propylitic altered granodiorite with weak pyrite bearing quartz stringer veinlets. Sharp upper and lower contct with dyke							
									PRO	2I		
						DK	GY		SIL	3I	Py	2
101.86	109.80	7.94	QFP	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.							
						MD	BN		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.80	114.60	4.80	QFP	MG	light green feldspar porphyry dyke, likely similar phase to the one described above (gradational upper ocntact with brown dyke; similar porphyritic texture, only difference between them is colour); with chloritized and clay altered groundmass and feldspar grains							
						MD	GN		CLY	2I		
									CHL	3I		
114.60	115.60	1.00	QFP	MG	porphyritic tan brown to dark brown feldspar porphyritic dyke with weak clay alteration of feldspar grains.							
						MD	BN		CLY	2I		
115.60	116.30	0.70	GRD	MG	intensely clay altered; likely faulted ontact between granodiorite and dyke (above).							
						MD	GY		CLY	4I		
						LT	GY					
116.30	117.65	1.35	GRD	MG	medium grained, moderately propylitic altered granodiorite with weak (2) pyrite bearing quartz veinlets							
						MD	GN					
						MD	GY		PRO	3I		
117.65	120.40	2.75	GRD	MG	medium grained, weakly brecciated granodiorite with dissemianted pyrite along groundmass and on edges of some brecciated clasts of granodiorite. Stockwork-like hairline clay fractures contain trace pyrite along them; weak pyrite +- sphalerite bearing quartz veinlets dispersed throughout interval							
						LT	GY		CLY	2I	Py	1
						DK	GY					
						MD	GY		ARG	2I	Sp	0.5
120.40	122.00	1.60	GRD	MG	medium grained alternating between moderately argillic altered and moderately propylitic altered granodiorite. Propylitic altered sections are medium greyish green, and argillic sections are whitish green. Strongly propylitic altered zones host disseminated pyrite in groundmass and within pyrite veinlets							
						LT	WH					
						MD	GN		ARG	2I		
						MD	GY		PRO	3I	Py	0.4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.00	123.70	1.70	GRD	MG	medium grained, light greenish white to greenish grey, moderately argillic altered granodiorite with a weak propylitic and siliceous alteration overprint. Silceous zones are darker grey and have weak disseminted pyrite in granodiorite groundmass							
						MD	GN		ARG	2I		
						MD	GY					
						LT	WH		PRO	3I	Py	0.5
123.70	124.10	0.40	GRD	MG	silicified strongly propylitic altered granodiorite with two sphalerite bearing 1 cm wide carbonate veinlets							
											Sp	1
						MD	GY		PRO	4I	Py	0.5
124.10	125.00	0.90	GRD	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena							
											To	0.5
											Gn	0.5
						MD	GY		PRO	4I	Py	1
						MD	GN		SIL	1I	Py	0.5
125.00	126.12	1.12	GRD	MG	moderately silicified and propylitic altered granodiorite with one patch of tourmaline and one stringer veinlet with pyrite.							
						MD	GY				To	0.5
						MD	GN				Py	0.5
126.12	126.75	0.63	GRD	MG	silicified strongly propylitic altered granodiorite with patchy dissemianted tourmaline and pyrite alteration; one small 1 cm wide veinlet with pyrite and fine-grained galena. Small 2 cm wide zone of brecciation within interval; barren of sulphide							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	4I	Gn	0.5
126.75	127.36	0.61	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
127.36	127.50	0.14	GRD	MG	faulted, rubby fractured granodiorite likely related to faulitng							
						MD	GY		CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
127.50	128.60	1.10	GRD	MG	fractured, moderately silicified and propylitic altered granodiorite with disseminated pyrite thoughout groundmass							
						LT	GN		SIL	3I		
						DK	GY		CLY	1I	Py	0.5
						MD	GY		PRO	2I		
128.60	130.30	1.70	GRD	MG	heavily fractured, competent, yet strongly clay altered granodiorite with stockwork hairline clay-fractures throughout. Weak brecciated texture throughout interval. No sulfides							
						MD	GN		CLY	3I		
						MD	GY					
130.30	131.30	1.00	GRD	MG	silicified and propylitic altered granodiorite with disseminated pyrite throughout interval							
						MD	GN		SIL	3I	Py	1
						MD	GY		PRO	3I		
131.30	131.90	0.60	GRD	MG	intensely clay altered, faulted clay gouged granodiorite.							
						MD	GY		CLY	5I		
						DK	GY					
131.90	133.18	1.28	QFP	MG	tan brown with weakly clay altered freldspar porphyryitic dyke, heavily fractured near upper cotact with fault, and less dense fractures as you move downhole. Last 10 cm of lower conatc is fractured, as you hit another faulted section and colour change in the dyke.							
						MD	BN					
						LT	TN		CLY	2I		
133.18	133.62	0.44	QFP	MG	faulted dyke, heavily clay altered and fractured. Light greenish grey							
						MD	GY		CLY	5I		
						LT	GN					
133.62	134.05	0.43	QFP	MG	heavily faulted dyke/granodiorite mix with heavy clay alteration							
						LT	GY		CLY	5I		
						LT	GN		PRO	3I		
134.05	136.50	2.45	GRD	MG	wekaly argillic altered granodiorite with a strong siliceous and porpylitic overprint. Medium to dra grye, heavily fractured, with dissemianted patch tourmaline and dissminated pyrite throughout. Pyrite is develeoped along fracture surfaces as well as clay. Patchy banded pyrite along fractures throughout interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						MD	GY		SIL	3I	Py	1
						DK	GY		PRO	4I	Py	1
136.50	136.64	0.14	VEN	MG	quartz rich milky white quartz vein with 3 1 cm wide bands of pyrite trending 70 TCA							
						LT	WH		SIL	5I	Py	5
136.64	137.20	0.56	GRD	MG	moderate siliceous and propylitic altered granodiorite with traec dissem pyrite							
						MD	GY					
						LT	GN		PRO	3I		
						DK	GY		SIL	2I	Py	0.5
137.20	138.64	1.44	GRD	MG	weakly silicifed and pyropyltic altered granodiorite with no visible sulfide							
						MD	GY		PRO	2I		
						MD	GN		SIL	2I		
138.64	141.00	2.36	QFP	MG	tan brown feldspar porphyritic dyke with weak two carbonate veinlets developed running parallel TCA							
						LT	TN					
						MD	BN					
141.00	142.45	1.45	GRD	MG	heavily fractured and clay altered granodiorite with dense stockwork of hairline clay farctures. One small section with banded grey fine-grained minerals (see secondary). Trending 70 TCA							
						LT	GY		CLY	3I		
						MD	GY					
142.45	149.57	7.12	QFP	MG	tan brown to patchy greyish green, weakly clay altered feldspar porphyryitic dyke, with weak clay alteration along fractures and small carbonate veinlets running 30 TCA with 1cm wide bleached alteration haloes - no sulfide							
						LT	RD					
						MD	GN		CLY	2I		
						MD	GY					
						LT	BN					
149.57	149.85	0.28	GRD	MG	heavily fractured, brecciated mixture between GRD and QFP denoting a faulted contact between dyke (above) and GRD (below).							
						LT	GY		CLY	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
149.85	150.90	1.05	GRD	MG	medium grained, strongly argillic altered and moderately propylitic altered granodiorite with disseminated patchy pyrite along the intensely argillic altered intervals, and with trace dissemianted pyrite throughout the propylitic altered intervals							
						MD	GY					
						LT	GN		PRO	4I	Py	1
						LT	GY		ARG	4I		
150.90	152.20	1.30	GRD	MG	meidum grained, weakly argillic and propylitic altered granodiorite with sparse rubbly sections, likely weak faulting.							
						LT	GN		ARG	2I		
						LT	WH					
						MD	GY		PRO	1I		
152.20	153.47	1.27	GRD	MG	heavily fracuted, rubbly, gravelly interval of intensely clay altered granodiorite. Not fualt gouge, but heavily rubby							
						MD	GY		CLY	5I		
153.47	156.00	2.53	GRD	MG	unaltered granodiorite, weak carbonate on rare fractures							
						MD	GY					
156.00	157.00	1.00	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
157.00	158.50	1.50	GRD	MG	weak to modearte argillic altered granodiorite with a weak propylitic overprint.							
						MD	GN		PRO	2I		
						MD	GY					
						LT	WH		ARG	2I		
158.50	159.00	0.50	GRD	MG	moderate to strong propylitic altered granoiroite with four two mm wide stringers with pyrite, and weak sphalerite							
						MD	GY		PRO	4I	Sp	0.5
						MD	GN				Py	0.5
159.00	160.50	1.50	GRD	MG	moderately propylitic granodiorite with seven small mm-scale stringer vienlets that have trace pyrite							
						MD	GY		SIL	2I		
						MD	GN		PRO	4I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
160.50	161.33	0.83	GRD	MG	moderately argillic altered granodiorite							
						LT	WH		ARG	3I		
161.33	162.50	1.17	GRD	MG	moderately propylitic altered granodioirte; weakly silicifed. No visible sulfide							
						MD	GN					
						MD	GY					
162.50	165.50	3.00	GRD	MG	moderately argillic altered granodiorite with fractured rubbly sections througout up to 10 cm long; weak propylitic alteration							
						LT	WH		PRO	2I		
						MD	GY		ARG	2I		
165.50	168.00	2.50	GRD	MG	medium grained, strongly propylitic altered granodiorite with weak argillic alteration							
						MD	GY		ARG	2I		
						DK	GY					
						MD	GN		PRO	4I		
168.00	169.30	1.30	GRD	MG	strongly silicified, with rare brecciated intervals up to 3 cm wide, moderately propylitic altered granodiorite with 8 small 0.5 cm wide pyrite bearing quartz veinlets							
						MD	GN					
						MD	GY					
169.30	171.06	1.76	GRD	MG	moderately argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
171.06	171.87	0.81	GRD	MG	strongly fractured, strongly argillic and propylitic altered granodiorite with two 1 cm wide pyrite bearing quartz veins 30 TCA, and dissem py thorughout groundmass							
									PRO	3I		
						MD	GY		CLY	2I	Py	1
						MD	GN		ARG	3I	Py	1
171.87	172.30	0.43	VEN	MG	milky white quartz vein with patchy blebs of pyrite and weak patch bands of pyrite; lower 10 cm of vein contains semirhythmically banded pyrite, quartz, and carbonate.							
						LT	WH					
						MD	GY		SIL	5I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
172.30	174.15	1.85	GRD	MG	silicified and moderateely propylitic altered granodiorite with disseminated pyrite in groundmass							
						MD	GY		SIL	3I		
						MD	GN		PRO	4I	Py	1
174.15	174.70	0.55	GRD	MG	faulted, clay gougey granodiorite with disseminated patchy pyrite in gouge							
						LT	GN					
						LT	GY		CLY	5I	Py	0.25
174.70	175.90	1.20	GRD	MG	moderately argillic altered granodiorite with weak propylitic overprint. NO visible sulfide							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
175.90	177.00	1.10	GRD	MG	faulted, rubbly, gouged granodiorite; likely faulted							
						MD	GY		CLY	4I		
177.00	178.55	1.55	GRD	MG	medium grained, unaltered granodiorite with weak carbonate alteration on fractures							
						MD	GY					
178.55	179.83	1.28	GRD	MG	weakly argillic altered granodiorite							
						LT	WH					
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.05	1.05	0	0	0.00	0	--	--	--	
1.05	1.52	0.47	0.46	98	0.00	0	--	1H	6W	
1.52	3.05	1.53	0.8	52	0.00	0	--	2H	5W	
3.05	4.57	1.52	1.5	99	1.11	73	--	4H	2W	
4.57	7.62	3.05	3	98	2.48	81	--	3H	2W	
7.62	9.14	1.52	1.52	100	0.96	63	--	3H	2W	
9.14	10.67	1.53	1.52	99	1.28	84	--	3H	2W	
10.67	12.19	1.52	1.48	97	0.80	53	--	3H	2W	
12.19	15.24	3.05	2.89	95	2.35	77	--	3H	2W	
15.24	18.29	3.05	3	98	2.11	69	--	3H	1W	
18.29	21.34	3.05	3.05	100	2.57	84	--	2H	1W	
21.34	24.38	3.04	3.04	100	2.68	88	--	3H	1W	
24.38	27.43	3.05	2.92	96	2.00	66	--	3H	1W	
27.43	28.96	1.53	1.53	100	1.50	98	--	4H	1W	
28.96	32.00	3.04	3	99	2.34	77	--	4H	1W	
32.00	35.05	3.05	2.95	97	2.59	85	--	4H	1W	
35.05	36.58	1.53	1.53	100	1.24	81	--	3H	1W	
36.58	39.62	3.04	3.04	100	1.67	55	--	3H	1W	
39.62	42.67	3.05	2.96	97	2.01	66	--	3H	1W	
42.67	45.72	3.05	3.05	100	1.20	39	--	3H	1W	
45.72	48.77	3.05	3.05	100	2.44	80	--	3H	1W	
48.77	51.82	3.05	2.95	97	2.47	81	--	3H	1W	
51.82	54.86	3.04	3.02	99	2.79	92	--	3H	1W	
54.86	57.91	3.05	3.05	100	1.89	62	--	3H	1W	
57.91	59.44	1.53	1.52	99	0.54	35	--	3H	1W	
59.44	62.48	3.04	2.89	95	1.96	64	--	3H	1W	
62.48	64.92	2.44	2.37	97	1.30	53	--	2H	1W	
64.92	67.06	2.14	2.1	98	0.45	21	--	2H	1W	
67.06	70.10	3.04	2.76	91	0.95	31	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
70.10	73.15	3.05	3.05	100	2.80	92	--	3H	1W	
73.15	76.20	3.05	3.05	100	2.66	87	--	3H	1W	
76.20	79.25	3.05	2.9	95	2.31	76	--	3H	1W	
79.25	82.30	3.05	3	98	2.49	82	--	3H	1W	
82.30	85.34	3.04	3.04	100	2.62	86	--	3H	1W	
85.34	88.39	3.05	3.05	100	2.57	84	--	3H	1W	
88.39	91.44	3.05	3	98	2.47	81	--	3H	1W	
91.44	94.49	3.05	3.05	100	2.90	95	--	3H	1W	
94.49	97.54	3.05	2.95	97	2.32	76	--	3H	1W	
97.54	100.58	3.04	2.76	91	0.91	30	--	3H	1W	
100.58	103.63	3.05	3	98	1.67	55	--	3H	1W	
103.63	106.68	3.05	2.98	98	2.39	78	--	3H	1W	
106.68	108.20	1.52	1.49	98	1.14	75	--	4H	1W	
108.20	111.25	3.05	3.03	99	2.76	90	--	3H	1W	
111.25	114.30	3.05	2.97	97	2.42	79	--	3H	1W	
114.30	117.35	3.05	2.88	94	2.03	67	--	3H	1W	
117.35	120.40	3.05	3.05	100	2.06	68	--	3H	1W	
120.40	123.44	3.04	3.04	100	2.53	83	--	3H	1W	
123.44	126.49	3.05	2.98	98	2.43	80	--	3H	1W	
126.49	129.54	3.05	2.95	97	2.14	70	--	3H	1W	
129.54	132.59	3.05	2.98	98	2.55	84	--	3H	1W	
132.59	135.64	3.05	3.03	99	2.43	80	--	3H	1W	
135.64	138.68	3.04	3	99	1.37	45	--	3H	1W	
138.68	141.73	3.05	2.98	98	1.70	56	--	3H	1W	
141.73	144.78	3.05	2.96	97	1.66	54	--	2H	1W	
144.78	146.30	1.52	1.48	97	1.02	67	--	2H	1W	
146.30	149.35	3.05	3.01	99	1.61	53	--	3H	1W	
149.35	152.10	2.75	2.73	99	1.03	37	--	3H	1W	
152.10	153.92	1.82	1.6	88	0.16	9	--	2H	1W	
153.92	156.97	3.05	3.05	100	2.54	83	--	3H	1W	
156.97	160.02	3.05	3.05	100	2.32	76	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
160.02	163.07	3.05	2.97	97	2.56	84	--	3H	1W	
163.07	166.12	3.05	3.05	100	1.84	60	--	3H	1W	
166.12	169.16	3.04	3.04	100	2.51	83	--	3H	1W	
169.16	171.30	2.14	1.77	83	1.05	49	--	3H	1W	
171.30	173.74	2.44	2.38	98	1.79	73	--	3H	1W	
173.74	175.26	1.52	1.52	100	0.51	34	--	3H	1W	
175.26	178.31	3.05	2.76	90	1.30	43	--	2H	1W	
178.31	179.83	1.52	1.52	100	1.14	75	--	2H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	15.44	GRD	
3	17.58	GRD	
3	17.58	GRD	
4	26.5	GRD	
5	19.16	GRD	
6	0.238	GRD	
7	0.403	GRD	
8	0.168	GRD	
9	0.218	GRD	
10	0.352	GRD	
11	0.353	GRD	
12	0.681	GRD	
13	0.914	GRD	
14	3.145	GRD	
15	0.329	QFP	
16	0.232	QFP	
17	0.198	QFP	
18	0.422	QFP	
19	0.568	QFP	
20	0.265	GRD	
21	0.174	GRD	
22	0.296	GRD	
23	13.57	GRD	
24	0.709	QFP	
25	1.805	GRD	
26	0.42	GRD	
26	0.42	GRD	
27	0.301	GRD	
28	16.41	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	9.931	GRD	
30	0.781	GRD	
31	0.203	GRD	
32	0.111	QFP	
33	0.129	QFP	
34	0.133	QFP	
35	0.164	QFP	
36	0.523	QFP	
37	0.687	QFP	
38	0.154	QFP	
39	0.23	QFP	
40	0.23	GRD	
41	0.14	GRD	
42	0.826	GRD	
43	0.707	QFP	
44	0.457	QFP	
45	0.383	QFP	
46	1.109	QFP	
47	0.358	QFP	
48	0.36	QFP	
49	0.554	QFP	
50	0.707	QFP	
51	22.45	GRD	
52	0.636	GRD	
53	0.524	GRD	
54	10.47	GRD	
55	3.71	GRD	
56	0.637	GRD	
57	0.262	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	0.243	QFP	
59	0.316	QFP	
60	0.236	QFP	
61	0.252	QFP	
62	0.194	QFP	
63	0.187	QFP	
64	0.238	QFP	
65	0.437	QFP	
66	0.278	QFP	
67	0.334	QFP	
68	0.178	QFP	
69	0.299	QFP	
70	0.607	GRD	
71	0.695	GRD	
72	0.962	GRD	
72	0.962	GRD	
73	0.38	GRD	
74	0.299	GRD	
75	0.243	GRD	
76	0.175	GRD	
77	0.154	GRD	
78	0.284	GRD	
79	0.677	GRD	
80	0.723	GRD	
81	0.401	GRD	
82	0.387	QFP	
82	0.387	GRD	
83	0.273	QFP	
84	0.28	QFP	
85	0.289	QFP	
86	0.308	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
87	0.248	QFP	
88	0.234	QFP	
89	0.201	QFP	
90	0.3	QFP	
91	0.238	QFP	
92	0.24	QFP	
93	0.921	QFP	
94	0.426	QFP	
95	0.063	QFP	
96	0.592	QFP	
97	0.171	QFP	
98	0.325	QFP	
99	0.35	QFP	
100	0.232	QFP	
101	0.174	QFP	
102	0.357	QFP	
103	0.444	QFP	
104	0.274	QFP	
105	0.222	QFP	
106	0.458	QFP	
107	0.31	QFP	
108	0.637	QFP	
109	0.273	QFP	
110	0.302	QFP	
111	0.362	QFP	
112	0.248	QFP	
113	0.457	QFP	
114	0.21	QFP	
115	0.326	QFP	
116	0.255	GRD	
117	0.543	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
118	0.636	GRD	
119	0.205	GRD	
120	0.577	GRD	
121	0.63	GRD	
122	0.699	GRD	
122	0.699	GRD	
123	0.392	GRD	
124	0.294	GRD	
125	0.148	GRD	
125	0.148	GRD	
126	0.204	GRD	
127	0.252	GRD	
128	0.12	GRD	
129	0.158	GRD	
130	0.103	GRD	
131	0.263	GRD	
132	0.259	QFP	
133	0.307	QFP	
134	0.22	QFP	
135	0.225	GRD	
136	0.102	GRD	
137	0.105	GRD	
138	0.745	GRD	
139	0.751	QFP	
140	0.602	QFP	
141	0.214	GRD	
141	0.214	QFP	
142	0.325	GRD	
143	0.206	QFP	
144	0.25	QFP	
145	0.388	QFP	
146	0.272	QFP	
147	0.552	QFP	
148	0.249	QFP	
149	0.546	QFP	
150	0.265	GRD	
151	1.676	GRD	
152	0.349	GRD	
153	3.058	GRD	
154	0.745	GRD	
155	6.529	GRD	
156	0.552	GRD	
156	0.552	GRD	
157	0.576	GRD	
157	0.576	GRD	
158	0.287	GRD	
159	0.486	GRD	
159	0.486	GRD	
160	0.311	GRD	
161	2.587	GRD	
162	0.56	GRD	
163	2.453	GRD	
164	3.524	GRD	
165	13.74	GRD	
166	0.564	GRD	
167	0.461	GRD	
168	0.496	GRD	
168	0.496	GRD	
169	0.353	GRD	
170	0.343	GRD	
171	0.824	GRD	
172	0.119	VEN	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
173	0.32	GRD	
174	0.346	GRD	
175	0.377	GRD	
176	1.236	GRD	
177	1.266	GRD	
177	1.266	GRD	
178	15.84	GRD	
179	0.543	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-448

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K294981	☐	19-063	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295028	☐	19-065	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295021	☐	19-065	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294862	☐	19-058	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294988	☐	19-063	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294974	☐	19-063	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294947	☐	19-062	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294933	☐	19-062	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294928	☐	19-062	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294905	☐	19-061	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294899	☐	19-061	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294886	☐	19-061	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294874	☐	19-058	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K294866	☐	19-058	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295007	☐	19-065	low grade	ME-6	☐	☐	☐
1.45	2.95	1.50	GRD	1.30	87	K294858	☐	19-058	low grade		☐	☐	☐
2.95	4.45	1.50	GRD	1.43	95	K294859	☐	19-058	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
4.45	5.17	0.72	GRD	0.70	97	K294860	☐	19-058	low grade		☐	☐	☐
5.17	6.40	1.23	GRD	1.20	98	K294861	☐	19-058	low grade		☐	☐	☐
6.40	7.82	1.42	GRD	1.40	99	K294863	☐	19-058	low grade		☐	☐	☐
7.82	8.54	0.72	GRD	0.69	96	K294864	☐	19-058	low grade		☐	☐	☐
8.54	9.33	0.79	GRD	0.79	100	K294865	☐	19-058	low grade		☐	☐	☐
9.33	10.07	0.74	GRD	0.74	100	K294867	☐	19-058	low grade		☐	☐	☐
10.07	11.13	1.06	GRD	1.06	100	K294868	☐	19-058	low grade		☐	☐	☐
11.13	12.63	1.50	GRD	1.50	100	K294869	☐	19-058	low grade		☐	☐	☐
12.63	13.17	0.54	GRD	0.52	96	K294870	☐	19-058	low grade		☐	☐	☐
13.17	13.72	0.55	GRD	0.55	100	K294871	☐	19-058	low grade		☐	☐	☐
13.72	14.86	1.14	GRD	1.12	98	K294872	☐	19-058	low grade		☐	☐	☐
14.86	16.10	1.24	QFP	1.24	100	K294873	☐	19-058	low grade		☐	☐	☐
16.10	17.45	1.35	QFP	1.35	100	K294875	☐	19-058	low grade		☐	☐	☐
17.45	18.29	0.84	QFP	0.84	100	K294876	☐	19-058	low grade		☐	☐	☐
18.29	19.60	1.31	QFP	1.30	99	K294877	☐	19-058	low grade		☐	☐	☐
19.60	20.32	0.72	QFP	0.70	97	K294878	☐	19-058	low grade		☐	☐	☐
20.32	21.33	1.01	GRD	1.01	100	K294879	☐	19-058	low grade		☐	☐	☐
21.33	22.33	1.00	GRD	1.00	100	K294880	☐	19-058	low grade		☐	☐	☐
22.33	23.33	1.00	GRD	1.00	100	K294881	☐	19-061	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
23.33	23.71	0.38	GRD	0.38	100	K294882	☐	19-061	low grade		☐	☐	☐
23.71	24.83	1.12	QFP	1.02	91	K294883	☐	19-061	low grade		☐	☐	☐
24.83	26.07	1.24	GRD	1.24	100	K294884	☐	19-061	low grade		☐	☐	☐
26.07	27.07	1.00	GRD	1.00	100	K294885	☐	19-061	low grade		☐	☐	☐
27.07	28.57	1.50	GRD	1.50	100	K294887	☐	19-061	low grade		☐	☐	☐
28.57	30.07	1.50	GRD	1.50	100	K294888	☐	19-061	low grade		☐	☐	☐
30.07	31.50	1.43	GRD	1.35	94	K294889	☐	19-061	low grade		☐	☐	☐
31.50	33.00	1.50	GRD	1.50	100	K294890	☐	19-061	low grade		☐	☐	☐
33.00	34.50	1.50	QFP	1.37	91	K294891	☐	19-061	low grade		☐	☐	☐
34.50	36.00	1.50	QFP	1.50	100	K294892	☐	19-061	low grade		☐	☐	☐
36.00	37.50	1.50	QFP	1.50	100	K294893	☐	19-061	low grade		☐	☐	☐
36.00	37.50	1.50	QFP	1.50	100	K294894	☐	19-061	low grade		☐	☑	☐
37.50	39.00	1.50	QFP	1.45	97	K294895	☐	19-061	low grade		☐	☐	☐
39.00	40.50	1.50	QFP	1.50	100	K294896	☐	19-061	low grade		☐	☐	☐
40.50	42.00	1.50	GRD	1.45	97	K294897	☐	19-061	low grade		☐	☐	☐
42.00	42.68	0.68	GRD	0.68	100	K294898	☐	19-061	low grade		☐	☐	☐
42.68	44.00	1.32	QFP	1.30	98	K294900	☐	19-061	low grade		☐	☐	☐
44.00	45.50	1.50	QFP	1.48	99	K294901	☐	19-061	low grade		☐	☐	☐
45.50	46.20	0.70	QFP	0.70	100	K294902	☐	19-061	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
46.20	47.35	1.15	QFP	1.15	100	K294903	☐	19-061	low grade		☐	☐	☐
47.35	47.65	0.30	QFP	0.30	100	K294904	☐	19-061	low grade		☐	☐	☐
47.65	49.00	1.35	QFP	1.35	100	K294906	☐	19-061	low grade		☐	☐	☐
49.00	50.10	1.10	QFP	1.10	100	K294907	☐	19-061	low grade		☐	☐	☐
50.10	51.60	1.50	GRD, QFP	1.45	97	K294908	☐	19-061	low grade		☐	☐	☐
51.60	53.00	1.40	GRD	1.40	100	K294909	☐	19-061	low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.50	100	K294910	☐	19-061	low grade		☐	☐	☐
54.50	55.80	1.30	GRD	1.30	100	K294911	☐	19-061	low grade		☐	☐	☐
54.50	55.80	1.30	GRD	1.30	100	K294912	☐	19-061	low grade		☐	☐	☑
55.80	56.13	0.33	GRD, GRD	0.33	100	K294913	☐	19-061	low grade		☐	☐	☐
56.13	57.00	0.87	QFP	0.80	92	K294914	☐	19-061	low grade		☐	☐	☐
57.00	58.50	1.50	QFP	1.45	97	K294915	☐	19-061	low grade		☐	☐	☐
58.50	60.00	1.50	QFP	1.45	97	K294916	☐	19-061	low grade		☐	☐	☐
60.00	61.50	1.50	QFP	1.50	100	K294917	☐	19-061	low grade		☐	☐	☐
61.50	63.00	1.50	QFP	1.50	100	K294918	☐	19-061	low grade		☐	☐	☐
63.00	64.40	1.40	QFP	1.40	100	K294919	☐	19-061	low grade		☐	☐	☐
64.40	65.33	0.93	QFP, QFP	0.70	75	K294920	☐	19-061	low grade		☐	☐	☐
65.33	66.00	0.67	QFP, GRD	0.65	97	K294921	☐	19-062	low grade		☐	☐	☐
66.00	67.50	1.50	QFP	1.50	100	K294922	☐	19-062	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
67.50	69.00	1.50	QFP	1.50	100	K294923	☐	19-062	low grade		☐	☐	☐
69.00	69.92	0.92	QFP	0.92	100	K294924	☐	19-062	low grade		☐	☐	☐
69.92	70.60	0.68	QFP, GRD	0.66	97	K294925	☐	19-062	low grade		☐	☐	☐
70.60	71.54	0.94	GRD	0.90	96	K294926	☐	19-062	low grade		☐	☐	☐
71.54	71.84	0.30	GRD	0.30	100	K294927	☐	19-062	low grade		☐	☐	☐
71.84	73.00	1.16	GRD	1.08	93	K294929	☐	19-062	low grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.50	100	K294930	☐	19-062	low grade		☐	☐	☐
74.50	76.00	1.50	GRD	1.50	100	K294931	☐	19-062	low grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.50	100	K294932	☐	19-062	low grade		☐	☐	☐
77.50	79.00	1.50	GRD	1.50	100	K294934	☐	19-062	low grade		☐	☐	☐
79.00	79.85	0.85	GRD	0.85	100	K294935	☐	19-062	low grade		☐	☐	☐
79.85	80.35	0.50	GRD	0.50	100	K294936	☐	19-062	low grade		☐	☐	☐
80.35	81.30	0.95	GRD	0.92	97	K294937	☐	19-062	low grade		☐	☐	☐
81.30	82.00	0.70	GRD	0.70	100	K294938	☐	19-062	low grade		☐	☐	☐
82.00	82.85	0.85	GRD, QFP	0.85	100	K294939	☐	19-062	low grade		☐	☐	☐
82.85	83.60	0.75	QFP	0.75	100	K294940	☐	19-062	low grade		☐	☐	☐
82.85	83.60	0.75	QFP	0.75	100	K294941	☐	19-062	low grade		☐	☑	☐
83.60	85.10	1.50	QFP	1.50	100	K294942	☐	19-062	low grade		☐	☐	☐
85.10	85.70	0.60	GRD, QFP	0.60	100	K294943	☐	19-062	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
85.70	87.20	1.50	QFP, GRD	1.50	100	K294944	☐	19-062	low grade		☐	☐	☐
87.20	88.70	1.50	QFP	1.50	100	K294945	☐	19-062	low grade		☐	☐	☐
88.70	90.20	1.50	QFP	1.50	100	K294946	☐	19-062	low grade		☐	☐	☐
90.20	91.70	1.50	QFP	1.50	100	K294948	☐	19-062	low grade		☐	☐	☐
91.70	93.20	1.50	QFP	1.50	100	K294949	☐	19-062	low grade		☐	☐	☐
93.20	94.70	1.50	QFP	1.50	100	K294950	☐	19-062	low grade		☐	☐	☐
94.70	96.20	1.50	QFP	1.50	100	K294951	☐	19-062	low grade		☐	☐	☐
96.20	97.70	1.50	QFP	1.50	100	K294952	☐	19-062	low grade		☐	☐	☐
97.70	99.20	1.50	QFP	1.50	100	K294953	☐	19-062	low grade		☐	☐	☐
97.70	99.20	1.50	QFP	1.50	100	K294954	☐	19-062	low grade		☐	☐	☑
99.20	100.70	1.50	QFP	1.40	93	K294955	☐	19-062	low grade		☐	☐	☐
100.70	101.10	0.40	QFP	0.35	88	K294956	☐	19-062	low grade		☐	☐	☐
101.10	101.86	0.76	QFP, GRD	0.75	99	K294957	☐	19-062	low grade		☐	☐	☐
101.86	103.20	1.34	QFP, GRD	1.34	100	K294958	☐	19-062	low grade		☐	☐	☐
103.20	104.70	1.50	QFP	1.50	100	K294959	☐	19-062	low grade		☐	☐	☐
104.70	106.20	1.50	QFP	1.50	100	K294960	☐	19-062	low grade		☐	☐	☐
106.20	107.70	1.50	QFP	1.50	100	K294961	☐	19-063	low grade		☐	☐	☐
107.70	109.20	1.50	QFP	1.50	100	K294962	☐	19-063	low grade		☐	☐	☐
109.20	110.70	1.50	QFP	1.50	100	K294963	☐	19-063	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
110.70	112.20	1.50	QFP	1.50	100	K294964	☐	19-063	low grade		☐	☐	☐
112.20	113.70	1.50	QFP	1.50	100	K294965	☐	19-063	low grade		☐	☐	☐
113.70	115.20	1.50	QFP	1.50	100	K294966	☐	19-063	low grade		☐	☐	☐
113.70	115.20	1.50	QFP	1.50	100	K294967	☐	19-063	low grade		☐	☐	☑
115.20	116.70	1.50	QFP	1.50	100	K294968	☐	19-063	low grade		☐	☐	☐
116.70	117.65	0.95	GRD	0.95	100	K294969	☐	19-063	low grade		☐	☐	☐
117.65	118.50	0.85	GRD, GRD	0.85	100	K294970	☐	19-063	low grade		☐	☐	☐
118.50	119.50	1.00	GRD	0.85	85	K294971	☐	19-063	low grade		☐	☐	☐
119.50	120.40	0.90	GRD	0.85	94	K294972	☐	19-063	low grade		☐	☐	☐
120.40	121.90	1.50	GRD, GRD	1.50	100	K294973	☐	19-063	low grade		☐	☐	☐
121.90	122.88	0.98	GRD	0.88	90	K294975	☐	19-063	low grade		☐	☐	☐
122.88	123.65	0.77	GRD	0.77	100	K294976	☐	19-063	low grade		☐	☐	☐
123.65	124.40	0.75	GRD	0.75	100	K294977	☐	19-063	low grade		☐	☐	☐
124.40	125.00	0.60	GRD	0.60	100	K294978	☐	19-063	low grade		☐	☐	☐
125.00	126.00	1.00	GRD, GRD	1.00	100	K294979	☐	19-063	low grade		☐	☐	☐
126.00	126.75	0.75	GRD	0.75	100	K294980	☐	19-063	low grade		☐	☐	☐
126.75	127.50	0.75	GRD, GRD	0.75	100	K294982	☐	19-063	low grade		☐	☐	☐
127.50	128.60	1.10	GRD, GRD	1.10	100	K294983	☐	19-063	low grade		☐	☐	☐
128.60	129.60	1.00	GRD, GRD	0.95	95	K294984	☐	19-063	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
129.60	130.30	0.70	GRD	0.60	86	K294985	☐	19-063	low grade		☐	☐	☐
130.30	131.30	1.00	GRD, GRD	0.98	98	K294986	☐	19-063	low grade		☐	☐	☐
131.30	131.90	0.60	GRD, GRD	0.60	100	K294987	☐	19-063	low grade		☐	☐	☐
131.90	133.18	1.28	QFP, GRD	1.27	99	K294989	☐	19-063	low grade		☐	☐	☐
133.18	134.05	0.87	QFP, QFP	0.83	95	K294990	☐	19-063	low grade		☐	☐	☐
134.05	135.00	0.95	QFP, GRD	0.95	100	K294991	☐	19-063	low grade		☐	☐	☐
135.00	136.00	1.00	GRD	1.00	100	K294992	☐	19-063	low grade		☐	☐	☐
136.00	136.50	0.50	GRD	0.45	90	K294993	☐	19-063	low grade		☐	☐	☐
136.00	136.50	0.50	GRD	0.45	90	K294994	☐	19-063	low grade		☐	☑	☐
136.50	137.19	0.69	GRD, VEN	0.55	80	K294995	☐	19-063	low grade		☐	☐	☐
137.19	138.00	0.81	GRD	0.80	99	K294996	☐	19-063	low grade		☐	☐	☐
138.00	138.68	0.68	GRD	0.65	96	K294997	☐	19-063	low grade		☐	☐	☐
138.68	139.50	0.82	QFP	0.80	98	K294998	☐	19-063	low grade		☐	☐	☐
139.50	141.00	1.50	QFP	1.50	100	K294999	☐	19-063	low grade		☐	☐	☐
141.00	141.73	0.73	GRD, QFP	0.73	100	K295000	☐	19-063	low grade		☐	☐	☐
141.73	142.45	0.72	GRD	0.70	97	K295001	☐	19-065	low grade		☐	☐	☐
142.45	143.35	0.90	QFP, GRD	0.90	100	K295002	☐	19-065	low grade		☐	☐	☐
143.35	144.85	1.50	QFP	1.50	100	K295003	☐	19-065	low grade		☐	☐	☐
144.85	146.35	1.50	QFP	1.50	100	K295004	☐	19-065	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
146.35	147.85	1.50	QFP	1.50	100	K295005	☐	19-065	low grade		☐	☐	☐
147.85	149.35	1.50	QFP	1.50	100	K295006	☐	19-065	low grade		☐	☐	☐
149.35	149.85	0.50	QFP	0.50	100	K295008	☐	19-065	low grade		☐	☐	☐
149.85	150.50	0.65	GRD, GRD	0.62	95	K295009	☐	19-065	low grade		☐	☐	☐
150.50	151.00	0.50	GRD	0.50	100	K295010	☐	19-065	low grade		☐	☐	☐
151.00	152.50	1.50	GRD	1.40	93	K295011	☐	19-065	low grade		☐	☐	☐
152.50	154.00	1.50	GRD	1.40	93	K295012	☐	19-065	low grade		☐	☐	☐
154.00	155.50	1.50	GRD	1.50	100	K295013	☐	19-065	low grade		☐	☐	☐
154.00	155.50	1.50	GRD	1.50	100	K295014	☐	19-065	low grade		☐	☐	☑
155.50	157.00	1.50	GRD	1.50	100	K295015	☐	19-065	low grade		☐	☐	☐
157.00	158.50	1.50	GRD, GRD	1.50	100	K295016	☐	19-065	low grade		☐	☐	☐
158.50	159.50	1.00	GRD, GRD	1.00	100	K295017	☐	19-065	low grade		☐	☐	☐
159.50	160.50	1.00	GRD	1.00	100	K295018	☐	19-065	low grade		☐	☐	☐
160.50	161.33	0.83	GRD, GRD	0.82	99	K295019	☐	19-065	low grade		☐	☐	☐
161.33	162.50	1.17	GRD, GRD	1.15	98	K295020	☐	19-065	low grade		☐	☐	☐
162.50	164.00	1.50	GRD, GRD	1.50	100	K295022	☐	19-065	low grade		☐	☐	☐
164.00	165.50	1.50	GRD	1.50	100	K295023	☐	19-065	low grade		☐	☐	☐
165.50	167.00	1.50	GRD, GRD	1.50	100	K295024	☐	19-065	low grade		☐	☐	☐
167.00	168.12	1.12	GRD	1.12	100	K295025	☐	19-065	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
168.12	169.00	0.88	GRD	0.85	97	K295026	☐	19-065	low grade		☐	☐	☐
169.00	170.00	1.00	GRD	1.00	100	K295027	☐	19-065	low grade		☐	☐	☐
170.00	171.00	1.00	GRD	0.85	85	K295029	☐	19-065	low grade		☐	☐	☐
171.00	171.30	0.30	GRD	0.28	93	K295030	☐	19-065	low grade		☐	☐	☐
171.30	171.87	0.57	GRD	0.54	95	K295031	☐	19-065	low grade		☐	☐	☐
171.87	172.35	0.48	GRD, VEN	0.45	94	W599208	☐	19-049	high grade		☐	☐	☐
172.35	173.15	0.80	GRD	0.72	90	K295032	☐	19-065	low grade		☐	☐	☐
173.15	174.15	1.00	GRD	1.00	100	K295033	☐	19-065	low grade		☐	☐	☐
173.15	174.15	1.00	GRD	1.00	100	K295034	☐	19-065	low grade		☐	☑	☐
174.15	174.70	0.55	GRD, GRD	0.52	95	K295035	☐	19-065	low grade		☐	☐	☐
174.70	175.75	1.05	GRD, GRD	1.02	97	K295036	☐	19-065	low grade		☐	☐	☐
175.75	177.00	1.25	GRD	1.20	96	K295037	☐	19-065	low grade		☐	☐	☐
177.00	178.50	1.50	GRD, GRD	1.50	100	K295038	☐	19-065	low grade		☐	☐	☐
178.50	179.83	1.33	GRD	1.33	100	K295039	☐	19-065	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-065	K295007	0.00	0.00	0.31	600	☐	☐	☐	☑ ME-6	ME-6
19-065	K295021	0.00	0.00	0.30	630	☐	☐	☐	☑ ME-6	ME-6
19-065	K295028	0.00	0.00	0.00	40	☐	☐	☑	☐	BLANK
19-058	K294862	0.00	0.00	0.26	620	☐	☐	☐	☑ ME-6	ME-6 STD
19-058	K294866	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-058	K294874	0.00	0.00	1.73	180	☐	☐	☐	☑ KL-STD6	KL-6
19-063	K294974	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6 STD
19-063	K294981	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-063	K294988	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6
19-061	K294886	0.00	0.00	0.27	510	☐	☐	☐	☑ ME-6	ME-6
19-061	K294899	0.00	0.00	1.79	1020	☐	☐	☐	☑ KL-STD6	KL-6
19-061	K294905	0.00	0.00	0.00	20	☐	☐	☑	☐	BLANK
19-062	K294928	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-062	K294933	0.00	0.00	0.30	650	☐	☐	☐	☑ ME-6	ME-6

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-062	K294947	0.00	0.00	0.27	640	☐	☐	☐	☑ ME-6	ME-6 STD
19-058	K294858	1.45	2.95	0.06	2550	☐	☐	☐	☐	
19-058	K294859	2.95	4.45	0.03	2300	☐	☐	☐	☐	
19-058	K294860	4.45	5.17	0.01	2830	☐	☐	☐	☐	
19-058	K294861	5.17	6.40	0.05	1920	☐	☐	☐	☐	
19-058	K294863	6.40	7.82	0.05	2400	☐	☐	☐	☐	
19-058	K294864	7.82	8.54	0.08	2120	☐	☐	☐	☐	
19-058	K294865	8.54	9.33	0.16	1100	☐	☐	☐	☐	
19-058	K294867	9.33	10.07	0.06	1370	☐	☐	☐	☐	
19-058	K294868	10.07	11.13	0.24	470	☐	☐	☐	☐	
19-058	K294869	11.13	12.63	0.09	1700	☐	☐	☐	☐	
19-058	K294870	12.63	13.17	1.42	1300	☐	☐	☐	☐	
19-058	K294871	13.17	13.72	0.02	1990	☐	☐	☐	☐	
19-058	K294872	13.72	14.86	0.04	2080	☐	☐	☐	☐	
19-058	K294873	14.86	16.10	0.01	2450	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-058	K294875	16.10	17.45	0.00	1550	☐	☐	☐	☐	
19-058	K294876	17.45	18.29	0.00	2640	☐	☐	☐	☐	
19-058	K294877	18.29	19.60	0.00	2450	☐	☐	☐	☐	
19-058	K294878	19.60	20.32	0.14	1500	☐	☐	☐	☐	
19-058	K294879	20.32	21.33	0.24	980	☐	☐	☐	☐	
19-058	K294880	21.33	22.33	0.14	1730	☐	☐	☐	☐	
19-061	K294881	22.33	23.33	0.03	2340	☐	☐	☐	☐	
19-061	K294882	23.33	23.71	0.11	2170	☐	☐	☐	☐	
19-061	K294883	23.71	24.83	0.01	2530	☐	☐	☐	☐	
19-061	K294884	24.83	26.07	0.17	1990	☐	☐	☐	☐	
19-061	K294885	26.07	27.07	0.25	1120	☐	☐	☐	☐	
19-061	K294887	27.07	28.57	0.01	2360	☐	☐	☐	☐	
19-061	K294888	28.57	30.07	0.01	2370	☐	☐	☐	☐	
19-061	K294889	30.07	31.50	0.01	1880	☐	☐	☐	☐	
19-061	K294890	31.50	33.00	0.00	1110	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-061	K294891	33.00	34.50	0.00	750	☐	☐	☐	☐	
19-061	K294892	34.50	36.00	0.00	950	☐	☐	☐	☐	
19-061	K294893	36.00	37.50	0.00	990	☐	☐	☐	☐	
19-061	K294894	36.00	37.50	0.00	950	☑	☐	☐	☐	1/4 dup
19-061	K294895	37.50	39.00	0.00	830	☐	☐	☐	☐	
19-061	K294896	39.00	40.50	0.07	2090	☐	☐	☐	☐	
19-061	K294897	40.50	42.00	0.07	2490	☐	☐	☐	☐	
19-061	K294898	42.00	42.68	0.01	1950	☐	☐	☐	☐	
19-061	K294900	42.68	44.00	0.00	2330	☐	☐	☐	☐	
19-061	K294901	44.00	45.50	0.00	2440	☐	☐	☐	☐	
19-061	K294902	45.50	46.20	0.01	2100	☐	☐	☐	☐	
19-061	K294903	46.20	47.35			☐	☐	☐	☐	
19-061	K294904	47.35	47.65	1.20	360	☐	☐	☐	☐	
19-061	K294906	47.65	49.00	0.01	1680	☐	☐	☐	☐	
19-061	K294907	49.00	50.10	0.01	2020	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-061	K294908	50.10	51.60	0.03	2190	☐	☐	☐	☐	
19-061	K294909	51.60	53.00	0.03	1950	☐	☐	☐	☐	
19-061	K294910	53.00	54.50	0.04	1730	☐	☐	☐	☐	
19-061	K294911	54.50	55.80	0.02	1760	☐	☐	☐	☐	
19-061	K294912	54.50	55.80	0.02	1780	☐	☑	☐	☐	coarse rej dup
19-061	K294913	55.80	56.13	0.26	300	☐	☐	☐	☐	
19-061	K294914	56.13	57.00	0.01	1140	☐	☐	☐	☐	
19-061	K294915	57.00	58.50	0.00	1030	☐	☐	☐	☐	
19-061	K294916	58.50	60.00	0.01	2610	☐	☐	☐	☐	
19-061	K294917	60.00	61.50	0.02	1500	☐	☐	☐	☐	
19-061	K294918	61.50	63.00	0.00	1710	☐	☐	☐	☐	
19-061	K294919	63.00	64.40	0.02	1080	☐	☐	☐	☐	
19-061	K294920	64.40	65.33	0.17	2080	☐	☐	☐	☐	
19-062	K294921	65.33	66.00	0.59	600	☐	☐	☐	☐	
19-062	K294922	66.00	67.50	0.33	2360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-062	K294923	67.50	69.00	0.02	2210	☐	☐	☐	☐	
19-062	K294924	69.00	69.92	0.14	1580	☐	☐	☐	☐	
19-062	K294925	69.92	70.60	0.39	860	☐	☐	☐	☐	
19-062	K294926	70.60	71.54	0.08	1710	☐	☐	☐	☐	
19-062	K294927	71.54	71.84	1.40	1260	☐	☐	☐	☐	
19-062	K294929	71.84	73.00	0.06	1750	☐	☐	☐	☐	
19-062	K294930	73.00	74.50	0.02	1690	☐	☐	☐	☐	
19-062	K294931	74.50	76.00	0.02	1940	☐	☐	☐	☐	
19-062	K294932	76.00	77.50	0.02	2950	☐	☐	☐	☐	
19-062	K294934	77.50	79.00	0.04	1020	☐	☐	☐	☐	
19-062	K294935	79.00	79.85	0.03	1400	☐	☐	☐	☐	
19-062	K294936	79.85	80.35	0.03	1310	☐	☐	☐	☐	
19-062	K294937	80.35	81.30	0.05	1520	☐	☐	☐	☐	
19-062	K294938	81.30	82.00	0.02	2280	☐	☐	☐	☐	
19-062	K294939	82.00	82.85	0.00	880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-062	K294940	82.85	83.60	0.00	2840	☐	☐	☐	☐	
19-062	K294941	82.85	83.60	0.00	2120	☑	☐	☐	☐	1/4 dup
19-062	K294942	83.60	85.10	0.01	2170	☐	☐	☐	☐	
19-062	K294943	85.10	85.70	0.15	1070	☐	☐	☐	☐	
19-062	K294944	85.70	87.20	0.00	2020	☐	☐	☐	☐	
19-062	K294945	87.20	88.70	0.01	1730	☐	☐	☐	☐	
19-062	K294946	88.70	90.20	0.01	1180	☐	☐	☐	☐	
19-062	K294948	90.20	91.70	0.00	1300	☐	☐	☐	☐	
19-062	K294949	91.70	93.20	0.00	1160	☐	☐	☐	☐	
19-062	K294950	93.20	94.70	0.00	1210	☐	☐	☐	☐	
19-062	K294951	94.70	96.20	0.00	1610	☐	☐	☐	☐	
19-062	K294952	96.20	97.70	0.00	950	☐	☐	☐	☐	
19-062	K294953	97.70	99.20	0.00	1180	☐	☐	☐	☐	
19-062	K294954	97.70	99.20	0.00	1120	☐	☑	☐	☐	Coarse duplicate
19-062	K294955	99.20	100.70	0.01	1100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-062	K294956	100.70	101.10	0.12	250	☐	☐	☐	☐	
19-062	K294957	101.10	101.86	1.97	330	☐	☐	☐	☐	
19-062	K294958	101.86	103.20	0.01	1930	☐	☐	☐	☐	
19-062	K294959	103.20	104.70	0.01	1230	☐	☐	☐	☐	
19-062	K294960	104.70	106.20	0.00	1940	☐	☐	☐	☐	
19-063	K294961	106.20	107.70	0.01	1740	☐	☐	☐	☐	
19-063	K294962	107.70	109.20	0.00	1670	☐	☐	☐	☐	
19-063	K294963	109.20	110.70	0.01	1670	☐	☐	☐	☐	
19-063	K294964	110.70	112.20	0.00	1780	☐	☐	☐	☐	
19-063	K294965	112.20	113.70	0.00	2090	☐	☐	☐	☐	
19-063	K294966	113.70	115.20	0.08	2460	☐	☐	☐	☐	
19-063	K294967	113.70	115.20	0.08	2520	☐	☑	☐	☐	coarse dup
19-063	K294968	115.20	116.70	0.23	1450	☐	☐	☐	☐	
19-063	K294969	116.70	117.65	0.14	1090	☐	☐	☐	☐	
19-063	K294970	117.65	118.50	0.50	960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-063	K294971	118.50	119.50	2.87	580	☐	☐	☐	☐	
19-063	K294972	119.50	120.40	0.48	910	☐	☐	☐	☐	
19-063	K294973	120.40	121.90	0.34	1150	☐	☐	☐	☐	
19-063	K294975	121.90	122.88	0.24	1040	☐	☐	☐	☐	
19-063	K294976	122.88	123.65	0.41	830	☐	☐	☐	☐	
19-063	K294977	123.65	124.40	0.73	330	☐	☐	☐	☐	
19-063	K294978	124.40	125.00	0.23	1580	☐	☐	☐	☐	
19-063	K294979	125.00	126.00	0.01	1860	☐	☐	☐	☐	
19-063	K294980	126.00	126.75	0.18	620	☐	☐	☐	☐	
19-063	K294982	126.75	127.50	0.07	1380	☐	☐	☐	☐	
19-063	K294983	127.50	128.60	1.41	740	☐	☐	☐	☐	
19-063	K294984	128.60	129.60	0.52	1220	☐	☐	☐	☐	
19-063	K294985	129.60	130.30	0.02	1170	☐	☐	☐	☐	
19-063	K294986	130.30	131.30	0.29	1320	☐	☐	☐	☐	
19-063	K294987	131.30	131.90	0.60	1090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-063	K294989	131.90	133.18	0.00	1520	☐	☐	☐	☐	
19-063	K294990	133.18	134.05	0.01	1000	☐	☐	☐	☐	
19-063	K294991	134.05	135.00	0.81	430	☐	☐	☐	☐	
19-063	K294992	135.00	136.00	1.25	160	☐	☐	☐	☐	
19-063	K294993	136.00	136.50	0.34	180	☐	☐	☐	☐	
19-063	K294994	136.00	136.50	0.42	660	☑	☐	☐	☐	1/4 dup
19-063	K294995	136.50	137.19	1.04	560	☐	☐	☐	☐	
19-063	K294996	137.19	138.00	0.97	530	☐	☐	☐	☐	
19-063	K294997	138.00	138.68	0.04	700	☐	☐	☐	☐	
19-063	K294998	138.68	139.50	0.00	1220	☐	☐	☐	☐	
19-063	K294999	139.50	141.00	0.01	1370	☐	☐	☐	☐	
19-063	K295000	141.00	141.73	0.00	1090	☐	☐	☐	☐	
19-065	K295001	141.73	142.45	0.03	1690	☐	☐	☐	☐	
19-065	K295002	142.45	143.35	0.00	3080	☐	☐	☐	☐	
19-065	K295003	143.35	144.85	0.00	1240	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-065	K295004	144.85	146.35	0.00	1950	☐	☐	☐	☐	
19-065	K295005	146.35	147.85	0.00	1310	☐	☐	☐	☐	
19-065	K295006	147.85	149.35	0.00	1960	☐	☐	☐	☐	
19-065	K295008	149.35	149.85	0.07	1520	☐	☐	☐	☐	
19-065	K295009	149.85	150.50	1.31	240	☐	☐	☐	☐	
19-065	K295010	150.50	151.00	0.03	1490	☐	☐	☐	☐	
19-065	K295011	151.00	152.50	0.01	2340	☐	☐	☐	☐	
19-065	K295012	152.50	154.00	0.01	2010	☐	☐	☐	☐	
19-065	K295013	154.00	155.50	0.00	2520	☐	☐	☐	☐	
19-065	K295014	154.00	155.50	0.00	2520	☐	☑	☐	☐	coarse up
19-065	K295015	155.50	157.00	0.05	2750	☐	☐	☐	☐	
19-065	K295016	157.00	158.50	0.06	1810	☐	☐	☐	☐	
19-065	K295017	158.50	159.50	0.41	1410	☐	☐	☐	☐	
19-065	K295018	159.50	160.50	0.08	750	☐	☐	☐	☐	
19-065	K295019	160.50	161.33	0.04	2200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-065	K295020	161.33	162.50	0.02	2180	☐	☐	☐	☐	
19-065	K295022	162.50	164.00	0.00	1970	☐	☐	☐	☐	
19-065	K295023	164.00	165.50	0.01	2250	☐	☐	☐	☐	
19-065	K295024	165.50	167.00	0.01	2000	☐	☐	☐	☐	
19-065	K295025	167.00	168.12	0.02	2190	☐	☐	☐	☐	
19-065	K295026	168.12	169.00	0.09	1520	☐	☐	☐	☐	
19-065	K295027	169.00	170.00	0.05	1880	☐	☐	☐	☐	
19-065	K295029	170.00	171.00	0.02	5450	☐	☐	☐	☐	
19-065	K295030	171.00	171.30	0.26	1200	☐	☐	☐	☐	
19-065	K295031	171.30	171.87	0.05	1830	☐	☐	☐	☐	
19-049	W599208	171.87	172.35	0.33	90	☐	☐	☐	☐	high grade
19-065	K295032	172.35	173.15	0.14	720	☐	☐	☐	☐	
19-065	K295033	173.15	174.15	0.04	830	☐	☐	☐	☐	
19-065	K295034	173.15	174.15	0.04	1810	☑	☐	☐	☐	1/4 dup
19-065	K295035	174.15	174.70	0.02	3040	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-065	K295036	174.70	175.75	0.01	3990	☐	☐	☐	☐	
19-065	K295037	175.75	177.00	0.01	2590	☐	☐	☐	☐	
19-065	K295038	177.00	178.50	0.00	2490	☐	☐	☐	☐	
19-065	K295039	178.50	179.83	0.00	2430	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.87	5.95	VN	37	80	NUL	1	small pyrite bearing quartz veinlet with silicified pyrite in groundmass			
								Py	0.5	DI
7.75	9.00	ST		70	NUL	7	small quartz carbonate veinlets without sulfide			
10.67	11.35	ST		65	NUL	3	pyrite bearing quartz veinlets			
								Py	0.5	DI
12.78	12.98	BX	34	75	NUL	1	brecciated hornblende feldspar porphyry dyke with mineralized quartz carbonate infill.			
								Py	2	BL
								Sp	1	BL
								Gn	1	BL
17.00	18.29	ST		60	NUL	8	eight small carbonate/clay altered hairline seams within hornblende feldspar porphyry dykle			
19.61	19.95	FT	42	70	NUL	1	clay gouged granodiorite with QFP dyke above and granodiorite below			
19.95	20.05	VT	37	70	NUL	1	pyrite bearing veinlet with silicified groundmass			
								Py	0.5	DI
23.45	23.50	VB	37	75	NUL	1	quartz carbonate vein breccia without sulfide at upper contact between QFP dyke and granodiorite			
23.50	24.10	DY	37	75	NUL	1	chloritized feldspar porphyry dyke			
31.75	31.76	FT	42	70	NUL	1	faulted contact between dyke and grd			
39.05	39.06	FT	42	70	NUL	1	faulted contact between dyke and grd			
40.16	40.35	GO	34	70	NUL	1	fault gouge			
42.67	42.68	FT	42	60	NUL	1	faulted contact between grd and dyke			
47.40	47.60	ST		70	NUL	3	set of 3 quartz carb veins with pyrite and sphalerite			
								Sp	1	BN
								Py	1	DI
52.40	52.50	ST		80	NUL	2	two pyrite bearing quartz veinlets			
								Py	1	DI
55.80	56.10	FT	42	90	NUL	1	gouged faulted zone of granodiorite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
60.50	61.20	ST		90	NUL	4	sporadic quartz veinlets with black mineral on outer margin			
61.50	62.50	ST		90	NUL	5	sporadic quartz veinlets with finegrained black mineral on margin			
64.40	65.33	FT	42	70	NUL	1	gouged, silicified, intensely clay altered secion of dyke, with granodiolrite lens below before getting back into dykle again			
69.92	69.93	FT	42	40	NUL	1	faulted contact between dyke above and grd below			
71.50	72.00	ST		40	NUL	3	set of three small quartz crbonate veinlets with pyrite and sphalerite			
								Py	1	BN
								Sp	1	BN
77.07	77.23	FT	42	60	NUL	1	gouged section of granodiorite			
79.45	80.30	ST		80	NUL	8	eight pyrite bearing quartz veins in this interval			
								Py	2	BN
82.85	82.90	VT	37	70	NUL	1	quartz carbonate veinlet; barrren of sulphides			
85.10	85.70	BX	34	80	NUL	1	weird pyrit ebearing brecciated mixture of dyke and granodiorite			
								Py	1	DI
104.68	104.70	VT	37	30	NUL	1	quartz carbonate veinlet trending low angle TCA wtihin unaltered dyke			
111.53	111.55	FT	42	30	NUL	1	clay altered gougey fault in dyke			
113.70	114.00	ST		40	NUL	3	quartz carbonate veinlets barren of sulfide in dyke			
114.50	114.55	FT	42	30	NUL	1	gougey clay altered interval in dyke			
115.60	116.30	FT	42	30	NUL	1	gougey faulted contact between QFP dyke above and GRD below			
123.72	124.08	ST		45	NUL	2	sphalerite bearing carbonate veinlets 0.5 cm wide			
								Sp	1	BN
								Py	1	BN
124.78	124.80	VT	37	40	NUL	1	quartz carbonate veinlet with pyrite			
								Py	0.5	DI
126.12	126.15	VT	37	40	NUL	1	pyrite bearing quartz veinlet			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
126.42	126.59	BX	34	30	NUL	1	weak grd breccia with drak groundmass and weak pyrite dissemin throughout			
								Py	0.5	DI
134.05	134.12	BX	34	60	NUL	1	weak grd breccia with drak groundmass and weak pyrite dissemin throughout			
								Py	0.5	DI
135.50	135.64	VN	37	70	NUL	1	pyrite bearing quartz vein			
								Py	5	BN
136.14	136.19	VN	37	60	NUL	1	pyrite bearing quartz vein			
								Py	2	BN
141.73	141.85	BN		70	NUL	1	banded finegrained vein?? With dissem pyrite			
								Py	35	DI
149.89	149.97	GO	34	80	NUL	1	pyrite filled heavily clay altered gouge			
								Py	0.5	DI
150.30	150.47	GO	34	40	NUL	1	pyrite filled heavily clay altered gouge			
								Py	1	DI
152.47	152.48	FT	42	80	NUL	1	faulted grano above, competent grano below			
158.55	158.90	ST		50	NUL	4	small hairline polymetallic veinlets with dissem pyrite and sphalerite			
								Py	0.25	BN
								Sp	0.5	BN
159.26	159.31	BX	34	70	NUL	1	small brecciated sectin with dark groundmass and trace dissemin py			
								Py	0.1	DI
162.54	162.58	FT	42	35	NUL	1	gouged faulted fracture within fractured granodiorite			
165.40	165.65	ST		50	NUL	2	two small 5 mm wide carbonate veinlets barren of sulfide			
167.18	167.21	BX	34	70	NUL	1	small brecciated sectin with dark groundmass and trace dissemin py			
								Py	0.5	DI
168.12	168.95	ST		40	NUL	7	seven small 3 mm wide pyrite bearing quartz veinlets and two small dark brecciated sections with disseminated pyrite			
								Py	0.5	DI
171.87	172.30	VN	37	70	NUL	1	milky white quartz vein with banded pyrite and trace sphalerite and galena			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	0.2	DI
								Py	2	BN
								Sp	0.2	DI
177.00	177.01	FT	42	70	NUL	1	faulted surface with faulted granodiorite above it for ~ 1.5 m			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383124	6890686	1293.829	317.81

ZONE: Exploration

SECTION:

HOLE: KL -19-449

CLAIM: YD09219

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 7.62m, Out

Drilling Dates: Sep 17 - Sep 22, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
17	36.46	-50.1	Reflex
317	34.66	-49.8	Reflex

TARGET: Central Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.24	1.24	CAS
1.24	3.2	1.96	OVB
3.2	19.11	15.91	GRD
19.11	29.42	10.31	GRD
29.42	33.08	3.66	QFP
33.08	43	9.92	GRD
43	47.9	4.9	GRD
47.9	50.1	2.2	GRD
50.1	50.48	0.38	GRD
50.48	52.19	1.71	GRD
52.19	56.21	4.02	GRD
56.21	56.66	0.45	GRD
56.66	65.53	8.87	GRD
65.53	70.1	4.57	GRD
70.1	70.8	0.7	GRD
70.8	78.54	7.74	GRD

SAMPLES	
Numbers:	W599184 to W599185, W599187 to W599192, W599194 to W599197, W603412 to W603594
Total:	195
Batch:	006, 040, 042, 047, 049, 051, 055
Certificates:	WH19245856, WH19245863, WH19245872, WH19245878, WH19249613, WH19250393, WH19255796, WH19283132

COMMENTS

78.54	87	8.46	GRD
87	90.18	3.18	GRD
90.18	93.8	3.62	GRD
93.8	95.5	1.7	GRD
95.5	102.82	7.32	GRD
102.82	104.72	1.9	VEN
104.72	109.24	4.52	VEN
109.24	111.1	1.86	GRD
111.1	115.71	4.61	GRD
115.71	125.2	9.49	GRD
125.2	126.35	1.15	VEN
126.35	130.27	3.92	GRD
130.27	133.83	3.56	GRD
133.83	134.2	0.37	VEN
134.2	149.09	14.89	GRD
149.09	149.35	0.26	VEN
149.35	152.5	3.15	GRD
152.5	158.8	6.3	GRD
158.8	161.47	2.67	GRD
161.47	162.63	1.16	GRD
162.63	168.86	6.23	GRD
168.86	174.9	6.04	GRD
174.9	180.57	5.67	GRD
180.57	183.58	3.01	GRD
183.58	213.87	30.29	GRD
213.87	244.65	30.78	GRD
244.65	266.54	21.89	GRD
266.54	271.52	4.98	VEN
271.52	277.9	6.38	GRD
277.9	284.99	7.09	GRD
284.99	302.68	17.69	GRD
302.68	311.96	9.28	GRD

311.96	313.8	1.84	GRD
313.8	317.81	4.01	GRD

Box Log

KL -19-449

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.24	6.85
2	6.85	9.85
3	9.85	12.19
4	12.19	14.67
5	14.67	17.14
6	17.14	19.56
7	19.56	22.19
8	22.19	25
9	25	27.74
10	27.74	30.73
11	30.73	33.34
12	33.34	35.78
13	35.78	37.88
14	37.88	40.37
15	40.37	42.86
16	42.86	45.47
17	45.47	48.12
18	48.12	50.79
19	50.79	52.8
20	52.8	55.38
21	55.38	58
22	58	60.56
23	60.56	63.03
24	63.03	67.06
25	67.06	70.94
26	70.94	73.88
27	73.88	77.25
28	77.25	82.3
29	82.3	86.87
30	86.87	90.37
31	90.37	92.92
32	92.92	95.2
33	95.2	98.29
34	98.29	101.29
35	101.29	104.18
36	104.18	107.26
37	107.26	109.82
38	109.82	112.57
39	112.57	115.44
40	115.44	118.77
41	118.77	122.66
42	122.66	126.49
43	126.49	130.27
44	130.27	133
45	133	137.16
46	137.16	141.73
47	141.73	146
48	146	149.54
49	149.54	152.18
50	152.18	156.88
51	156.88	157.89
52	157.89	160.95
53	160.95	164.08
54	164.08	166.52
55	166.52	169.2
56	169.2	172.08
57	172.08	174.9
58	174.9	177.8
59	177.8	180.85
60	180.85	184
61	184	186.9
62	186.9	190.05
63	190.05	193.1
64	193.1	196.2
65	196.2	199.28
66	199.28	202.27
67	202.27	205.23
68	205.23	208.3
69	208.3	211.11
70	211.11	213.97
71	213.97	216.62
72	216.62	219.13
73	219.13	222.05
74	222.05	225.12
75	225.12	227.68
76	227.68	229.83
77	229.83	232.55
78	232.55	235.43
79	235.43	237.94
80	237.94	240.16
81	240.16	243.17
82	243.17	245.58
83	245.58	248.27
84	248.27	251.1
85	251.1	254.2
86	254.2	257.22
87	257.22	260.21
88	260.21	263.25
89	263.25	266.3
90	266.3	269.54

Box Number	From (m)	To (m)
91	269.54	272.56
92	272.56	275.73
93	275.73	279.04
94	279.04	282.22
95	282.22	285.09
96	285.09	288.04
97	288.04	290.9
98	290.9	293.71
99	293.71	296.29
100	296.29	299.17
101	299.17	302.32
102	302.32	305.33
103	305.33	308.34
104	308.34	310.76
105	310.76	313.7
106	313.7	316.38
107	316.38	317.81

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-449									
	25.25	16	HTW	GRD	1698.7	1106.8	2.76	2.9	
	29.85	13	HTW	QFP	1358.5	890.3	2.72	2.9	
	50	14	HTW	GRD	1508.2	995.8	2.8	2.9	
	117.62	12	HTW	GRD	1305.4	838.5	2.83	2.8	
	125.21	12.5	NTW	VEN	1802.3	1348.3	5.1	4.0	
	162.02	18	HTW	GRD	2034.8	1297.4	2.94	2.8	
	201.08	17	HTW	GRD	2061.6	1397.5	3.15	3.1	
	235	8	HTW	GRD	957.2	633.3	3.11	3.0	
	268.71	12	HTW	VEN	1255.9	850.7	2.72	3.1	
	313.57	13	HTW	GRD	1426	957.4	2.85	3.0	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.24	1.24	CAS	--	casing							
1.24	3.20	1.96	OVB	--	ovb							
3.20	6.00	2.80	GRD	MG	gouged, clay rich interval of weakly argillic trace propylitic granodioritte. Clay brownish oxidation is observed in rubbly zones and along fracture surfaces							
						LT	BN	RB	ARG	2I		
						LT	BG					
6.00	10.85	4.85	GRD	MG	trace potassic, propylitic granodiorite interval with local rubbly, fractured sections. Brown clay oxidation and reddish hematitic oxidation occurs along fractures and joint surfaces.							
						LT	GN	RB	POT	1I		
						LT	BN		PRO	1I		
						LT	PK					
						DK	BN					
10.85	12.19	1.34	GRD	MG	Trace potassic, proplitic, locally oxidized granodiorite interval. Clay and hematitic oxidation occur along fractures and joint surfaces. (Unit is relativelt more competent than previous)							
						LT	PK					
						LT	GN					
						LT	BN					
12.19	13.72	1.53	GRD	FG	fractured, rubbly, trace potassic, propyliti granodiorite interval exhibiting weak to moderate oxidation within grd unit. Clay and reddish hematite oxidation along fracture/joint surfaces are commonly observed							
						LT	BN	RB	PRO	1I		
						DK	RD		HEM	1I		
									POT	1I		
									OXI	2I		
13.72	15.54	1.82	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of trace argillic alteration. Interval exhibits increased hematitic oxidation throughout.							
						LT	BN		PRO	1I		
						DK	RD		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									ARG	1I		
15.54	17.45	1.91	GRD	MG	rubbly, fractured interval of trace potassic and propylitic granodiorite. Clay oxidation appear more prominent than hematitic oxidation seen in previous interval							
						LT	BN	RB	PRO	1I		
						LT	GN	FR	OXI	2I		
						LT	PK		POT	1I		
17.45	19.11	1.66	GRD	MG	relativvely competent interval of trace potassic, propylitic granodiorite. Light brown, clay oxidation is observed along fractures/joint surfaces							
19.11	21.85	2.74	GRD	MG	moderate argillic, weakly propylitic granodiorite interval witih local fractured zones. Oxidation halos along frature surfaces , pervasively intruding into grd are locally observed. Trace, pyrite bearing, 1-2 mm quartz veinlets are present in interval. (some vein fragments within fractured zones).							
						LT	BN					
						LT	GN		ARG	3I	Py	3
						LT	BG		PRO	1I		
21.85	22.50	0.65	VEN	MG	Moderately propylitic , weakly argillic granodiorite interval containting 1-2 cm, pyrite bearing quartz veins (~20 degrees TCA). A gouged, breccciated seam proximal to vein zone is locally observed containting light brown, clay rich oxidation. Blebby pyrite is hosted in dark grey smoky quartz veins which appear to be partially infilled by calcite and brecciate quartz vein locally. Trace, sub mm Galena (?) is also observed within veins.							
						MD	GN		PRO	3I	Py	5
						LT	BR		ARG	2I	Gn	1
22.50	23.50	1.00	GRD	MG	moderately argillic, trace propyliti granodiorite with small section of argillic, tweakly potassic granodiorite. Oxidation halo along frature surfaces and clay rich oxidation along join surface is commonly observed.							
23.50	24.30	0.80	GRD	MG	Trace propylitic, potassic granodiorite interval with clay oxidation observed along fractured and joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
24.30	26.85	2.55	GRD	MG	moderately argillic, trace propylitic granodiorite interval with local fractured, gouged zones (i.e. 25m). Oxidation along fracture surfaces and calcite veinlet is locally observed. @ 25 m, a gouged, pyrite bearing vein is observed. Disseminated and blebby pyrite occur in gouged vein zone (vein itself is ~ 1-2 cm). Trace blebby, dissemianted pyrite also occurs within grd host rock. Small, 2-4 mm, quartz veins that microbrecciate host grd sometimes containt trace disseminated pyrite.							
						LT	BN		PRO	1I	Py	4
						LT	BG		ARG	3I	Pg	4
						LT	GN					
26.85	28.74	1.89	GRD	MG	gouged, brecciated, moderate argillic, trace propylitic granodiorite interval. Calcite infills oxidized fracture surfaces locally. Trace, 2-4 mm milky quartz veins locally brecciating host grd interval occurs @ 27.43m. Trace disseminated pyrite is also observed within grd host rock. Interval is gouged and brecciated as quartz feldspar porphyry dyke contact is approached.							
28.74	29.42	0.68	GRD	MG	gouged, brecciated , moderately argillic, trace propylitic granodiorite interval. Faulted contact between altered granodiorite and quartz feldspar porphyry dyke. Clay oxidation is commonly observed. Gouged seams contains entrained clasts (faulted contact).							
						LT	GN	BX	PRO	1I		
						LT	BG		ARG	3I		
29.42	30.73	1.31	QFP	MG	quartz feldspar porphyry dyke interval with local light grey oxidized zones. Trace 1-3 mm, oxidizied quartz veinlets are observed							
30.73	31.60	0.87	QFP	MG	quartz feldspar porphyry dyke interval with 1-3 mm quartz veinlets. Clasts within clasts are observed in quartz feldspar porphyry matrix							
31.60	32.00	0.40	QFP	MG	fractured interval of quartz feldspar porphyry dyke. Orage, light brown oxidation observed along fracture surfaces							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.00	33.08	1.08	QFP	MG	quartz feldspar porphyry dyke interval with zones of gouge brecciation and fractured, oxidized zones. Matrix grain sizes becomes finer toward grd contact .							
						DK	PU	FR				
33.08	33.53	0.45	GRD	MG	weakly potassic and argillic granodiorite interval							
33.53	35.78	2.25	GRD	MG	trace propylitic, potassic granodiorite interval with local zones of weak pervasive oxidation in grd host. Trace 1-2 mm quartz veinlets containting minor hematite are observed.							
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
35.78	37.10	1.32	GRD	MG	fractured interval of trace propylitic, potassic grnodiorite. Light brown clay and reddish hematite alteration occur along fracture/joint surfaces.							
37.10	37.88	0.78	GRD	MG	trace potassic, propylitic granodiorite interval. Trace 1-2 mm quartz veins containting hematite infill are locally observed. Light brown and dark red hematitic oxidation are present in fracture/joint surfaces							
37.88	38.40	0.52	GRD	MG	rubbly and fractured intervla of trace potassic, propylitic granodiorite. Light brown clay oxidation occurs in fractures/joint surfaces.							
38.40	40.32	1.92	GRD	MG	competent interval of trace propylitic, potassic granodiorite. Trace, sub-mm quartz veinlets are observed in interval.							
						LT	PK		PRO	1I		
						LT	GN		POT	1I		
40.32	41.10	0.78	GRD	MG	fractured interval of trace propylitic, potassic granodiorite. Orange, yellow oxidation occurs along fracture surfaces.							
41.10	42.06	0.96	GRD	MG	trace propylitic, potassic granodiorite with intermittent zones of orange/light brown oxidation in grd and along fractured surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.06	43.00	0.94	GRD	MG	trace propylitic, potassic granodiorite with intermittent zones of weakly argillic, trace propylitic grd. Oxidized, weakly argillic section contains a 3 cm, oxidized calcite vein that brecciated host grd.							
						MD	OR		PRO	1I		
						LT	BN					
						LT	PK		OXI	2I		
						LT	GN		POT	1I		
43.00	43.90	0.90	GRD	MG	fractured, gouge brecciated , weakly argillic, trace propylitic granodiorite interval. Trace pyrite blebs are locally observed on interval							
43.90	44.60	0.70	GRD	MG	rubbly, gouged and fractured interval of trace propylitic, potassic, weakly argillic granodiorite. Dark red hematitic oxidation is commonly observed in fracture surfaces.							
44.60	45.25	0.65	GRD	MG	fractured, trace argillic, propylitic , potassic granoiorite interval. mustard yello and dark red oxidation is observed along fracture surfaces.							
						LT	YW		POT	1I		
						LT	PK		ARG	1I		
						LT	GN					
						DK	RD	FR	PRO	1I		
45.25	46.30	1.05	GRD	MG	less fractured interval of trace potassic, propylitic granoiorite. Mustard yellow and red hematitic oxidation is observed along fracture surfaces							
						LT	PK		PRO	1I		
						LT	GN					
						LT	YW					
						DK	RD		ARG	1I		
46.30	47.24	0.94	GRD	MG	rubbly, fractured interval of trace propylitic, potassic , trace argillic granodiorite. Light brown, mustard yellow clay oxidation is locally observed throughout interval.							
47.24	47.90	0.66	GRD	MG	fractured, oxidized interval of weak propylitic , trace argillic granodiorite. Pervasive oxidation of host grd is observed on interval.							
						MD	BN	FR	ARG	1I		
						MD	OR		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG					
						LT	GN					
47.90	49.10	1.20	GRD	MG	weakly argillic, propylitic granodiorite interval . An oxidized, pyrite bearing quartz vein occurs @ 48.16m. Trace sub-mm, dark grey, bands , sometimes containing fine disseminated pyrite are also observed on interval. light brown clay and red hematitic oxidation occurs along fracture surfaces							
						LT	BG		ARG	2I		
						LT	BN		PRO	1I		
						LT	GN					
49.10	50.10	1.00	GRD	MG	Trace potassic, propylitic granodiorite interval. Calcite infilling fractures occurs locally .							
50.10	50.48	0.38	GRD	MG	moderately propylitic granodiorite interval and weak potassic, argillic granodiorite zone. Propylitic altered zone contains a 1 cm pyrite bearing smoky quartz vein. Milky quartz and ankerite appear to brecciated smoky quartz vein. Trace, ankerite blebs are observed in ankerite infill quartz vein. Overall vein zone appears to also brecciated host altered grd.							
						MD	GN		PRO	3I	Sp	2
						LT	PK		POT	2I	Py	4
50.48	52.19	1.71	GRD	MG	fractured, trace potassic, propylitic granodiorite interval. Oxidation in grd is observed @ 50.75m. Light brown, dark red, hematitic oxidation occurs along fractures and joint surfaces. Trace, 1 mm, dark, fine grained, oxidized bands occur within interval							
						LT	PK	FR	POT	1I		
						LT	GN		PRO	1I		
52.19	53.00	0.81	GRD	MG	weakly potassic, argillic granoiorite interval. Quartz, calcite infilled breccia zone is observed @ 52.54m.							
53.00	53.34	0.34	GRD	MG	trace potassic, trace propylitic grnodiorite interval. Liht brown oxidation is observed along fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
53.34	54.61	1.27	GRD	MG	weakly argillic, trace potassic, trace propylitic granodiorite interval. a 1 cm, oxidized,pyrite bearing, calcite infilled quartz vein is observed @ 54.20m. Trace disseminated pyrite is observed within dark grey, fine grained lenses within grd interval. @ 53. 70, 2 1 cm pyrite bearing veins are observed. Pyrite is blebby in veins @ 53.70m.							
54.61	55.38	0.77	GRD	MG	weak propylitic, weakly argillic granodiorite interval with intermittent unaltered grd zones. Pervasive oxidation occurs within more argillic zones. Trace 1-3 mm, calcite infilled, pyrite bearing quartz veins are locally observed in grd interval.							
						LT	BG		PRO	2I	Py	3
						LT	GN		ARG	2I		
55.38	56.21	0.83	GRD	MG	weakly argillic, trace phyllic, propylitic ,gouge brecciated granodiorite interval (brecciation and gouged seams are more prominent proximal to vein zone. Trace disseminated pyrite is observed in grd near vein zone.							
						LT	BG		ARG	2I	Py	2
						LT	GN		PHC	1I		
56.21	56.66	0.45	GRD	MG	Granodiorite interval containting mineralized vein breccia and 2-4 mm, pyrite bearing veins. Breccia vein zone contains semi massive pyrite within dark, fine grained matrix which is brecciated by calcite, clear quartz and ankerite. Ankerite appears to crosscut quartz breccia zones (post stage (?)). Clear quartz, brecciated clasts also host semi massive pyrite. Trace arseno pyrite is also observed within vein breccia zone. Vein breccia is observed from 56.29-39m. From 56.39-56.66, quartz vein contain blebby pyrite and trace honey brown sphalerite grains.							
56.66	57.91	1.25	GRD	MG	trace potassic, argillic granodiorite interval. Oxidation along fractures and joint surfaces is locally observed.							
57.91	58.45	0.54	GRD	MG	moderately argillic, trace potassic granodiorite . Interval is soft and brecciated by 2-4 mm, calcite veinlets. Reddish hematitic oxidation is locally observed in fractures/joint surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
58.45	59.61	1.16	GRD	MG	pervasively oxidized, gouged and fractured, weakly argillic, trace propylitic granodiorite interval. Disseminated pyrite is present in gouge brecciated sections.							
59.61	61.23	1.62	GRD	MG	Locally fractured and oxidized (59.61-59.85m), trace potassic, trace propylitic granodiorite interval. Interval contains 1-2 mm, dark, fine grained, strongly magnetic veinlets and irregular bands. Trace disseminated pyrite is observed throughout granodiorite interval.							
						LT	GN		POT	1I	Py	1
						LT	PK		PRO	2I		
61.23	64.01	2.78	GRD	MG	weak to moderate potassic, weakly argillic granodiorite interval. Interval is locally fractured, contains chlorite, hematite slickenlines (fault related (?)) . 2 cm , light pink aplite dyke intrusion is observed @ 62.96-63.03m (35 degrees TCA).							
						MD	PK	FR	POT	2I		
						LT	BG		ARG	2I		
64.01	65.53	1.52	GRD	MG	moderately argillic, trace potassic , trace propylitic granodiorite. Gouged seams are observed from 64.90-65.53. A pyrite bearing quart vein is observed @ 64.50m. Disseminated pyrite and trace sub-mm sphalerite occur within quart vein. Ankerite vein parallel to pyrite bearing quartz vein is present in vein zone and brecciates quartz vein locally.							
						LT	BG		POT	1I	Sp	1
						LT	GN		ARG	3I	Py	3
						LT	PK		PRO	2I	Ak	4
65.53	66.75	1.22	GRD	MG	gouged, brecciated, fractured interval of moderately argillic, trace propylitic altered granodiorite. Pyrite,sphalerite blebs and trace galena are locally observed in 3-5 mm quart veins. Disseminated pyrite also occurs within gouge brecciated zone. (quartz vein in grd fractured fragment appears to run parallel to core axis). Minor 1-2 mm, ankerite veinlets partially infill and crosscut polymetallic quartz veins.							
						LT	GN	FR	ARG	3I	Sp	3
						LT	BG	BX	PRO	2I	Py	4
											Ak	3
											Gn	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.75	70.10	3.35	FLR	MG	gouged, brecciated moderately argillic granodiorite (faulted interval (?)). Dark red hematitic oxidation is locally observed in fracture surfaces.							
						LT	BG	BX	ARG	3I		
						DK	RD					
70.10	70.40	0.30	GRD	MG	gouged, breciated, moderate argillic, trace propylitic potassic granodiorite interval.trace disseminated pyrite is locally observed in gouge brecciated zone							
						LT	GN		ARG	3I		
						LT	BG		PRO	1I		
						DK	GY	BX	POT	1I	Py	5
70.40	70.51	0.11	GRD	MG	dark grey, gouged, brecciated vein containting disseminated pyrite.							
70.51	70.80	0.29	GRD	MG	moderately argillic, trace propylitic granodiorite interval. Calcite brecciating host grd is observed on interval.							
70.80	72.06	1.26	GRD	MG	weakly propylitic, argillic, trace potassic granodiorite interval containing 2-3 mm pyrite bearing vein @ 72m. Vein contains disseminated pyrite within a black, magnetic, fine grained matrix. Calcite infilling fracture surfaces is locally observed.							
						LT	BG		ARG	2I	Mg	3
						LT	GN		PRO	2I	Py	2
72.06	74.35	2.29	GRD	MG	weakly propylitic, trace potassic granodiorite interval with locally fractured zones (73.15-74.30m).							
						MD	GN		POT	1I		
						LT	PK	FR	PRO	2I		
74.35	75.28	0.93	GRD	MG	moderate argillic, trace potassic, trace phyllic granodiorite inteval exhibiting local gouged, brecciated zone @ 75.10m, proximal to vein zone. Trace disseminated pyrite is locally observed within gouge brecciated section.							
						LT	BG	BX	ARG	3I	Py	2
						LT	GN		ARG	1I		
									PHC	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
75.28	75.37	0.09	VEN	FG	vein breccia zone containting disseminated pyrite within dark grey, fine grained zones and within clear quartz vein. Dark grey material appears to brecciate clear quartz vein locally.							
						DK	GY	BX			Py	6
75.37	75.76	0.39	GRD	MG	weakly propylitic, trace argillic granodiorite interval. Gouge brecciation is locally observed in interval where calcite infills, fractured, brecciated seams. Calcite infilled, pyrite bearing quartz veins are locally offset by fracturing and brecciation. Trace disseminated pyrite and sub-mm sphalerite blebs are contained within quartz veins. Veins in gouge brecciated one appear vuggy as well.							
						MD	GN	BX	ARG	1I	Py	4
						LT	GN		PRO	2I		
						LT	BG					
75.76	77.72	1.96	GRD	MG	fractured, rubbly, moderately potassic, weakly argillic granodiorite interval. Some fragments in rubbly interval contain 3-5 mm, pyrite bearing, rhodochrosite infilled , quartz veins.							
77.72	78.54	0.82	GRD	MG	weak to moderately potassic granodiorite with intermittent zone of weakly propylitic and argillic altered granodiorite. In propylitic altered zone, a calcite vein is locally offset by fracturing. Calcite appears to infill an existing quartz vein. Trace disseminated pyrite is observed around quartz vein.							
						MD	GN	FR	POT	3I	Py	2
						MD	PK		PRO	2I		
78.54	80.20	1.66	GRD	MG	weakly to moderate argillic granodiorite overprinting trace potassic alteration. Interval is fractured and rubbly and dark red heatitite oxidation and chlorite are observed along fracture/joint surfaces. Slickenlines also occur in joint surfaces.							
						LT	BG	FR	POT	1I		
						LT	PK					
						DK	RD		ARG	3I		
80.20	85.10	4.90	FLR	MG	gouged, brecciated , rubbly interval of moderate argillic granodiorite overprinting trace potassic and propylitic alteration. Faulted interval(?). Gouged sections are light to medium grey. No visible mineralization observed on interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG	RB	POT	1I		
						LT	GN		PRO	1I		
						DK	RD	BX	ARG	3I		
85.10	87.00	1.90	FLR	MG	fractured, weakly argillic,weakly potassic granodiorite overprinting trace propylitic alteration. Trace dissemianted pyrite is observed in fractured fragments within 1-2 mm, dark grey, bands.							
						MD	PK	FR	ARG	2I	Py	2
						LT	BG		POT	2I		
87.00	88.05	1.05	FLR	MG	gouged, brecciated, weakly to moderately propylitic overprinting a trace argillic alteration. Dark, grey, clayey brecciated seams contain trace disseminated pyrite.							
						MD	GN	BX	PRO	3I	Py	2
						MD	GY		ARG	1I		
						LT	BG					
88.05	89.20	1.15	FLR	MG	rubbly, gougy , moderately propylitic, trace argillic granodiorite. Trace dissemianted pyrite is locally observed within rubbly zone (pyrite more notable in dark grey, gougy seams). An ankerite infilled, pyrite bearing quartz vein is observed @ 89 m Ankerite appears to brecciate clear quartz vein.							
						MD	GY	RB	ARG	2I	Ak	2
						LT	GN		PRO	2I	Py	2
89.20	90.18	0.98	FLR	MG	Rubbly, fractured, gouged , weakly propylitic, argillic granodiorite. Trace disseminated pyrite is observed within rubbly zone.							
						LT	GN	RB	ARG	2I		
						LT	PK	FR	PRO	2I	Py	2
						LT	BG		POT	1I		
90.18	92.96	2.78	GRD	MG	fractured, weakly propylitic, trace potassic granodiorite interval.							
92.96	93.80	0.84	GRD	MG	weakly propylitic, trace potassic granodiorite interval. Interval appears weakly silicified.							
						MD	GN		PRO	2I		
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
93.80	95.50	1.70	GRD	MG	Weakly potassic, trace propylitic and argillic granodiorite interval with local zones of increased potassic alteration. A 2 mm, quartz vein containting trace pyrite blebs is observed @ 93.96m. Ankerite brecciates and infills quartz vein. Quartz vein contains fine, black, sub mm-inclusions. Quartz vein is 35 degrees TCA.							
						LT	PK		POT	2I	Py	1
						LT	GN		ARG	2I		
									PRO	1I		
95.50	97.23	1.73	GRD	MG	fractured interval of weakly potassic altered granodiorite overprinting trace propylitic alteration. Trace pyrite blebs are locally observed along fracture surfaces in grd inteval (fractured along, vein surface(?)).							
97.23	97.82	0.59	GRD	MG	rubbly granodiorite fragments interval. Cave (?). Fragmnts contain potasic altered and propylitic altered grd fragments.							
97.82	98.52	0.70	GRD	MG	trace propylitic, potassic. Fractured granodiorite interval. polymetallic quartz vein fragment are locally observed on interval. Calcite appears to infill and microbrecciate vein polymetallic vein surfaces. Small, ankerite fragments are also observed in rubbly interval. Polymetallic vein contains pyrite, galena and blackjack sphalerite blebs.							
						LT	PK	FR	POT	1I	Gn	4
						LT	GN		PRO	2I	Py	5
											Sp	2
											Ak	2
98.52	100.58	2.06	GRD	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of trace argillic, weakly propylitic alteration (thin 1-2 mm, milky quartz veins occur in propylitic altered grd section). Locally fractured zones are locally observed @ 98.60 and 99.60m.							
						MD	PK		POT	2I		
						LT	BG		ARG	1I		
						LT	GN		PRO	2I		
									PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.58	101.48	0.90	GRD	MG	weakly propylitic, trace potassic granodiorite with intermittent zones of trace potassic, weakly argillic altered granodiorite. A 2 cm, pyrite bearing quartz vein is locally observed @ 101.29 in propylitic altered granodiorite zone. Two 1 cm, quartz veins are present in propylitic altered granodiorite zone @ 101.29m. Both veins appear quartz dominant and blebby pyrite and trace sphalerite occur within one of the veins mainly. The second vein adjacent to polymetallic quartz vein contains trace sphalerite and fine grained disseminated pyrite (NOTE: pyrite and sphalerite are more abundant in first quartz vein).Vein containting trace pyrite appear partially infilled by ankerite and/or calcite.							
						MD	GN		PRO	2I	Py	5
						LT	PK		POT	1I	Py	2
											Sp	3
											Ak	4
101.48	102.19	0.71	GRD	MG	trace propylitic, potassic granodiorite interval.							
102.19	102.82	0.63	GRD	MG	fractured, weakly argillic, trace potassic and propylitic granodiorite interval. Gouged seams are observed near the polymetallic vein zone contact.							
						LT	PK		POT	1I		
						LT	BG		PRO	1I		
									ARG	2I		
102.82	103.00	0.18	VEN	MG	propylitic altered granodiorite containting polymetallic vein @ 102.94m. Polymetallic vein contains semi massive pyrite , trace galena blebs and honey brown sphalerite blebs. Light pink, rhodochrosite infills polymetallic vein zone. Sub-mm, black, fine grained bands occur within rhodochrosite vein zones. (note most semi massive pyrite is hosted in smoky quartz vein. Gouged seam at the grd-vein zone contact contains fine grained disseminated pyrite. Blebby pyrite also occurs in host grd. Semi massive appears to surround sphalerite and galena blebs . (individual cubic galena crystals also occurs within rhodochrosite infilled veins.							
						MD	GN		PRO	2I	Sp	4
											Rh	6

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	8
											Py	5
											Gn	4
103.00	103.80	0.80	VEN	MG	gouged, brecciated, polymetallic vein zone in weakly propylitic granodiorite. Disseminated pyrite occurs within light grey, gouged seams and within brecciated altered grd. 2-5 mm, sphalerite blebs are locally observed wtihin calcite infilled vein @ 103.63m. Ankerite inclusions are observed wtihin calcite infilled polymetallic vein and appears to infill gouged, brecciated fracture surfaces. Blebby pyrite and trace galena are locally observed within gouge brecciated vein zone. Veins also appeared locally fractured and offset by gouge brecciation (fault related (?)).							
103.80	104.18	0.38	GRD	MG	weakly argillic granodiorite overprinting weak propylitic alteration. Disseminated and blebby pyrite is locally observed throughout granodiorite interval.							
						LT	GN		PRO	1I	Py	4
						LT	BG		ARG	2I	Py	3
104.18	104.72	0.54	GRD	MG	Gouged brecciated, fractured , weakly propylitic, argillic granodiorite interval. Disseminated pyrite is locally observed in gouge brecciated vein zones; contained within dark grey, fine grained gouged seams. Fracturing and brecciation locally offset ankerite infilled veins on interval.							
104.72	106.50	1.78	GRD	MG	weakly potassic, argillic granodiorite with local zones of gouged brecciation. Semi massive pyrite is observed on fracture and gouged surface @ 105.60m							
106.50	108.26	1.76	GRD	MG	weakly propyliticalteration overprinting by weak argilic altered granodiorite. Gouge brecciation is locally observed throughout interval. blebby pyrite occurs within 1-3 mm, quartz veins and are locally offset and fractured in breciated zones. A quartz vein containting trace pyrite blebs (20 degrees TCA) is observed @ 106.60m. Milky quartz appears to brecciate clear quartz vein and thin, sub-mm, dark grey, bands and ankerite partially infilling quartz veins is locally observed.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	BG					
108.26	108.60	0.34	GRD	MG	gouged, rubbly trace propylitic, weakly argillic granodiorite containting disseminated pyrite in dark grey, gouged seams.							
						LT	GN	RB	PRO	1I	Pg	4
						LT	BG		ARG	2I		
						LT	GY					
108.60	109.24	0.64	VEN	MG	weakly propylitic, trace argillic granodiorite interval containting four, 2-cm, rhodochrosite polymetallic veins and 2-4 mm, polymetallic quartz veins. Veins are ~ 40 degrees TCA and contain blebby pyrite, trace galena and sphalerite. Rhodochrosite appears to have replaced an existing quartz vein (quartz vein bearing mineral bearing fluids then rhodochrosite fluid replacement (?)). Small, quartz inclusions are observed in rhodochrosite bearing veins. Sub-mm, black, fine grained bands occur in polymetallic veins. Polymetallic veins are observed @ 108.61-109m. 2-4 mm, quartz veins containting blebby pyrite, trace galena and honey brown sphalerite appear to be locally offset by a 2 mm, calcite veinlet running perpendicular to polymetallic veins.							
						MD	GN		ARG	1I	Sp	4
						LT	PK		PRO	2I	Py	6
											Gn	4
											Rh	8
109.24	111.10	1.86	GRD	MG	moderate potassic, trace argillic granodiorite with intermittent zones of weak argillic, trace propylitic granodiorite. A light grey, fine grained, carbonitic band (30 degrees TCA) is observed within potassic altered grd zone @ 109.92m. Trace 1-2 mm, dark grey bands containing disseminated pyrite are locally observed in more argillic grd sections. A small gouged seam occurs at 110.43m. A calcite infilled, quartz vein brecciating host grd is present @ 110.90m.							
						MD	BG		POT	3I		
						MD	PK		PRO	2I		
						LT	GN		ARG	1I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
111.10	115.44	4.34	GRD	MG	relatively unaltered granodiorite interval (trace potassic, trace propylitic but otherwise relatively unaltered) with intermittent zones of weakly argillic, trace potassic and propylitic granodiorite (altered zones are no larger than 25cm). Local fracture zones are locally observed on interval as well.							
						MD	GY					
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
115.44	115.71	0.27	GRD	MG	fractured, rubbly interval of relatively unaltered grd.							
115.71	115.96	0.25	GRD	MG	moderately argillic, trace potassic granodiorite interval. Gouge brecciation is observed proximal to polymetallic vein zone.							
115.96	116.16	0.20	VEN	FG	polymetallic vein containting 2-8 mm euhedral blackjack sphalerite, blebby pyrite and galena. Zonation cores are observed in blackjack sphalerite crystals. Trace arsenopyrite is also present in vein interval. quartz vein appears to host minerals in vein and was replaced by calcite and interstitial ankerite (calcite replaces quartz vein first then ankerite intrudes into calcite replaced quartz vein and locally brecciates calcite and quartz vein).							
						MD	GY				Sp	8
						LT	BG				Py	5
											Gn	4
											As	4
116.16	116.52	0.36	GRD	MG	moderately argillic, trace potassic granodiorite interval containting a 1 cm , pyrite bearing, calcite infilled vein. Disseminated pyrite is locally observed in vein							
						LT	PK		PRO	1I	Py	3
						LT	GN		ARG	3I		
116.52	117.18	0.66	GRD	MG	moderately potassic granodiorite overprinting weakly argillic and trace propylitic alteration.							
						MD	PK		POT	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
117.18	118.00	0.82	VEN	MG	Gouged, brecciated, weakly argillic , trace propylitic granodiorite containining pyrite bearing, rhodochrosite infilled, quartz veins. Quartz veins are locally offset by fractures and brecciation. Disseminated pyrite is observed in veins where rhodochrosite partially infills and brecciates pyrite bearing vein.							
						LT	BG	BX	ARG	2I	Py	3
						LT	GN		PRO	1I		
118.00	118.20	0.20	GRD	MG	rubbly interval of trace propylitic granodiorite overprinted by weak argillic alteration. Trace, disseminated pyrite is locally observed within dark grey, gouge seams in rubbly interval.							
						LT	GN		ARG	2I		
						LT	BG		PRO	1I		
118.20	118.77	0.57	GRD	MG	gouged, brecciated , weakly argillic, trace propylitic granodiorite interval.							
118.77	119.39	0.62	GRD	MG	weakly argillic, trace propylitic, competent, granodiorite interval							
119.39	120.33	0.94	GRD	MG	fractured, rubbly interval of weakly argillic, trace propylitic granodiorite.							
120.33	121.40	1.07	BXA	MG	gouged, brecciated, weakly argillic, trace propylitic granodiorite interval. Trace, blebby and disseminated pyrite occur within dark grey, fine grained gouged seams and within 2-4 mm, fractured, calcite and ankerite infilled quartz veins.							
121.40	125.20	3.80	GRD	MG	gouged, brecciated, moderately argillic, weakly potassic granodiorite interval. Local rubbly zones occur from 124-124.40m. Increased potassic alteration occurs at 125m , proximal to polymetallic vein. Trace disseminated pyrite is locally observed in dark grey, gouged seam @ 123.50m.							
125.20	125.41	0.21	VEN	FG	polymetallic quartz vein containing semi massive sphalerite, pyrite and arseno pyrite. Sphalerite appears to interstitially surround semi massive pyrite and arseno pyrite. Trace, blebby galena is also observed in polymetallic vein. Minor ankerite and calcite infill is locally observed in vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY				Ak	1
											Sp	10
											Py	15
											Gn	5
											As	8
125.41	126.35	0.94	VEN	FG	rubbly,gouged brecciated , weakly propylitic granodiorite containting semi massive , disseminated pyrite in rubbly zones and within fractured, rhodochrosite infilled, quartz veins.							
						MD	GY	BX				
						LT	GN	RB	PRO	2I	Py	8
126.35	127.25	0.90	GRD	MG	weakly argillic, trace potassic granodiorite interval							
127.25	130.27	3.02	GRD	MG	weakly argillic, trace propylitic granodiorite interval with local rubbly, gouged, brecciated zones. Disseminated pyrite is locally observed within rubbly zones and in dark grey, fine grained veinlets and gouged seams.							
						LT	GN	RB	ARG	2I		
						LT	BG	BX	PRO	1I	Py	4
130.27	132.00	1.73	GRD	MG	rubbly , faulted interval of moderately argillic, trace potassic granodiorite.							
132.00	133.83	1.83	GRD	MG	moderately argillic, trace potassic granodiorite interval with local gouged, brecciated zones.							
133.83	134.20	0.37	VEN	MG	weakly propylitic granodiorite hosting a polymetallic vein. Granodiorite interval appears gouged and brecciated, polymetallic vein is located along a soft, grey gougy seam (i.e. 134m). Polymetallic vein contains semi massive galena, arsenopyrite, blebby pyrite and sphalerite.smaller,striated galena bleb are observd in vein section (or exsolved lamellae (?)).Ankerite appears to partially infill quartz in vein zone.							
						MD	GN		PRO	2I	Py	5
						MD	GY				Ak	4
											As	7
											Sp	6
											Gn	8

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
134.20	137.16	2.96	GRD	MG	weakly potassic, argillic granodiorite with local zones of gougy clay rich seams, gouge and shear brecciation (i.e. 137.10m; shear brecciation observed proximal to rubbly, faulted interval. trace, 1-3 mm, pyrite bearing , sheared veinlets are observed on interval							
						LT	PK		ARG	2I		
						LT	BG		POT	2I	Py	2
137.16	138.68	1.52	FLR	MG	rubbly interval of weakly potassic, argillic granodiorite (fault(?))							
						LT	PK	RB	ARG	2I		
						LT	BG		POT	2I		
138.68	140.37	1.69	FLR	MG	rubbly interval of trace potasic, trace argillic granodiorite. (fault?).							
140.37	142.00	1.63	FLR	MG	fractured, rubbly interval of weakly argillic, trace potassic granodiorite.							
						MD	BG		ARG	1I		
						LT	PK		POT	1I		
142.00	147.33	5.33	FLR	MG	Weakly propylitic, argillic granodiorite with local gouged, rubbly and brecciated zones (interval is more competent than previous faulted interval). Blebby and disseminated pyrite is locally observed along fracture surfaces in rubbly zones, within dark grey, gouge seams and sporadically observed in altered granodiorite zones. Small rubbly zones occur at 145.59, 146-146.91m.							
						LT	BG	RB	ARG	2I	Py	2
						LT	GN		PRO	2I	Py	2
147.33	148.00	0.67	GRD	MG	trace argillic, propylitic granodiorite interval containting 1-2 mm, dark, fine grained veinlets.							
						LT	BG		ARG	2I		
						LT	GN		PRO	1I		
148.00	149.09	1.09	GRD	MG	weakly potassic, argillic granodiorite interval							
						MD	BG		POT	2I		
						LT	PK		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
149.09	149.35	0.26	VEN	MG	polymetallic vein hosted in weakly phyllic granodiorit (weakly silicified, disseminated pyrite and basal cleavage muscovite grains observed) containing semi massive pyrite, trace sphalerite galena and arseno pyrite. A 6mm, rhodocrosite vein surrounds polymetallic quartz vein. Ankerite appears to locally brecciate a dark smoky quartz vein that runs parallel to rhodocrosite and polymetallic quartz vein. Trace blackjack sphalerite is also observed wihtin rhodocrosite vein.							
						MD	GY				Py	6
						LT	GY		PHC	1I	Gn	4
											Rh	6
											As	3
											Py	3
149.35	152.50	3.15	GRD	MG	relatively unalterd granodiorit with intermittent zones of weakl potassic, argillic alteration and local fracture zones. Trace 1-2mm, dark , fine graind bands sometimes containing trace disseminatd pyrite , locally offset by calcite infilled veinlets and fracturs are locally observed (i.e. 151m). Quartz/carbonitic stringer vein zone is present from 152.18-152.50m (no mineralization obsrved).							
						LT	PK		PRO	1I		
						LT	GY		POT	1I		
152.50	158.80	6.30	GRD	MG	relatively unaltered granodiorite interval with intermittent (no larger than 10cm) zones of trace potassic, argillic alteration and sections of weak propylitic alteration. At 156.29-156.44m,three, 1-2 mm, pyrite bearing, dark grey veinlets are observed in trace potassic, argillic section. Trace, 1-2 mm, calcite veinlets and calcite infilled fractures also occur in interval. Small rubbly section of trace argillic altered granodiorite is observed from 157-157.28m. Some calcite veinlets crosscut through sub-mm pyrite bearing veinlets. Dark red hematitic oxidation is locally observed along join surfaces.							
						MD	GY		ARG	1I		
						LT	BG		POT	1I	Py	2
						LT	PK		PRO	1I		
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
158.80	159.20	0.40	GRD	MG	weakly potassic, argillic and trace propylitic granodiorite interval.							
						MD	BG		POT	2I		
						LT	PK		ARG	1I		
159.20	160.00	0.80	GRD	MG	relatively unaltered granodiorite interval (trace chlorite clasts and k-spar)(trace propylitic/potassic(?)). Trace 1-2 mm carboate veins sporadically occur on interval.							
						MD	GN		POT	1I		
						LT	PK		PRO	1I		
160.00	161.47	1.47	GRD	MG	weakly potassic, weakly argillic graodiorite with local zones of trace propylitic, phyllic alteration. (phyllic alteration proximal to stringer vein zone). Trace 2-3 mm, dark grey , pyrite bearing veinlets surrounded by milky quartz veins are locally observed in interval .							
						MD	BG		ARG	2I		
						LT	PK		POT	1I	Py	2
						LT	GN		PRO	1I		
									PHC	1I		
161.47	162.63	1.16	GRD	MG	weakly argillic, trace propylitic, trace phyllic granodiorite interval containting polymetallic stringer veins which are locally brecciated and partially infilled by calcite. Veins are ~40 degrees tca and contain blebby pyrit, arsenopyrite and trace galena crystals. Pyrite and arsenopyrite occur predominantly in dark grey, fine grained vein that are partially infilled by calcite. Trace pyrite blebs also occur within grd host rock.							
						LT	GN		ARG	2I	Ca	4
						LT	BG		PRO	1I	As	4
						DK	GY				Sp	2
											Py	5
162.63	163.21	0.58	GRD	MG	weakly argillic, potassic granodiorite interval containing 1-2 mm, pyrite bearing stringer veinlets.							
163.21	164.30	1.09	GRD	MG	weakly argillic, trace potassic, trace propylitic granodiorite interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
164.30	166.20	1.90	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak argillic alteration. Trace 1-2 mm, pyrite bearing, dark grey , fine grained veinlets are locally observed throughout grd interval.							
166.20	167.55	1.35	GRD	MG	fractured, rubbly interval of trace potassic, trace propylitic granodiorite.							
167.55	168.86	1.31	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weakly argillic alteration overprinting trace potassic, propylitic alteration. Trace, 1-2 mm, dark grey, fine grained veinlets contain minor disseminated pyrite.							
						MD	BG		PRO	1I		
						LT	PK		ARG	2I		
						LT	GN		POT	1I	Py	2
168.86	169.80	0.94	VEN	MG	moderately argillic, weakly propylitic granodiorite interval containin 2-4mm polymetallic vuggy quartz veins. Blebby pyrite is observed in quartz vein adjacent to wilky quartz vuggy vein. Trace galena blebs are contained within vuggy milky quartz vein. Vuggy vein contains sub-mm, dark grey veinlets located at the vuggy vein boundaries. Increased propylitic and trace phyllic alteration is locally observed at the polymetallic vein zones. Light pink, rhodochrote partiallyinfilling polymetallic vein is observed in rubbly zone at 169.20m (vein fragment can be identified here).							
						MD	BG		ARG	2I	Rh	3
						MD	GN		PHC	1I	Py	5
						LT	GN		PRO	2I	Gn	3
169.80	171.58	1.78	GRD	MG	weakly argillic, propylitic and tace potassic granodiorite interval containting 1-2 mm, stringer veins (30 degrees TCA). Veins containt trace, disseminated pyrite and are partially infilled by calcite.							
						LT	GN		POT	1I	Py	3
						LT	BG		ARG	2I		
						LT	PK		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
171.58	173.90	2.32	GRD	MG	trace potassic, trace propylitic granodiorite with small, intermittent zones of weakly potassic, argillic alteration (~ 5 cm). 1-3mm, stringer veins (45 degrees TCA), partially infilled by calcite , contain trace disseminated pyrite.							
						LT	BG		PRO	1I	Py	2
						LT	PK		POT	1I		
						LT	GN					
173.90	174.22	0.32	GRD	MG	weakly argillic, trace potassic, propylitic graodiorite interval. Fracturing and small light grey gouge seams are observed proximal to rubbly vein zone							
						LT	PK		ARG	2I		
						LT	BG		PRO	1I		
						LT	GN		POT	1I		
174.22	174.58	0.36	VEN	MG	Rubbly, brecciated, polymetallic vein zone containting blebby pyrite, trace arseno pyrite and galena. Pyrite is mostly contained within dark grey, fine grained vein breccia matrix. Sub-angular, ankerite and quartz inclusions are observed within breccia vein zone. Alteration is weakly propylitic, trace phyllic near the contact with breccia vein zone.							
						MD	GY	RB	PHC	1I		
						LT	GN		PRO	2I		
						LT	PK					
174.58	174.82	0.24	GRD	MG	weakly argillic alteration in granodiorite overprinting trace phyllic alteration. Trace propylitic alteration occurs @ 174.80m							
						LT	BG		ARG	2I		
						LT	PK		PHC	1I		
174.82	174.90	0.08	VEN	MG	rubbly zone containting polymetallic vein fragments. Vein fragments contain blebby pyrite, trace arsenopyrite and trace galena. Sub-angular, 2-4 mm, ankerite brecciated clasts are contained within polymetallic, rubbly zone. (rubbly vein zone similar to vein zone at 174.22m but fragments are sub-rounded ; cchewed up fragments from drill (cave(?))							
						MD	GY				Ak	4
											Gn	1
											Py	4
											As	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
174.90	180.57	5.67	GRD	MG	Trace potassic, trace propylitic granodiorite interval containing a 5 degrees TCA, calcite/ankerite infilled, brecciated quartz vein. A 2 cm, weakly potassic, argillic alteration halo is observed @ 177.40-177.80m. Thin sub-mm, black magnetic bands are locally observed in granodiorite interval @ 178.85m. Thin , 1-2 mm, dark grey, pyrite bearing veinlets are also present on inteval; blebby pyrite can be seen on vein fractured surface @ 178.31m.							
						LT	PK		PRO	1I	Py	4
						LT	GN		POT	1I		
180.57	180.85	0.28	GRD	MG	weakly argillic, trace potassic, propylitic granodiorite interval containting sub mm, dark grey veinlets and carbonate infilled veinlets.							
180.85	181.72	0.87	GRD	MG	weakly phyllic alteration overprinting a weak argillic and trace potassic alteration. Interval is moderately silicified and blebby pyrite is locally observed within grd. Calcite infilling fracture surfaces and sub-mm veinlets is locally observed.							
181.72	181.96	0.24	VEN	MG	polymetallic vein and brecci zone hosted in weak argillic, trace propylitic alteration overprinting by weakly phyllic alteration (blebby pyrite locally observed in grd and interval appears silicified, basal cleavage muscovit crystals are also locally observed). Semi massive, galena, pyrite and blebby arsenopyrite is observed in vein zone. Trace, honey brown sphalerite predominantly ocurs in semi massive galena vein. Dark grey, fine grained material containting semi massive pyrite appears to brecciate quartz vein locally. Trace ankerite and calcite vein infill is observed.							
						MD	GY				As	5
											Py	8
											Ak	2
											Gn	8
											Sp	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
181.96	182.35	0.39	VEN	MG	weakly phyllic granodiorite containting polymetallic veins (30 degrees TCA). Veins contain semi massive galena, blebby pyrite spatially associated with sphalerite and trace arsenopyrite. Honey brown sphalerite is observed in galena vein whereas darker sphalerite (blackjack) is observed with pyrite. Galena crystals appear striated (or exsolved(?) exsolution lamellae(?); rapid cooling leading to exsolving of two cations within galena). Trace calcite and ankerite inclusions in vein zone are locally observed and occur as interstitial infill.							
						LT	GY		PHC	2I	Gn	6
						LT	BG				Ak	2
											As	3
											Sp	5
											Py	5
182.35	182.66	0.31	VEN	MG	polymetallic vein zone in weakly phyllic granodiorite (vein breccia(?), disseminated pyrite, galena and sphalerite are locally observed within grd, ankerite calcite and quartz clasts occur within grd brecciz zone). A soft, light grey brecciated seam containting fine grained pyrite occurs at 182.50m. Polymetallic vein contains semi massive galena, sphalerite, pyrite and trace arseno pyrite (vein is comprised of 2 mm bands of galena, sphalerite, pyrite-arsenopyrite. Ankerite appears to partially infill a dark, fine grained, pyrite bearing band at the vein boundaries.							
						LT	GY	BX	PHC	2I	As	3
											Py	4
											Ak	2
											Sp	4
											Gn	5
182.66	183.58	0.92	GRD	MG	trace propylitic granodiorite overprinted by weak argillic alteration. @ 184.44, a quartz vein containting blebby pyrite and trace sub-mm blackjack sphalerite is observed. Interval contains 1-2 mm, calcite infilled veinlets.							
						LT	BG		PRO	1I	Sp	2
						LT	GN		ARG	2I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
183.58	187.55	3.97	GRD	MG	trace potassic, trace propyliti granodiorite interval containting 1 - 30 cm, black, fine grained polymictic inclusions. Trae 1 -2 mm, carbonate infilled quartz veins sometimes containting trace pyrite.							
187.55	190.00	2.45	GRD	MG	trace potassic, propylitic granodiorite with trace argillic overprint (unit is similar to previous interval but has increased argillic alteratoin).							
190.00	193.95	3.95	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of weak argillic, trace phyllic alteration halos around 2mm-1cm stringer veins. Stringer veins are partially replaced by rhodocrosite and contain sub-mm, black, veinlets. Stringer veins contain trace disseminated pyrite. Weakly argillic,phyllic alteration is observed proximal to vein zone contact (193.85-193.95m)							
						MD	BG		ARG	2I		
						LT	GN		PHC	1I		
						LT	PK		PRO	1I		
									POT	1I		
193.95	194.26	0.31	GRD	MG	weakly argillic, trace propylitic and phyllic granodiorite containing polymetallic quartz veins. Gouged, lightgrey, brecciated seam observed near vein zone @ 194.10m. Quartz veins contain blebby pyrite, trace sphalerite and galena. Vein near gouged brecciated seam is vuggy and partially infilled by light pink rhodocrosite and tan, ankerite							
						LT	GN		PHC	1I	Py	4
						LT	BG		ARG	2I	Sp	1
											Rh	2
											Ak	1
											Gn	2
194.26	197.00	2.74	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with intermittent weak argillic, trace propylitic alteration halos near stringer vein zones. Stringer veins are 2-5 mm, contain trace pyrite and sphalerite. 2-3mm,ankerite veins parallel to pyrite bearing veins are locally observed.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
197.00	200.15	3.15	GRD	MG	trace potassic, argillic granodiorite interval with local weakly argillic alteratin halos near stringer vein zones. Stringer veins (50 degrees TCA) contain trace pyrite and sphalerite and are partially infilled by carbonates.							
200.15	201.20	1.05	VEN	MG	trace potassic altered granodiorite with weak argillic overprint. Alteration in vein zone is weakly propylitic, trace argillic @ 200.77m. Vein at 200.82m, contains blebby pyrite, trace arsenopyrite, galena, sphalerite and is partially infilled by tan, ankerite. Calcite and ankerite alsoappear to brecciate host grd and vein zone locally. Vein zone at 201, contains semi massive, someties striated galena with interstitial rhodocrosite located adjacent and witin galena rich vein. Disseminated pyrite is observed thourhgout grd interval in vein zone							
						LT	GN		POT	1I	As	3
						LT	PK		ARG	2I	Gn	6
									PRO	1I	Ak	3
											Py	5
											Sp	3
											Py	3
201.20	213.87	12.67	GRD	MG	Relatively unaltered grd with trace propylitic, potassic, argillic alteration zones. Some sections of grd appear slightlymore argillic but otherwise remain relatively unaltered. Weak propylitic alteration halos are observed in2-4 mm, pyrite bearing quartz veinlets. Black, fine grained magnetite bands are locally observed on interval as well							
									PRO	2I		
									PRO	1I		
									ARG	1I		
									POT	1I		
213.87	214.51	0.64	GRD	MG	gouged, brecciated, weakly argillic, trace propylitic granodiorite interval. Trace disseinated pyrite occurs within grd and within light grey, soft, gouged seams.							
						LT	BG					
						LT	GY					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
214.51	216.00	1.49	GRD	MG	fractured interval of trace potassic, trace propylitic relatively unaltered granodiorite. Trace 1-2 mm, quartz veinlet containing trace disseminated pyriteare locally observed.							
216.00	216.50	0.50	GRD	MG	moderately argillic, weakly potassic, fractured granodiorite interval							
216.50	226.67	10.17	GRD	MG	trace potasic, trace argillic, relatively unaltered granodiorite interval with locally fractured zones. 1-8cm, medium pink, aplite dyke intrusions occur from 219.60-221m. (aplite dykes not observed in previous intervals. 3mm-1 cm,pyrite bearing , carbonate infilled quartz veins crosscutting and locally offsetting aplite dyke intrusions are locally observed.							
226.67	227.40	0.73	GRD	MG	gouged, sheared, brecciated, moderately argillic, trace propylitic granodiorite containing polymetallic ,sheared veins. Disseminated pyrite, trace arsenopyrite, trace sphalerite areobserved in carbonate infilled quartz veins. Pyrite is also observed in dark grey,soft grained, sheared bands.							
						LT	GN	SH	ARG	3I		
						LT	BG	FR	PRO	1I		
								BX				
227.40	233.63	6.23	GRD	MG	trace potassic, relatively unaltered granodiorite with local fractured zones(227.40-229.11m). Trace 1mm, pyrite bearing veinlets,and 1-2 m,carbonate veinlets are locally observed.							
						LT	PK		POT	1I	Py	2
233.63	234.70	1.07	GRD	MG	weakly potassic , argillic granodiorite interval .							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
234.70	235.25	0.55	VEN	MG	trace phyllic alteration overprinting weakly propylitic granodiorite. Interval is moderately silicified , contains disseminated pyrite in host grd. Interval contains soft,gouged brecciated seams containting disseminated pyrite as well. Vein zone at 234.96m is comprised of blebby galena in quartz vein, milky quartz vein surrounding and partially infilling and brecciating galena bearing quartz vein. Rhodocrosite and ankerite brecciate,partially replace and are interstitially foundin polymetallic quartz vein. Carbonates and quartz appear to brecciate host grd. Blebby pyrite, trace arsenopyrite are observed in breciated vein sections. Honey brown sphalerite is mostly restricted to galena rich areas.							
						MD	GN				Rh	5
						LT	GN	BX			Ak	4
											Gn	5
											As	3
											Py	5
235.25	236.75	1.50	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite.							
236.75	240.16	3.41	GRD	MG	trace potassic, trace propylitic, rubbly and fractured, relatively unaltered granodiorite interval (fault related(?)).							
240.16	241.23	1.07	GRD	MG	more competent interval of trace potassic, trace propylitic, relatively unaltered granodiorite interval.							
241.23	243.17	1.94	GRD	MG	trace potassic,relatively unaltered granodiorite with trace phyllic,propylitic alteration halos observed near polymetallic vein zones. 1-3 cm, veins containing disseminated pyrite, trace sphalerite and galena are partially infilled and brecciated by rhodocrosite.1 mm, black fine grained bands within carbonate infilled veins are also observed (coloform bands(?)). Gouged,brecciated seam occurs at the contant between relatively unaltered grd and polymetallic vein zone. Disseminated pyrite is also observed within alteration halo zones.							
						MD	PK		PHC	2I	Py	2
						LT	PK		PRO	2I	Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									POT	1I	Ak	5
											Ca	5
243.17	244.65	1.48	GRD	MG	trace potassic, relatively unaltered granodiorite interval							
						LT	PK		POT	1I		
244.65	247.30	2.65	GRD	MG	fractured, relatively unaltered granodiorite interval (trace potasic and trace propylitic local alteredtedzones). 4mm, calcite veinlet (~20 degree TCA) is observed on interval.							
247.30	254.20	6.90	GRD	MG	relatively unaltered granodiorite interval (trace potassic , trace propylitic(?)) with intermittent zones of weakly propylitic, argillic alteration (mostly as alteration halos near stringer vein zone). Vein (50 degrees TCA) , contain disseminated pyrite, are partially infilled by calcite and ankerite and locally brecciate host grd. Light pink aplite dyke intrusion is observed at 250.04m. Disseminated pyrite also occurs in sub-mm, dark, fine grained bands.							
						LT	GN		POT	1I		
						LT	PK		PRO	2I		
254.20	255.46	1.26	GRD	MG	weakly propylitic alteration overprinting a weak argillic alteration in granodiorite. Section appears weakly silicified and disseminated pyrite and pyrite blebs are observed throughout grd host. 2mm-1 cm, carbonateinfilled veins, containting pyrite and brecciating host grd are locally observed. Ankerite and calcite appear to brecciate pyrite bearing quartz veins as well.							
						MD	GN		PHC	1I	Py	3
						LT	GN		PRO	2I	Ak	4
									ARG	2I		
255.46	266.54	11.08	GRD	MG	relatively unaltered granodiorite interval with smalllocal zones of trace propylitic alteration. Trace 1-2 mm, quartz veinlets containing disseminated pyrite are sporadically observed on interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
266.54	267.74	1.20	VEN	MG	trace potassic granodiorite with weakly to moderate propylitic alteration halos near quartz stringer veins. Trace phyllic alteration occurs proximal to grd, vein breccia contact (gouged, brecciated contact). Stringer veins are partially infilled by calcite, and contain blebby pyrite, galena and tracce arsenopyrite (mostly on veins proximalto vein brecia zone).							
						MD	GN		PHC	1I	Py	4
						LT	PK		PRO	2I	Gn	2
						LT	BG		POT	1I	As	3
267.74	268.94	1.20	BXA	MG	dark grey, polymictic,polymetallic, moderately silicified ven breccia zone. Clasts observed in breccia zone include, pyrite bearing, chloritized clasts, light grey, irregular, cilified clasts, propylitic altered grd host, ankerite, rhodocrosite, dark grey clasts and calcite. Trace, galena, arsenopyrite, sphalerite and pyrite are observed in vein breccia zone (more abundant in lower vein breccia zone where rhodocrosite and ankerite are more prominent). Ankerite appears to brecciate dark grey brecciated clasts (i.e. 269.63m). Rhodocrosite is observed as breccia clasts and partiallyinfilling polymetallic vein zones. Veins appear to be sheared and locally crosscut by calcite infilled fractures.							
						MD	BG		SIL	3I	Rh	6
						MD	GY		PRO	2I	Gn	4
						LT	GY				As	4
											Py	6
											Sp	4
											Ak	4
268.94	270.50	1.56	GRD	MG	locally gouged, moderately propylitic, weakly argillic granodiorite interval containing trace 1 cm, pyrite bearing quartz vein. A greenish, brown, fine grained dyke(?) inclusion occurs in grd interval.							
						MD	BG		ARG	2I		
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
270.50	270.90	0.40	VEN	MG	2-4mm, weakly sheared, polymetallic, stringer vein zone in moderate propylitic granodiorite, overprinted by trace phyllic alteration(?) (appears weaklysilicified, contains disseminated pyrite and basal cleavage crystals are observed (muscovite(?)). Stringer veins are 40 degrees TCA and contain blebby pyrite, trace galena, arseno pyrite and sub-mm sphalerite. Polymetallic veins appear to brecciate host grd and are infilled and brecciated by ankerite and light pink, rhodocrosite infill.							
						MD	GN		PRO	3I	Py	4
						LT	GN		PHC	1I	Gn	2
											Ak	2
											Rh	2
											As	2
											Sp	1
270.90	271.52	0.62	GRD	MG	weakly argillic granodiorite overprinting a weak propylitic alteration.							
271.52	274.96	3.44	GRD	MG	relatively unaltered granodiorite with intermitten zones of trace potassic alteration.							
274.96	277.90	2.94	GRD	MG	trace potassic granodiorite with intermittent zones of weak argillic, potassic and weak propylitic trace phyllic alteration (mostly as alteration halos near stringer veins). Stringer veins are ~ 40 degrees TCA and contain blebby pyrite and trace , sub-mm sphalerite.							
						MD	GN		PRO	2I		
						LT	PK		POT	1I	Py	3
									PHC	1I		
277.90	280.50	2.60	GRD	MG	weakly potassic, weakly argillic granodiorite with intermittent zones of weak propylitic and trace argillic alteration (mostly as alteration halos in stringer vein zones) . Stringers veins are ` 60 degrees TCA and containt bleby pyrite, galena,honey brown sphalerite and trace arseno pyrite (i.e. 278.45m).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
280.50	281.80	1.30	GRD	MG	weakly argillic, weakly propylitic granodiorite containting polymetallic stringer veins. Polymetallic veins contain trace blebby pyrite, trace galena, sphalerite. Light grey,gouged brecciated seam is observed @ 281m. Ankerite appears to locally brecciate and infill pyrite bearing veins. Poymetallic veins alsocontain 1 mm, black , fine grained dendritic magnetite bands.							
						MD	GN		PRO	2I	Ak	5
						LT	GN		ARG	2I	Py	4
											Sp	2
											Gn	1
281.80	282.02	0.22	VEN	MG	polymetallic vein containting semi massive galena, pyrite, sphalerite and trace arsenopyrite. Rhodocrosite interstitiallyinfills polymetallic vein and locally brecciates pyrite bearing quartz veins. (rhodocrosite is spatially associated with honey brown sphalerite and galena. Fracturing is observed in polymetallic vein zone.							
						MD	GY				Ak	5
											Gn	6
											Sp	5
											As	3
											Py	5
282.02	283.40	1.38	GRD	MG	weakly argillic, weakly propylitic granodiorite interval containing thin 1-2mm, dark fine grained pyrite bearing veinlets. A fractured, brecciated granodiorite section proximal to polymetallic vein contact is observed. Calcite infill fractures surfaces which locally crosscut through quartz veinlets.							
283.40	283.53	0.13	VEN	MG	polymetallic vein zone containing semi massive galena, pyrite, honey brown sphaerite and trace arsenopyrite blebs. Trace,light pink, rhodocrosite partially infills polymetallic quartz vein. From 283.46-286.53 vein locally brecciates host grd (less pyrite, galena and sphalerite observed,mostly occur as disseminations within vein breccia section. Calcite infilled fractures crosscut through vein breccia zone.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
283.53	284.99	1.46	GRD	MG	weakly argillic, trace propylitic granodiorite with intermittent zones of weak propylitic alteration. 1-3mm, stringer quartz veins containting blebby pyrite, trace galena and sphaerite, partially replaced by carbonate (light pink rhodocrosite and calcite) are locally observed. Vein @ 284m,contains bright pink/orange, soft, interstitial infill in quartz vein.							
						MD	GN		PRO	2I	Py	4
						MD	BG				Gn	2
						LT	GN		ARG	2I	Rh	3
											Sp	2
284.99	292.80	7.81	GRD	MG	trace potassic, relatively unaltered granodiorite with weak argillic, propylitic alteration halos in pyrite bearing, stringer quartz vein zone.							
						LT	GN		POT	1I	Py	3
						LT	PK		PRO	2I		
						LT	BG					
292.80	297.00	4.20	GRD	MG	locally fractured, trace potassic granodiorite with intermittent zones of moderate to strong propylitic alteration. Pyrite blebs and sub-mm sphalerite are observed in 4mm stringer vein within propylitic altered granodiorite zone at 293m. Vein contains bright pink/orange inclusions at vein boundaries. Calcite infililng fractures iscommonly observed. Dark red hematite alteration is commonly observed in fracture and joint surfaces.							
						LT	PK		PRO	3I	Sp	2
						DK	GN		POT	1I	Py	4
297.00	302.68	5.68	GRD	MG	similar to previous interval but less fractured. Trace potassic granodiorite with intermittent zones of moderate to strongly propylitic alteration. Pyrite, trace sphalerite are observed in carbonate infilled, quartz veins in propylitic granodiorite zones.							
						LT	PK		POT	1I	Py	4
						DK	GN		PRO	3I	Sp	2
302.68	304.80	2.12	GRD	MG	moderately propylitic granodiorite with intermittent zones of weak potassic, argillic alteration. Blebby pyrite is observed in arbonate infilled, quartz veins in propylitic altered grd. Calcite infiled veins locally brecciate host grd							
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG		POT	1I	Py	2
						LT	PK		ARG	2I		
304.80	309.27	4.47	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak propylitic,argillic alteration. Trace, calcite and rhodocrosite infilled quartz vein containting trace pyrite are locally observed(i.e. 308.55m).1-3 mm, dark, pyrite bearing bands are commonly observed in least altered grd zones							
309.27	310.10	0.83	GRD	MG	rubbly interval of weakly potassic, trace propylitic granodiorite. Dark red, hematite oxidation is commonly observed in rubbly interval.							
310.10	311.96	1.86	GRD	MG	trace potassic, trace propylitic granodiorite interval containing trace 1-2mm,dark , pyrite bearing bands. Dark red hematite oxidation occurs along fractures, joint surfaces.							
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
311.96	313.34	1.38	GRD	MG	weakly propylitic,trace phyllic granodiorite with intermittent zones of trace potassic, weakly argillic alteration. Blebby pyrite,trace galena and sphalerite are observed in calcite infilled, quartz veins. Veins are 40 degrees TCA.							
313.34	313.80	0.46	GRD	MG	gouged, brecciated vein section in trace propylitic, argillic granodiorite. Blebby pyrite, sphalerite, galena and trace arsenopyrite are observed in vein zone @ 313.65m ankerite and rodhcrosite inclusions within polymetallic quartz veins are observed. Ankerite appears to locally brecciate host granodiorite. Trace phyllic alteration observed in polymetallic vein zone (disseminate pyrite in grd , increased quartz clasts and some basal cleavage (muscovite(?) are observed).							
						MD	GN		PRO	2I	Gn	4
						LT	BG		PHC	1I	Sp	3
									ARG	1I	As	2
											Py	6
313.80	317.81	4.01	GRD	MG	trace potassic granodiorite interval containting 1-2 mm, black, fine grained, pyrite bearing veinlets. Weak propylitic, argillic alteration halo occur in pyrite bearing vein zones.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	2I	Py	2
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.24	1.24	CAS	---	--	casing
1.24	3.20	1.96	OVB	OVB	--	ovb
3.20	6.00	2.80	GRD	GRD	MG	gouged, clay rich interval of weakly argillic trace propylitic granodioritte. Clay brownish oxidation is observed in rubbly zones and along fracture surfaces
6.00	10.85	4.85	GRD	GRD	MG	trace potassic, propylitic granodiorite interval with local rubbly, fractured sections. Brown clay oxidation and reddish hematitic oxidation occurs along fractures and joint surfaces.
10.85	12.19	1.34	GRD	GRD	MG	Trace potassic, proplitic, locally oxidized granodiorite interval. Clay and hematitic oxidation occur along fractures and joint surfaces. (Unit is relativelt more competent than previous)
12.19	13.72	1.53	GRD	GRD	FG	fractured, rubbly, trace potassic, propyliti granodiorite interval exhibiting weak to moderate oxidation within grd unit. Clay and reddish hematite oxidation along fracture/joint surfaces are commonly observed
13.72	15.54	1.82	GRD	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of trace argillic alteration. Interval exhibits increased hematitic oxidation throughout.
15.54	17.45	1.91	GRD	GRD	MG	rubbly, fractured interval of trace potassic and propylitic granodiorite. Clay oxidation appear more prominent than hematitic oxidation seen in previous interval
17.45	19.11	1.66	GRD	GRD	MG	relativvely competent interval of trace potassic, propylitic granodiorite. Light brown, clay oxidation is observed along fractures/joint surfaces
19.11	21.85	2.74	GRD	GRDA	MG	moderate argillic, weakly propylitic granodiorite interval witih local fractured zones. Oxidation halos along frature surfaces , pervasively intruding into grd are locally observed. Trace, pyrite bearing, 1-2 mm quartz veinlets are present in interval. (some vein fragments within fractured zones).
21.85	22.50	0.65	VEN	GRDA	MG	Moderately propylitic , weakly argillic granodiorite interval containting 1-2 cm, pyrite bearing quartz veins (~20 degrees TCA). A gouged, breccciated seam proximal to vein zone is locally observed containting light brown, clay rich oxidation. Blebby pyrite is hosted in dark grey smoky quartz veins which appear to be partially infilled by calcite and brecciate quartz vein locally. Trace, sub mm Galena (?) is also observed within veins.
22.50	23.50	1.00	GRD	GRDA	MG	moderately argillic, trace propyliti granodiorite with small section of argillic, tweakly potassic granodiorite. Oxidation halo along frature surfaces and clay rich oxidation along join surface is commonly observed.
23.50	24.30	0.80	GRD	GRDA	MG	Trace propylitic, potassic granodiorite interval with clay oxidation observed along fractured and joint surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
24.30	26.85	2.55	GRD	GRDA	MG	moderately argillic, trace propylitic granodiorite interval with local fractured, gouged zones (i.e. 25m). Oxidation along fracture surfaces and calcite veinlet is locally observed. @ 25 m, a gouged, pyrite bearing vein is observed. Disseminated and blebby pyrite occur in gouged vein zone (vein itself is ~ 1-2 cm). Trace blebby, dissemianted pyrite also occurs within grd host rock. Small, 2-4 mm, quartz veins that microbrecciate host grd sometimes containt trace disseminated pyrite.
26.85	28.74	1.89	GRD	GRDA	MG	gouged, brecciated, moderate argillic, trace propylitic granodiorite interval. Calcite infills oxidized fracture surfaces locally. Trace, 2-4 mm milky quartz veins locally brecciating host grd interval occurs @ 27.43m. Trace disseminated pyrite is also observed within grd host rock. Interval is gouged and brecciated as quartz feldspar porphyry dyke contact is approached.
28.74	29.42	0.68	GRD	GRDA	MG	gouged, brecciated , moderately argillic, trace propylitic granodiorite interval. Faulted contact between altered granodiorite and quartz feldspar porphyry dyke. Clay oxidation is commonly observed. Gouged seams contains entrained clasts (faulted contact).
29.42	30.73	1.31	QFP	DYK	MG	quartz feldspar porphyry dyke interval with local light grey oxidized zones. Trace 1-3 mm, oxidizied quartz veinlets are observed
30.73	31.60	0.87	QFP	DYK	MG	quartz feldspar porphyry dyke interval with 1-3 mm quartz veinlets. Clasts within clasts are observed in quartz feldspar porphyry matrix
31.60	32.00	0.40	QFP	DYK	MG	fractured interval of quartz feldspar porphyry dyke. Orage, light brown oxidation observed along fracture surfaces
32.00	33.08	1.08	QFP	DYK	MG	quartz feldspar porphyry dyke interval with zones of gouge brecciation and fractured, oxidized zones. Matrix grain sizes becomes finer toward grd contact .
33.08	33.53	0.45	GRD	GRD	MG	weakly potassic and argillic granodiorite interval
33.53	35.78	2.25	GRD	GRD	MG	trace propylitic, potassic granodiorite interval with local zones of weak pervasive oxidation in grd host. Trace 1-2 mm quartz veinlets containting minor hematite are observed.
35.78	37.10	1.32	GRD	GRD	MG	fractured interval of trace propylitic, potassic grnodiorite. Light brown clay and reddish hematite alteration occur along fracture/joint surfaces.
37.10	37.88	0.78	GRD	GRD	MG	trace potassic, propylitic granodiorite interval. Trace 1-2 mm quartz veins containting hematite infill are locally observed. Light brown and dark red hematitic oxidation are present in fracture/joint surfaces
37.88	38.40	0.52	GRD	GRD	MG	rubbly and fractured intervla of trace potassic, propylitic granodiorite. Light brown clay oxidation occurs in fractures/joint surfaces.
38.40	40.32	1.92	GRD	GRD	MG	competent interval of trace propylitic, potassic granodiorite. Trace, sub-mm quartz veinlets are observed in interval.
40.32	41.10	0.78	GRD	GRD	MG	fractured interval of trace propylitic, potassic granodiorite. Orange, yellow oxidation occurs along fracture surfaces.
41.10	42.06	0.96	GRD	GRD	MG	trace propylitic, potassic granodiorite with intermittent zones of orange/light brown oxidation in grd and along fractured surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
42.06	43.00	0.94	GRD	GRD	MG	trace propylitic, potassic granodiorite with intermittent zones of weakly argillic, trace propylitic grd. Oxidized, weakly argillic section contains a 3 cm, oxidized calcite vein that brecciated host grd.
43.00	43.90	0.90	GRD	GRDF	MG	fractured, gouge brecciated , weakly argillic, trace propylitic granodiorite interval. Trace pyrite blebs are locally observed on interval
43.90	44.60	0.70	GRD	GRDF	MG	rubbly, gouged and fractured interval of trace propylitic, potassic, weakly argillic granodiorite. Dark red hematitic oxidation is commonly observed in fracture surfaces.
44.60	45.25	0.65	GRD	GRDF	MG	fractured, trace argillic, propylitic , potassic granoiorite interval. mustard yello and dark red oxidation is observed along fracture surfaces.
45.25	46.30	1.05	GRD	GRDF	MG	less fractured interval of trace potassic, propylitic granoiorite. Mustard yellow and red hematitic oxidation is observed along fracture surfaces
46.30	47.24	0.94	GRD	GRDF	MG	rubbly, fractured interval of trace propylitic, potassic , trace argillic granodiorite. Light brown, mustard yellow clay oxidation is locally observed throughout interval.
47.24	47.90	0.66	GRD	GRDF	MG	fractured, oxidized interval of weak propylitic , trace argillic granodiorite. Pervasive oxidation of host grd is observed on interval.
47.90	49.10	1.20	GRD	GRDA	MG	weakly argillic, propylitic granodiorite interval . An oxidized, pyrite bearing quartz vein occurs @ 48.16m. Trace sub-mm, dark grey, bands , sometimes containing fine disseminated pyrite are also observed on interval. light brown clay and red hematitic oxidation occurs along fracture surfaces
49.10	50.10	1.00	GRD	GRDA	MG	Trace potassic, propylitic granodiorite interval. Calcite infilling fractures occurs locally .
50.10	50.48	0.38	GRD	VEIN	MG	moderately propylitic granodiorite interval and weak potassic, argillic granodiorite zone. Propylitic altered zone contains a 1 cm pyrite bearing smoky quartz vein. Milky quartz and ankerite appear to brecciated smoky quartz vein. Trace, ankerite blebs are observed in ankerite infill quartz vein. Overall vein zone appears to also brecciated host altered grd.
50.48	52.19	1.71	GRD	GRDA	MG	fractured, trace potassic, propylitic granodiorite interval. Oxidation in grd is observed @ 50.75m. Light brown, dark red, hematitic oxidation occurs along fractures and joint surfaces. Trace, 1 mm, dark, fine grained, oxidized bands occur within interval
52.19	53.00	0.81	GRD	GRDA	MG	weakly potassic, argillic granoiorite interval. Quartz, calcite infilled breccia zone is observed @ 52.54m.
53.00	53.34	0.34	GRD	GRDA	MG	trace potassic, trace propylitic grnodiorite interval. Liht brown oxidation is observed along fracture surfaces.
53.34	54.61	1.27	GRD	GRDA	MG	weakly argillic, trace potassic, trace propylitic granodiorite interval. a 1 cm, oxidized,pyrite bearing, calcite infilled quartz vein is observed @ 54.20m. Trace disseminated pyrite is observed within dark grey, fine grained lenses within grd interval. @ 53. 70, 2 1 cm pyrite bearing veins are observed. Pyrite is blebby in veins @ 53.70m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
54.61	55.38	0.77	GRD	GRDA	MG	weak propylitic, weakly argillic granodiorite interval with intermittent unaltered grd zones. Pervasive oxidation occurs within more argillic zones. Trace 1-3 mm, calcite infilled, pyrite bearing quartz veins are locally observed in grd interval.
55.38	56.21	0.83	GRD	GRDA	MG	weakly argillic, trace phyllic, propylitic ,gouge brecciated granodiorite interval (brecciation and gouged seams are more prominent proximal to vein zone. Trace disseminated pyrite is observed in grd near vein zone.
56.21	56.66	0.45	GRD	VEIN	MG	Granodiorite interval containting mineralized vein breccia and 2-4 mm, pyrite bearing veins. Breccia vein zone contains semi massive pyrite within dark, fine grained matrix which is brecciated by calcite, clear quartz and ankerite. Ankerite appears to crosscut quartz breccia zones (post stage (?)). Clear quartz, brecciated clasts also host semi massive pyrite. Trace arseno pyrite is also observed within vein breccia zone. Vein breccia is observed from 56.29-39m. From 56.39-56.66, quartz vein contain blebby pyrite and trace honey brown sphalerite grains.
56.66	57.91	1.25	GRD	GRDA	MG	trace potassic, argillic granodiorite interval. Oxidation along fractures and joint surfaces is locally observed.
57.91	58.45	0.54	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite . Interval is soft and brecciated by 2-4 mm, calcite veinlets. Reddish hematitic oxidation is locally observed in fractures/joint surfaces.
58.45	59.61	1.16	GRD	GRDA	MG	pervasively oxidized, gouged and fractured, weakly argillic, trace propylitic granodiorite interval. Disseminated pyrite is present in gouge brecciated sections.
59.61	61.23	1.62	GRD	GRDA	MG	Locally fractured and oxidized (59.61-59.85m), trace potassic, trace propylitic granodiorite interval. Interval contains 1-2 mm, dark, fine grained, strongly magnetic veinlets and irregular bands. Trace disseminated pyrite is observed throughout granodiorite interval.
61.23	64.01	2.78	GRD	GRDA	MG	weak to moderate potassic, weakly argillic granodiorite interval. Interval is locally fractured, contains chlorite, hematite slickenlines (fault related (?)) . 2 cm , light pink aplite dyke intrusion is observed @ 62.96-63.03m (35 degrees TCA).
64.01	65.53	1.52	GRD	GRDA	MG	moderately argillic, trace potassic , trace propylitic granodiorite. Gouged seams are observed from 64.90-65.53. A pyrite bearing quart vein is observed @ 64.50m. Disseminated pyrite and trace sub-mm sphalerite occur within quart vein. Ankerite vein parallel to pyrite bearing quartz vein is present in vein zone and brecciates quartz vein locally.
65.53	66.75	1.22	GRD	GRDA	MG	gouged, brecciated, fractured interval of moderately argillic, trace propylitic altered granodiorite. Pyrite,sphalerite blebs and trace galena are locally observed in 3-5 mm quart veins. Disseminated pyrite also occurs within gouge brecciated zone. (quartz vein in grd fractured fragment appears to run parallel to core axis). Minor 1-2 mm, ankerite veinlets partially infill and crosscut polymetallic quartz veins.
66.75	70.10	3.35	FLR	GRDA	MG	gouged, brecciated moderately argillic granodiorite (faulted interval (?)). Dark red hematitic oxidation is locally observed in fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
70.10	70.40	0.30	GRD	VEIN	MG	gouged, breciated, moderate argillic, trace propylitic potassic granodiorite interval.trace disseminated pyrite is locally observed in gouge brecciated zone
70.40	70.51	0.11	GRD	VEIN	MG	dark grey, gouged, brecciated vein containting disseminated pyrite.
70.51	70.80	0.29	GRD	VEIN	MG	moderately argillic, trace propylitic granodiorite interval. Calcite brecciating host grd is observed on interval.
70.80	72.06	1.26	GRD	GRD	MG	weakly propylitic, argillic, trace potassic granodiorite interval containing 2-3 mm pyrite bearing vein @ 72m. Vein contains disseminated pyrite within a black, magnetic, fine grained matrix. Calcite infilling fracture surfaces is locally observed.
72.06	74.35	2.29	GRD	GRD	MG	weakly propylitic, trace potassic granodiorite interval with locally fractured zones (73.15-74.30m).
74.35	75.28	0.93	GRD	GRD	MG	moderate argillic, trace potassic, trace phyllic granodiorite inteval exhibiting local gouged, brecciated zone @ 75.10m, proximal to vein zone. Trace disseminated pyrite is locally observed within gouge brecciated section.
75.28	75.37	0.09	VEN	GRD	FG	vein breccia zone containting disseminated pyrite within dark grey, fine grained zones and within clear quartz vein. Dark grey material appears to brecciate clear quartz vein locally.
75.37	75.76	0.39	GRD	GRD	MG	weakly propylitic, trace argillic granodiorite interval. Gouge brecciation is locally observed in interval where calcite infills, fractured, brecciated seams. Calcite infilled, pyrite bearing quartz veins are locally offset by fracturing and brecciation. Trace disseminated pyrite and sub-mm sphalerite blebs are contained within quartz veins. Veins in gouge brecciated one appear vuggy as well.
75.76	77.72	1.96	GRD	GRD	MG	fractured, rubbly, moderately potassic, weakly argillic granodiorite interval. Some fragments in rubbly interval contain 3-5 mm, pyrite bearing, rhodochrosite infilled , quartz veins.
77.72	78.54	0.82	GRD	GRD	MG	weak to moderately potassic granodiorite with intermittent zone of weakly propylitic and argillic altered granodiorite. In propylitic altered zone, a calcite vein is locally offset by fracturing. Calcite appears to infill an existing quartz vein. Trace disseminated pyrite is observed around quartz vein.
78.54	80.20	1.66	GRD	GRDF	MG	weakly to moderate argillic granodiorite overprinting trace potassic alteration. Interval is fractured and rubbly and dark red heatitite oxidation and chlorite are observed along fracture/joint surfaces. Slickenlines also occur in joint surfaces.
80.20	85.10	4.90	FLR	GRDF	MG	gouged, brecciated , rubbly interval of moderate argillic granodiorite overprinting trace potassic and propylitic alteration. Faulted interval(?). Gouged sections are light to medium grey. No visible mineralization observed on interval.
85.10	87.00	1.90	FLR	GRDF	MG	fractured, weakly argillic,weakly potassic granodiorite overprinting trace propylitic alteration. Trace dissemianted pyrite is observed in fractured fragments within 1-2 mm, dark grey, bands.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
87.00	88.05	1.05	FLR	GRDF	MG	gouged, brecciated, weakly to moderately propylitic overprinting a trace argillic alteration. Dark, grey, clayey brecciated seams contain trace disseminated pyrite.
88.05	89.20	1.15	FLR	GRDF	MG	rubbly, gougy , moderately propylitic, trace argillic granodiorite. Trace dissemianted pyrite is locally observed within rubbly zone (pyrite more notable in dark grey, gougy seams). An ankerite infilled, pyrite bearing quartz vein is observed @ 89 m Ankerite appears to brecciate clear quartz vein.
89.20	90.18	0.98	FLR	GRDF	MG	Rubbly, fractured, gouged , weakly propylitic, argillic granodiorite. Trace disseminated pyrite is observed within rubbly zone.
90.18	92.96	2.78	GRD	GRD	MG	fractured, weakly propylitic, trace potassic granodiorite interval.
92.96	93.80	0.84	GRD	GRD	MG	weakly propylitic, trace potassic granodiorite interval. Interval appears weakly silicified.
93.80	95.50	1.70	GRD	GRDA	MG	Weakly potassic, trace propylitic and argillic granodiorite interval with local zones of increased potassic alteration. A 2 mm, quartz vein containting trace pyrite blebs is observed @ 93.96m. Ankerite brecciates and infills quartz vein. Quartz vein contains fine, black, sub mm- inclusions. Quartz vein is 35 degrees TCA.
95.50	97.23	1.73	GRD	GRDA	MG	fractured interval of weakly potassic altered granodiorite overprinting trace propylitic alteration. Trace pyrite blebs are locally observed along fracture surfaces in grd inteval (fractured along, vein surface(?)).
97.23	97.82	0.59	GRD	GRDA	MG	rubbly granodiorite fragments interval. Cave (?). Fragmnts contain potasic altered and propylitic altered grd fragments.
97.82	98.52	0.70	GRD	GRDA	MG	trace propylitic, potassic. Fractured granodiorite interval. polymetallic quartz vein fragment are locally observed on interval. Calcite appears to infill and microbrecciate vein polymetallic vein surfaces. Small, ankerite fragments are also observed in rubbly interval. Polymetallic vein contains pyrite, galena and blackjack sphalerite blebs.
98.52	100.58	2.06	GRD	GRDA	MG	weakly potassic, trace propylitic granodiorite with intermittent zones of trace argillic, weakly propylitic alteration (thin 1-2 mm, milky quartz veins occur in propylitic altered grd section). Locally fractured zones are locally observed @ 98.60 and 99.60m.
100.58	101.48	0.90	GRD	GRDA	MG	weakly propylitic, trace potassic granodiorite with intermittent zones of trace potassic, weakly argillic altered granodiorite. A 2 cm, pyrite bearing quartz vein is locally observed @ 101.29 in propylitic altered granodiorite zone. Two 1 cm, quartz veins are present in propylitic altered granodiorite zone @ 101.29m. Both veins appear quartz dominant and blebby pyrite and trace sphalerite occur within one of the veins mainly. The second vein adjacent to polymetallic quartz vein contains trace sphalerite and fine grained disseminated pyrite (NOTE: pyrite and sphalerite are more abundant in first quartz vein).Vein containting trace pyrite appear partially infilled by ankerite and/or calcite.
101.48	102.19	0.71	GRD	GRDA	MG	trace propylitic, potassic granodiorite interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
102.19	102.82	0.63	GRD	GRDA	MG	fractured, weakly argillic, trace potassic and propylitic granodiorite interval. Gouged seams are observed near the polymetallic vein zone contact.
102.82	103.00	0.18	VEN	VEIN	MG	propylitic altered granodiorite containting polymetallic vein @ 102.94m. Polymetallic vein contains semi massive pyrite , trace galena blebs and honey brown sphalerite blebs. Light pink, rhodochrosite infills polymetallic vein zone. Sub-mm, black, fine grained bands occur within rhodochrosite vein zones. (note most semi massive pyrite is hosted in smoky quartz vein. Gouged seam at the grd-vein zone contact contains fine grained disseminated pyrite. Blebby pyrite also occurs in host grd. Semi massive appears to surround sphalerite and galena blebs . (individual cubic galena crystals also occurs within rhodochrosite infilled veins.
103.00	103.80	0.80	VEN	VEIN	MG	gouged, brecciated, polymetallic vein zone in weakly propylitic granodiorite. Disseminated pyrite occurs within light grey, gouged seams and within brecciated altered grd. 2-5 mm, sphalerite blebs are locally observed wtihin calcite infilled vein @ 103.63m. Ankerite inclusions are observed wtihin calcite infilled polymetallic vein and appears to infill gouged, brecciated fracture surfaces. Blebby pyrite and trace galena are locally observed within gouge brecciated vein zone. Veins also appeared locally fractured and offset by gouge brecciation (fault related (?)).
103.80	104.18	0.38	GRD	VEIN	MG	weakly argillic granodiorite overprinting weak propylitic alteration. Disseminated and blebby pyrite is locally observed throughout granodiorite interval.
104.18	104.72	0.54	GRD	VEIN	MG	Gouged brecciated, fractured , weakly propylitic, argillic granodiorite interval. Disseminated pyrite is locally observed in gouge brecciated vein zones; contained within dark grey, fine grained gouged seams. Fracturing and brecciation locally offset ankerite infilled veins on interval.
104.72	106.50	1.78	GRD	VEIN	MG	weakly potassic, argillic granodiorite with local zones of gouged brecciation. Semi massive pyrite is observed on fracture and gouged surface @ 105.60m
106.50	108.26	1.76	GRD	VEIN	MG	weakly propyliticalteration overprinting by weak argilic altered granodiorite. Gouge brecciation is locally observed throughout interval. blebby pyrite occurs within 1-3 mm, quartz veins and are locally offset and fractured in breciated zones. A quartz vein containting trace pyrite blebs (20 degrees TCA) is observed @ 106.60m. Milky quartz appears to brecciate clear quartz vein and thin, sub-mm, dark grey, bands and ankerite partially infilling quartz veins is locally observed.
108.26	108.60	0.34	GRD	VEIN	MG	gouged, rubbly trace propylitic, weakly argillic granodiorite containting disseminated pyrite in dark grey, gouged seams.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
108.60	109.24	0.64	VEN	VEIN	MG	weakly propylitic, trace argillic granodiorite interval containting four, 2-cm, rhodochrosite polymetallic veins and 2-4 mm, polymetallic quartz veins. Veins are ~ 40 degrees TCA and contain blebby pyrite, trace galena and sphalerite. Rhodochrosite appears to have replaced an existing quartz vein (quartz vein bearing mineral bearing fluids then rhodochrosite fluid replacement (?)). Small, quartz inclusions are observed in rhodochrosite bearing veins. Sub-mm, black, fine grained bands occur in polymetallic veins. Polymetallic veins are observed @ 108.61-109m. 2-4 mm, quartz veins containting blebby pyrite, trace galena and honey brown sphalerite appear to be locally offset by a 2 mm, calcite veinlet running perpendicular to polymetallic veins.
109.24	111.10	1.86	GRD	GRDA	MG	moderate potassic, trace argillic granodiorite with intermittent zones of weak argillic, trace propylitic granodiorite. A light grey, fine grained, carbonitic band (30 degrees TCA) is observed within potassic altered grd zone @ 109.92m. Trace 1-2 mm, dark grey bands containing disseminated pyrite are locally observed in more argillic grd sections. A small gouged seam occurs at 110.43m. A calcite infilled, quartz vein brecciating host grd is present @ 110.90m.
111.10	115.44	4.34	GRD	GRD	MG	relatively unaltered granodiorite interval (trace potassic, trace propylitic but otherwise relatively unaltered) with intermittent zones of weakly argillic, trace potassic and propylitic granodiorite (altered zones are no larger than 25cm). Local fracture zones are locally observed on interval as well.
115.44	115.71	0.27	GRD	GRD	MG	fractured, rubbly interval of relatively unaltered grd.
115.71	115.96	0.25	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite interval. Gouge brecciation is observed proximal to polymetallic vein zone.
115.96	116.16	0.20	VEN	GRDA	FG	polymetallic vein containting 2-8 mm euhedral blackjack sphalerite, blebby pyrite and galena. Zonation cores are observed in blackjack sphalerite crystals. Trace arsenopyrite is also present in vein interval. quartz vein appears to host minerals in vein and was replaced by calcite and interstitial ankerite (calcite replaces quartz vein first then ankerite intrudes into calcite replaced quartz vein and locally brecciates calcite and quartz vein).
116.16	116.52	0.36	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite interval containting a 1 cm , pyrite bearing, calcite infilled vein. Disseminated pyrite is locally observed in vein
116.52	117.18	0.66	GRD	GRDA	MG	moderately potassic granodiorite overprinting weakly argillic and trace propylitic alteration.
117.18	118.00	0.82	VEN	GRDA	MG	Gouged, brecciated, weakly argillic , trace propylitic granodiorite containining pyrite bearing, rhodochrosite infilled, quartz veins. Quartz veins are locally offset by fractures and brecciation. Disseminated pyrite is observed in veins where rhodochrosite partially infills and brecciates pyrite bearing vein.
118.00	118.20	0.20	GRD	GRDA	MG	rubbly interval of trace propylitic granodiorite overprinted by weak argillic alteration. Trace, disseminated pyrite is locally observed within dark grey, gouge seams in rubbly interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
118.20	118.77	0.57	GRD	GRDA	MG	gouged, brecciated , weakly argillic, trace propylitic granodiorite interval.
118.77	119.39	0.62	GRD	GRDA	MG	weakly argillic, trace propylitic, competent, granodiorite interval
119.39	120.33	0.94	GRD	GRDA	MG	fractured, rubbly interval of weakly argillic, trace propylitic granodiorite.
120.33	121.40	1.07	BXA	GRDA	MG	gouged, brecciated, weakly argillic, trace propylitic granodiorite interval. Trace, blebby and disseminated pyrite occur within dark grey, fine grained gouged seams and within 2-4 mm, fractured, calcite and ankerite infilled quartz veins.
121.40	125.20	3.80	GRD	GRDA	MG	gouged, brecciated, moderately argillic, weakly potassic granodiorite interval. Local rubbly zones occur from 124-124.40m. Increased potassic alteration occurs at 125m , proximal to polymetallic vein. Trace disseminated pyrite is locally observed in dark grey, gouged seam @ 123.50m.
125.20	125.41	0.21	VEN	VEIN	FG	polymetallic quartz vein containing semi massive sphalerite, pyrite and arseno pyrite. Sphalerite appears to interstitially surround semi massive pyrite and arseno pyrite. Trace, blebby galena is also observed in polymetallic vein. Minor ankerite and calcite infill is locally observed in vein.
125.41	126.35	0.94	VEN	VEIN	FG	rubbly,gouged brecciated , weakly propylitic granodiorite containting semi massive , disseminated pyrite in rubbly zones and within fractured, rhodochrosite infilled, quartz veins.
126.35	127.25	0.90	GRD	GRDA	MG	weakly argillic, trace potassic granodiorite interval
127.25	130.27	3.02	GRD	GRDA	MG	weakly argillic, trace propylitic granodiorite interval with local rubbly, gouged, brecciated zones. Disseminated pyrite is locally observed within rubbly zones and in dark grey, fine grained veinlets and gouged seams.
130.27	132.00	1.73	GRD	GRDF	MG	rubbly , faulted interval of moderately argillic, trace potassic granodiorite.
132.00	133.83	1.83	GRD	GRDF	MG	moderately argillic, trace potassic granodiorite interval with local gouged, brecciated zones.
133.83	134.20	0.37	VEN	VEIN	MG	weakly propylitic granodiorite hosting a polymetallic vein. Granodiorite interval appears gouged and brecciated, polymetallic vein is located along a soft, grey gougy seam (i.e. 134m). Polymetallic vein contains semi massive galena, arsenopyrite, blebby pyrite and sphalerite.smaller,striated galena bleb are observd in vein section (or exsolved lamellae (?)).Ankerite appears to partially infill quartz in vein zone.
134.20	137.16	2.96	GRD	GRDF	MG	weakly potassic, argillic granodiorite with local zones of gougy clay rich seams, gouge and shear brecciation (i.e. 137.10m; shear brecciation observed proximal to rubbly, faulted interval. trace, 1-3 mm, pyrite bearing , sheared veinlets are observed on interval
137.16	138.68	1.52	FLR	GRDF	MG	rubbly interval of weakly potassic, argillic granodiorite (fault(?))
138.68	140.37	1.69	FLR	GRDF	MG	rubbly interval of trace potasic, trace argillic granodiorite. (fault?).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
140.37	142.00	1.63	FLR	GRDF	MG	fractured, rubbly interval of weakly argillic, trace potassic granodiorite.
142.00	147.33	5.33	FLR	GRDF	MG	Weakly propylitic, argillic granodiorite with local gouged, rubbly and brecciated zones (interval is more competent than previous faulted interval). Blebby and disseminated pyrite is locally observed along fracture surfaces in rubbly zones, within dark grey, gouge seams and sporadically observed in altered granodiorite zones. Small rubbly zones occur at 145.59, 146-146.91m.
147.33	148.00	0.67	GRD	GRDF	MG	trace argillic, propylitic granodiorite interval containting 1-2 mm, dark, fine grained veinlets.
148.00	149.09	1.09	GRD	GRDF	MG	weakly potassic, argillic granodiorite interval
149.09	149.35	0.26	VEN	VEIN	MG	polymetallic vein hosted in weakly phyllic granodiorit (weakly silicified, disseminated pyrite and basal cleavage muscovite grains observed) containing semi massive pyrite, trace sphalerite galena and arseno pyrite. A 6mm, rhodocrosite vein surrounds polymetallic quartz vein. Ankerite appears to locally brecciate a dark smoky quartz vein that runs parallel to rhodocrosite and polymetallic quartz vein. Trace blackjack sphalerite is also observed wihtin rhodocrosite vein.
149.35	152.50	3.15	GRD	GRDA	MG	relatively unalterd granodiorit with intermittent zones of weakl potassic, argillic alteration and local fracture zones. Trace 1-2mm, dark , fine graind bands sometimes containing trace disseminatd pyrite , locally offset by calcite infilled veinlets and fracturs are locally observed (i.e. 151m). Quartz/carbonitic stringer vein zone is present from 152.18-152.50m (no mineralization obsrved).
152.50	158.80	6.30	GRD	GRD	MG	relatively unaltered granodiorite interval with intermittent (no larger than 10cm) zones of trace potassic, argillic alteration and sections of weak propylitic alteration. At 156.29-156.44m,three, 1-2 mm, pyrite bearing, dark grey veinlets are observed in trace potassic, argillic section. Trace, 1-2 mm, calcite veinlets and calcite infilled fractures also occur in interval. Small rubbly section of trace argillic altered granodiorite is observed from 157-157.28m. Some calcite veinlets crosscut through sub-mm pyrite bearing veinlets. Dark red hematitic oxidation is locally observed along join surfaces.
158.80	159.20	0.40	GRD	GRD	MG	weakly potassic, argillic and trace propylitic granodiorite interval.
159.20	160.00	0.80	GRD	GRD	MG	relatively unaltered granodiorite interval (trace chlorite clasts and k-spar)(trace propylitic/potassic(?)). Trace 1-2 mm carboate veins sporadically occur on interval.
160.00	161.47	1.47	GRD	GRD	MG	weakly potassic, weakly argillic graodiorite with local zones of trace propylitic, phyllic alteration. (phyllic alteration proximal to stringer vein zone). Trace 2-3 mm, dark grey , pyrite bearing veinlets surrounded by milky quartz veins are locally observed in interval .

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
161.47	162.63	1.16	GRD	VEIN	MG	weakly argillic, trace propylitic, trace phyllic granodiorite interval containting polymetallic stringer veins which are locally brecciated and partially infilled by calcite. Veins are ~40 degrees tca and contain blebby pyrit, arsenopyrite and trace galena crystals. Pyrite and arsenopyrite occur predominantly in dark grey, fine grained vein that are partially infilled by calcite. Trace pyrite blebs also occur within grd host rock.
162.63	163.21	0.58	GRD	GRDA	MG	weakly argillic, potassic granodiorite interval containing 1-2 mm, pyrite bearing stringer veinlets.
163.21	164.30	1.09	GRD	GRDA	MG	weakly argillic, trace potassic, trace propylitic granodiorite interval.
164.30	166.20	1.90	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak argillic alteration. Trace 1-2 mm, pyrite bearing, dark grey , fine grained veinlets are locally observed throughout grd interval.
166.20	167.55	1.35	GRD	GRDA	MG	fractured, rubbly interval of trace potassic, trace propylitic granodiorite.
167.55	168.86	1.31	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weakly argillic alteration overprinting trace potassic, propylitic alteration. Trace, 1-2 mm, dark grey, fine grained veinlets contain minor disseminated pyrite.
168.86	169.80	0.94	VEN	GRDA	MG	moderately argillic, weakly propylitic granodiorite interval containin 2-4mm polymetallic vuggy quartz veins. Blebby pyrite is observed in quartz vein adjacent to wilky quartz vuggy vein. Trace galena blebs are contained within vuggy milky quartz vein. Vuggy vein contains sub-mm, dark grey veinlets located at the vuggy vein boundaries. Increased propylitic and trace phyllic alteration is locally observed at the polymetallic vein zones. Light pink, rhodochrote partiallyinfilling polymetallic vein is observed in rubbly zone at 169.20m (vein fragment can be identified here).
169.80	171.58	1.78	GRD	GRDA	MG	weakly argillic, propylitic and tace potassic granodiorite interval containting 1-2 mm, stringer veins (30 degrees TCA). Veins containt trace, disseminated pyrite and are partially infilled by calcite.
171.58	173.90	2.32	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite with small, intermittent zones of weakly potassic, argillic alteration (~ 5 cm). 1-3mm, stringer veins (45 degrees TCA), partially infilled by calcite , contain trace disseminated pyrite.
173.90	174.22	0.32	GRD	GRDA	MG	weakly argillic, trace potassic, propylitic graodiorite interval. Fracturing and small light grey gouge seams are observed proximal to rubbly vein zone
174.22	174.58	0.36	VEN	GRDA	MG	Rubbly, brecciated, polymetallic vein zone containting blebby pyrite, trace arseno pyrite and galena. Pyrite is mostly contained within dark grey, fine grained vein breccia matrix. Sub- angular, ankerite and quartz inclusions are observed within breccia vein zone. Alteration is weakly propylitic, trace phyllic near the contact with breccia vein zone.
174.58	174.82	0.24	GRD	GRDA	MG	weakly argillic alteration in granodiorite overprinting trace phyllic alteration. Trace propylitic alteration occurs @ 174.80m

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
174.82	174.90	0.08	VEN	GRDA	MG	rubbly zone containting polymetallic vein fragments. Vein fragments contain blebby pyrite, trace arsenopyrite and trace galena. Sub-angular, 2-4 mm, ankerite brecciated clasts are contained within polymetallic, rubbly zone. (rubbly vein zone similar to vein zone at 174.22m but fragments are sub-rounded ; cchewed up fragments from drill (cave(?))
174.90	180.57	5.67	GRD	GRDA	MG	Trace potassic, trace propylitic granodiorite interval containing a 5 degrees TCA, calcite/ankerite infilled, brecciated quartz vein. A 2 cm, weakly potassic, argillic alteration halo is observed @ 177.40-177.80m. Thin sub-mm, black magnetic bands are locally observed in granodiorite interval @ 178.85m. Thin , 1-2 mm, dark grey, pyrite bearing veinlets are also present on inteval; blebby pyrite can be seen on vein fractured surface @ 178.31m.
180.57	180.85	0.28	GRD	GRDA	MG	weakly argillic, trace potassic, propylitic granodiorite interval containting sub mm, dark grey veinlets and carbonate infilled veinlets.
180.85	181.72	0.87	GRD	GRDA	MG	weakly phyllic alteration overprinting a weak argillic and trace potassic alteration. Interval is moderately silicified and blebby pyrite is locally observed within grd. Calcite infilling fracture surfaces and sub-mm veinlets is locally observed.
181.72	181.96	0.24	VEN	GRDA	MG	polymetallic vein and brecci zone hosted in weak argillic, trace propylitic alteration overprinting by weakly phyllic alteration (blebby pyrite locally observed in grd and interval appears silicified, basal cleavage muscovit crystals are also locally observed). Semi massive, galena, pyrite and blebby arsenopyrite is observed in vein zone. Trace, honey brown sphalerite predominantly ocurs in semi massive galena vein. Dark grey, fine grained material containting semi massive pyrite appears to brecciate quartz vein locally. Trace ankerite and calcite vein infill is observed.
181.96	182.35	0.39	VEN	GRDA	MG	weakly phyllic granodiorite containting polymetallic veins (30 degrees TCA). Veins contain semi massive galena, blebby pyrite spatially associated with sphalerite and trace arsenopyrite. Honey brown sphalerite is observed in galena vein whereas darker sphalerite (blackjack) is observed with pyrite. Galena crystals appear striated (or exsolved(?) exsolution lamellae(?); rapid cooling leading to exsolving of two cations within galena). Trace calcite and ankerite inclusions in vein zone are locally observed and occur as interstitial infill.
182.35	182.66	0.31	VEN	GRDA	MG	polymetallic vein zone in weakly phyllic granodiorite (vein breccia(?), disseminated pyrite, galena and sphalerite are locally observed within grd, ankerite calcite and quartz clasts occur within grd brecciz zone). A soft, light grey brecciated seam containting fine grained pyrite occurs at 182.50m. Polymetallic vein contains semi massive galena, sphalerite, pyrite and trace arseno pyrite (vein is comprised of 2 mm bands of galena, sphalerite, pyrite-arsenopyrite. Ankerite appears to partially infill a dark, fine grained, pyrite bearing band at the vein boundaries.
182.66	183.58	0.92	GRD	GRDA	MG	trace propylitic granodiorite overprinted by weak argillic alteration. @ 184.44, a quartz vein containting blebby pyrite and trace sub-mm blackjack sphalerite is observed. Interval contains 1-2 mm, calcite infilled veinlets.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
183.58	187.55	3.97	GRD	GRD	MG	trace potassic, trace propyliti granodiorite interval containting 1 - 30 cm, black, fine grained polymictic inclusions. Trae 1 -2 mm, carbonate infilled quartz veins sometimes containting trace pyrite.
187.55	190.00	2.45	GRD	GRD	MG	trace potassic, propylitic granodiorite with trace argillic overprint (unit is similar to previous interval but has increased argillic alteratoin).
190.00	193.95	3.95	GRD	GRD	MG	trace potassic, propylitic granodiorite with intermittent zones of weak argillic, trace phyllic alteration halos around 2mm-1cm stringer veins. Stringer veins are partially replaced by rhodocrosite and contain sub-mm, black, veinlets. Stringer veins contain trace disseminated pyrite. Weakly argillic,phyllic alteration is observed proximal to vein zone contact (193.85-193.95m)
193.95	194.26	0.31	GRD	GRD	MG	weakly argillic, trace propylitic and phyllic granodiorite containing polymetallic quartz veins. Gouged, lightgrey, brecciated seam observed near vein zone @ 194.10m. Quartz veins contain blebby pyrite, trace sphalerite and galena. Vein near gouged brecciated seam is vuggy and partially infilled by light pink rhodocrosite and tan, ankerite
194.26	197.00	2.74	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with intermittent weak argillic, trace propylitic alteration halos near stringer vein zones. Stringer veins are 2-5 mm, contain trace pyrite and sphalerite. 2-3mm,ankerite veins parallel to pyrite bearing veins are locally observed.
197.00	200.15	3.15	GRD	GRD	MG	trace potassic, argillic granodiorite interval with local weakly argillic alteratin halos near stringer vein zones. Stringer veins (50 degrees TCA) contain trace pyrite and sphalerite and are partially infilled by carbonates.
200.15	201.20	1.05	VEN	GRD	MG	trace potassic altered granodiorite with weak argillic overprint. Alteration in vein zone is weakly propylitic, trace argillic @ 200.77m. Vein at 200.82m, contains blebby pyrite, trace arsenopyrite, galena, sphalerite and is partially infilled by tan, ankerite. Calcite and ankerite alsoappear to brecciate host grd and vein zone locally. Vein zone at 201, contains semi massive, someties striated galena with interstitial rhodocrosite located adjacent and witin galena rich vein. Disseminated pyrite is observed thourhgout grd interval in vein zone
201.20	213.87	12.67	GRD	GRD	MG	Relatively unaltered grd with trace propylitic, potassic, argillic alteration zones. Some sections of grd appear slightlymore argillic but otherwise remain relatively unaltered. Weak propylitic alteration halos are observed in2-4 mm, pyrite bearing quartz veinlets. Black, fine grained magnetite bands are locally observed on interval as well
213.87	214.51	0.64	GRD	GRD	MG	gouged, brecciated, weakly argillic, trace propylitic granodiorite interval. Trace disseinated pyrite occurs within grd and within light grey, soft, gouged seams.
214.51	216.00	1.49	GRD	GRD	MG	fractured interval of trace potassic, trace propylitic relatively unaltered granodiorite. Trace 1-2 mm, quartz veinlet containing trace disseminated pyriteare locally observed.
216.00	216.50	0.50	GRD	GRD	MG	moderately argillic, weakly potassic, fractured granodiorite interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
216.50	226.67	10.17	GRD	GRD	MG	trace potasic, trace argillic, relatively unaltered granodiorite interval with locally fractured zones. 1-8cm, medium pink, aplite dyke intrusions occur from 219.60-221m. (aplite dykes not observed in previous intervals. 3mm-1 cm,pyrite bearing , carbonate infilled quartz veins crosscutting and locally offsetting aplite dyke intrusions are locally observed.
226.67	227.40	0.73	GRD	GRD	MG	gouged, sheared, brecciated, moderately argillic, trace propylitic granodiorite containing polymetallic ,sheared veins. Disseminated pyrite, trace arsenopyrite, trace sphalerite areobserved in carbonate infilled quartz veins. Pyrite is also observed in dark grey,soft grained, sheared bands.
227.40	233.63	6.23	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with local fractured zones(227.40-229.11m). Trace 1mm, pyrite bearing veinlets,and 1-2 m,carbonate veinlets are locally observed.
233.63	234.70	1.07	GRD	GRD	MG	weakly potassic , argillic granodiorite interval .
234.70	235.25	0.55	VEN	GRD	MG	trace phyllic alteration overprinting weakly propylitic granodiorite. Interval is moderately silicified , contains disseminated pyrite in host grd. Interval contains soft,gouged brecciated seams containting disseminated pyrite as well. Vein zone at 234.96m is comprised of blebby galena in quartz vein, milky quartz vein surrounding and partially infilling and brecciating galena bearing quartz vein. Rhodocrosite and ankerite brecciate,partially replace and are interstitially foundin polymetallic quartz vein. Carbonates and quartz appear to brecciate host grd. Blebby pyrite, trace arsenopyrite are observed in breciated vein sections. Honey brown sphalerite is mostly restricted to galena rich areas.
235.25	236.75	1.50	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite.
236.75	240.16	3.41	GRD	GRD	MG	trace potassic, trace propylitic, rubbly and fractured, relatively unaltered granodiorite interval (fault related(?)).
240.16	241.23	1.07	GRD	GRD	MG	more competent interval of trace potassic, trace propylitic, relatively unaltered granodiorite interval.
241.23	243.17	1.94	GRD	GRD	MG	trace potassic,relatively unaltered granodiorite with trace phyllic,propylitic alteration halos observed near polymetallic vein zones. 1-3 cm, veins containing disseminated pyrite, trace sphalerite and galena are partially infilled and brecciated by rhodocrosite.1 mm, black fine grained bands within carbonate infilled veins are also observed (coloform bands(?)). Gouged,brecciated seam occurs at the contant between relatively unaltered grd and polymetallic vein zone. Disseminated pyrite is also observed within alteration halo zones.
243.17	244.65	1.48	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval
244.65	247.30	2.65	GRD	GRD	MG	fractured, relatively unaltered granodiorite interval (trace potasic and trace propylitic local alteredtedzones). 4mm, calcite veinlet (~20 degree TCA) is observed on interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
247.30	254.20	6.90	GRD	GRD	MG	relatively unaltered granodiorite interval (trace potassic , trace propylitic(?)) with intermittent zones of weakly propylitic, argillic alteration (mostly as alteration halos near stringer vein zone). Vein (50 degrees TCA) , contain disseminated pyrite, are partially infilled by calcite and ankerite and locally brecciate host grd. Light pink aplite dyke intrusion is observed at 250.04m. Disseminated pyrite also occurs in sub-mm, dark, fine grained bands.
254.20	255.46	1.26	GRD	GRD	MG	weakly propylitic alteration overprinting a weak argillic alteration in granodiorite. Section appears weakly silicified and disseminated pyrite and pyrite blebs are observed throughout grd host. 2mm-1 cm, carbonateinfilled veins, containting pyrite and brecciating host grd are locally observed. Ankerite and calcite appear to brecciate pyrite bearing quartz veins as well.
255.46	266.54	11.08	GRD	GRD	MG	relatively unaltered granodiorite interval with smalllocal zones of trace propylitic alteration. Trace 1-2 mm, quartz veinlets containing disseminated pyrite are sporadically observed on interval
266.54	267.74	1.20	VEN	VEIN	MG	trace potassic granodiorite with weakly to moderate propylitic alteration halos near quartz stringer veins. Trace phyllic alteration occurs proximal to grd, vein breccia contact (gouged, brecciated contact). Stringer veins are partially infilled by calcite, and contain blebby pyrite, galena and tracce arsenopyrite (mostly on veins proximalto vein brecia zone).
267.74	268.94	1.20	BXA	VEIN	MG	dark grey, polymictic,polymetallic, moderately silicified ven breccia zone. Clasts observed in breccia zone include, pyrite bearing, chloritized clasts, light grey, irregular, cilified clasts, propylitic altered grd host, ankerite, rhodocrosite, dark grey clasts and calcite. Trace, galena, arsenopyrite, sphalerite and pyrite are observed in vein breccia zone (more abundant in lower vein breccia zone where rhodocrosite and ankerite are more prominent). Ankerite appears to brecciate dark grey brecciated clasts (i.e. 269.63m). Rhodocrosite is observed as breccia clasts and partiallyinfilling polymetallic vein zones. Veins appear to be sheared and locally crosscut by calcite infilled fractures.
268.94	270.50	1.56	GRD	VEIN	MG	locally gouged, moderately propylitic, weakly argillic granodiorite interval containing trace 1 cm, pyrite bearing quartz vein. A greenish, brown, fine grained dyke(?) inclusion occurs in grd interval.
270.50	270.90	0.40	VEN	VEIN	MG	2-4mm, weakly sheared, polymetallic, stringer vein zone in moderate propylitic granodiorite, overprinted by trace phyllic alteration(?) (appears weaklysilicified, contains disseminated pyrite and basal cleavage crystals are observed (muscovite(?)). Stringer veins are 40 degrees TCA and contain blebby pyrite, trace galena, arseno pyrite and sub-mm sphalerite. Polymetallic veins appear to brecciate host grd and are infilled and brecciated by ankerite and light pink, rhodocrosite infill.
270.90	271.52	0.62	GRD	VEIN	MG	weakly argillic granodiorite overprinting a weak propylitic alteration.
271.52	274.96	3.44	GRD	GRD	MG	relatively unaltered granodiorite with intermitten zones of trace potassic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
274.96	277.90	2.94	GRD	GRD	MG	trace potassic granodiorite with intermittent zones of weak argillic, potassic and weak propylitic trace phyllic alteration (mostly as alteration halos near stringer veins). Stringer veins are ~ 40 degrees TCA and contain blebby pyrite and trace , sub-mm sphalerite.
277.90	280.50	2.60	GRD	GRD	MG	weakly potassic, weakly argillic granodiorite with intermittent zones of weak propylitic and trace argillic alteration (mostly as alteration halos in stringer vein zones) . Stringers veins are ` 60 degrees TCA and containt bleby pyrite, galena,honey brown sphalerite and trace arseno pyrite (i.e. 278.45m).
280.50	281.80	1.30	GRD	GRD	MG	weakly argillic, weakly propylitic granodiorite containting polymetallic stringer veins. Polymetallic veins contain trace blebby pyrite, trace galena, sphalerite. Light grey,gouged brecciated seam is observed @ 281m. Ankerite appears to locally brecciate and infill pyrite bearing veins. Poymetallic veins alsocontain 1 mm, black , fine grained dendritic magnetite bands.
281.80	282.02	0.22	VEN	GRD	MG	polymetallic vein containting semi massive galena, pyrite, sphalerite and trace arsenopyrite. Rhodocrosite interstitiallyinfills polymetallic vein and locally brecciates pyrite bearing quartz veins. (rhodocrosite is spatially associated with honey brown sphalerite and galena. Fracturing is observed in polymetallic vein zone.
282.02	283.40	1.38	GRD	GRD	MG	weakly argillic, weakly propylitic granodiorite interval containing thin 1-2mm, dark fine grained pyrite bearing veinlets. A fractured, brecciated granodiorite section proximal to polymetallic vein contact is observed. Calcite infill fractures surfaces which locally crosscut through quartz veinlets.
283.40	283.53	0.13	VEN	GRD	MG	polymetallic vein zone containing semi massive galena, pyrite, honey brown sphaerite and trace arsenopyrite blebs. Trace,light pink, rhodocrosite partially infills polymetallic quartz vein. From 283.46-286.53 vein locally brecciates host grd (less pyrite, galena and sphalerite observed,mostly occur as disseminations within vein breccia section. Calcite infilled fractures crosscut through vein breccia zone.
283.53	284.99	1.46	GRD	GRD	MG	weakly argillic, trace propylitic granodiorite with intermittent zones of weak propylitic alteration. 1-3mm, stringer quartz veins containting blebby pyrite, trace galena and sphaerite, partially replaced by carbonate (light pink rhodocrosite and calcite) are locally observed. Vein @ 284m,contains bright pink/orange, soft, interstitial infill in quartz vein.
284.99	292.80	7.81	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with weak argillic, propylitic alteration halos in pyrite bearing, stringer quartz vein zone.
292.80	297.00	4.20	GRD	GRD	MG	locally fractured, trace potassic granodiorite with intermittent zones of moderate to strong propylitic alteration. Pyrite blebs and sub-mm sphalerite are observed in 4mm stringer vein within propylitic altered granodiorite zone at 293m. Vein contains bright pink/orange inclusions at vein boundaries. Calcite infililng fractures iscommonly observed. Dark red hematite alteration is commonly observed in fracture and joint surfaces.
297.00	302.68	5.68	GRD	GRD	MG	similar to previous interval but less fractured. Trace potassic granodiorite with intermittent zones of moderate to strongly propylitic alteration. Pyrite, trace sphalerite are observed in carbonate infilled, quartz veins in propylitic granodiorite zones.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
302.68	304.80	2.12	GRD	GRD	MG	moderately propylitic granodiorite with intermittent zones of weak potassic, argillic alteration. Blebby pyrite is observed in arbonate infilled, quartz veins in propylitic altered grd. Calcite infiled veins locally brecciate host grd
304.80	309.27	4.47	GRD	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak propylitic,argillic alteration. Trace, calcite and rhodocrosite infilled quartz vein containting trace pyrite are locally observed(i.e. 308.55m).1-3 mm, dark, pyrite bearing bands are commonly observed in least altered grd zones
309.27	310.10	0.83	GRD	GRD	MG	rubbly interval of weakly potassic, trace propylitic granodiorite. Dark red, hematite oxidation is commonly observed in rubbly interval.
310.10	311.96	1.86	GRD	GRD	MG	trace potassic, trace propylitic granodiorite interval containing trace 1-2mm,dark , pyrite bearing bands. Dark red hematite oxidation occurs along fractures, joint surfaces.
311.96	313.34	1.38	GRD	GRD	MG	weakly propylitic,trace phyllic granodiorite with intermittent zones of trace potassic, weakly argillic alteration. Blebby pyrite,trace galena and sphalerite are observed in calcite infilled, quartz veins. Veins are 40 degrees TCA.
313.34	313.80	0.46	GRD	GRD	MG	gouged, brecciated vein section in trace propylitic, argillic granodiorite. Blebby pyrite, sphalerite, galena and trace arsenopyrite are observed in vein zone @ 313.65m ankerite and rodhcrosite inclusions within polymetallic quartz veins are observed. Ankerite appears to locally brecciate host granodiorite. Trace phyllic alteration observed in polymetallic vein zone (disseminate pyrite in grd , increased quartz clasts and some basal cleavage (muscovite(?) are observed).
313.80	317.81	4.01	GRD	GRD	MG	trace potassic granodiorite interval containting 1-2 mm, black, fine grained, pyrite bearing veinlets. Weak propylitic, argillic alteration halo occur in pyrite bearing vein zones.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.24	1.24	CAS	--	casing							
1.24	3.20	1.96	OVB	--	ovb							
3.20	19.11	15.91	GRD	MG	trace potassic, trace propylitic and argillic granodiorite interval. Local fractured and rubbly sections are commonly observed throughout interval. Clay-oxidation and reddish hematitic oxidation occurs along fractured/joint surfaces . Weak alteration is also locally observed in grd interval.							
						DK	RD	RB	POT	1I		
						LT	PK		PRO	1I		
						LT	BN	FR	ARG	1I		
19.11	29.42	10.31	GRD	MG	Moderately argillic, weakly propylitic granodiorite with intermittent zones of unaltered grd and weak argillic granodiorite. Oxidation is more prevalent in upper interval zone where weak pervasive oxidation along fracture surfaces is locally observed. Trace, pyrite bearing, dark drey, fine grained bands are locally observed throughout interval. Gouge brecciatd seams become more prominent in lower interval section proximal to grd-quartz feldspar porphyry dyke contact.							
						LT	GN		PRO	2I	Py	3
									ARG	2I		
						LT	BG		OXI	2I		
									ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
29.42	33.08	3.66	QFP	FG	Fractured and locally brecciated quartz feldspar porphyry dyke interval. Oxidized sections of dyke are light grey. Proximal to grd contact, matrix grain size in dyke becomes finer towards gouged, contact with granodiorite (chilled margin(?)). Clasts within clasts are commonly observed in dyke interval. Trace 1-3 mm, hematite bearing , calcite veinlets are present within dyke interval.Trace 3-4 mm quartz vein @ 32.40m is observed (no mineralization observed only thin, calcite infill rimming quartz vein). Fracturing and gouge brecciation increases towards quartz feldspar porphyry and grd contact. Dyky fracture zones occur @ 30.73-31,31.75-32m and 32.65-33.							
						LT	BN	FR				
						DK	PU					
33.08	43.00	9.92	GRD	MG	trace porpylitic, potassic granodiorite with intermittent zones of weak argillic alteration. Upper interval zone exhibits pervasive oxidation within grd host (orange/light brown). 1-8 cm, irregular, dark, fine grained, magnetic inclusions are locally observed throughout grd interval. Dark red, hematitic alteration also occurs throughout interval.							
									PRO	1I		
									POT	1I		
									ARG	2I		
43.00	47.90	4.90	GRD	MG	fractured, rubbly, gouge brecciated interval (faulted zone ?) of weakly argillic, trace potassic, propylitic granodiorite. Shear brecciation is observed @ 43.15m (~ 45 degrees TCA shear fabric (?)) clay and dark red hematitic oxidation occur along fracture surfaces.							
						LT	GN	FR				
						DK	RD	RB				
						MD	BN					
						LT	BG					
47.90	50.10	2.20	GRD	MG	interval composed of trace propylitic, potassic granodiorite with local zones of weak propylitic, argillic alteration. Oxidation is more prevalent in propylitic altered zones. A pyrite bearing, oxidized vein is observed @ 48.16m. Trace , disseminated pyrite is observed in sub-mm, dark grey bands (pyrite observed in more altered sections).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	BG		PRO	1I	Py	2
						LT	PK		ARG	2I	Py	3
50.10	50.48	0.38	GRD	MG	moderately propylitic granodiorite interval and weak potassic, argillic granodiorite zone. Propylitic altered zone contains a 1 cm pyrite bearing smoky quartz vein. Milky quartz and ankerite appear to brecciated smoky quartz vein. Trace, ankerite blebs are observed in ankerite infill quartz vein. Overall vein zone appears to also brecciated host altered grd.							
						MD	GN		PRO	3I	Sp	2
						LT	PK		POT	2I	Py	4
50.48	52.19	1.71	GRD	MG	fractured, trace potassic, propylitic granodiorite interval. Oxidation in grd is observed @ 50.75m. Light brown, dark red, hematitic oxidation occurs along fractures and joint surfaces. Trace, 1 mm, dark, fine grained, oxidized bands occur within interval							
						LT	GN	FR	POT	1I		
						LT	PK		PRO	1I		
52.19	56.21	4.02	GRD	MG	Granodiorite with intermitent zones of trace propylitic, potassic alteration, weak to moderate potassic and weakly argillic and weak argillic propylitic alteration. Pyrite bearing quartz veins occur predominantly in argillic altered zones. A 1 cm, oxidized, ankerite infilled, pyrite bearing quartz vein occurs @ 59.21m. Disseminated pyrite also occurs within dark grey, fine grained lenses within quartz vein zone.							
						MD	GN		PRO	2I	Py	4
						LT	BG		ARG	3I	Py	3
						LT	BG		POT	2I		
56.21	56.66	0.45	GRD	MG	Granodiorite interval containting mineralized vein breccia and 2-4 mm, pyrite bearing veins. Breccia vein zone contains semi massive pyrite within dark, fine grained matrix which is brecciated by calcite, clear quartz and ankerite. Ankerite appears to crosscut quartz breccia zones (post stage (?)). Clear quartz, brecciated clasts also host semi massive pyrite. Trace arseno pyrite is also observed within vein breccia zone. Vein breccia is observed from 56.29-39m. From 56.39-56.66, quartz vein contain blebby pyrite and trace honey brown sphalerite grains.							
						LT	GN	BX	ARG	2I	Py	8

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY				Py	5
											As	3
											Ak	4
											Sp	2
56.66	65.53	8.87	GRD	MG	interval composed of trace potassic, argillic granodiorite with intermittent zones of moderate argillic alteration and weak propylitic alteration. Rubbly, fractured and oxidied ones are locally observed. Trace potassic grd ones contains 1-3 mm, dark grey, strongly magnetic inclusions.							
						LT	GN	FR	POT	2I		
						LT	BG		ARG	2I		
						LT	BG		PRO	1I		
65.53	70.10	4.57	GRD	MG	fractured, gouged and locally brecciated, moderately argillic, trace potassic granodiorite with intermittent argillic, trace propylitic, mineralized vein containing zones. (Fault brecciation(?)).							
						LT	BG		ARG	3I	Py	4
						LT	PK		POT	1I		
						LT	GN		PRO	2I	Sp	3
70.10	70.80	0.70	GRD	MG	gouged, breciated, moderate argillic, trace propylitic potassic granodiorite interval. a 10 cm, dark grey, vein gouge seam contains disseminated pyrite. Calcite infill along brecciated , fractured surfaces is locally observed.							
						DK	GY	BX	PRO	1I	Py	5
						LT	BG		POT	1I		
						LT	GN		ARG	3I		
70.80	78.54	7.74	GRD	MG	Interval composed of locally fractured, rubbly and brecciated zones of weakly propylitic, moderate argillic and weak potassic altered granodiorite. Disseminated pyrite is observed within 3mm to 3 cm quartz vein zones (i.e. 72.02 and 75.28m). Fractures locally offset calcite veins seen on interval.							
						LT	GN	FR	PRO	2I	Py	4
						LT	BG		ARG	3I		
						DK	GY		POT	2I		
78.54	87.00	8.46	GRD	MG	rubbly, fractured and gouged moderately argillic, weakly potassic granodiorite interval. Slickenlines are locally observed along joint surface (faulted interval (?)).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG	RB	ARG	2I		
						LT	PK	FR	POT	2I		
87.00	90.18	3.18	GRD	MG	gouged, brecciated, rubbly , weakly to moderately propylitic, trace argillic, potassic granodiorite interval (fault footwall (?)). Trace, disseminated pyrite is locally observed in gouge brecciated seams and throughout rubbly zone.							
90.18	93.80	3.62	GRD	MG	Locally fractured , weakly propylitic, trace argillic granodiorite interval.Chlorite occurs along joint surfaces.							
						LT	PK	FR	POT	1I		
						MD	GN		PRO	2I		
93.80	95.50	1.70	GRD	MG	Weakly potassic, trace propylitic and argillic granodiorite interval with local zones of increased potassic alteration. A 2 mm, quartz vein containting trace pyrite blebs is observed @ 93.96m. Ankerite brecciates and infills quartz vein. Quartz vein contains fine, black, sub mm-inclusions. Quartz vein is 35 degrees TCA.							
									PRO	1I		
						LT	PK		ARG	2I		
						LT	GN		POT	2I	Py	1
95.50	102.82	7.32	GRD	MG	Interval is comprised of intermittent zones of weakly potassic,trace argillic granodiorite and moderately argillic granodiorite overprinting trace propylitic, potassic alteration. Rubbly, fractured and gouge brecciated zones are locally observed within interval. Blebby pyrite and galena are observed in rubbly grd zone @ 98.29m within a quartz vein fragment.Trace, blackjack sphalerit blebs are also observed in quartz vein fragment on fractured, rubbly grd zones. Fracture and brecciated surfaces are infilled by calcite.							
						LT	BG		ARG	3I	Gn	2
									PRO	1I		
						LT	GN		POT	2I	Py	3
						MD	PK		POT	1I	Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
102.82	104.72	1.90	VEN	MG	gouged, brecciated, weakly propylitic trace argillic granodiorite zone containting polymetallic quartz vein zones. Polymetallic veins are observed in competent and gouge brecciated granodiorite zones. Polymetallic veins are locally offset by fracturing and gouge brecciation. Ankerite and rhodochrosite infilling and brecciated host polymetallic veins are commonly observed. Disseminated pyrite is locally observed within gouge brecciated zones and within host grd. Polymetallic veins predominantly contain semi massive, blebby pyrite, trace galena and blebby and interstitial honey brown sphalerite.							
											Rh	4
											Gn	3
						MD	GN		PRO	2I	Py	8
											Py	3
											Ak	4
						MD	GY	BX	ARG	1I	Sp	4
104.72	109.24	4.52	VEN	MG	trace to moderately propylitic granodiorite with intermittent zones of trace argillic alteration. Gouge brecciation occurs in some grd sections. Blebby pyrite is locally observed within grd host , in dark grey, fine grained gouged seams and in rhodochrosite infilled, polymetallic quartz veins. Four 2 cm, polymetallic veins infilled by rhodochrosite are observed 108.62-108.80m. Blebby galena , pyrite and blackjack sphalerite are present in rhodochrosite infilled veins. (note : although veins are thick and abundant in rhodochrosite pyrite, galena and sphalerite content is less than previous polymetallic vein zones). Rhodochrosite infilled veins are 40 degrees TCA. 2-4 mm, quartz veins @ 108.90m, contain more blebby pyrite and galena (than rhodochrosite bearing veins). Quartz veins @ 108.90m are also 40 degrees TCA. A 2 mm, calcite veinlet brecciating host grd crosscuts perpendiculary through polymetallic quartz veins.							
						MD	GN	BX	ARG	1I	Rh	10
						MD	GY		PRO	2I	Gn	4
									PRO	3I	Py	4
											Py	6
											Sp	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.24	111.10	1.86	GRD	MG	moderate potassic, trace argillic granodiorite with intermittent zones of weak argillic, trace propylitic granodiorite. A light grey, fine grained, carbonitic band (30 degrees TCA) is observed within potassic altered grd zone @ 109.92m. Trace 1-2 mm, dark grey bands containing disseminated pyrite are locally observed in more argillic grd sections. A small gouged seam occurs at 110.43m. A calcite infilled, quartz vein brecciating host grd is present @ 110.90m. Medium pink, aplite dyke intrusions are observed from 219.60-221m							
						MD	BG		PRO	2I		
						LT	GN		ARG	1I	Py	4
						MD	PK		POT	3I		
111.10	115.71	4.61	GRD	MG	relatively unaltered granodiorite interval (trace potassic, trace propylitic but otherwise relatively unaltered) with intermittent zones of weakly argillic, trace potassic and propylitic granodiorite (altered zones are no larger than 25cm). Local fracture zones are locally observed on interval as well.							
115.71	125.20	9.49	GRD	MG	Interval comprised of intemittent sections of moderately potassic, trace argillic and moderately argillic, trace propylitic granodioite. Rubbly, gouged and brecciated zones are locally observed throughout interval. At 115.94-116.16m, a polymetallic vein containting blebby pyrite , galena and 3-6 mm blackcjack sphalerite is observed. Disseminated pyrite is locally observed within dark grey , gouged seams and within rubbly zones.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
125.20	126.35	1.15	VEN	MG	gouged, brecciated, weakly propylitic trace argillic granodiorite zone containting polymetallic quartz vein zones. Polymetallic veins are observed in competent and gouge brecciated granodiorite zones. Polymetallic veins are locally offset by fracturing and gouge brecciation. Ankerite and rhodochrosite infilling and brecciated host polymetallic veins are commonly observed. Disseminated pyrite is locally observed within gouge brecciated zones and within host grd. Polymetallic veins predominantly contain semi massive, blebby pyrite, trace galena and blebby and interstitial honey brown sphalerite.							
						DK	GN				As	10
						LT	GY				Sp	8
						LT	GN	BX			Py	15
126.35	130.27	3.92	GRD	MG	weakly argillic, trace potassic and propylitic granodiorite interval. Gouged, breacciated and rubbly zones are locally observed throughout interval. Trace, disseminated pyrite is present within dark grey, fine grained veinlets.							
130.27	133.83	3.56	GRD	MG	rubbly interval of moderately argillic, trace potassic granodiorite with local gouged, brecciated zones							
						LT	PK		POT	1I		
						LT	BG	RB	ARG	3I		
133.83	134.20	0.37	VEN	MG	weakly propylitic granodiorite hosting a polymetallic vein. Granodiorite interval appears gouged and brecciated, polymetallic vein is located along a soft, grey gougy seam (i.e. 134m). Polymetallic vein contains semi massive galena, arsenopyrite, blebby pyrite and sphalerite.smaller,striated galena bleb are observd in vein section (or exsolved lamellae (?)).Ankerite appears to partially infill quartz in vein zone.							
						MD	GY				Ak	4
											As	7
											Gn	8
											Py	5
						MD	GN		PRO	2I	Sp	6

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
134.20	149.09	14.89	GRD	MG	weakly argillic, weakly potassic granodiorite with intermittent zones of weak propylitic, argillic alteration. Fractured,gouged and rubbly zones are locally observed throughout interval. (i.e. 137.16-142.30 ; faulted interval(?)). Trace, disseminated pyrite occurs within dark, grey gouge seams in rubbly zones.							
						LT	PK		PRO	2I		
						LT	BG		ARG	2I		
						LT	GN	RB	POT	2I	Py	3
149.09	149.35	0.26	VEN	MG	polymetallic vein hosted in weakly phyllic granodiorit (weakly silicified, disseminated pyrite and basal cleavage muscovite grains observed) containing semi massive pyrite, trace sphalerite galena and arseno pyrite. A 6mm, rhodocrosite vein surrounds polymetallic quartz vein. Ankerite appears to locally brecciate a dark smoky quartz vein that runs parallel to rhodocrosite and polymetallic quartz vein. Trace blackjack sphalerite is also observed wihtin rhodocrosite vein.							
											Gn	4
						MD	GY		PHC	1I	Py	6
						LT	GY				As	3
											Py	3
											Rh	6
149.35	152.50	3.15	GRD	MG	relatively unalterd granodiorit with intermittent zones of weakl potassic, argillic alteration and local fracture zones. Trace 1-2mm, dark , fine graind bands sometimes containing trace disseminatd pyrite , locally offset by calcite infilled veinlets and fracturs are locally observed (i.e. 151m). Quartz/carbonitic stringer vein zone is present from 152.18-152.50m (no mineralization obsrved).							
						LT	GY		PRO	1I		
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
152.50	158.80	6.30	GRD	MG	relatively unaltered granodiorite interval with intermittent (no larger than 10cm) zones of trace potassic, argillic alteration and sections of weak propylitic alteration. At 156.29-156.44m,three, 1-2 mm, pyrite bearing, dark grey veinlets are observed in trace potassic, argillic section. Trace, 1-2 mm, calcite veinlets and calcite infilled fractures also occur in interval. Small rubbly section of trace argillic altered granodiorite is observed from 157-157.28m. Some calcite veinlets crosscut through sub-mm pyrite bearing veinlets. Dark red hematitic oxidation is locally observed along join surfaces.							
						MD	GY					
						LT	BG		ARG	1I	Py	2
						DK	RD		PRO	1I		
						LT	PK		POT	1I		
158.80	161.47	2.67	GRD	MG	relatively unaltered (trace potassic, propylitic) granodiorite with intermittent zones of weak to moderate potassic and weak argillic alteration. Carbonate veinlets infilling 1-3 mm, dark grey pyrite bearing bands occur in interval. Blebby pyrite is observed along fracture and joint surfaces (i.e. 157.89m).							
161.47	162.63	1.16	GRD	MG	weakly argillic, trace propylitic, trace phyllic granodiorite interval containting polymetallic stringer veins which are locally brecciated and partially infilled by calcite. Veins are ~40 degrees tca and contain blebby pyrit, arsenopyrite and trace galena crystals. Pyrite and arsenopyrite occur predominantly in dark grey, fine grained vein that are partially infilled by calcite. Trace pyrite blebs also occur within grd host rock.							
						LT	BG				As	4
						DK	GY		PRO	1I	Py	5
						LT	GN		ARG	2I	Sp	2
											Ca	4
162.63	168.86	6.23	GRD	MG	interval comprised of weakly argillic, weakly potassic, trace propylitic grd with itermittent zones of trace potassic, trace propylitic granodiorite. Local fractured zones are locally observed on interval. 1-2 mm, pyrite bearing stringer vein zoe occurs in weakly argillic, potassic interval of grd at 162.63-163.21m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BG		PRO	1I	Py	3
						LT	PK		ARG	2I		
						LT	GN		POT	2I		
									POT	1I		
168.86	174.90	6.04	GRD	MG	moderately argillic, weakly proplitic, trace potassic granodiorite interval with intermittent zones of trace propylitic, potassic alteration. 2-4 mm, poymetallic vuggy quartz veins (75 degrees TCA) are present from 169.20-169.65m. Local rubbly sections are observed @ 174.40-174.60m. Polymetallic veins predominantly contain blebby pyrite and trace galena blebs.							
									POT	1I		
						MD	BG		PRO	1I	Py	4
						LT	PK		PRO	2I		
						MD	GN		ARG	3I	Gn	2
174.90	180.57	5.67	GRD	MG	Trace potassic, trace propylitic granodiorite interval containing a 5 degrees TCA, calcite/ankerite infilled, brecciated quartz vein. A 2 cm, weakly potassic, argillic alteration halo is observed @ 177.40-177.80m. Thin sub-mm, black magnetic bands are locally observed in granodiorite interval @ 178.85m. Thin , 1-2 mm, dark grey, pyrite bearing veinlets are also present on inteval; blebby pyrite can be seen on vein fractured surface @ 178.31m.							
						LT	PK		PRO	1I	Py	4
						LT	GN		POT	1I		
180.57	183.58	3.01	GRD	MG	trace phyllic altered granodiorite overprinting weakly argillic, trace propylitic alteration. Polymetallic veins and polymetallic breccia zones are locally observed in altered interval. Blebby pyrite, sphalerite, galena and arsenopyite are observed in vein zones. Blebby and disseminated pyrite also occurs within phyllic altered granodiorite interval. polymetallic vein zones are observed @ 181.72m, 182-182.77 and trace 1-2 mm, calcite infilled stringer veins are observed @ 183-183.58m.							
						LT	GN		PHC	2I	Py	6
											Sp	6
											As	4
											Rh	3
						LT	BG		ARG	1I	Gn	8

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
183.58	213.87	30.29	GRD	MG	trace potassic, argillic and trace propylitic granodiorite interval containting 2-5 mm, carbonate infilled, pyrite bearing stinger veins and a 5 cm polymetallic vein @ 194.18 and 18 cm polymetallic vein @ 286m. Vein zones contain weakly argillic, potassic and trace potassic alteration halos. Relatively unaltered grd interval contains 2 - 30 cm, dark, fine grained, polymictic inclusions.							
											Gn	4
						LT	BG		ARG	2I	Py	4
						LT	GN		PRO	1I	Ak	2
											Sp	3
						LT	PK		POT	1I	Rh	4
											As	2
213.87	244.65	30.78	GRD	MG	trace potassic, trace propylitic,relatively unaltered granodiorite with intermittent weaklypropylitic, gouged,rubbly and fractured zones. Trace, 1-3 mm, quartz veins containing trace disseminated pyrite are locally observed throughout interval.Medium pink, aplite dyke intrusions are observed from 219.60-221m. Gouged, brecciated possibly sheared (?) vein zones are also observed. Polymetallic vein zones contain blebby galena, sphalerite, pyrite and trace arsenopyrite.							
244.65	266.54	21.89	GRD	MG	relatively unaltered granodiorite (sometrace potassic) with intermittent zones of weakly argillic, proypylitic grd. 1 cm, light pink,aplite dyke intrusion is observed @ 250.03. Trace 2mm-2 cm, carbonate infilled, quartz veins, sometimes containing trace disseminated pyrite are locally observed. Weakly propylitic, argillic alteration hal zones occur near vein zones. Veins are ~ 45-50 degrees TCA. Ankerite partially infills some veins and locally brecciates grd host. Larges vein zone is observed @ 248.55m.							
						LT	GN		POT	1I	Ak	4
									ARG	1I	Py	3
						LT	PK		PRO	2I	Ca	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
266.54	271.52	4.98	VEN	MG	weakly phyllic alteration overprinting moderatelyargillic, propylitic altered granodiorite.Polymetallic stringer veins, and vein breccia intrude into host grd. Interval is moderately silicified and disseminated pyrite is locally observed in host grd. 1-2 mm, stringer veins proximal to breccia zone contain trace galena, sphalerite and pyrite blebs. Vein breccia zone contains blebby pyrite, trace galena, honey brown sphalerite and trace arsenopyrite propylitic, argillic alteration halos are observed in unaltered granodiorite sections than contain stringer veins. Brecciated ankerite, rhodocrosite and ankerite clasts occur within breccia vein zone. A green/brown fine grained, dyke(?)inclusion is observed at 270.40m. Fracture, gouged brecciated zones are also observed in more propylitic altered granodiorite sections.							
											Sp	3
											Gn	5
											As	3
						MD	GY	BX	ARG	2I	Py	5
						MD	GN		PHC	1I	Rh	6
						LT	GY		PRO	3I	Ak	3
						MD	BG		SIL	3I	Rh	4
271.52	277.90	6.38	GRD	MG	relatively unaltered granodiorite with intermittent zones of weak potassic and weak propylitic argillic and trace phyllic alteration (as alteration halos in stringer vein zones). Stringer vein zones are 40 degrees TCA and contain blebby, disseminated pyrite and trace, sub-mm, sphalerite. Stringer veins are partially replaced by carbonates.							
						LT	GN		PHC	1I		
						LT	PK		PRO	2I		
						MD	GN		ARG	1I		
277.90	284.99	7.09	GRD	MG	weakly argillic, potassic granodiorite with intermittent zones of weak propylitic, argillic , trace phyllic alteration and unaltered granodiorite zones. Propylitic-phyllic alterationoccurs nearpolymetallic vein zones.							
											Ak	3
											Rh	4
									PHC	1I	Py	6
						MD	BG		ARG	2I	Sp	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		POT	1I	As	3
						LT	GN		PRO	2I	Gn	6
284.99	302.68	17.69	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of moderate propylitic alteration(mostly as alteration halo near veins). Pyrite bearing stringer quartz veins partially replaced by carbonates are locally observed throughout interval. local fracture zones are also observed in grd interal.							
						MD	GN		PRO	3I		
						LT	PK		POT	1I		
302.68	311.96	9.28	GRD	MG	trace potassic granodiorite with intermittent zones of moderate propylitic alteration and weakly argillic, potassic alteration. Trace,pyrite blebs are obsered in stringer veins within propylitic alteredandargillic potassic grd zones. Thin 1-2mm, dark, pyrite bearing bands are locally observed throughout interval. fractured and rubbly zones occur from 309.27-310.10m.							
						LT	PK		ARG	2I		
						MD	BG		PRO	3I		
						MD	GN		POT	1I	Py	4
311.96	313.80	1.84	GRD	MG	weakly propylitic, trace argillic, trace phyllic granodiorite with intermittent zones of weakly argillic, weak potassic alteration. Quartz stringer zones containing blebby pyrite, trace galena and sphalerite are locally observed in propylitic, trace phyllic grd.stringer veins are partially infilled by calcite.							
						LT	BG		PRO	2I	Gn	2
						LT	PK		ARG	1I	Sp	2
						MD	GN		POT	1I	Py	4
313.80	317.81	4.01	GRD	MG	trace potassic granodiorite interval containting 1-2 mm, black, fine grained, pyrite bearing veinlets. Weak propylitic, argillic alteration halo occur in pyrite bearing vein zones.							
						MD	GN		POT	1I	Py	2
						LT	PK		PRO	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.16	11	0.00	0	--	4H	1W	No recovery
1.52	3.04	1.52	0.46	30	0.00	0	--	4H	1W	No recovery
3.04	4.57	1.53	0.61	40	0.00	0	--	3H	2W	No recovery
4.57	6.00	1.43	0.43	30	0.17	12	--	4H	2W	
6.00	7.62	1.62	0.85	52	0.24	15	--	4H	1W	
7.62	9.14	1.52	1.31	86	0.51	34	--	4H	1W	
9.14	10.67	1.53	1.18	77	0.19	12	--	4H	2W	
10.67	12.19	1.52	1.52	100	0.54	36	--	4H	2W	
12.19	13.26	1.07	0.85	79	0.00	0	--	3H	2W	No recovery
13.26	13.72	0.46	0.32	70	0.00	0	--	3H	2W	No recovery
13.72	15.24	1.52	1.37	90	0.50	33	--	4H	2W	
15.24	16.76	1.52	1.52	100	0.38	25	--	4H	2W	
16.76	18.29	1.53	1.46	95	0.36	24	--	4H	2W	
18.29	19.81	1.52	1.52	100	0.85	56	--	4H	2W	
19.81	22.86	3.05	3.05	100	2.54	83	--	3H	2W	
22.86	24.38	1.52	1.36	89	0.96	63	--	3H	2W	
24.38	25.91	1.53	1.53	100	0.91	59	--	3H	2W	
25.91	27.43	1.52	1.52	100	0.78	51	--	3H	2W	
27.43	28.96	1.53	1.46	95	0.66	43	--	3H	2W	
28.96	30.48	1.52	1.35	89	0.44	29	--	3H	2W	
30.48	32.00	1.52	1.33	88	0.47	31	--	3H	2W	
32.00	33.53	1.53	1.32	86	0.51	33	--	3H	2W	
33.53	35.05	1.52	1.52	100	0.67	44	--	4H	2W	
35.05	36.58	1.53	1.41	92	0.46	30	--	4H	2W	
36.58	38.10	1.52	1.52	100	0.63	41	--	4H	2W	
38.10	39.62	1.52	1.52	100	0.86	57	--	4H	1W	
39.62	41.15	1.53	1.53	100	0.50	33	--	4H	2W	
41.15	42.67	1.52	1.52	100	0.72	47	--	3H	2W	
42.67	44.20	1.53	1.13	74	0.10	7	--	2H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.11	0.91	0.82	90	0.00	0	--	3H	2W	No recovery
45.11	46.63	1.52	0.99	65	0.16	11	--	4H	2W	
46.63	47.24	0.61	0.57	93	0.00	0	--	3H	2W	No recovery
47.24	48.77	1.53	1.5	98	0.86	56	--	3H	2W	
48.77	50.29	1.52	1.37	90	0.82	54	--	4H	1W	
50.29	51.82	1.53	1.53	100	0.10	7	--	3H	2W	
51.82	53.34	1.52	1.52	100	0.72	47	--	4H	1W	
53.34	54.86	1.52	1.52	100	0.68	45	--	3H	2W	
54.86	56.39	1.53	1.53	100	0.65	42	--	3H	2W	
56.39	57.91	1.52	1.41	93	1.00	66	--	4H	2W	
57.91	59.44	1.53	1.46	95	0.28	18	--	3H	3W	
59.44	60.96	1.52	1.52	100	0.87	57	--	4H	2W	
60.96	62.48	1.52	1.46	96	0.52	34	--	4H	1W	
62.48	64.01	1.53	1.23	80	0.84	55	--	4H	1W	
64.01	65.53	1.52	0.87	57	0.46	30	--	3H	1W	
65.53	67.06	1.53	0.77	50	0.31	20	--	2H	1W	
67.06	68.58	1.52	0.72	47	0.32	21	--	2H	1W	
68.58	70.10	1.52	1.13	74	0.39	26	--	2H	1W	
70.10	71.63	1.53	1.5	98	0.76	50	--	3H	1W	
71.63	73.15	1.52	0.82	54	0.00	0	--	3H	1W	No recovery
73.15	74.68	1.53	1.53	100	0.34	22	--	3H	2W	
74.68	76.20	1.52	1.31	86	1.30	86	--	2H	1W	
76.20	77.72	1.52	0.73	48	0.10	7	--	3H	1W	
77.72	79.25	1.53	0.79	52	0.52	34	--	3H	1W	
79.25	80.77	1.52	0.62	41	0.14	9	--	2H	1W	
80.77	82.30	1.53	0.93	61	0.44	29	--	2H	1W	
82.30	83.82	1.52	0.82	54	0.41	27	--	2H	1W	
83.82	85.34	1.52	0.6	39	0.00	0	--	2H	1W	No recovery
85.34	86.87	1.53	0.49	32	0.00	0	--	3H	1W	No recovery
86.87	88.39	1.52	0.95	63	0.38	25	--	2H	1W	
88.39	89.92	1.53	0.79	52	0.10	7	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
89.92	91.44	1.52	1.35	89	0.62	41	--	4H	1W	
91.44	92.96	1.52	1.08	71	0.10	7	--	4H	1W	
92.96	93.42	0.46	0.46	100	0.30	65	--	4H	1W	
93.42	95.00	1.58	1.53	97	0.84	53	--	4H	1W	
95.00	95.71	0.71	0.3	42	0.00	0	--	3H	1W	No recovery
95.71	97.23	1.52	1.27	84	0.18	12	--	4H	1W	
97.23	99.21	1.98	1.06	54	0.10	5	--	3H	1W	
99.21	99.97	0.76	0.54	71	0.00	0	--	3H	1W	
99.97	100.58	0.61	0.55	90	0.10	16	--	3H	1W	
100.58	103.33	2.75	2.42	88	1.49	54	--	4H	1W	
103.33	104.55	1.22	1.21	99	0.68	56	--	2H	1W	
104.55	105.92	1.37	1.08	79	0.51	37	--	3H	1W	
105.92	106.68	0.76	0.48	63	0.20	26	--	2H	1W	
106.68	107.39	0.71	0.6	85	0.38	54	--	3H	1W	
107.39	108.51	1.12	1.04	93	0.62	55	--	3H	1W	
108.51	109.73	1.22	1.11	91	0.69	57	--	4H	1W	
109.73	111.25	1.52	1.52	100	1.21	80	--	3H	1W	
111.25	112.78	1.53	1.43	93	0.26	17	--	3H	1W	
112.78	114.30	1.52	1.37	90	0.15	10	--	4H	1W	
114.30	115.52	1.22	0.85	70	0.27	22	--	4H	1W	
115.52	117.04	1.52	1.32	87	0.59	39	--	3H	1W	
117.04	118.11	1.07	0.63	59	0.34	32	--	3H	1W	
118.11	119.39	1.28	0.86	67	0.46	36	--	3H	1W	
119.39	120.24	0.85	0.27	32	0.00	0	--	3H	1W	
120.24	120.40	0.16	0.12	75	0.00	0	--	3H	1W	
120.40	121.92	1.52	1.52	100	1.46	96	--	2H	1W	
121.92	123.44	1.52	0.71	47	0.56	37	--	2H	1W	
123.44	124.97	1.53	1.05	69	0.33	22	--	2H	1W	
124.97	126.49	1.52	0.68	45	0.11	7	--	3H	1W	
126.49	128.02	1.53	1.18	77	0.26	17	--	3H	1W	
128.02	129.54	1.52	0.56	37	0.00	0	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
129.54	131.06	1.52	0.84	55	0.22	14	--	2H	1W	
131.06	132.59	1.53	1.32	86	0.27	18	--	3H	1W	
132.59	134.11	1.52	1.19	78	0.53	35	--	3H	1W	
134.11	135.64	1.53	0.82	54	0.29	19	--	3H	1W	Rounded pieces, see no joint
135.64	137.16	1.52	1.05	69	0.53	35	--	3H	1W	
137.16	138.68	1.52	0.35	23	0.00	0	--	3H	1W	No recovery
138.68	140.21	1.53	0.64	42	0.00	0	--	3H	1W	No recovery
140.21	141.73	1.52	0.85	56	0.14	9	--	3H	1W	
141.73	143.26	1.53	0.73	48	0.27	18	--	3H	1W	
143.26	144.17	0.91	0.47	52	0.42	46	--	2H	1W	
144.17	144.48	0.31	0.08	26	0.00	0	--	3H	1W	No recovery
144.48	144.78	0.30	0.04	13	0.00	0	--	3H	1W	No recovery
144.78	145.69	0.91	0.91	100	0.46	51	--	3H	1W	
145.69	146.61	0.92	0.57	62	0.27	29	--	2H	1W	
146.61	146.91	0.30	0.3	100	0.00	0	--	3H	1W	No recovery
146.91	147.62	0.71	0.51	72	0.23	32	--	3H	1W	
147.62	147.93	0.31	0.31	100	0.31	100	--	3H	1W	
147.93	148.89	0.96	0.21	22	0.14	15	--	3H	1W	Broken pieces
148.89	149.35	0.46	0.46	100	0.10	22	--	3H	1W	Rounded drilled core
149.35	150.88	1.53	1.42	93	0.68	44	--	3H	1W	
150.88	151.64	0.76	0.76	100	0.35	46	--	4H	2W	
151.64	152.85	1.21	1.21	100	0.69	57	--	4H	1W	
152.85	154.38	1.53	1.46	95	0.75	49	--	4H	1W	
154.38	155.75	1.37	1.37	100	1.16	85	--	4H	1W	
155.75	157.28	1.53	1.28	84	0.86	56	--	4H	1W	
157.28	158.50	1.22	1.22	100	0.71	58	--	4H	1W	
158.50	160.02	1.52	1.52	100	1.43	94	--	4H	1W	
160.02	161.54	1.52	1.52	100	1.52	100	--	4H	1W	
161.54	163.07	1.53	1.53	100	1.24	81	--	4H	1W	
163.07	164.59	1.52	1.52	100	0.97	64	--	4H	1W	
164.59	165.66	1.07	1	93	0.54	50	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
165.66	167.24	1.58	1.12	71	0.38	24	--	4H	1W	
167.24	168.86	1.62	1.41	87	0.85	52	--	3H	1W	
168.86	170.38	1.52	1.52	100	1.08	71	--	3H	1W	
170.38	171.91	1.53	1.44	94	1.14	75	--	4H	1W	
171.91	173.43	1.52	1.52	100	1.44	95	--	4H	1W	
173.43	175.26	1.83	1.74	95	1.08	59	--	3H	1W	
175.26	176.78	1.52	1.38	91	1.17	77	--	4H	1W	
176.78	178.31	1.53	1.53	100	1.25	82	--	4H	1W	
178.31	179.83	1.52	1.38	91	0.90	59	--	3H	1W	
179.83	181.36	1.53	1.48	97	1.34	88	--	4H	1W	
181.36	182.88	1.52	1.52	100	1.10	72	--	3H	1W	
182.88	184.40	1.52	1.52	100	1.37	90	--	3H	1W	
184.40	185.93	1.53	1.48	97	1.00	65	--	4H	1W	
185.93	187.48	1.55	1.41	91	0.98	63	--	4H	1W	
187.48	188.98	1.50	1.5	100	1.50	100	--	4H	1W	
188.98	190.50	1.52	1.52	100	1.39	91	--	4H	1W	
190.50	192.02	1.52	1.52	100	1.23	81	--	4H	1W	
192.02	193.55	1.53	1.5	98	1.46	95	--	4H	1W	
193.55	195.07	1.52	1.47	97	1.29	85	--	4H	1W	
195.07	196.60	1.53	1.53	100	1.39	91	--	4H	1W	
196.60	198.12	1.52	1.48	97	1.48	97	--	4H	1W	
198.12	199.64	1.52	1.52	100	1.52	100	--	4H	1W	
199.64	201.17	1.53	1.44	94	1.38	90	--	3H	1W	
201.17	202.59	1.42	1.42	100	1.08	76	--	4H	1W	
202.59	204.22	1.63	1.5	92	1.18	72	--	4H	1W	
204.22	205.13	0.91	0.91	100	0.87	96	--	4H	1W	
205.13	206.65	1.52	1.52	100	1.42	93	--	4H	1W	
206.65	208.18	1.53	1.53	100	0.80	52	--	4H	1W	
208.18	209.80	1.62	1.52	94	1.22	75	--	4H	1W	
209.80	211.38	1.58	1.55	98	1.38	87	--	4H	1W	
211.38	212.90	1.52	1.52	100	1.15	76	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
212.90	214.48	1.58	1.54	97	0.69	44	--	4H	1W	
214.48	215.80	1.32	1.15	87	0.54	41	--	3H	1W	
215.80	217.32	1.52	1.52	100	0.30	20	--	3H	1W	
217.32	218.95	1.63	1.52	93	0.98	60	--	4H	1W	
218.95	220.47	1.52	1.52	100	0.97	64	--	4H	1W	
220.47	222.05	1.58	1.56	99	1.17	74	--	4H	1W	
222.05	223.62	1.57	1.55	99	1.16	74	--	4H	1W	
223.62	225.15	1.53	1.45	95	1.08	71	--	4H	1W	
225.15	226.67	1.52	1.52	100	0.37	24	--	4H	1W	
226.67	227.84	1.17	1	85	0.58	50	--	3H	1W	
227.84	229.11	1.27	1.17	92	0.00	0	--	4H	1W	
229.11	230.63	1.52	1.43	94	0.88	58	--	4H	1W	
230.63	232.10	1.47	1.35	92	0.38	26	--	4H	1W	
232.10	233.63	1.53	1.53	100	1.15	75	--	4H	1W	
233.63	234.70	1.07	1.05	98	0.56	52	--	3H	1W	
234.70	236.22	1.52	1.4	92	1.03	68	--	3H	1W	
236.22	237.74	1.52	1.27	84	0.49	32	--	4H	1W	
237.74	239.27	1.53	1.32	86	0.23	15	--	4H	1W	
239.27	240.79	1.52	1.41	93	0.30	20	--	4H	1W	
240.79	242.32	1.53	1.32	86	0.88	58	--	4H	1W	
242.32	243.84	1.52	1.52	100	0.95	63	--	4H	1W	
243.84	245.36	1.52	1.52	100	0.64	42	--	4H	1W	
245.36	246.89	1.53	1.08	71	0.17	11	--	4H	1W	
246.89	248.41	1.52	1.52	100	1.13	74	--	3H	1W	
248.41	249.94	1.53	1.47	96	1.10	72	--	3H	1W	
249.94	251.46	1.52	1.49	98	0.81	53	--	3H	1W	
251.46	252.98	1.52	1.48	97	1.26	83	--	4H	1W	
252.98	254.51	1.53	1.53	100	1.36	89	--	3H	1W	
254.51	256.03	1.52	1.52	100	1.32	87	--	3H	1W	
256.03	256.75	0.72	0.72	100	0.56	78	--	4H	1W	
256.75	258.32	1.57	1.53	97	1.23	78	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
258.32	258.67	0.35	0.35	100	0.35	100	--	4H	1W	
258.67	260.15	1.48	1.47	99	1.17	79	--	4H	1W	
260.15	261.67	1.52	1.52	100	0.79	52	--	4H	1W	
261.67	263.25	1.58	1.52	96	1.52	96	--	4H	1W	
263.25	264.77	1.52	1.52	100	1.50	99	--	4H	1W	
264.77	266.30	1.53	1.53	100	1.39	91	--	4H	1W	
266.30	267.92	1.62	1.52	94	1.52	94	--	3H	1W	
267.92	269.54	1.62	1.52	94	0.67	41	--	3H	1W	
269.54	271.12	1.58	1.52	96	0.90	57	--	3H	1W	
271.12	272.70	1.58	1.52	96	1.23	78	--	3H	1W	
272.70	274.32	1.62	1.52	94	1.09	67	--	4H	1W	
274.32	275.84	1.52	1.52	100	1.34	88	--	4H	1W	
275.84	277.37	1.53	1.52	99	1.52	99	--	4H	1W	
277.37	278.89	1.52	1.52	100	1.48	97	--	3H	1W	
278.89	280.42	1.53	1.53	100	1.31	86	--	4H	1W	
280.42	281.94	1.52	1.52	100	1.09	72	--	3H	1W	
281.94	283.46	1.52	1.52	100	1.24	82	--	3H	1W	
283.46	284.99	1.53	1.53	100	1.34	88	--	3H	1W	
284.99	286.51	1.52	1.46	96	1.32	87	--	4H	1W	
286.51	288.04	1.53	1.53	100	0.58	38	--	4H	1W	
288.04	289.56	1.52	1.52	100	0.87	57	--	4H	1W	
289.56	291.08	1.52	1.52	100	1.30	86	--	4H	1W	
291.08	292.61	1.53	1.48	97	0.93	61	--	4H	1W	
292.61	294.13	1.52	1.52	100	1.02	67	--	3H	1W	
294.13	295.66	1.53	1.47	96	0.61	40	--	4H	1W	
295.66	297.18	1.52	1.4	92	0.88	58	--	4H	1W	
297.18	298.70	1.52	1.52	100	1.42	93	--	4H	1W	
298.70	300.23	1.53	1.53	100	1.53	100	--	4H	1W	
300.23	301.75	1.52	1.5	99	1.30	86	--	4H	1W	
301.75	303.28	1.53	1.47	96	1.30	85	--	3H	1W	
303.28	304.80	1.52	1.44	95	1.40	92	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
304.80	306.32	1.52	1.52	100	1.37	90	--	4H	1W	
306.32	307.85	1.53	1.53	100	1.22	80	--	4H	1W	
307.85	309.37	1.52	1.52	100	1.13	74	--	4H	1W	
309.37	310.10	0.73	0.67	92	0.00	0	--	4H	1W	
310.10	311.66	1.56	1.5	96	1.18	76	--	4H	1W	
311.66	313.18	1.52	1.47	97	1.05	69	--	3H	1W	
313.18	314.76	1.58	1.52	96	0.99	63	--	3H	1W	
314.76	316.28	1.52	1.52	100	1.17	77	--	4H	1W	
316.28	317.81	1.53	1.42	93	1.21	79	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	
2	0	OVB	
3	4.216	OVB	
4	0	GRD	Highly fractured
5	14.68	GRD	
6	13.78	GRD	
7	0	GRD	Highly fractured
8	21.94	GRD	
9	16.4	GRD	
10	0	GRD	Highly fractured
11	16.75	GRD	
12	19.77	GRD	
13	0	GRD	Highly fractured
14	7.095	GRD	
15	3.159	GRD	
16	10.75	GRD	
17	15.45	GRD	
18	26.86	GRD	
19	24.65	GRD	
20	0.507	GRD	
21	0.309	GRD	
22	0.413	GRD	
23	0.841	GRD	
24	6.646	GRD	
25	0.153	GRD	
26	0.713	GRD	
27	0.289	GRD	
28	0.152	GRD	
29	0.312	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.216	QFP	
31	0.207	QFP	
32	0.212	QFP	
33	0.254	QFP	
34	1.864	GRD	
35	0.359	GRD	
36	0	GRD	Highly fractured
37	15.77	GRD	
38	12.21	GRD	
39	19.01	GRD	
40	18.46	GRD	
41	16.88	GRD	
42	0.324	GRD	
43	6.17	GRD	
43	6.17	GRD	
44	19.16	GRD	
45	0	GRD	Highly fractured
46	21.04	GRD	
47	25.58	GRD	
48	3.188	GRD	
49	15.56	GRD	
50	0.665	GRD	
51	0	GRD	Highly fractured
52	6.689	GRD	
53	2.028	GRD	
54	1.176	GRD	
55	9.752	GRD	
56	0.218	GRD	
57	2.687	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	17.58	GRD	
59	0	GRD	Highly fractured
60	8.447	GRD	
61	2.089	GRD	
62	22.81	GRD	
63	17.87	GRD	
64	0.394	GRD	
65	5.305	GRD	
66	0.432	GRD	
67	12.57	GRD	
68	10.4	GRD	
69	3.943	GRD	
70	0.387	GRD	
71	15.35	GRD	
72	4.314	GRD	
73	4.557	GRD	
74	3.599	GRD	
75	0.402	GRD	
76	7.626	GRD	
77	0	GRD	Highly fractured
78	19.64	GRD	
79	0.772	GRD	
80	10.15	GRD	
81	6.856	GRD	
82	10.77	GRD	
83	0.544	GRD	
84	0	GRD	Highly fractured
85	0	GRD	Highly fractured
86	0	GRD	Highly fractured
87	0.332	GRD	
87	0.332	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
88	0.205	GRD	
89	0.562	GRD	
90	0.96	GRD	
91	0	GRD	Highly fractured
92	0	GRD	Highly fractured
93	7.379	GRD	
94	0.403	GRD	
95	2.75	GRD	
96	18.94	GRD	
97	9.126	GRD	
98	0.402	GRD	
99	1.064	GRD	
100	10.25	GRD	
101	0.505	GRD	
102	6.012	GRD	
103	0.344	VEN	
104	0.222	VEN	
105	0.367	VEN	
106	0.399	VEN	
107	0.471	VEN	
108	0.304	VEN	
109	0.789	VEN	
110	0.264	GRD	
111	9.353	GRD	
112	14.25	GRD	
113	19.44	GRD	
114	5.001	GRD	
115	0.278	GRD	
116	0.336	GRD	
117	0.314	GRD	
118	0.467	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
119	0.29	GRD	
120	0.24	GRD	
121	0.883	GRD	
122	0.924	GRD	
123	0.337	GRD	
124	0.305	GRD	
125	0.363	GRD	
126	0.676	VEN	
127	0.55	GRD	
128	0.531	GRD	
129	0.493	GRD	
130	0.932	GRD	
131	7.64	GRD	
132	2.582	GRD	
133	0.397	GRD	
134	0.206	VEN	
135	1.792	GRD	
136	13.91	GRD	
137	0	GRD	Highly fractured
138	0	GRD	Highly fractured
139	0	GRD	Highly fractured
140	0	GRD	Highly fractured
141	5.546	GRD	
142	0.265	GRD	
143	0.322	GRD	
144	0.269	GRD	
145	0.363	GRD	
146	0.435	GRD	
147	0.403	GRD	
148	2.194	GRD	
149	0.441	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
150	8.582	GRD	
151	23.92	GRD	
152	24.39	GRD	
153	11.5	GRD	
154	15.57	GRD	
155	21.69	GRD	
156	1.352	GRD	
157	24.38	GRD	
158	23.92	GRD	
159	11.07	GRD	
160	2.808	GRD	
161	0.726	GRD	
162	0.228	GRD	
163	13.51	GRD	
164	4.27	GRD	
165	5.045	GRD	
166	9.738	GRD	
167	0	GRD	Highly fractured
168	13.61	GRD	
169	0.356	GRD	
170	0.618	GRD	
171	1.407	GRD	
172	18.33	GRD	
173	1.246	GRD	
174	0.33	GRD	
175	4.835	GRD	
176	23.23	GRD	
177	2.176	GRD	
178	3.721	GRD	
179	20.96	GRD	
180	5.219	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
181	0.266	GRD	
182	0.108	GRD	
183	0.329	GRD	
184	20.21	GRD	
185	16.68	GRD	
186	19.13	GRD	
187	22.98	GRD	
188	24.63	GRD	
189	20.35	GRD	
190	15.61	GRD	
191	22.34	GRD	
192	9.912	GRD	
193	0.346	GRD	
194	21.9	GRD	
195	12.57	GRD	
196	17.99	GRD	
197	1.032	GRD	
198	0.73	GRD	
199	24.94	GRD	
200	0.665	GRD	
201	25.23	GRD	
202	21.12	GRD	
203	20.31	GRD	
204	22.28	GRD	
205	21.86	GRD	
206	22.47	GRD	
207	22.59	GRD	
208	22.1	GRD	
209	22.59	GRD	
210	24.8	GRD	
211	22.54	GRD	
212	20.65	GRD	
213	32.32	GRD	
214	0.609	GRD	
215	15.65	GRD	
216	0.746	GRD	
217	16.7	GRD	
218	24.59	GRD	
219	1.985	GRD	
220	25.08	GRD	
221	27.52	GRD	
222	23.34	GRD	
223	31.91	GRD	
224	24.15	GRD	
225	22.04	GRD	
226	0.432	GRD	
227	0.343	GRD	
228	0	GRD	Highly fractured
229	24.89	GRD	
230	25.65	GRD	
231	23.89	GRD	
232	10.28	GRD	
233	2.748	GRD	
234	0.645	GRD	
235	0.664	GRD	
236	27.31	GRD	
237	0	GRD	Highly fractured
238	28.85	GRD	
239	24.42	GRD	
240	31.89	GRD	
241	0.744	GRD	
242	18.52	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
243	28.58	GRD	
244	27.04	GRD	
245	30.4	GRD	
246	29.34	GRD	
247	25.44	GRD	
248	25.65	GRD	
249	20.8	GRD	
250	11.22	GRD	
251	10.4	GRD	
252	22.9	GRD	
253	24.43	GRD	
254	22.28	GRD	
255	0.39	GRD	
256	26.19	GRD	
257	28.73	GRD	
258	24.63	GRD	
259	26.19	GRD	
260	25.04	GRD	
261	23.61	GRD	
262	26.57	GRD	
263	26.47	GRD	
264	23.73	GRD	
265	18.18	GRD	
266	18.12	GRD	
267	8.132	VEN	
268	0.132	VEN	
269	0.518	VEN	
270	0.531	VEN	
271	0.305	VEN	
272	8.919	GRD	
273	9.949	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
274	2.674	GRD	
275	12.23	GRD	
276	7.83	GRD	
277	8.394	GRD	
278	0.818	GRD	
279	0.516	GRD	
280	0.913	GRD	
281	1.503	GRD	
282	0.491	GRD	
283	0.366	GRD	
284	5.13	GRD	
285	25.88	GRD	
286	17.98	GRD	
287	23.76	GRD	
288	25.74	GRD	
289	26.4	GRD	
290	29.04	GRD	
291	25.66	GRD	
292	28.69	GRD	
293	33.42	GRD	
294	7.817	GRD	
295	32.68	GRD	
296	23.23	GRD	
297	30.12	GRD	
298	28.37	GRD	
299	27.06	GRD	
300	28.7	GRD	
301	28.68	GRD	
302	7.581	GRD	
303	0.428	GRD	
304	15.37	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
305	9.496	GRD	
306	22.27	GRD	
307	31.42	GRD	
308	30.44	GRD	
309	2.037	GRD	
310	22.2	GRD	
311	22.2	GRD	
312	0.629	GRD	
313	13.9	GRD	
314	17.29	GRD	
315	15.1	GRD	
316	15.45	GRD	
317	16.54	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-449

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W603569	☐	19-055	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603424	☐	19-040	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603589	☐	19-055	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603560	☐	19-051	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603545	☐	19-051	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603535	☐	19-051	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603516	☐	19-047	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603487	☐	19-047	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603476	☐	19-042	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603460	☐	19-042	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603444	☐	19-042	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603437	☐	19-040	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603501	☐	19-047	low grade		☑	☐	☐
20.60	21.85	1.25	GRD	1.25	100	W603412	☐	19-040	low grade		☐	☐	☐
21.85	22.15	0.30	GRD	0.30	100	W603413	☐	19-040	low grade		☐	☐	☐
22.15	22.62	0.47	GRD	0.47	100	W603414	☐	19-040	low grade		☐	☐	☐
22.62	24.78	2.16	GRD	2.10	97	W603415	☐	19-040	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
22.62	24.78	2.16	GRD	2.10	97	W603416	☐	19-040	low grade		☐	☑	☐
24.78	25.25	0.47	GRD	0.47	100	W603417	☐	19-040	low grade		☐	☐	☐
25.25	26.82	1.57	GRD	1.54	98	W603418	☐	19-040	low grade		☐	☐	☐
26.82	28.23	1.41	GRD	1.24	88	W603419	☐	19-040	low grade		☐	☐	☐
28.23	29.44	1.21	GRD	1.20	99	W603420	☐	19-040	low grade		☐	☐	☐
29.44	31.00	1.56	QFP	1.32	85	W603421	☐	19-040	low grade		☐	☐	☐
31.00	33.04	2.04	QFP	1.46	72	W603422	☐	19-040	low grade		☐	☐	☐
33.04	33.53	0.49	QFP	0.42	86	W603423	☐	19-040	low grade		☐	☐	☐
33.53	34.75	1.22	GRD	1.21	99	W603425	☐	19-040	low grade		☐	☐	☐
46.30	47.53	1.23	GRD	1.00	81	W603426	☐	19-040	low grade		☐	☐	☐
47.53	48.28	0.75	GRD	0.68	91	W603427	☐	19-040	low grade		☐	☐	☐
48.28	49.37	1.09	GRD	1.03	94	W603428	☐	19-040	low grade		☐	☐	☐
49.37	50.00	0.63	GRD	0.63	100	W603429	☐	19-040	low grade		☐	☐	☐
50.00	50.42	0.42	GRD	0.38	90	W603430	☐	19-040	low grade		☐	☐	☐
50.42	51.82	1.40	GRD	1.14	81	W603431	☐	19-040	low grade		☐	☐	☐
51.82	54.18	2.36	GRD	2.35	100	W603432	☐	19-040	low grade		☐	☐	☐
51.82	54.18	2.36	GRD	2.35	100	W603433	☐	19-040	low grade		☐	☐	☑
54.18	55.26	1.08	GRD	1.05	97	W603434	☐	19-040	low grade		☐	☐	☐
55.26	56.12	0.86	GRD	0.86	100	W603435	☐	19-040	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
56.12	56.80	0.68	GRD	0.68	100	W603436	☐	19-040	low grade		☐	☐	☐
56.80	57.91	1.11	GRD	1.11	100	W603438	☐	19-040	low grade		☐	☐	☐
57.91	59.15	1.24	GRD	1.10	89	W603439	☐	19-040	low grade		☐	☐	☐
59.15	59.55	0.40	GRD	0.40	100	W603440	☐	19-040	low grade		☐	☐	☐
59.55	60.56	1.01	GRD	0.90	89	W603441	☐	19-040	low grade		☐	☐	☐
60.56	61.00	0.44	GRD	0.41	93	W603442	☐	19-042	low grade		☐	☐	☐
61.00	62.48	1.48	GRD	1.48	100	W603443	☐	19-042	low grade		☐	☐	☐
62.48	64.09	1.61	GRD	1.39	86	W603445	☐	19-042	low grade		☐	☐	☐
64.09	65.53	1.44	GRD	0.81	56	W603446	☐	19-042	low grade		☐	☐	☐
65.53	66.91	1.38	GRD, GRD	0.57	41	W603447	☐	19-042	low grade		☐	☐	☐
66.91	68.58	1.67	GRD	0.74	44	W603448	☐	19-042	low grade		☐	☐	☐
68.58	69.92	1.34	GRD	0.95	71	W603449	☐	19-042	low grade		☐	☐	☐
69.92	70.41	0.49	GRD	0.42	86	W603450	☐	19-042	low grade		☐	☐	☐
70.41	70.74	0.33	GRD	0.30	91	W603451	☐	19-042	low grade		☐	☐	☐
70.74	71.76	1.02	GRD	0.87	85	W603452	☐	19-042	low grade		☐	☐	☐
70.74	71.76	1.02	GRD	0.87	85	W603453	☐	19-042	low grade		☐	☐	☑
71.76	73.35	1.59	GRD	0.85	53	W603454	☐	19-042	low grade		☐	☐	☐
73.35	75.18	1.83	GRD	1.51	83	W603455	☐	19-042	low grade		☐	☐	☐
75.18	75.75	0.57	GRD	0.55	96	W603456	☐	19-042	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
75.75	77.72	1.97	GRD	0.95	48	W603457	☐	19-042	low grade		☐	☐	☐
86.87	88.85	1.98	GRD	1.25	63	W603475	☐	19-042	low grade		☐	☐	☐
88.85	90.37	1.52	GRD	1.13	74	W603463	☐	19-042	low grade		☐	☐	☐
99.54	100.67	1.13	GRD	0.88	78	W603458	☐	19-042	low grade		☐	☐	☐
100.67	101.29	0.62	GRD	0.62	100	W603459	☐	19-042	low grade		☐	☐	☐
101.29	102.15	0.86	GRD	0.86	100	W603461	☐	19-042	low grade		☐	☐	☐
102.15	102.85	0.70	GRD	0.60	86	W603462	☐	19-042	low grade		☐	☐	☐
102.85	103.37	0.52	VEN	0.50	96	W599188	☐	19-049	high grade		☐	☐	☐
103.37	103.82	0.45	VEN	0.45	100	W603464	☐	19-042	low grade		☐	☐	☐
103.82	104.69	0.87	VEN	0.78	90	W603465	☐	19-042	low grade		☐	☐	☐
104.69	105.57	0.88	VEN	0.87	99	W603466	☐	19-042	low grade		☐	☐	☐
105.57	105.87	0.30	VEN	0.30	100	W603467	☐	19-042	low grade		☐	☐	☐
105.87	106.68	0.81	VEN	0.57	70	W603468	☐	19-042	low grade		☐	☐	☐
106.68	108.27	1.59	VEN	1.52	96	W603469	☐	19-042	low grade		☐	☐	☐
106.68	108.27	1.59	VEN	1.52	96	W603470	☐	19-042	low grade		☐	☑	☐
108.27	109.14	0.87	VEN	0.71	82	W603471	☐	19-042	low grade		☐	☐	☐
109.14	110.00	0.86	VEN	0.86	100	W603472	☐	19-042	low grade		☐	☐	☐
113.61	114.86	1.25	GRD	0.99	79	W603473	☐	19-042	low grade		☐	☐	☐
114.86	115.92	1.06	GRD	0.92	87	W603474	☐	19-042	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
115.92	116.31	0.39	GRD	0.39	100	W599189	☐	19-049	high grade		☐	☐	☐
116.31	117.19	0.88	GRD	0.83	94	W603477	☐	19-042	low grade		☐	☐	☐
117.19	118.00	0.81	GRD	0.41	51	W603478	☐	19-042	low grade		☐	☐	☐
118.00	119.39	1.39	GRD	0.97	70	W603479	☐	19-042	low grade		☐	☐	☐
119.39	120.63	1.24	GRD	0.61	49	W603480	☐	19-042	low grade		☐	☐	☐
120.63	122.66	2.03	GRD	1.53	75	W603481	☐	19-042	low grade		☐	☐	☐
122.66	123.67	1.01	GRD	0.82	81	W603482	☐	19-047	low grade		☐	☐	☐
123.67	125.20	1.53	GRD	1.17	76	W603483	☐	19-047	low grade		☐	☐	☐
125.20	126.10	0.90	GRD, VEN	0.57	63	W599184	☐	19-006	High grade		☐	☐	☐
125.20	126.10	0.90	GRD, VEN	0.57	63	W599185	☐	19-006	High grade		☐	☐	☑
126.10	127.17	1.07	VEN	0.70	65	W603484	☐	19-047	low grade		☐	☐	☐
127.17	128.20	1.03	GRD	0.82	80	W603485	☐	19-047	low grade		☐	☐	☐
128.20	129.97	1.77	GRD	0.95	54	W603486	☐	19-047	low grade		☐	☐	☐
129.97	132.59	2.62	GRD	2.00	76	W603509	☐	19-047	low grade		☐	☐	☐
132.59	133.84	1.25	GRD	1.05	84	W603488	☐	19-047	low grade		☐	☐	☐
133.84	134.30	0.46	VEN	0.36	78	W599187	☐	19-049	high grade		☐	☐	☐
134.30	135.94	1.64	GRD	0.91	55	W603489	☐	19-047	low grade		☐	☐	☐
135.94	137.06	1.12	GRD	0.72	64	W603490	☐	19-047	low grade		☐	☐	☐
137.06	138.68	1.62	GRD	0.65	40	W603491	☐	19-047	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
138.68	140.95	2.27	GRD	1.10	48	W603492	☐	19-047	low grade		☐	☐	☐
140.95	142.70	1.75	GRD	0.90	51	W603493	☐	19-047	low grade		☐	☐	☐
142.70	144.78	2.08	GRD	0.98	47	W603494	☐	19-047	low grade		☐	☐	☐
142.70	144.78	2.08	GRD	0.98	47	W603495	☐	19-047	low grade		☐	☐	☑
144.78	145.75	0.97	GRD	0.90	93	W603496	☐	19-047	low grade		☐	☐	☐
145.75	147.44	1.69	GRD	0.87	51	W603497	☐	19-047	low grade		☐	☐	☐
147.44	149.05	1.61	GRD	1.00	62	W603498	☐	19-047	low grade		☐	☐	☐
149.05	149.35	0.30	GRD	0.23	77	W599190	☐	19-049	high grade		☐	☐	☐
149.35	150.56	1.21	VEN, GRD	1.10	91	W603499	☐	19-047	low grade		☐	☐	☐
150.56	151.37	0.81	GRD	0.51	63	W603500	☐	19-047	low grade		☐	☐	☐
160.02	160.94	0.92	GRD	0.92	100	W603502	☐	19-047	low grade		☐	☐	☐
160.94	161.97	1.03	GRD	1.03	100	W603503	☐	19-047	low grade		☐	☐	☐
161.97	162.63	0.66	GRD	0.66	100	W603504	☐	19-047	low grade		☐	☐	☐
162.63	163.21	0.58	GRD, GRD	0.56	97	W603505	☐	19-047	low grade		☐	☐	☐
163.21	164.26	1.05	GRD	1.05	100	W603506	☐	19-047	low grade		☐	☐	☐
164.26	165.34	1.08	GRD	1.08	100	W603507	☐	19-047	low grade		☐	☐	☐
164.26	165.34	1.08	GRD	1.08	100	W603508	☐	19-047	low grade		☐	☑	☐
166.52	169.17	2.65	GRD	2.20	83	W603510	☐	19-047	low grade		☐	☐	☐
169.17	169.60	0.43	GRD	0.43	100	W603511	☐	19-047	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
169.60	170.90	1.30	GRD	1.27	98	W603512	☐	19-047	low grade		☐	☐	☐
170.90	173.11	2.21	GRD	2.20	100	W603513	☐	19-047	low grade		☐	☐	☐
173.11	174.14	1.03	GRD	1.00	97	W603514	☐	19-047	low grade		☐	☐	☐
174.14	174.61	0.47	GRD	0.32	68	W603515	☐	19-047	low grade		☐	☐	☐
174.61	175.00	0.39	GRD	0.39	100	W603517	☐	19-047	low grade		☐	☐	☐
175.00	176.00	1.00	GRD	1.00	100	W603518	☐	19-047	low grade		☐	☐	☐
176.00	177.00	1.00	GRD	1.00	100	W603519	☐	19-047	low grade		☐	☐	☐
177.00	180.00	3.00	GRD	3.00	100	W603520	☐	19-047	low grade		☐	☐	☐
180.00	180.58	0.58	GRD	0.58	100	W603521	☐	19-047	low grade		☐	☐	☐
180.58	181.72	1.14	GRD	1.14	100	W603522	☐	19-051	low grade		☐	☐	☐
181.72	182.69	0.97	GRD	0.96	99	W603523	☐	19-051	low grade		☐	☐	☐
182.69	183.35	0.66	GRD	0.66	100	W603524	☐	19-051	low grade		☐	☐	☐
183.35	183.65	0.30	GRD	0.30	100	W603525	☐	19-051	low grade		☐	☐	☐
183.65	184.70	1.05	GRD	1.05	100	W603526	☐	19-051	low grade		☐	☐	☐
191.40	192.24	0.84	GRD	0.84	100	W603544	☐	19-051	low grade		☐	☐	☐
192.24	192.68	0.44	GRD	0.44	100	W603546	☐	19-051	low grade		☐	☐	☐
192.68	193.95	1.27	GRD	0.77	61	W603547	☐	19-051	low grade		☐	☐	☐
193.95	194.26	0.31	GRD	0.31	100	W603548	☐	19-051	low grade		☐	☐	☐
194.26	195.20	0.94	GRD	0.94	100	W603549	☐	19-051	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
199.64	200.77	1.13	GRD	1.07	95	W603527	☐	19-051	low grade		☐	☐	☐
200.77	201.17	0.40	GRD	0.40	100	W599191	☐	19-049	high grade		☐	☐	☐
201.17	202.27	1.10	GRD	1.10	100	W603528	☐	19-051	low grade		☐	☐	☐
202.27	202.92	0.65	GRD	0.65	100	W603529	☐	19-051	low grade		☐	☐	☐
202.92	203.32	0.40	GRD	0.40	100	W603530	☐	19-051	low grade		☐	☐	☐
202.92	203.32	0.40	GRD	0.40	100	W603531	☐	19-051	low grade		☐	☐	☑
203.32	204.32	1.00	GRD	1.00	100	W603543	☐	19-051	low grade		☐	☐	☐
213.97	214.48	0.51	GRD	0.51	100	W603532	☐	19-051	low grade		☐	☐	☐
225.60	226.60	1.00	GRD	1.00	100	W603533	☐	19-051	low grade		☐	☐	☐
226.60	227.02	0.42	GRD	0.35	83	W603534	☐	19-051	low grade		☐	☐	☐
227.02	228.00	0.98	GRD	0.98	100	W603536	☐	19-051	low grade		☐	☐	☐
233.70	234.70	1.00	GRD	1.00	100	W603537	☐	19-051	low grade		☐	☐	☐
234.70	235.25	0.55	GRD	0.47	85	W599192	☐	19-049	high grade		☐	☐	☐
235.25	236.22	0.97	GRD	0.97	100	W603538	☐	19-051	low grade		☐	☐	☐
240.16	241.23	1.07	GRD	1.00	93	W603539	☐	19-051	low grade		☐	☐	☐
241.23	242.50	1.27	GRD	1.17	92	W603540	☐	19-051	low grade		☐	☐	☐
242.50	243.17	0.67	GRD	0.67	100	W603541	☐	19-051	low grade		☐	☐	☐
243.17	244.17	1.00	GRD	1.00	100	W603542	☐	19-051	low grade		☐	☐	☐
247.61	248.86	1.25	GRD	1.22	98	W603550	☐	19-051	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
248.86	249.86	1.00	GRD	0.95	95	W603551	☐	19-051	low grade		☐	☐	☐
249.86	250.86	1.00	GRD	0.99	99	W603552	☐	19-051	low grade		☐	☐	☐
250.86	252.37	1.51	GRD	1.50	99	W603553	☐	19-051	low grade		☐	☐	☐
250.86	252.37	1.51	GRD	1.50	99	W603554	☐	19-051	low grade		☐	☑	☐
252.37	254.36	1.99	GRD	1.99	100	W603555	☐	19-051	low grade		☐	☐	☐
254.36	255.00	0.64	GRD	0.63	98	W603556	☐	19-051	low grade		☐	☐	☐
255.00	256.00	1.00	GRD	1.00	100	W603557	☐	19-051	low grade		☐	☐	☐
256.00	257.00	1.00	GRD	1.00	100	W603558	☐	19-051	low grade		☐	☐	☐
265.28	266.30	1.02	GRD	1.02	100	W603559	☐	19-051	low grade		☐	☐	☐
266.30	267.46	1.16	GRD	1.00	86	W603561	☐	19-051	low grade		☐	☐	☐
267.46	267.79	0.33	VEN	0.33	100	W603562	☐	19-055	low grade		☐	☐	☐
267.79	268.20	0.41	VEN	0.37	90	W603563	☐	19-055	low grade		☐	☐	☐
268.20	268.54	0.34	VEN	0.33	97	W603564	☐	19-055	low grade		☐	☐	☐
268.54	269.00	0.46	VEN	0.43	93	W599194	☐	19-049	high grade		☐	☐	☐
269.00	270.60	1.60	VEN	1.50	94	W603565	☐	19-055	low grade		☐	☐	☐
270.60	270.90	0.30	VEN	0.30	100	W603566	☐	19-055	low grade		☐	☐	☐
270.90	271.54	0.64	VEN	0.64	100	W603567	☐	19-055	low grade		☐	☐	☐
271.54	273.50	1.96	GRD	1.96	100	W603568	☐	19-055	low grade		☐	☐	☐
273.50	274.97	1.47	GRD	1.39	95	W603570	☐	19-055	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
274.97	276.00	1.03	GRD	1.02	99	W603571	☐	19-055	low grade		☐	☐	☐
276.00	278.26	2.26	GRD	2.25	100	W603572	☐	19-055	low grade		☐	☐	☐
278.26	278.66	0.40	GRD	0.40	100	W603573	☐	19-055	low grade		☐	☐	☐
278.66	280.72	2.06	GRD	1.98	96	W603574	☐	19-055	low grade		☐	☐	☐
278.66	280.72	2.06	GRD	1.98	96	W603575	☐	19-055	low grade		☐	☑	☐
280.72	281.72	1.00	GRD	1.00	100	W603576	☐	19-055	low grade		☐	☐	☐
281.72	282.05	0.33	GRD	0.31	94	W599195	☐	19-049	high grade		☐	☐	☐
282.05	283.16	1.11	GRD	1.00	90	W603577	☐	19-055	low grade		☐	☐	☐
283.16	283.54	0.38	GRD	0.38	100	W599196	☐	19-049	high grade		☐	☐	☐
283.54	284.63	1.09	GRD	1.09	100	W603578	☐	19-055	low grade		☐	☐	☐
284.63	285.68	1.05	GRD	1.01	96	W603579	☐	19-055	low grade		☐	☐	☐
301.75	302.76	1.01	GRD	0.94	93	W603580	☐	19-055	low grade		☐	☐	☐
302.76	303.76	1.00	GRD	1.00	100	W603581	☐	19-055	low grade		☐	☐	☐
303.76	304.76	1.00	GRD	0.92	92	W603582	☐	19-055	low grade		☐	☐	☐
304.76	305.75	0.99	GRD	0.95	96	W603583	☐	19-055	low grade		☐	☐	☐
305.75	306.80	1.05	GRD	1.00	95	W603584	☐	19-055	low grade		☐	☐	☐
305.75	306.80	1.05	GRD	1.00	95	W603585	☐	19-055	low grade		☐	☐	☑
306.80	308.30	1.50	GRD	1.42	95	W603586	☐	19-055	low grade		☐	☐	☐
308.30	308.88	0.58	GRD	0.55	95	W603587	☐	19-055	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
308.88	311.07	2.19	GRD	1.78	81	W603588	☐	19-055	low grade		☐	☐	☐
311.07	312.07	1.00	GRD	1.00	100	W603590	☐	19-055	low grade		☐	☐	☐
312.07	312.45	0.38	GRD	0.37	97	W603591	☐	19-055	low grade		☐	☐	☐
312.45	313.38	0.93	GRD	0.83	89	W603592	☐	19-055	low grade		☐	☐	☐
313.38	313.79	0.41	GRD	0.41	100	W599197	☐	19-049	high grade		☐	☐	☐
313.79	314.79	1.00	GRD	0.98	98	W603593	☐	19-055	low grade		☐	☐	☐
314.79	315.86	1.07	GRD	0.94	88	W603594	☐	19-055	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	20.60			☐	☐	☐	☐	
19-042	W603444	0.00	0.00	1.72	230	☐	☐	☐	☑ KL-STD6	Std KL 6
19-042	W603460	0.00	0.00	0.27	580	☐	☐	☐	☑ ME-6	STD ME-6
19-042	W603476	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-051	W603535	0.00	0.00	0.28	530	☐	☐	☐	☑ ME-6	STD ME 16
19-051	W603545	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-051	W603560	0.00	0.00	1.88	160	☐	☐	☐	☑ KL-STD6	STD KL 6
19-040	W603424	0.00	0.00	1.48	120	☐	☐	☐	☑ ME-16	std ME 16
19-040	W603437	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-055	W603569	0.00	0.00	0.25	630	☐	☐	☐	☑ ME-6	STD ME 6
19-055	W603589	0.00	0.00	1.64	460	☐	☐	☐	☑ KL-STD6	std KL6
19-047	W603487	0.00	0.00	1.76	80	☐	☐	☐	☑ KL-STD6	STD KL6
19-047	W603501	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-047	W603516	0.00	0.00	0.26	440	☐	☐	☐	☑ ME-6	STD ME-6

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-040	W603412	20.60	21.85	0.01	1020	☐	☐	☐	☐	
19-040	W603413	21.85	22.15	0.80	880	☐	☐	☐	☐	
19-040	W603414	22.15	22.62	0.04	1020	☐	☐	☐	☐	
19-040	W603415	22.62	24.78	0.00	1100	☐	☐	☐	☐	
19-040	W603416	22.62	24.78	0.00	1180	☑	☐	☐	☐	1/4 dup
19-040	W603417	24.78	25.25	0.02	590	☐	☐	☐	☐	
19-040	W603418	25.25	26.82	0.00	540	☐	☐	☐	☐	
19-040	W603419	26.82	28.23	0.01	660	☐	☐	☐	☐	
19-040	W603420	28.23	29.44	0.00	850	☐	☐	☐	☐	
19-040	W603421	29.44	31.00	0.00	260	☐	☐	☐	☐	
19-040	W603422	31.00	33.04	0.00	530	☐	☐	☐	☐	
19-040	W603423	33.04	33.53	0.00	2000	☐	☐	☐	☐	
19-040	W603425	33.53	34.75	0.00	2410	☐	☐	☐	☐	
		34.75	46.30			☐	☐	☐	☐	
19-040	W603426	46.30	47.53	0.00	1570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-040	W603427	47.53	48.28	0.01	1840	☐	☐	☐	☐	
19-040	W603428	48.28	49.37	0.00	2180	☐	☐	☐	☐	
19-040	W603429	49.37	50.00	0.00	2600	☐	☐	☐	☐	
19-040	W603430	50.00	50.42	0.11	1560	☐	☐	☐	☐	
19-040	W603431	50.42	51.82	0.00	2590	☐	☐	☐	☐	
19-040	W603432	51.82	54.18	0.01	2160	☐	☐	☐	☐	
19-040	W603433	51.82	54.18	0.01	2190	☐	☑	☐	☐	coarse dup
19-040	W603434	54.18	55.26	0.00	1980	☐	☐	☐	☐	
19-040	W603435	55.26	56.12	0.00	930	☐	☐	☐	☐	
19-040	W603436	56.12	56.80	5.08	260	☐	☐	☐	☐	
19-040	W603438	56.80	57.91	0.04	2380	☐	☐	☐	☐	
19-040	W603439	57.91	59.15	0.00	1970	☐	☐	☐	☐	
19-040	W603440	59.15	59.55	0.17	1390	☐	☐	☐	☐	
19-040	W603441	59.55	60.56	0.00	2080	☐	☐	☐	☐	
19-042	W603442	60.56	61.00	0.00	1880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-042	W603443	61.00	62.48	0.00	2320	☐	☐	☐	☐	
19-042	W603445	62.48	64.09	0.00	2330	☐	☐	☐	☐	
19-042	W603446	64.09	65.53	0.00	1830	☐	☐	☐	☐	
19-042	W603447	65.53	66.91	0.45	860	☐	☐	☐	☐	
19-042	W603448	66.91	68.58	0.00	1490	☐	☐	☐	☐	
19-042	W603449	68.58	69.92	0.06	1290	☐	☐	☐	☐	
19-042	W603450	69.92	70.41	0.00	1010	☐	☐	☐	☐	
19-042	W603451	70.41	70.74	0.08	830	☐	☐	☐	☐	
19-042	W603452	70.74	71.76	0.00	1780	☐	☐	☐	☐	
19-042	W603453	70.74	71.76	0.00	1810	☐	☑	☐	☐	coarse dup
19-042	W603454	71.76	73.35	0.00	1850	☐	☐	☐	☐	
19-042	W603455	73.35	75.18	0.03	1870	☐	☐	☐	☐	
19-042	W603456	75.18	75.75	0.14	1000	☐	☐	☐	☐	
19-042	W603457	75.75	77.72	0.00	1950	☐	☐	☐	☐	
		77.72	86.87			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-042	W603475	86.87	88.85	0.02	1530	☐	☐	☐	☐	
19-042	W603463	88.85	90.37	0.05	3710	☐	☐	☐	☐	
		90.37	99.54			☐	☐	☐	☐	
19-042	W603458	99.54	100.67	0.00	2490	☐	☐	☐	☐	
19-042	W603459	100.67	101.29	0.07	1450	☐	☐	☐	☐	
19-042	W603461	101.29	102.15	0.01	2230	☐	☐	☐	☐	
19-042	W603462	102.15	102.85	0.01	1930	☐	☐	☐	☐	
19-049	W599188	102.85	103.37	1.57	240	☐	☐	☐	☐	
19-042	W603464	103.37	103.82	0.92	480	☐	☐	☐	☐	
19-042	W603465	103.82	104.69	0.05	1160	☐	☐	☐	☐	
19-042	W603466	104.69	105.57	0.00	1930	☐	☐	☐	☐	
19-042	W603467	105.57	105.87	0.24	490	☐	☐	☐	☐	
19-042	W603468	105.87	106.68	0.01	490	☐	☐	☐	☐	
19-042	W603469	106.68	108.27	0.02	1110	☐	☐	☐	☐	
19-042	W603470	106.68	108.27	0.01	790	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-042	W603471	108.27	109.14	0.23	490	☐	☐	☐	☐	
19-042	W603472	109.14	110.00	0.00	2250	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-042	W603473	113.61	114.86	0.04	2250	☐	☐	☐	☐	
19-042	W603474	114.86	115.92	0.04	1840	☐	☐	☐	☐	
19-049	W599189	115.92	116.31	5.28	250	☐	☐	☐	☐	
19-042	W603477	116.31	117.19	0.15	1640	☐	☐	☐	☐	
19-042	W603478	117.19	118.00	3.69	290	☐	☐	☐	☐	
19-042	W603479	118.00	119.39	0.03	2390	☐	☐	☐	☐	
19-042	W603480	119.39	120.63	0.31	1000	☐	☐	☐	☐	
19-042	W603481	120.63	122.66	0.05	1940	☐	☐	☐	☐	
19-047	W603482	122.66	123.67	0.03	1420	☐	☐	☐	☐	
19-047	W603483	123.67	125.20	0.02	1500	☐	☐	☐	☐	
19-006	W599184	125.20	126.10	7.11	170	☐	☐	☐	☐	
19-006	W599185	125.20	126.10	6.43	330	☐	☑	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-047	W603484	126.10	127.17	0.02	2150	☐	☐	☐	☐	
19-047	W603485	127.17	128.20	0.02	2050	☐	☐	☐	☐	
19-047	W603486	128.20	129.97	0.02	1730	☐	☐	☐	☐	
19-047	W603509	129.97	132.59	0.00	2280	☐	☐	☐	☐	
19-047	W603488	132.59	133.84	0.02	1730	☐	☐	☐	☐	
19-049	W599187	133.84	134.30	3.72	190	☐	☐	☐	☐	
19-047	W603489	134.30	135.94	0.01	2240	☐	☐	☐	☐	
19-047	W603490	135.94	137.06	0.03	2440	☐	☐	☐	☐	
19-047	W603491	137.06	138.68	0.00	2200	☐	☐	☐	☐	
19-047	W603492	138.68	140.95	0.00	2390	☐	☐	☐	☐	
19-047	W603493	140.95	142.70	0.00	2380	☐	☐	☐	☐	
19-047	W603494	142.70	144.78	0.02	1480	☐	☐	☐	☐	
19-047	W603495	142.70	144.78	0.02	1520	☐	☑	☐	☐	coarse reject
19-047	W603496	144.78	145.75	0.00	1460	☐	☐	☐	☐	
19-047	W603497	145.75	147.44	0.05	1700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-047	W603498	147.44	149.05	0.00	2250	☐	☐	☐	☐	
19-049	W599190	149.05	149.35	3.48	50	☐	☐	☐	☐	
19-047	W603499	149.35	150.56	0.00	2170	☐	☐	☐	☐	
19-047	W603500	150.56	151.37	0.00	2420	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-047	W603502	160.02	160.94	0.00	2130	☐	☐	☐	☐	
19-047	W603503	160.94	161.97	0.01	1950	☐	☐	☐	☐	
19-047	W603504	161.97	162.63	0.18	1210	☐	☐	☐	☐	
19-047	W603505	162.63	163.21	0.00	2600	☐	☐	☐	☐	
19-047	W603506	163.21	164.26	0.00	2200	☐	☐	☐	☐	
19-047	W603507	164.26	165.34	0.00	2440	☐	☐	☐	☐	
19-047	W603508	164.26	165.34	0.00	2430	☑	☐	☐	☐	1/4 dup
		######	######			☐	☐	☐	☐	
19-047	W603510	166.52	169.17	0.00	2110	☐	☐	☐	☐	
19-047	W603511	169.17	169.60	0.60	310	☐	☐	☐	☐	
19-047	W603512	169.60	170.90	0.00	1930	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-047	W603513	170.90	173.11	0.00	2370	☐	☐	☐	☐	
19-047	W603514	173.11	174.14	0.00	2160	☐	☐	☐	☐	
19-047	W603515	174.14	174.61	1.47	310	☐	☐	☐	☐	
19-047	W603517	174.61	175.00	3.50	290	☐	☐	☐	☐	
19-047	W603518	175.00	176.00	0.00	2500	☐	☐	☐	☐	
19-047	W603519	176.00	177.00	0.00	2480	☐	☐	☐	☐	
19-047	W603520	177.00	180.00	0.00	2510	☐	☐	☐	☐	
19-047	W603521	180.00	180.58	0.00	2250	☐	☐	☐	☐	
19-051	W603522	180.58	181.72	0.32	930	☐	☐	☐	☐	
19-051	W603523	181.72	182.69	2.05	340	☐	☐	☐	☐	
19-051	W603524	182.69	183.35	0.03	1250	☐	☐	☐	☐	
19-051	W603525	183.35	183.65	4.40	420	☐	☐	☐	☐	
19-051	W603526	183.65	184.70	0.00	2240	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603544	191.40	192.24	0.00	2300	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-051	W603546	192.24	192.68	0.02	2060	☐	☐	☐	☐	
19-051	W603547	192.68	193.95	0.04	2020	☐	☐	☐	☐	
19-051	W603548	193.95	194.26	0.03	520	☐	☐	☐	☐	
19-051	W603549	194.26	195.20	0.00	2360	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603527	199.64	200.77	0.00	2130	☐	☐	☐	☐	
19-049	W599191	200.77	201.17	0.94	420	☐	☐	☐	☐	
19-051	W603528	201.17	202.27	0.01	2160	☐	☐	☐	☐	
19-051	W603529	202.27	202.92	0.00	2230	☐	☐	☐	☐	
19-051	W603530	202.92	203.32	0.05	2280	☐	☐	☐	☐	
19-051	W603531	202.92	203.32	0.06	2280	☐	☑	☐	☐	coarse dup
19-051	W603543	203.32	204.32	0.00	2220	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603532	213.97	214.48	0.57	290	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603533	225.60	226.60	0.01	2150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-051	W603534	226.60	227.02	0.04	1580	☐	☐	☐	☐	
19-051	W603536	227.02	228.00	0.00	2300	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603537	233.70	234.70	0.00	1960	☐	☐	☐	☐	
19-049	W599192	234.70	235.25	0.52	340	☐	☐	☐	☐	
19-051	W603538	235.25	236.22	0.00	2260	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603539	240.16	241.23	0.00	2320	☐	☐	☐	☐	
19-051	W603540	241.23	242.50	0.04	2040	☐	☐	☐	☐	
19-051	W603541	242.50	243.17	0.13	1690	☐	☐	☐	☐	
19-051	W603542	243.17	244.17	0.00	2340	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603550	247.61	248.86	0.00	2460	☐	☐	☐	☐	
19-051	W603551	248.86	249.86	0.00	2060	☐	☐	☐	☐	
19-051	W603552	249.86	250.86	0.01	2230	☐	☐	☐	☐	
19-051	W603553	250.86	252.37	0.01	2100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-051	W603554	250.86	252.37	0.01	2120	☑	☐	☐	☐	1/4 dup
19-051	W603555	252.37	254.36	0.00	2240	☐	☐	☐	☐	
19-051	W603556	254.36	255.00	0.06	1180	☐	☐	☐	☐	
19-051	W603557	255.00	256.00	0.00	2240	☐	☐	☐	☐	
19-051	W603558	256.00	257.00	0.00	2450	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-051	W603559	265.28	266.30	0.00	2420	☐	☐	☐	☐	
19-051	W603561	266.30	267.46	0.00	2370	☐	☐	☐	☐	
19-055	W603562	267.46	267.79	0.33	1540	☐	☐	☐	☐	
19-055	W603563	267.79	268.20	0.14	160	☐	☐	☐	☐	
19-055	W603564	268.20	268.54	0.28	230	☐	☐	☐	☐	
19-049	W599194	268.54	269.00	3.03	140	☐	☐	☐	☐	
19-055	W603565	269.00	270.60	0.08	1800	☐	☐	☐	☐	
19-055	W603566	270.60	270.90	1.03	560	☐	☐	☐	☐	
19-055	W603567	270.90	271.54	0.02	2290	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-055	W603568	271.54	273.50	0.00	2590	☐	☐	☐	☐	
19-055	W603570	273.50	274.97	0.00	2170	☐	☐	☐	☐	
19-055	W603571	274.97	276.00	0.00	2000	☐	☐	☐	☐	
19-055	W603572	276.00	278.26	0.01	2270	☐	☐	☐	☐	
19-055	W603573	278.26	278.66	0.15	1510	☐	☐	☐	☐	
19-055	W603574	278.66	280.72	0.01	2130	☐	☐	☐	☐	
19-055	W603575	278.66	280.72	0.01	2160	☑	☐	☐	☐	1/4 dup
19-055	W603576	280.72	281.72	0.04	1390	☐	☐	☐	☐	
19-049	W599195	281.72	282.05	0.72	320	☐	☐	☐	☐	
19-055	W603577	282.05	283.16	0.01	2230	☐	☐	☐	☐	
19-049	W599196	283.16	283.54	2.33	320	☐	☐	☐	☐	
19-055	W603578	283.54	284.63	0.01	1540	☐	☐	☐	☐	
19-055	W603579	284.63	285.68	0.00	2270	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-055	W603580	301.75	302.76	0.01	2320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-055	W603581	302.76	303.76	0.02	3350	☐	☐	☐	☐	
19-055	W603582	303.76	304.76	0.00	2300	☐	☐	☐	☐	
19-055	W603583	304.76	305.75	0.00	2230	☐	☐	☐	☐	
19-055	W603584	305.75	306.80	0.00	2300	☐	☐	☐	☐	
19-055	W603585	305.75	306.80	0.00	2280	☐	☑	☐	☐	coarse reject
19-055	W603586	306.80	308.30	0.01	2090	☐	☐	☐	☐	
19-055	W603587	308.30	308.88	0.06	1970	☐	☐	☐	☐	
19-055	W603588	308.88	311.07	0.00	2530	☐	☐	☐	☐	
19-055	W603590	311.07	312.07	0.01	2110	☐	☐	☐	☐	
19-055	W603591	312.07	312.45	0.06	370	☐	☐	☐	☐	
19-055	W603592	312.45	313.38	0.01	2400	☐	☐	☐	☐	
19-049	W599197	313.38	313.79	0.51	210	☐	☐	☐	☐	
19-055	W603593	313.79	314.79	0.00	2310	☐	☐	☐	☐	
19-055	W603594	314.79	315.86	0.00	2350	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
21.95	22.14	VN	37	40	NUL	1	6cm banded quartz carbonate vein found along the footwall of a 5cm clay gouged fault zone/shear. Quartz vein has bands of white carbonate that form thin wisps. Hosts disseminated pyrite, arsenopyrite, sphalerite (blackjack) and trace galena.			
								Py	8	DI
								Sp	2	DI
								Gn	0.2	DI
								As	4	DI
26.83	27.45	FT	42	50	NUL	4	weakly phyllic altered granodiorite with clay gouged and faulted fractures cutting throughout. Four faulted structures cut unit at sporadic attitudes, but overall at 50TCA. Structures are defined by bleached white/brown clay and pebbly rubble.			
29.32	29.45	FT	42	65	NUL	1	Clay fault zone found at the contact between overlying , medium green, weakly phyllic altered granodiorite (hanging wall) and maroon quartz feldspar porphyry dyke. Quartz eye fragments found in the clay gouge, along with smeared dark grey sulphide clay patches.			
								Py	1	DI
33.05	33.11	FT	42	60	NUL	1	Clay fault zone found at the contact between overlying red/maroon quartz feldspar porphyry dyke and bleached argillic altered granodiorite. QFP is bleached to grey along contact.			
35.78	35.80	DY	37	60	NUL	1	medium to dark pink, fine grained aplite dyke.			
42.10	42.20	VN	37	62	NUL	1	milky quartz and carbonate vein cutting weakly propylitic altered granodiorite. Vein is slightly brecciated, with quartz fragments. Vein area is strongly oxidized from deep fracture network (?).			
43.30	43.45	FT	42	80	NUL	1	clay gouged fault zone within granodiorite. Footwall zone is blue/grey and strongly clay altered, while footwall rocks are intensely fractured and broken.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
50.20	50.23	VN	37	55	NUL	1	2cm quartz carbonate breccia vein cutting weakly phyllic altered granodiorite. Minor carbonate is present as bands along the selvedge of the vein. Quartz clasts are present within quartz and smokey quartz vein (quartz brecciating quartz indicates multi-phase). Breccia vein hosts disseminated pyrite throughout.			
								Py	6	DI
52.42	52.48	VN	37	50	NUL	1	Net textured veinlet swarm consisting of white carbonate, ankerite and possibly rhodochrosite(?) (very faint pink colouration).			
								Rh	5	BN
								Ak	5	BN
54.23	54.27	VT	37	60	NUL	1	green chalcedony vein with minor carbonate along selvedges. Disseminated pyrite is found along selvedges near carbonate stringers. Found within an area of granodiorite that has strong oxidation along fracture planes.			
								Py	2	DI
59.18	59.25	VN	37	-	NUL	1	Intensely gouged and oxidized vein zone consisting of bleached white and vibrant orange limonitic clay. Fragments of massive pyrite present within. Zone is rubbly and decomposed, so measurements on orientation are not possible.			
								Py	13	MA
60.90	90.64	ST		-	NUL	1	network of fine carbonate stringers that are oxidized along stringer and fracture planes.			
64.10	64.12	VT	37	25	NUL	1	White to tan carbonate/ankerite veinlet cutting weakly propylitic altered granodiorite.			
66.40	66.42	VT	37	15	NUL	1	Intensely fractured and rubbled zoe of phyllic altered granodiorite. Alteration grades distally to argillic alteration. 1.5cm quartz veinlet cuts GRD, hosting disseminated blebs of pyrite, sphalerite and galena.			
								Gn	1	BL
								Py	5	DI
								Sp	2	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
70.46	70.50	GO	34	60	NUL	1	Black smeared sulphide gouge found along the contact between rubbly and strongly decomposed fault zone (above) and phyllic altered granodiorite that grades into unaltered GRD. Black gouge carries disseminated and coarse euhedral pyrite (fractured and broken). Slickenlines present along gouge.			
								Py	4	DI
75.19	75.36	VN	37	85	NUL	2	Bleached white and green fault gouge zone consisting of fragmented and rounded granodiorite pebbles and clay sitting atop (HW) a quartz-black smokey quartz breccia vein (7cm). Smokey quartz brecciates white quartz, and carries disseminated pyrite throughout the entire vein zone.			
								Py	7	DI
78.44	78.46	VT	37	15	NUL	1	Loww angle carbonate veinlet cutting propylitic altered granodiorite. Vein is offset by fractures (cm scale).			
88.40	84.00	VN	37	-	NUL	4	Intensely rubbly and fractured zone of phyllic altered granodiorite. Rubble zone carries fragments of quartz carbonate veining that hosts disseminated to blebby pyrite.			
								Py	3	DI
								Py	1	BL
101.26	101.29	VN	37	50	NUL	1	2 cm quartz carbonate vein hosted within propylitic and phyllic altered granodiorite. Quartz and carbonate are inter-banded throughout vein. Hosts disseminated pyrite, arsenopyrite and sphalerite with trace galean.			
								Sp	2	DI
								Py	4	DI
								Gn	0.1	DI
								As	2	DI
102.88	102.94	VN	37	50	NUL	1	banded quartz carbonate vein cutting phyllic altered granodiorite along the footwall of rubbly and clay gouged shear/fault zone (cm scale). Vein hosts blebby pyrite, galena, black to red sphalerite and minor dissemianted arsenopyrite. Carbonate veining eminates from the vein along fracture plans (fractures are earlier than veining), and a disseminated pyrite halo is present around vein.			
								Sp	3	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	2	BL
								Py	9	BL
								As	1	DI
103.50	103.86	VN	37	40	NUL	1	Faulted vein zone within rubbly and decomposed propylitic altered granodiorite. Fault vein zone is comprised of a single main quartz carbonate vein (6cm) wwith blebby sphalerite, galena, pyrite, surrounded by strongly faulted granodiorite that carries blebby sulphides and carbonate fragments throughout. Fault selvedges are bleached clay gouge.			
								Py	3	BL
								Sp	2	BL
								Gn	1	DI
104.19	104.63	FT	42	30	NUL	1	Fractured and gougey zone of phyllic altered granodiorite hosting a gouged and rubbly, smokey and white quartz carbonate vein to vein breccia (7cm). Minor disseminated pyrite and sphalerite is present within.			
								Sp	1	DI
								Py	3	DI
105.72	105.82	VN	37	-	NUL	1	Faulted quartz vein icutting pale green altered granodiorite that is partially faulted and rubbly. Vein zone is intensely fractured, but fragments hosts abundant disseminated and blebby pyrite.			
108.27	108.61	FT	42	-	NUL	1	Intensely decomposed and friable phyllic altered granodiorite that makes up a mineralized fault zone. Strongly gouged granodiorite hosts disseminated pyrite, black sulphide smear and smokey grey streaks throughout. Zone is found on the footwall of a quartz carbonate breccia zone.			
								Py	3	DI
108.61	108.76	VB	37	70	NUL	1	Quartz carbonate (dominantly white carbonate) and minor ankerite breccia zone fount along the footwall of mineralized fault zone. Quartz and carbonate is intermixed in breccia matrix, but quartz clasts are dominant breccia clasts. Blebs of galena, sphalerite and pyrite are found within. Sulphide stringers eminate from the footwall of the vein breccia zone.			
								Gn	3	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2	BL
								Sp	1	BL
110.94	110.96	VN	37	60	NUL	1	quartz carbonate vein (barren) found along hematite/chlorite slickenside joint plane.			
116.05	116.20	VB	37	57	NUL	1	Massive quartz carbonate breccia vein within phyllic altered granodiorite. Quartz breccia vein has ankerite throughout, which brecciates quartz (enveloped quartz fragments and clasts within ankerite). Breccia zone hosts massive blackjack to red sphalerite, and blebby to disseminated galena throughout. Minor pyrite is also present.			
								Py	1	DI
								Gn	4	BL
								Sp	10	MA
117.22	117.39	VB	37	50	NUL	1	Quartz-smokey quartz-carbonate vein breccia zone found within rubbly and gouged phyllic altered granodiorite. Vein hosts disseminated pyrite, arsenopyrite and trace galena throughout. Vein breccia is truncated and offset (cm scale) by fractures and shear zones within the soft decomposing granodiorite interval.			
								Py	5	DI
								As	1	DI
134.00	134.17	VN	37	25	NUL	1	Highly fractured vein zone with poor recovery. Massive sulphide vein cutting strongly phyllic altered granodiorite in above hanging wall and strongly argillic/propylitic altered granodiorite below (footwall). Massive sulphide vein has HW contact of 25-30 TCA, but lower contact is destroyed. Vein hosts massive galena that forms a solid and defined centre-line vein which is zoned by massive banded arsenopyrite, pyrite and blackjack sphalerite.			
								Gn	20	MA
								Sp	4	BL
								As	15	MA
								Py	15	MA

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
149.05	149.30	VN	37	-	NUL	1	Vein zone - ground up due to poor ground conditions. Banded quartz-carbonate breccia vein cuts potoassic/argillic altered granodiorite along the hangingwall, and propylitic/phyllic alteration along the footwall. Quartz beccia vein has clasts of quartz and carbonate within, indicating multiphase pulses. Hosts very coarse, euhedral (up to 1.5cm) pyrite, blebby arsenopyrite and minor disseminated galena.			
								Py	5	EU
								Py	20	MA
								As	6	BL
160.00	160.80	VT	37	65	NUL	4	minor, unmineralized carbonate stringers and veinlets cutting unaltered to argillic/propylitic altered granodiorite.			
162.03	162.13	VN	37	55	NUL	3	three 3-4cm wide quartz, smokey quartz, carbonate veinlets cutting argillic/propylitic altered granodiorite. Quartz carbonate veins have an intermixed quartz-carbonate composition, with lesser bands of smokey quartz within. Veinlets host dominantly disseminated pyrite, with lesser disseminated arsenopyrite.			
								Py	4	DI
								As	2	DI
162.52	162.58	VN	37	50	NUL	1	quartz-smokey quartz-carbonate vein cutting propylitic/phyllic altered granodiorite. Quartz has banded zones of smokey quartz present, with carbonate forming along the outer selvedges of the vein. Vein hosts blebs and bands of arsenopyrite, pyrite and sphalerite mostly in the smokey quartz zones.			
								Sp	2	BN
								Py	3	BL
								As	5	BN
169.21	169.25	VN	37	-	NUL	1	Fractured and rubbly quartz carbonate vein hosting disseminated pyrite and trace arsenopyrite. Cuts phyllic altered granodiorite.			
								As	0.1	DI
								Py	3	DI
169.50	169.53	VT	37	75	NUL	1	vuggy quartz carbonate vein with fine euhedral quartz within vugs. Hosts disseminated to blebby pyrite along selvedges of vein.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	7	BL
174.33	174.50	VB	37	-	NUL	1	Fractured and rubbly quartz-smokey quartz-carbonate vein breccia zone within phyllic altered granodiorite. Hosts clasts of carbonate and milky quartz. Hosts disseminated pyrite throughout.			
								Py	4	DI
181.80	181.92	VN	37	80	NUL	1	10 cm quartz vein cutting grey to green phyllic altered granodiorite zone. Vein hosts massive pyrite, arsenopyrite and trace galena.			
								As	15	MA
								Py	18	MA
								Gn	1	DI
182.25	182.69	VN	37	70	NUL	3	Three narrow polymetallic, massive sulphide veins cutting phyllic altered granodiorite. Veins are quartz-carbonate veins that cut phyllic altered granodiorite. The first vein is comprises a centre-line of massive galena with disseminated pyrite along selvedges (2-3cm), followed by a smokey quartz vein found along shear/fault gouge that hosts dissemianted pyrite, sphalerite and arsenopyrte (6cm), and finally a smokey quartz carbonate vein hosting ganela, pyrite, arsenopyrite and red to honey brown sphalerite. (2cm)			
								Py	10	BL
								Sp	5	BL
								As	3	BL
								Gn	4	BL
183.43	183.46	VT	37	75	NUL	1	narrow quartz vein hosting massive pyrite.			
								Py	30	BL
192.24	192.26	VT	37	60	NUL	1	quartz carbonate veinlet cutting propylitic altered granodiorite.			
203.06	203.06	VT	37	60	NUL	1	banded quartz carbonate vein hosting disseminated pyrite. Slickenlines present along hanging wall fracture face.			
								Py	4	DI
214.11	214.40	FT	42	70	NUL	1	Gouged and decomposed fault zone that shears and grinds up a vein. Fault gouge hosts grey sulphide smear, and black smokey quartz carbonate breccia vein fragments. Hosts disseminated pyrite.			
								Py	6	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
219.69	219.95	VT	37	68	NUL	3	caronate veinlets cutting propylitic/argillic altered granodiorite. Found in association with dark pink aplite dykes. Carbonate veinlets crosscut and offset aplite dykes indicating dykes are earlier stage.			
220.80	220.91	DY	37	85	NUL	1	deep red to pink, very fine aplite dyke that is cut by carbonate veinlets. Found in unaltered granodiorite.			
226.67	227.00	VB	37	60	NUL	1	quartz-smokey quartz-carbonate breccia vein zonen that cuts stronglgy argillic altered granodiorite. Breccia vein has black sulphide smears throughout that form net textured bands. Sulphides comprised of dominantly dissemianted pyrite.			
								Py	7	DI
234.74	235.18	VB	37	73	NUL	1	Smokey quartz-carbonate breccia zone cutting phyllic altered granodiorite. Breccia zone is comprised of a larger 15cm breccia vein and smaller narrow carbonate breccia veinlets along the selvedges, eminating outwards. Carbonate and quartz veins are banded, with carbonate banding within the quartz. Smokey quartz comes in as later stage viening and brecciates regular milky quartz. Ankerite present. Breccia veins host disseminated pyrite and bands of galena, red to honey brown sphalerite and minor disseminated arsenopyrite.			
								As	1	DI
								Py	6	DI
								Gn	3	BN
								Sp	3	BN
241.23	243.00	VN	37	70	NUL	3	Three carbonate veins with minor quartz, averaging 3cm in width cutting unaltered to weakly propylitic altered granodiorite. No distinct sulphides outside of disseminated pyrite present within.			
								Py	3	DI
248.79	248.82	VN	37	50	NUL	1	3 cm, calcite vein brecciating host grd			
254.61	254.65	VN	37	35	NUL	1	1 cm, pyrite bearing , calcite infilled and brecciated quartz vein in weakly propylitic granodiorite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
267.66	267.70	VN	37	40	NUL	4	2 mm, stringer veins containing pyrite,trace galena and sphalerite			
267.70	268.90	BX	34	40	NUL	1	moderately silicified, polymetallic vein breccia zone. Breccia zone contains disseminated pyrite, trace galena and sphalerite. Lower section of vein breccia contains blebby pyrite, galena, arseno pyrite and rhodocrosite occurs as vein infill and as brecciated clasts .			
270.59	270.90	VN	37	40	NUL	6	2-4 mm, weakly sheared stringer veins containing pyrite, trace galena and sphalerite. Ankerite appears tobrecciate polymetallic vein and host grd.			
278.40	278.46	VN	37	65	NUL	2	2-4 mm, stringer veins containting blebby pyrite, galena and sphalerite			
281.00	281.12	DY	37	70	NUL	1	4 mm, light pink, aplite dyke intrusion in grd			
281.72	281.94	VN	37	80	NUL	1	polymetallic vein containing semi massive, galena, pyrite, blebby arsenopyrite and sphalerite. Rhodocrosite infills, and locally brecciates polymetallic quartz vein zone			
								Gn	5	BL
								Rh	3	IN
								As	3	BL
								Py	5	BL
								Sp	4	BL
283.38	283.54	VN	37	65	NUL	1	polymetallic vein and vein breccia zone containing semi massive galena, pyrite, honey brown sphalerite and blebby arsenopyrite.rhodocrosite occurs as minor inclusions in grd			
								Py	6	BL
								Rh	2	IN
								Sp	6	BL
								Gn	6	BL
								As	4	BL
283.97	284.04	VN	37	50	NUL	1	4 mm, quartz vein containting trace disseminate pyriteand bright pink, soft carbonitic inclusions			
292.90	292.94	VN	37	30	NUL	1	4mm, pyrite rich veinin propylitic granodiorite containing brightpink/orange inclusions at the vein boundaries.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
293.00	293.03	VN	37	55	NUL	1	3 mm, pyrite rich vein containting sub-mm sphalerite in moderately propylitic granodiorite			
298.47	298.49	VN	37	60	NUL	1	1 cm calcite vein in moderatel propylitic grd			
301.75	302.00	VN	37	75	NUL	2	2-3 mm, calcite veins in grd			
302.76	302.79	VN	37	65	NUL	4	2mm- 1 cm, calcite infilled quartz vein containting trace disseminated pyrite. Veins appearto locally brecciate host propylitic grd.			
308.60	308.70	VN	37	60	NUL	1	4cm, calcite vein replacing and brecciating clear quartz vein and dark, grey, pyrite bearing bands.			
312.15	312.18	VN	37	45	NUL	2	quartz vein containing blebby pyrite. Two, 2 mm irregular calcite veinlets surrounding pyrite bearing vein are observed.			
313.34	313.52	GO	34	-	NUL	1	gouged, brecciated section proximal to polymetallic vein zone			
313.52	313.70	VN	37	70	NUL	1	polymetallic vein containting blebby pyrite, sphalerite, trace galena and arseno pyrite.rhodocrosite and ankerite partially infill and locally brecciate host grd.			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382800	6889179	1456.08	131.06

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-450

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 16 - Sep 17, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
10	35.36	-50.2	Reflex
130	36.66	-50.1	Reflex

TARGET: Infill Resource

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.35	1.35	OVB
1.35	3	1.65	GRD
3	4.6	1.6	GRD
4.6	12	7.4	QFP
12	13.77	1.77	GRD
13.77	15.24	1.47	GRD
15.24	17.9	2.66	GRD
17.9	18.6	0.7	GRD
18.6	20	1.4	GRD
20	22	2	GRD
22	23.2	1.2	GRD
23.2	24.4	1.2	GRD
24.4	26.14	1.74	GRD
26.14	27	0.86	GRD
27	28.5	1.5	GRD
28.5	30.67	2.17	GRD

SAMPLES	
Numbers:	K295040 to K295157, W599209 to W599214
Total:	124
Batch:	049, 065, 066, 068, 069
Certificates:	WH19247978, WH19249616, WH19249623, WH19249628, WH19255796

COMMENTS

30.67	31.5	0.83	GRD
31.5	34.72	3.22	GRD
34.72	35.2	0.48	GRD
35.2	35.3	0.1	VEN
35.3	36.5	1.2	GRD
36.5	36.89	0.39	GRD
36.89	43.9	7.01	GRD
43.9	45	1.1	GRD
45	46.5	1.5	GRD
46.5	49	2.5	GRD
49	53.35	4.35	GRD
53.35	54.4	1.05	GRD
54.4	55.95	1.55	GRD
55.95	57.91	1.96	GRD
57.91	59	1.09	GRD
59	66.17	7.17	GRD
66.17	66.6	0.43	GRD
66.6	67.45	0.85	GRD
67.45	70.1	2.65	GRD
70.1	72.2	2.1	GRD
72.2	73.15	0.95	GRD
73.15	73.5	0.35	VEN
73.5	73.99	0.49	GRD
73.99	74.13	0.14	VEN
74.13	76.46	2.33	GRD
76.46	78.1	1.64	GRD
78.1	80.8	2.7	QFP
80.8	83.78	2.98	GRD
83.78	89.92	6.14	GRD
89.92	92.96	3.04	GRD
92.96	93.72	0.76	VEN
93.72	97.81	4.09	GRD

97.81	97.93	0.12	VEN
97.93	102.6	4.67	GRD
102.6	106	3.4	GRD
106	108.2	2.2	GRD
108.2	108.9	0.7	GRD
108.9	110.24	1.34	GRD
110.24	110.75	0.51	GRD
110.75	112.5	1.75	GRD
112.5	114.5	2	GRD
114.5	116	1.5	GRD
116	121.36	5.36	GRD
121.36	123.15	1.79	GRD
123.15	123.85	0.7	GRD
123.85	125.1	1.25	GRD
125.1	126.35	1.25	GRD
126.35	127	0.65	GRD
127	129.43	2.43	GRD
129.43	129.48	0.05	APL
129.48	131.06	1.58	GRD

Box Log

KL -19-450

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.35	5.85
2	5.85	10.15
3	10.15	13.77
4	13.77	18.29
5	18.29	22.58
6	22.58	26.58
7	26.58	30.67
8	30.67	34.72
9	34.72	38.56
10	38.56	42.52
11	42.52	46.35
12	46.35	50.53
13	50.53	54.68
14	54.68	58.66
15	58.66	62.85
16	62.85	67
17	67	71.3
18	71.3	75.6
19	75.6	79.7
20	79.7	83.57
21	83.57	87.59
22	87.59	91.87
23	91.87	96.11
24	96.11	100.29
25	100.29	104.57
26	104.57	108.91
27	108.91	113.18
28	113.18	117.51
29	117.51	121.36
30	121.36	125.33
31	125.33	129.3
32	129.3	131.06

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-450									
	96.51	16	NTW	GRD	1128	751	2.49	3.0	
	110.22	13	NTW	GRD	803	522	2.18	2.9	
	114.85	15	NTW	GRD	1050.2	687.2	2.48	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.35	1.35	OVB	--	overburden							
						MD	BN					
1.35	3.00	1.65	GRD	--	mix of 80 % OVB and 20 % granodiorite							
						MD	BN					
						MD	GY					
3.00	4.60	1.60	GRD	MG	brown oxidized granodiorite; unaltered							
						MD	BN		OXI	4I		
						MD	BF					
4.60	12.00	7.40	QFP	MG	medium grey, with patch brown oxidative staining extending up to 2 cm from fracture surfaces, quartz feldspar prophyrytic dyke with weak clay alteration of feldspar grains. Unaltered dyke is medium greenish grey to grey. No notable sulfide related to this dyke. Faulted upper and lower contact with gouged clay altered granodiorite							
						MD	GY		CLY	1I		
						MD	GN					
12.00	13.77	1.77	GRD	MG	medium grained, medium greenish grey, weakly blaeched, moderately argillic altered granodiorite with a weak propylitic overprint. Lightly bleached and moderately oxidized on fracture surfaces							
						MD	GY		PRO	2I		
						LT	WH					
						LT	GN		ARG	3I		
						LT	GY					
13.77	15.24	1.47	GRD	MG	unaltered granodiorite with weak oxidative staining on fractures							
						MD	GY		OXI	2I		
15.24	17.90	2.66	GRD	MG	weakly propylitic altered granodiorite with weak silicification and rare (2) pyrite bearing quartz veinlets (<1cm)							
						MD	GN		PRO	3I	Py	0.24
						MD	GY		SIL	1I		
17.90	18.60	0.70	GRD	MG	meidum grained, weakly clay altered and rubbly/gravelly granodiorite; likely fault related							
						MD	BN		CLY	3I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.60	20.00	1.40	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. No significant sulfides in this section.							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
20.00	22.00	2.00	GRD	MG	unaltered granodiorite							
						MD	GY					
22.00	23.20	1.20	GRD	MG	medium grained, weakly silicified and moderately propylitic altered granodiorite with three small <1 cm wide pyrite bearing quartz veinlets							
						MD	GN		PRO	3I	Py	0.5
						MD	GY		SIL	1I		
23.20	24.40	1.20	GRD	MG	medum grained moderately propylitic altered granodiorite with no min							
						MD	GN		PRO	3I		
						MD	GY					
24.40	26.14	1.74	GRD	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Weak oxidative patchy staining on fractures							
						MD	GN		PRO	2I		
						MD	GY		OXI	2I		
						MD	BN		ARG	2I		
26.14	27.00	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
27.00	28.50	1.50	GRD	MG	medium grained, weakly silicified and propylitic altered granodiorite with no sulfides							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I		
28.50	30.67	2.17	GRD	MG	unaltered granodiorite							
						MD	GY					
30.67	31.50	0.83	GRD	MG	weakly silicified granodiorite with one hairline pyrite bearing quartz stringer veinlet							
						MD	GN		PRO	2I	Py	0.1
						MD	GY		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
31.50	34.72	3.22	GRD	MG	moderately argillic altered granodiorite with weak to moderate argillic alteration and weak to moderate propylitic overprint. Rare quartz carbonate stringers dispersed throughout with minor pyrite. Typically trend 60 or 70 TCA; 13 counted in this interval. Weak oxidative staining near fractures							
						MD	GY		PRO	2I		
						LT	GN		ARG	3I		
						LT	WH					
34.72	35.20	0.48	GRD	MG	modertly propylitic altred granodiorite with wak oxidative stianing on frx							
						MD	GN		PRO	3I		
						MD	GY					
35.20	35.30	0.10	VEN	MG	rhodochrosite vein; weakly brecciated; no sulfide							
						LT	PK					
						LT	WH					
35.30	36.50	1.20	GRD	MG	moderately propylitic altred granodiorite,frctured with rare stinger veinlets without sulfide and 2 small rhodochorsite veinlets							
						MD	GN		PRO	3I		
						MD	GY					
36.50	36.89	0.39	GRD	MG	heavily fractured, likely faulted granodiorit							
						MD	BN		OXI	3I		
						MD	GY					
36.89	43.90	7.01	GRD	MG	moderately bleached, weak to moderate propylitic and wekly argillic altered granodiorite. Patchy oxidative staining near fracture surfaces, and weak trace disseminated pyrite bearing quartz hairline stringers throughout interval							
						MD	BN		PRO	3I		
						MD	GN		ARG	2I		
						MD	GY		SIL	1I	Py	0.1
									OXI	2I		
43.90	45.00	1.10	GRD	MG	faulted, fractured granodiorite with patch tourmaline staining							
						MD	GN		PRO	3I	To	0.5
						MD	BK		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
45.00	46.50	1.50	GRD	MG	moderatly propyliticaltred granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
46.50	49.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
49.00	53.35	4.35	GRD	MG	moderately propylitic altered granodiorite with weak silicification and dissemianted quartz veinlets (hairline) throughout interval (~4)							
						MD	GY		PRO	3I	Py	0.1
						MD	GN		SIL	1I		
53.35	54.40	1.05	GRD	MG	unaltered granodiorite							
						MD	GY					
54.40	55.95	1.55	GRD	MG	weak to moderately argillic altered granodiorite							
						MD	GY		ARG	2I		
						LT	WH		ARG	1I		
55.95	57.91	1.96	GRD	MG	rubbly faulted clay altered granoidoirte							
						MD	GY		CLY	3I		
						MD	GN		ARG	3I		
57.91	59.00	1.09	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	2I		
59.00	66.17	7.17	GRD	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite							
						MD	GY		PRO	1I	Py	0.1
						MD	GN		SIL	1I		
66.17	66.60	0.43	GRD	MG	hairline quartz stringer zone with 6 hairline pyrite bearing quartz veinlets							
						MD	GY		SIL	1I	Py	1
						MD	GN		PRO	2I		
66.60	67.45	0.85	GRD	MG	faulted argillic altered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		ARG	2I		
67.45	70.10	2.65	GRD	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
70.10	72.20	2.10	GRD	MG	weakly propylitic altered granodiorite with patchy dissemianted tourmaline							
						MD	GY		PRO	2I	To	0.1
						MD	GN					
						LT	BK					
72.20	73.15	0.95	GRD	MG	gouged, brecciated, clay altered granodiorite with disseminated pyrite in groundmass							
						LT	GY		CLY	4I	Py	0.5
73.15	73.50	0.35	VEN	MG	semimassive sulfide vein with pyrite and sphalerite.Upper 10 cm of vein is semimassive sulfide, and grades into mineralized clay gouge. The last 5 cm of the vein is a weakly mienralized brecciated section							
						MD	GY					
						MD	BL					
						LT	WH		CLY	5I	Py	5
						LT	GY		SIL	5I	Sp	2.5
73.50	73.99	0.49	GRD	MG	strongly propylitic and siliceous granodiorite with dissemianted pyrite in groundmass and in stringers							
						MD	GY		PRO	3I		
						LT	GY		SIL	3I	Py	1
						LT	GN					
73.99	74.13	0.14	VEN	MG	vein with pyrite, galena, and sphalerite on its margins, with bull quartz in centre section. Not as mineralized as previous vein, but still good. 70 TCA							
						MD	GY				Gn	2
						LT	WH		SIL	5I	Sp	2
											Py	2.5
74.13	76.46	2.33	GRD	MG	medium grained strongly propylitic altered granodiorite with dissemianted pyrite in groundmass and in stringer veinlets (14 in interval)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	4I	Py	1
						MD	GY		SIL	1I		
76.46	78.10	1.64	GRD	MG	clay altered, brecciated, gouged granodiorite							
						LT	GY		CLY	3I	Py	0.5
78.10	80.80	2.70	QFP	MG	heavily fractured faulted feldspar porphyry dyke. No TCA measurement is discernible.							
						MD	GY		CLY	1I		
80.80	83.78	2.98	GRD	MG	medium greyish green with dissemianted pyrite in groundmass and stringers with pyrite (trace)							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		
83.78	89.92	6.14	GRD	MG	brecciated, clay gouged semi-competent heavily silicifid and clay altered granodiorite, with patchy sections of disseminated pyrite mineralization							
						MD	GY					
						LT	GY		SIL	2I	Py	1
89.92	92.96	3.04	GRD	MG	heavily fractured, propylitic and clay altered granodiortie with dissemiante pyrite bearing quartz stringers and disseminated pyrite in groundmass							
						MD	GY		PRO	2I		
						MD	GN		SIL	2I		
						LT	GY		CLY	3I	Py	1.5
92.96	93.72	0.76	VEN	MG	semi-massive quartz vein with pyrite, arsenopyrite, galena, and sphalerite, as well as quartz carbonate rich sectinos with a weak pinkish tint. Patchy disseminated blebby banded pyrite and blebby sphalerite, weak galena along carbonate rich sections, and trace arsenopytite							
						MD	GY				Gn	0.5
						LT	PK		SIL	5I	As	0.25
						LT	WH				Py	12
						LT	GY				Sp	2
93.72	97.81	4.09	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	4I	Py	0.5
						DK	GY		SIL	2I		
97.81	97.93	0.12	VEN	MG	massive pyrite vein with one patch of chalcopyrite and galena							
						MD	GY				Cp	5
						LT	WH		SIL	4I	Gn	2
											Py	50
97.93	102.60	4.67	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	3I		
						DK	GY					
102.60	106.00	3.40	GRD	MG	patchily weak propylitic altered granodiorite with 3 small <5 mm wide patchy pyrite bearing quartz veinlets							
						MD	GN					
						MD	GY		PRO	2I	Py	0.1
106.00	108.20	2.20	GRD	MG	unaltered granodiorite							
						MD	GY					
108.20	108.90	0.70	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	3I		
108.90	110.24	1.34	GRD	MG	unaltered granodiorite							
						MD	GY					
110.24	110.75	0.51	GRD	MG	weak pyrite bearing stringer zone in propylitic granodiorite (3 veinlets <4mm wide)							
						MD	GY		PRO	2I	Py	0.5
110.75	112.50	1.75	GRD	MG	unaltered granodiorite							
						MD	GY					
112.50	114.50	2.00	GRD	MG	stringer zone with 8 small 3-5 mm wide pyrite bearing quartz veinlets in propylitic altered granodiorite							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.50	116.00	1.50	GRD	MG	unaltered granodiorite							
						MD	GY					
116.00	121.36	5.36	GRD	MG	sporadice discrete 30-5 cm intervals of fualted granodiorite;with sections of more competent rock mixed in. Essentially heavily fractured granodiorite with weak clay and carbonate alteration on fracture surfaces.							
						MD	GY		CLY	2I		
121.36	123.15	1.79	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
123.15	123.85	0.70	GRD	MG	weakly mineralized, strongly propylitic altered granodiorite, with 4 3mm wide pyrite bearing quartz veinlets and weak disseminated pyrite in groundmass.							
						MD	GN		SIL	1I	Py	0.5
						MD	GY		PRO	3I		
123.85	125.10	1.25	GRD	MG	medium grained, weak to moderately argillic altered granodiorite							
						MD	GN					
						MD	GY		ARG	2I		
						LT	WH					
125.10	126.35	1.25	GRD	MG	clay altered, rubbly and gravelly section of grd, moderately clay altered; likely faulted							
						MD	GN		CLY	4I		
						MD	GY					
126.35	127.00	0.65	GRD	MG	moderately propylitic and silicified granodiorite with 4 pyrite bearing quartz veinlets							
						MD	GN		PRO	3I		
						MD	GY		SIL	2I		
127.00	129.43	2.43	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
129.43	129.48	0.05	APL	FG	finegrained pinkish brown aplite dyke							
						LT	PK					
						LT	BN					
129.48	131.06	1.58	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.35	1.35	OVB	OVB	--	overburden
1.35	3.00	1.65	GRD	OVB	--	mix of 80 % OVB and 20 % granodiorite
3.00	4.60	1.60	GRD	GRD	MG	brown oxidized granodiorite; unaltered
4.60	12.00	7.40	QFP	DYK	MG	medium grey, with patch brown oxidative staining extending up to 2 cm from fracture surfaces, quartz feldspar prophyrytic dyke with weak clay alteration of feldspar grains. Unaltered dyke is medium greenish grey to grey. No notable sulfide related to this dyke. Faulted upper and lower contact with gouged clay altered granodiorite
12.00	13.77	1.77	GRD	GRDA	MG	medium grained, medium greenish grey, weakly blaeched, moderately argillic altered granodiorite with a weak propylitic overprint. Lightly bleached and moderately oxidized on fracture surfaces
13.77	15.24	1.47	GRD	GRD	MG	unaltered granodiorite with weak oxidative staining on fractures
15.24	17.90	2.66	GRD	GRDA	MG	weakly propylitic altered granodiorite with weak silicification and rare (2) pyrite bearing quartz veinlets (<1cm)
17.90	18.60	0.70	GRD	GRDA	MG	meidum grained, weakly clay altered and rubbly/gravelly granodiorite; likely fault related
18.60	20.00	1.40	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. No significant sulfides in this section.
20.00	22.00	2.00	GRD	GRD	MG	unaltered granodiorite
22.00	23.20	1.20	GRD	GRDM	MG	medium grained, weakly silicified and moderately propylitic altered granodiorite with three small <1 cm wide pyrite bearing quartz veinlets
23.20	24.40	1.20	GRD	GRDA	MG	medum grained moderately propylitic altered granodiorite with no min
24.40	26.14	1.74	GRD	GRDA	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Weak oxidative patchy staining on fractures
26.14	27.00	0.86	GRD	GRD	MG	unaltered granodiorite
27.00	28.50	1.50	GRD	GRDA	MG	medium grained, weakly silicified and propylitic altered granodiorite with no sulfides
28.50	30.67	2.17	GRD	GRD	MG	unaltered granodiorite
30.67	31.50	0.83	GRD	GRDA	MG	weakly silicified granodiorite with one hairline pyrite bearing quartz stringer veinlet
31.50	34.72	3.22	GRD	GRDA	MG	moderately argillic altered granodiorite with weak to moderate argillic alteration and weak to moderate propylitic overprint. Rare quartz carbonate stringers dispersed throughout with minor pyrite. Typically trend 60 or 70 TCA; 13 counted in this interval. Weak oxidative staining near fractures

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
34.72	35.20	0.48	GRD	GRDA	MG	modertly propylitic altred granodiorite with wak oxidative stianing on frx
35.20	35.30	0.10	VEN	VEIN	MG	rhodochrosite vein; weakly brecciated; no sulfide
35.30	36.50	1.20	GRD	GRDA	MG	moderately propylitic altred granodiorite,frctured with rare stinger veinlets without sulfide and 2 small rhodochorsite veinlets
36.50	36.89	0.39	GRD	GRDF	MG	heavily fractured, likely faulted granodiorit
36.89	43.90	7.01	GRD	GRDA	MG	moderately bleached, weak to moderate propylitic and wekly argillic altered granodiorite. Patchy oxidative staining near fracture surfaces, and weak trace disseminated pyrite bearing quartz hairline stringers throughout interval
43.90	45.00	1.10	GRD	GRDA	MG	faulted, fractured granodiorite with patch tourmaline staining
45.00	46.50	1.50	GRD	GRDA	MG	moderatly propyliticaltred granodiorite
46.50	49.00	2.50	GRD	GRD	MG	unaltered granodiorite
49.00	53.35	4.35	GRD	GRDA	MG	moderately propylitic altered granodiorite with weak silicification and dissemianted quartz veinlets (hairline) throughout interval (~4)
53.35	54.40	1.05	GRD	GRD	MG	unaltered granodiorite
54.40	55.95	1.55	GRD	GRDA	MG	weak to moderately argillic altered granodiorite
55.95	57.91	1.96	GRD	GRDF	MG	rubbly faulted clay altered granoidoirte
57.91	59.00	1.09	GRD	GRDA	MG	weakly argillic altered granodiorite
59.00	66.17	7.17	GRD	GRDA	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite
66.17	66.60	0.43	GRD	GRDM	MG	hairline quartz stringer zone with 6 hairline pyrite bearing quartz veinlets
66.60	67.45	0.85	GRD	GRDF	MG	faulted argillic altered granodiorite
67.45	70.10	2.65	GRD	GRDA	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite
70.10	72.20	2.10	GRD	GRDA	MG	weakly propylitic altered granodiorite with patchy dissemianted tourmaline
72.20	73.15	0.95	GRD	GRDF	MG	gouged, brecciated, clay altered granodiorite with disseminated pyrite in groundmass
73.15	73.50	0.35	VEN	VEIN	MG	semimassive sulfide vein with pyrite and sphalerite.Upper 10 cm of vein is semimassive sulfide, and grades into mineralized clay gouge. The last 5 cm of the vein is a weakly mienralized brecciated section

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
73.50	73.99	0.49	GRD	GRDM	MG	strongly propylitic and siliceous granodiorite with dissemianted pyrite in groundmass and in stringers
73.99	74.13	0.14	VEN	VEIN	MG	vein with pyrite, galena, and sphalerite on its margins, with bull quartz in centre section. Not as mineralized as previous vein, but still good. 70 TCA
74.13	76.46	2.33	GRD	GRDM	MG	medium grained strongly propylitic altered granodiorite with dissemianted pyrite in groundmass and in stringer veinlets (14 in interval)
76.46	78.10	1.64	GRD	GRDF	MG	clay altered, brecciated, gouged granodiorite
78.10	80.80	2.70	QFP	DYK	MG	heavily fractured faulted feldspar porphyry dyke. No TCA measurement is discernible.
80.80	83.78	2.98	GRD	GRDM	MG	medium greyish green with dissemianted pyrite in groundmass and stringers with pyrite (trace)
83.78	89.92	6.14	GRD	GRDF	MG	brecciated, clay gouged semi-competent heavily silicifid and clay altered granodiorite, with patchy sections of disseminated pyrite mineralization
89.92	92.96	3.04	GRD	GRDM	MG	heavily fractured, propylitic and clay altered granodiortie with dissemiante pyrite bearing quartz stringers and disseminated pyrite in groundmass
92.96	93.72	0.76	VEN	VEIN	MG	semi-massive quartz vein with pyrite, arsenopyrite, galena, and sphalerite, as well as quartz carbonate rich sectinos with a weak pinkish tint. Patchy disseminated blebby banded pyrite and blebby sphalerite, weak galena along carbonate rich sections, and trace arsenopytite
93.72	97.81	4.09	GRD	GRDM	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.
97.81	97.93	0.12	VEN	VEIN	MG	massive pyrite vein with one patch of chalcopyrite and galena
97.93	102.60	4.67	GRD	GRDM	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.
102.60	106.00	3.40	GRD	GRDA	MG	patchily weak propylitic altered granodiorite with 3 small <5 mm wide patchy pyrite bearing quartz veinlets
106.00	108.20	2.20	GRD	GRD	MG	unaltered granodiorite
108.20	108.90	0.70	GRD	GRDA	MG	moderately propylitic altered granodiorite
108.90	110.24	1.34	GRD	GRD	MG	unaltered granodiorite
110.24	110.75	0.51	GRD	GRDM	MG	weak pyrite bearing stringer zone in propylitic granodiorite (3 veinlets <4mm wide)
110.75	112.50	1.75	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
112.50	114.50	2.00	GRD	GRDM	MG	stringer zone with 8 small 3-5 mm wide pyrite bearing quartz veinlets in propylitic altered granodiorite
114.50	116.00	1.50	GRD	GRD	MG	unaltered granodiorite
116.00	121.36	5.36	GRD	GRDF	MG	sporadice discrete 30-5 cm intervals of fualted granodiorite;with sections of more competent rock mixed in. Essentially heavily fractured granodiorite with weak clay and carbonate alteration on fracture surfaces.
121.36	123.15	1.79	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite
123.15	123.85	0.70	GRD	GRDM	MG	weakly mineralized, strongly propylitic altered granodiorite, with 4 3mm wide pyrite bearing quartz veinlets and weak disseminated pyrite in groundmass.
123.85	125.10	1.25	GRD	GRDA	MG	medium grained, weak to moderately argillic altered granodiorite
125.10	126.35	1.25	GRD	GRDF	MG	clay altered, rubbly and gravelly section of grd, moderately clay altered; likely faulted
126.35	127.00	0.65	GRD	GRDM	MG	moderately propylitic and silicified granodiorite with 4 pyrite bearing quartz veinlets
127.00	129.43	2.43	GRD	GRDA	MG	weakly propylitic altered granodiorite
129.43	129.48	0.05	APL	DYK	FG	finegrained pinkish brown aplite dyke
129.48	131.06	1.58	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.35	1.35	OVB	--	overburden							
						MD	BN					
1.35	3.00	1.65	GRD	--	mix of 80 % OVB and 20 % granodiorite							
						MD	BN					
						MD	GY					
3.00	4.60	1.60	GRD	MG	brown oxidized granodiorite; unaltered							
						MD	BF					
						MD	BN		OXI	4I		
4.60	12.00	7.40	QFP	MG	medium grey, with patch brown oxidative staining extending up to 2 cm from fracture surfaces, quartz feldspar prophyrytic dyke with weak clay alteration of feldspar grains. Unaltered dyke is medium greenish grey to grey. No notable sulfide related to this dyke. Faulted upper and lower contact with gouged clay altered granodiorite							
						MD	GY					
						MD	GN		CLY	1I		
12.00	13.77	1.77	GRD	MG	medium grained, medium greenish grey, weakly blaeched, moderately argillic altered granodiorite with a weak propylitic overprint. Lightly bleached and moderately oxidized on fracture surfaces							
						LT	GY		PRO	2I		
						LT	WH					
						LT	GN		ARG	3I		
						MD	GY					
13.77	15.24	1.47	GRD	MG	unaltered granodiorite with weak oxidative staining on fractures							
						MD	GY		OXI	2I		
15.24	17.90	2.66	GRD	MG	weakly propylitic altered granodiorite with weak silicification and rare (2) pyrite bearing quartz veinlets (<1cm)							
						MD	GY		PRO	3I	Py	0.24
						MD	GN		SIL	1I		
17.90	18.60	0.70	GRD	MG	meidum grained, weakly clay altered and rubbly/gravelly granodiorite; likely fault related							
						MD	GY					
						MD	BN		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.60	20.00	1.40	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic overprint. No significant sulfides in this section.							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
20.00	22.00	2.00	GRD	MG	unaltered granodiorite							
						MD	GY					
22.00	23.20	1.20	GRD	MG	medium grained, weakly silicified and moderately propylitic altered granodiorite with three small <1 cm wide pyrite bearing quartz veinlets							
						MD	GY		PRO	3I	Py	0.5
						MD	GN		SIL	1I		
23.20	24.40	1.20	GRD	MG	medum grained moderately propylitic altered granodiorite with no min							
						MD	GY		PRO	3I		
						MD	GN					
24.40	26.14	1.74	GRD	MG	medium grained, weakly argillic altered granodiorite with weak propylitic overprint. Weak oxidative patchy staining on fractures							
						MD	BN		ARG	2I		
						MD	GN		PRO	2I		
						MD	GY		OXI	2I		
26.14	27.00	0.86	GRD	MG	unaltered granodiorite							
						MD	GY					
27.00	28.50	1.50	GRD	MG	medium grained, weakly silicified and propylitic altered granodiorite with one hairline pyrite bearing quartz stringer trending 70 TCA in the last 10 cm of the interval							
						MD	GY		PRO	3I		
						MD	GN		SIL	1I		
28.50	30.67	2.17	GRD	MG	unaltered granodiorite							
						MD	GY					
30.67	31.50	0.83	GRD	MG	weakly silicified granodiorite with one hairline pyrite bearing quartz stringer veinlet							
						MD	GN		PRO	2I	Py	0.1
						MD	GY		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
31.50	34.72	3.22	GRD	MG	moderately argillic altered granodiorite with weak to moderate argillic alteration and weak to moderate propylitic overprint. Rare quartz carbonate stringers dispersed throughout with minor pyrite. Typically trend 60 or 70 TCA; 13 counted in this interval. Weak oxidative staining near fractures							
						LT	GN					
						LT	WH		PRO	2I		
						MD	GY		ARG	3I		
34.72	35.20	0.48	GRD	MG	moderately propylitic altered granodiorite with weak oxidative stianing on frx							
						MD	GY					
						MD	GN		PRO	3I		
35.20	35.30	0.10	VEN	MG	rhodochrosite vein; weakly brecciated; no sulfide							
						LT	WH					
						LT	PK					
35.30	36.50	1.20	GRD	MG	moderately propylitic altred granodiorite,frctured with rare stinger veinlets without sulfide and 2 small rhodochorsite veinlets							
						MD	GN					
						MD	GY		PRO	3I		
36.50	36.89	0.39	GRD	MG	heavily fractured, likely faulted granodiorit							
						MD	BN					
						MD	GY		OXI	3I		
36.89	43.90	7.01	GRD	MG	moderately bleached, weak to moderate propylitic and wekly argillic altered granodiorite. Patchy oxidative staining near fracture surfaces, and weak trace disseminated pyrite bearing quartz hairline stringers throughout interval							
						MD	BN		SIL	1I	Py	0.1
						MD	GN		ARG	2I		
						MD	GY		OXI	2I		
									PRO	3I		
43.90	45.00	1.10	GRD	MG	faulted, fractured granodiorite with patch tourmaline staining							
						MD	BK		PRO	3I	To	0.5
						MD	GY					
						MD	GN		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
45.00	46.50	1.50	GRD	MG	moderatly propyliticaltred granodiorite							
						MD	GY		PRO	2I		
						MD	GN					
46.50	49.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
49.00	53.35	4.35	GRD	MG	moderately propylitic altered granodiorite with weak silicification and dissemianted quartz veinlets (hairline) throughout interval (~4)							
						MD	GN		PRO	3I		
						MD	GY		SIL	1I	Py	0.1
53.35	54.40	1.05	GRD	MG	unaltered granodiorite							
						MD	GY					
54.40	55.95	1.55	GRD	MG	weak to moderately argillic altered granodiorite							
						MD	GY		ARG	1I		
						LT	WH		ARG	2I		
55.95	57.91	1.96	GRD	MG	rubbly faulted clay altered granoidoirte							
						MD	GN		ARG	3I		
						MD	GY		CLY	3I		
57.91	59.00	1.09	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	2I		
59.00	66.17	7.17	GRD	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite							
						MD	GN		PRO	1I	Py	0.1
						MD	GY		SIL	1I		
66.17	66.60	0.43	GRD	MG	hairline quartz stringer zone with 6 hairline pyrite bearing quartz veinlets							
						MD	GN		PRO	2I	Py	1
						MD	GY		SIL	1I		
66.60	67.45	0.85	GRD	MG	faulted argillic altered granodiorite							
						LT	WH					
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
67.45	70.10	2.65	GRD	MG	weak to trace propylitic altered granodiorite with hairline quartz carbonate veinlets disperse throughout (1 per 50 cm), with trace dissemianted pyrite							
						MD	GY		PRO	2I	Py	0.1
						MD	GN					
70.10	72.20	2.10	GRD	MG	weakly propylitic altered granodiorite with patchy dissemianted tourmaline							
						MD	GY		PRO	2I	To	0.1
						MD	GN					
						LT	BK					
72.20	73.15	0.95	GRD	MG	gouged, brecciated, clay altered granodiorite with disseminated pyrite in groundmass							
						LT	GY		CLY	4I	Py	0.5
73.15	73.50	0.35	VEN	MG	semimassive sulfide vein with pyrite and sphalerite.Upper 10 cm of vein is semimassive sulfide, and grades into mineralized clay gouge. The last 5 cm of the vein is a weakly mienralized brecciated section 70 TCA							
						MD	BL		CLY	5I	Sp	2.5
						LT	GY					
						MD	GY		SIL	5I	Py	5
						LT	WH					
73.50	73.99	0.49	GRD	MG	strongly propylitic and siliceous granodiorite with dissemianted pyrite in groundmass and in stringers							
						MD	GY		PRO	3I	Py	1
						LT	GY		SIL	3I		
						LT	GN					
73.99	74.13	0.14	VEN	MG	vein with pyrite, galena, and sphalerite on its margins, with bull quartz in centre section. Not as mineralized as previous vein, but still good. 70 TCA							
						MD	GY		SIL	5I	Py	2.5
											Sp	2
						LT	WH				Gn	2
74.13	76.46	2.33	GRD	MG	medium grained strongly propylitic altered granodiorite with dissemianted pyrite in groundmass and in stringer veinlets (14 in interval)							
						MD	GY		SIL	1I	Py	1
						MD	GN		PRO	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
76.46	78.10	1.64	GRD	MG	clay altered, brecciated, gouged granodiorite							
						LT	GY		CLY	3I	Py	0.5
78.10	80.80	2.70	QFP	MG	heavily fractured faulted feldspar porphyry dyke. No TCA measurement is discernible.							
						MD	GY		CLY	1I		
80.80	83.78	2.98	GRD	MG	medium greyish green with dissemianted pyrite in groundmass and stringers with pyrite (trace)							
						MD	GY		SIL	1I	Py	0.5
						MD	GN		PRO	2I		
83.78	89.92	6.14	GRD	MG	brecciated, clay gouged semi-competent heavily silicifid and clay altered granodiorite, with patchy sections of disseminated pyrite mineralization							
						MD	GY		SIL	2I	Py	1
						LT	GY					
89.92	92.96	3.04	GRD	MG	heavily fractured, propylitic and clay altered granodiortie with dissemiante pyrite bearing quartz stringers and disseminated pyrite in groundmass							
						LT	GY		PRO	2I	Py	1.5
						MD	GN		CLY	3I		
						MD	GY		SIL	2I		
92.96	93.72	0.76	VEN	MG	semi-massive quartz vein with pyrite, arsenopyrite, galena, and sphalerite, as well as quartz carbonate rich sectinos with a weak pinkish tint. Patchy disseminated blebby banded pyrite and blebby sphalerite, weak galena along carbonate rich sections, and trace arsenopytite							
						MD	GY				Py	12
						LT	WH		SIL	5I	As	0.25
						LT	PK				Gn	0.5
						LT	GY				Sp	2
93.72	97.81	4.09	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	4I		
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.81	97.93	0.12	VEN	MG	massive pyrite vein with one patch of chalcopyrite and galena							
											Py	50
						LT	WH				Cp	5
						MD	GY		SIL	4I	Gn	2
97.93	102.60	4.67	GRD	MG	medium grained, moderate to strongly propylitic altered granodiorite with darker sections of more intense silicification. Throughout interval there is disseminated patchy pyrite, and the dark intervals coincide with pyrite bearing quartz veinlets.							
						MD	GY		PRO	3I	Py	0.5
						DK	GY		SIL	2I		
						MD	GN					
102.60	106.00	3.40	GRD	MG	patchily weak propylitic altered granodiorite with 3 small <5 mm wide patchy pyrite bearing quartz veinlets							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
106.00	108.20	2.20	GRD	MG	unaltered granodiorite							
						MD	GY					
108.20	108.90	0.70	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
108.90	110.24	1.34	GRD	MG	unaltered granodiorite							
						MD	GY					
110.24	110.75	0.51	GRD	MG	weak pyrite bearing stringer zone in propylitic granodiorite (3 veinlets <4mm wide)							
						MD	GY		PRO	2I	Py	0.5
110.75	112.50	1.75	GRD	MG	unaltered granodiorite							
						MD	GY					
112.50	114.50	2.00	GRD	MG	stringer zone with 8 small 3-5 mm wide pyrite bearing quartz veinlets in propylitic altered granodiorite							
						MD	GY		SIL	1I	Py	0.5
						MD	GN		PRO	2I		
114.50	116.00	1.50	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
116.00	121.36	5.36	GRD	MG	sporadic discrete 3-5 cm intervals of fualted granodiorite;with sections of more competent rock mixed in. Essentially heavily fractured granodiorite with weak clay and carbonate alteration on fracture surfaces.							
						MD	GY		CLY	2I		
121.36	123.15	1.79	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
123.15	123.85	0.70	GRD	MG	weakly mineralized, strongly propylitic altered granodiorite, with 4 3mm wide pyrite bearing quartz veinlets and weak disseminated pyrite in groundmass.							
						MD	GY		PRO	3I		
						MD	GN		SIL	1I	Py	0.5
123.85	125.10	1.25	GRD	MG	medium grained, weak to moderately argillic altered granodiorite							
						LT	WH		ARG	2I		
						MD	GN					
						MD	GY					
125.10	126.35	1.25	GRD	MG	clay altered, rubbly and gravelly section of grd, moderately clay altered; likely faulted							
						MD	GY		CLY	4I		
						MD	GN					
126.35	127.00	0.65	GRD	MG	moderately propylitic and silicified granodiorite with 4 pyrite bearing quartz veinlets							
						MD	GN		SIL	2I		
						MD	GY		PRO	3I		
127.00	129.43	2.43	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN		PRO	2I		
						MD	GY					
129.43	129.48	0.05	APL	FG	finegrained pinkish brown aplite dyke							
						LT	BN					
						LT	PK					
129.48	131.06	1.58	GRD	MG	unaltered granodiorite							
						MD	GY					

KL -19-450

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.35	1.35	0	0	0.00	0	--	--	--	
1.35	1.52	0.17	0.17	100	0.00	0	--	1H	6W	overburden
1.52	4.57	3.05	1.42	47	0.25	8	--	2H	5W	
4.57	6.10	1.53	1.47	96	0.31	20	--	3H	4W	
6.10	7.62	1.52	1.44	95	0.17	11	--	3H	4W	
7.62	9.14	1.52	1.47	97	0.33	22	--	3H	4W	
9.14	10.67	1.53	1.52	99	0.77	50	--	3H	4W	
10.67	12.19	1.52	1.43	94	0.00	0	--	3H	4W	
12.19	15.24	3.05	3.05	100	1.85	61	--	4H	3W	
15.24	18.29	3.05	2.98	98	1.96	64	--	4H	3W	
18.29	21.34	3.05	3.05	100	1.72	56	--	4H	3W	
21.34	24.38	3.04	3	99	2.15	71	--	4H	3W	
24.38	27.43	3.05	3.05	100	1.16	38	--	4H	3W	
27.43	30.48	3.05	2.98	98	2.47	81	--	4H	2W	
30.48	33.53	3.05	3.05	100	1.67	55	--	4H	3W	
33.53	36.58	3.05	3.05	100	1.49	49	--	3H	1W	
36.58	39.62	3.04	2.88	95	1.44	47	--	3H	1W	
39.62	42.67	3.05	3.05	100	1.92	63	--	2H	1W	
42.67	45.72	3.05	3.05	100	2.06	68	--	2H	1W	
45.72	48.77	3.05	3	98	2.32	76	--	3H	1W	
48.77	51.82	3.05	3.05	100	2.67	88	--	3H	1W	
51.82	54.86	3.04	3.02	99	2.54	84	--	3H	1W	
54.86	57.91	3.05	3.05	100	2.16	71	--	3H	1W	
57.91	60.96	3.05	3.05	100	2.32	76	--	3H	1W	
60.96	64.01	3.05	3	98	2.21	72	--	3H	1W	
64.01	67.06	3.05	3.05	100	2.45	80	--	3H	1W	
67.06	70.10	3.04	2.01	66	1.45	48	--	3H	1W	
70.10	73.15	3.05	3.05	100	2.67	88	--	3H	1W	
73.15	76.20	3.05	3.05	100	2.45	80	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
76.20	79.25	3.05	3.05	100	2.62	86	--	3H	1W	
79.25	82.30	3.05	2.97	97	0.50	16	--	3H	1W	
82.30	85.34	3.04	2.93	96	2.09	69	--	2H	1W	
85.34	86.87	1.53	1.51	99	0.31	20	--	2H	1W	
86.87	89.92	3.05	2.96	97	0.10	3	--	2H	1W	
89.92	92.96	3.04	3.04	100	2.28	75	--	3H	1W	
92.96	96.01	3.05	3.02	99	2.67	88	--	3H	1W	
96.01	97.54	1.53	1.52	99	1.22	80	--	3H	1W	
97.54	99.06	1.52	1.51	99	1.17	77	--	4H	1W	
99.06	102.11	3.05	2.88	94	1.49	49	--	3H	1W	
102.11	105.16	3.05	3.05	100	2.27	74	--	3H	1W	
105.16	108.20	3.04	2.96	97	2.08	68	--	4H	1W	
108.20	111.25	3.05	3.04	100	2.55	84	--	4H	1W	
111.25	114.30	3.05	3.05	100	2.20	72	--	4H	1W	
114.30	117.35	3.05	2.94	96	2.04	67	--	4H	1W	
117.35	120.40	3.05	3.01	99	2.36	77	--	3H	1W	
120.40	123.44	3.04	2.97	98	1.86	61	--	3H	1W	
123.44	125.58	2.14	2.01	94	0.90	42	--	2H	1W	
125.58	128.02	2.44	2.29	94	1.30	53	--	2H	1W	
128.02	131.06	3.04	2.91	96	1.80	59	--	3H	1W	

KL -19-450

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	0.411	GRD	
3	0.204	GRD	
3	0.204	GRD	
4	0.209	GRD	
5	0.301	QFP	
6	0.434	QFP	
7	0.222	QFP	
8	0.43	QFP	
9	0.594	QFP	
10	0.207	QFP	
11	0.373	QFP	
12	0.16	GRD	
12	0.16	QFP	
13	0.204	GRD	
14	0.431	GRD	
15	4.852	GRD	
16	0.544	GRD	
17	0.773	GRD	
18	1.93	GRD	
19	0.474	GRD	
20	0.521	GRD	
20	0.521	GRD	
21	13.02	GRD	
22	1.485	GRD	
22	1.485	GRD	
23	2.257	GRD	
24	10.33	GRD	
25	0.45	GRD	
26	0.322	GRD	
27	12.18	GRD	
27	12.18	GRD	
28	1.623	GRD	
29	23.16	GRD	
30	18.98	GRD	
31	16.04	GRD	
32	0.737	GRD	
33	0.369	GRD	
34	0.932	GRD	
35	0.265	GRD	
36	0.158	GRD	
37	0.565	GRD	
38	0.397	GRD	
39	0.584	GRD	
40	0.27	GRD	
41	0.248	GRD	
42	0.617	GRD	
43	0.269	GRD	
44	0.237	GRD	
45	0.191	GRD	
45	0.191	GRD	
46	0.284	GRD	
47	14.03	GRD	
48	0.495	GRD	
49	0.249	GRD	
49	0.249	GRD	
50	0.576	GRD	
51	0.424	GRD	
52	0.226	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	0.448	GRD	
54	9.917	GRD	
55	0.49	GRD	
56	1.361	GRD	
57	1.819	GRD	
58	0.359	GRD	
59	0.225	GRD	
59	0.225	GRD	
60	0.153	GRD	
61	0.338	GRD	
62	0.313	GRD	
63	3.257	GRD	
64	0.38	GRD	
65	0.739	GRD	
66	0.652	GRD	
67	0.54	GRD	
68	0.555	GRD	
69	1.457	GRD	
70	0.203	GRD	
71	0.215	GRD	
72	0.295	GRD	
73	0.139	GRD	
74	0.131	VEN	
75	0.151	GRD	
76	0.386	GRD	
77	0.334	GRD	
78	0.243	GRD	
79	0.279	QFP	
80	0.244	QFP	
81	0.163	GRD	
82	0.16	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
83	0.534	GRD	
84	0.289	GRD	
85	0.202	GRD	
86	0.212	GRD	
87	0.171	GRD	
88	2.931	GRD	
89	0.206	GRD	
90	0.273	GRD	
91	2.65	GRD	
92	0.245	GRD	
93	0.331	VEN	
94	0.393	GRD	
95	2.352	GRD	
96	0.312	GRD	
97	0.474	GRD	
98	0.498	GRD	
99	5.627	GRD	
100	0.211	GRD	
101	0.464	GRD	
102	0.58	GRD	
103	5.928	GRD	
104	1.228	GRD	
105	0.249	GRD	
106	0.324	GRD	
106	0.324	GRD	
107	1.329	GRD	
108	4.049	GRD	
109	1.146	GRD	
110	5.93	GRD	
111	1.699	GRD	
112	16.03	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
113	0.564	GRD	
114	11.38	GRD	
115	19.16	GRD	
116	2.166	GRD	
116	2.166	GRD	
117	7.762	GRD	
118	15.77	GRD	
119	3.916	GRD	
120	0.281	GRD	
121	0.348	GRD	
122	0.195	GRD	
123	0.274	GRD	
124	0.251	GRD	
125	0.28	GRD	
126	0.41	GRD	
127	0.127	GRD	
127	0.127	GRD	
128	0.171	GRD	
129	0.718	GRD	
130	0.23	GRD	
131	0.533	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295070	☐	19-066	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295077	☐	19-066	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295094	☐	19-068	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295101	☐	19-068	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295115	☐	19-068	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295134	☐	19-069	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295143	☐	19-069	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295156	☐	19-069	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295055	☐	19-066	low grade	ME-6	☐	☐	☐
2.66	3.80	1.14	GRD	1.00	88	K295040	☐	19-065	low grade		☐	☐	☐
3.80	4.65	0.85	GRD	0.80	94	K295041	☐	19-066	low grade		☐	☐	☐
4.65	6.15	1.50	QFP	1.45	97	K295042	☐	19-066	low grade		☐	☐	☐
6.15	7.65	1.50	QFP	1.48	99	K295043	☐	19-066	low grade		☐	☐	☐
7.65	9.15	1.50	QFP	1.50	100	K295044	☐	19-066	low grade		☐	☐	☐
9.15	10.65	1.50	QFP	1.45	97	K295045	☐	19-066	low grade		☐	☐	☐
10.65	12.00	1.35	QFP	1.30	96	K295046	☐	19-066	low grade		☐	☐	☐
10.65	12.00	1.35	QFP	1.30	96	K295047	☐	19-066	low grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
12.00	13.50	1.50	GRD, QFP	1.50	100	K295048	☐	19-066	low grade		☐	☐	☐
13.50	15.00	1.50	GRD	1.48	99	K295049	☐	19-066	low grade		☐	☐	☐
15.00	16.00	1.00	GRD	1.00	100	K295050	☐	19-066	low grade		☐	☐	☐
16.00	16.52	0.52	GRD	0.50	96	K295051	☐	19-066	low grade		☐	☐	☐
16.52	17.70	1.18	GRD	1.15	97	K295052	☐	19-066	low grade		☐	☐	☐
17.70	19.20	1.50	GRD	1.50	100	K295053	☐	19-066	low grade		☐	☐	☐
19.20	20.70	1.50	GRD	1.50	100	K295054	☐	19-066	low grade		☐	☐	☐
20.70	21.50	0.80	GRD	0.75	94	K295056	☐	19-066	low grade		☐	☐	☐
21.50	22.50	1.00	GRD	1.00	100	K295057	☐	19-066	low grade		☐	☐	☐
22.50	23.15	0.65	GRD	0.62	95	K295058	☐	19-066	low grade		☐	☐	☐
23.15	24.50	1.35	GRD	1.32	98	K295059	☐	19-066	low grade		☐	☐	☐
24.50	26.00	1.50	GRD	1.50	100	K295060	☐	19-066	low grade		☐	☐	☐
26.00	27.50	1.50	GRD	1.50	100	K295061	☐	19-066	low grade		☐	☐	☐
27.50	29.00	1.50	GRD	1.50	100	K295062	☐	19-066	low grade		☐	☐	☐
29.00	30.50	1.50	GRD	1.50	100	K295063	☐	19-066	low grade		☐	☐	☐
29.00	30.50	1.50	GRD	1.50	100	K295064	☐	19-066	low grade		☐	☐	☑
30.50	32.00	1.50	GRD	1.50	100	K295065	☐	19-066	low grade		☐	☐	☐
32.00	33.50	1.50	GRD	1.50	100	K295066	☐	19-066	low grade		☐	☐	☐
33.50	35.00	1.50	GRD	1.50	100	K295067	☐	19-066	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
35.00	35.60	0.60	GRD	0.50	83	K295068	☐	19-066	low grade		☐	☐	☐
35.60	36.50	0.90	GRD	0.90	100	K295069	☐	19-066	low grade		☐	☐	☐
36.50	37.50	1.00	GRD, GRD	1.00	100	K295071	☐	19-066	low grade		☐	☐	☐
37.50	39.00	1.50	GRD	1.45	97	K295072	☐	19-066	low grade		☐	☐	☐
39.00	40.50	1.50	GRD	1.45	97	K295073	☐	19-066	low grade		☐	☐	☐
40.50	41.50	1.00	GRD	1.00	100	K295074	☐	19-066	low grade		☐	☐	☐
41.50	43.00	1.50	GRD	1.50	100	K295075	☐	19-066	low grade		☐	☐	☐
43.00	44.00	1.00	GRD	1.00	100	K295076	☐	19-066	low grade		☐	☐	☐
44.00	45.50	1.50	GRD	1.43	95	K295078	☐	19-066	low grade		☐	☐	☐
45.50	47.00	1.50	GRD	1.50	100	K295079	☐	19-066	low grade		☐	☐	☐
47.00	48.47	1.47	GRD	1.47	100	K295080	☐	19-066	low grade		☐	☐	☐
48.47	48.77	0.30	GRD	0.30	100	K295081	☐	19-068	low grade		☐	☐	☐
48.77	49.50	0.73	GRD	0.70	96	K295082	☐	19-068	low grade		☐	☐	☐
49.50	51.00	1.50	GRD	1.50	100	K295083	☐	19-068	low grade		☐	☐	☐
51.00	52.20	1.20	GRD	1.20	100	K295084	☐	19-068	low grade		☐	☐	☐
52.20	53.30	1.10	GRD	1.10	100	K295085	☐	19-068	low grade		☐	☐	☐
53.30	54.50	1.20	GRD	1.20	100	K295086	☐	19-068	low grade		☐	☐	☐
53.30	54.50	1.20	GRD	1.20	100	K295087	☐	19-068	low grade		☐	☐	☑
54.50	56.00	1.50	GRD	1.50	100	K295088	☐	19-068	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
56.00	57.50	1.50	GRD	1.50	100	K295089	☐	19-068	low grade		☐	☐	☐
57.50	59.00	1.50	GRD	1.50	100	K295090	☐	19-068	low grade		☐	☐	☐
59.00	60.50	1.50	GRD, GRD	1.50	100	K295091	☐	19-068	low grade		☐	☐	☐
60.50	62.00	1.50	GRD	1.50	100	K295092	☐	19-068	low grade		☐	☐	☐
62.00	63.50	1.50	GRD	1.45	97	K295093	☐	19-068	low grade		☐	☐	☐
63.50	65.00	1.50	GRD	1.50	100	K295095	☐	19-068	low grade		☐	☐	☐
65.00	66.50	1.50	GRD	1.50	100	K295096	☐	19-068	low grade		☐	☐	☐
66.50	68.00	1.50	GRD	1.50	100	K295097	☐	19-068	low grade		☐	☐	☐
68.00	69.50	1.50	GRD	1.50	100	K295098	☐	19-068	low grade		☐	☐	☐
69.50	71.00	1.50	GRD	1.50	100	K295099	☐	19-068	low grade		☐	☐	☐
71.00	72.20	1.20	GRD	1.20	100	K295100	☐	19-068	low grade		☐	☐	☐
72.20	73.10	0.90	GRD, GRD	0.90	100	K295102	☐	19-068	low grade		☐	☐	☐
73.10	73.50	0.40	GRD	0.40	100	W599209	☐	19-049	high grade		☐	☐	☐
73.50	73.90	0.40	VEN, GRD	0.40	100	K295103	☐	19-068	low grade		☐	☐	☐
73.90	74.20	0.30	GRD	0.30	100	W599210	☐	19-049	high grade		☐	☐	☐
74.20	75.20	1.00	GRD	1.00	100	K295104	☐	19-068	low grade		☐	☐	☐
75.20	76.46	1.26	GRD	1.26	100	K295105	☐	19-068	low grade		☐	☐	☐
76.46	77.20	0.74	GRD, GRD	0.74	100	K295106	☐	19-068	low grade		☐	☐	☐
77.20	78.10	0.90	GRD	0.90	100	K295107	☐	19-068	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
77.20	78.10	0.90	GRD	0.90	100	K295108	☐	19-068	low grade		☐	☑	☐
78.10	79.35	1.25	QFP, GRD	1.25	100	K295109	☐	19-068	low grade		☐	☐	☐
79.35	80.85	1.50	QFP	1.30	87	K295110	☐	19-068	low grade		☐	☐	☐
80.85	81.50	0.65	GRD	0.65	100	K295111	☐	19-068	low grade		☐	☐	☐
81.50	82.50	1.00	GRD	1.00	100	K295112	☐	19-068	low grade		☐	☐	☐
82.50	84.00	1.50	GRD	1.50	100	K295113	☐	19-068	low grade		☐	☐	☐
84.00	85.50	1.50	GRD	1.50	100	K295114	☐	19-068	low grade		☐	☐	☐
85.50	87.00	1.50	GRD	1.50	100	K295116	☐	19-068	low grade		☐	☐	☐
87.00	88.50	1.50	GRD	1.45	97	K295117	☐	19-068	low grade		☐	☐	☐
88.50	90.00	1.50	GRD	1.40	93	K295118	☐	19-068	low grade		☐	☐	☐
90.00	91.00	1.00	GRD	0.95	95	K295119	☐	19-068	low grade		☐	☐	☐
91.00	92.00	1.00	GRD	1.00	100	K295120	☐	19-068	low grade		☐	☐	☐
92.00	92.96	0.96	GRD	0.96	100	K295121	☐	19-069	low grade		☐	☐	☐
92.96	93.72	0.76	GRD, VEN	0.74	97	W599211	☐	19-049	high grade		☐	☐	☐
92.96	93.72	0.76	GRD, VEN	0.74	97	W599212	☐	19-049	high grade		☐	☐	☑
93.72	94.72	1.00	GRD, VEN	1.00	100	K295122	☐	19-069	low grade		☐	☐	☐
94.72	95.65	0.93	GRD	0.90	97	K295123	☐	19-069	low grade		☐	☐	☐
95.65	96.59	0.94	GRD	0.90	96	W599213	☐	19-049	high grade		☐	☐	☐
96.59	97.00	0.41	GRD	0.41	100	K295124	☐	19-069	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
97.00	97.75	0.75	GRD	0.75	100	K295125	☐	19-069	low grade		☐	☐	☐
97.75	98.05	0.30	GRD	0.30	100	W599214	☐	19-049	high grade		☐	☐	☐
98.05	99.00	0.95	GRD	0.95	100	K295126	☐	19-069	low grade		☐	☐	☐
98.05	99.00	0.95	GRD	0.95	100	K295127	☐	19-069	low grade		☐	☑	☐
99.00	100.00	1.00	GRD	1.00	100	K295128	☐	19-069	low grade		☐	☐	☐
100.00	101.00	1.00	GRD	1.00	100	K295129	☐	19-069	low grade		☐	☐	☐
101.00	101.85	0.85	GRD	0.85	100	K295130	☐	19-069	low grade		☐	☐	☐
101.85	102.50	0.65	GRD	0.65	100	K295131	☐	19-069	low grade		☐	☐	☐
102.50	104.00	1.50	GRD	1.50	100	K295132	☐	19-069	low grade		☐	☐	☐
104.00	105.00	1.00	GRD	1.00	100	K295133	☐	19-069	low grade		☐	☐	☐
105.00	106.00	1.00	GRD	1.00	100	K295135	☐	19-069	low grade		☐	☐	☐
106.00	107.50	1.50	GRD, GRD	1.50	100	K295136	☐	19-069	low grade		☐	☐	☐
107.50	109.00	1.50	GRD	1.45	97	K295137	☐	19-069	low grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.50	100	K295138	☐	19-069	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.50	100	K295139	☐	19-069	low grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.50	100	K295140	☐	19-069	low grade		☐	☐	☐
113.50	114.60	1.10	GRD	1.10	100	K295141	☐	19-069	low grade		☐	☐	☐
114.60	116.00	1.40	GRD	1.40	100	K295142	☐	19-069	low grade		☐	☐	☐
116.00	117.50	1.50	GRD, GRD	1.50	100	K295144	☐	19-069	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
117.50	119.00	1.50	GRD	1.50	100	K295145	☐	19-069	low grade		☐	☐	☐
119.00	120.50	1.50	GRD	1.50	100	K295146	☐	19-069	low grade		☐	☐	☐
120.50	122.00	1.50	GRD	1.50	100	K295147	☐	19-069	low grade		☐	☐	☐
122.00	123.50	1.50	GRD	1.50	100	K295148	☐	19-069	low grade		☐	☐	☐
123.50	124.30	0.80	GRD	0.80	100	K295149	☐	19-069	low grade		☐	☐	☐
123.50	124.30	0.80	GRD	0.80	100	K295150	☐	19-069	low grade		☐	☐	☑
124.30	125.80	1.50	GRD	1.40	93	K295151	☐	19-069	low grade		☐	☐	☐
125.80	126.40	0.60	GRD	0.60	100	K295152	☐	19-069	low grade		☐	☐	☐
126.40	127.45	1.05	GRD	1.03	98	K295153	☐	19-069	low grade		☐	☐	☐
127.45	127.95	0.50	GRD	0.50	100	K295154	☐	19-069	low grade		☐	☐	☐
127.95	130.10	2.15	GRD	1.25	58	K295155	☐	19-069	low grade		☐	☐	☐
130.10	131.06	0.96	GRD	0.95	99	K295157	☐	19-069	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-069	K295134	0.00	0.00	0.27	630	☐	☐	☐	☑ ME-6	ME-6 STD
19-069	K295143	0.00	0.00	0.00	20	☐	☐	☑	☐	BLANK
19-069	K295156	0.00	0.00	0.29	640	☐	☐	☐	☑ ME-6	ME-6 STD
19-066	K295055	0.00	0.00	0.28	650	☐	☐	☐	☑ ME-6	ME-6
19-066	K295070	0.00	0.00	0.27	590	☐	☐	☐	☑ ME-6	ME-6
19-066	K295077	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-068	K295094	0.00	0.00	0.26	610	☐	☐	☐	☑ ME-6	ME-6
19-068	K295101	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-068	K295115	0.00	0.00	0.27	640	☐	☐	☐	☑ ME-6	ME-6
19-065	K295040	2.66	3.80	0.01	1610	☐	☐	☐	☐	
19-066	K295041	3.80	4.65	0.00	2910	☐	☐	☐	☐	
19-066	K295042	4.65	6.15	0.01	1140	☐	☐	☐	☐	
19-066	K295043	6.15	7.65	0.01	1320	☐	☐	☐	☐	
19-066	K295044	7.65	9.15	0.00	1900	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-066	K295045	9.15	10.65	0.00	2310	☐	☐	☐	☐	
19-066	K295046	10.65	12.00	0.03	1730	☐	☐	☐	☐	
19-066	K295047	10.65	12.00	0.06	1610	☑	☐	☐	☐	1/4 dup
19-066	K295048	12.00	13.50	0.10	1140	☐	☐	☐	☐	
19-066	K295049	13.50	15.00	0.01	1920	☐	☐	☐	☐	
19-066	K295050	15.00	16.00	0.03	1960	☐	☐	☐	☐	
19-066	K295051	16.00	16.52	0.09	1210	☐	☐	☐	☐	
19-066	K295052	16.52	17.70	0.04	1630	☐	☐	☐	☐	
19-066	K295053	17.70	19.20	0.01	2390	☐	☐	☐	☐	
19-066	K295054	19.20	20.70	0.02	2370	☐	☐	☐	☐	
19-066	K295056	20.70	21.50	0.01	2520	☐	☐	☐	☐	
19-066	K295057	21.50	22.50	0.03	2350	☐	☐	☐	☐	
19-066	K295058	22.50	23.15	0.07	850	☐	☐	☐	☐	
19-066	K295059	23.15	24.50	0.02	2380	☐	☐	☐	☐	
19-066	K295060	24.50	26.00	0.06	650	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-066	K295061	26.00	27.50	0.01	2390	☐	☐	☐	☐	
19-066	K295062	27.50	29.00	0.03	2250	☐	☐	☐	☐	
19-066	K295063	29.00	30.50	0.01	2480	☐	☐	☐	☐	
19-066	K295064	29.00	30.50	0.01	2470	☐	☑	☐	☐	COARSE DUP
19-066	K295065	30.50	32.00	0.02	2420	☐	☐	☐	☐	
19-066	K295066	32.00	33.50	0.03	2120	☐	☐	☐	☐	
19-066	K295067	33.50	35.00	0.02	2120	☐	☐	☐	☐	
19-066	K295068	35.00	35.60	0.95	250	☐	☐	☐	☐	
19-066	K295069	35.60	36.50	0.29	550	☐	☐	☐	☐	
19-066	K295071	36.50	37.50	0.21	950	☐	☐	☐	☐	
19-066	K295072	37.50	39.00	0.11	2040	☐	☐	☐	☐	
19-066	K295073	39.00	40.50	0.23	1230	☐	☐	☐	☐	
19-066	K295074	40.50	41.50	0.06	410	☐	☐	☐	☐	
19-066	K295075	41.50	43.00	0.03	2480	☐	☐	☐	☐	
19-066	K295076	43.00	44.00	0.03	2410	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-066	K295078	44.00	45.50	0.04	670	☐	☐	☐	☐	
19-066	K295079	45.50	47.00	0.01	2370	☐	☐	☐	☐	
19-066	K295080	47.00	48.47	0.03	2450	☐	☐	☐	☐	
19-068	K295081	48.47	48.77	0.68	480	☐	☐	☐	☐	
19-068	K295082	48.77	49.50	0.05	980	☐	☐	☐	☐	
19-068	K295083	49.50	51.00	0.11	960	☐	☐	☐	☐	
19-068	K295084	51.00	52.20	0.03	1650	☐	☐	☐	☐	
19-068	K295085	52.20	53.30	0.07	1030	☐	☐	☐	☐	
19-068	K295086	53.30	54.50	0.01	2320	☐	☐	☐	☐	
19-068	K295087	53.30	54.50	0.01	2350	☐	☑	☐	☐	coarse dup
19-068	K295088	54.50	56.00	0.01	2000	☐	☐	☐	☐	
19-068	K295089	56.00	57.50	0.06	2540	☐	☐	☐	☐	
19-068	K295090	57.50	59.00	0.04	2560	☐	☐	☐	☐	
19-068	K295091	59.00	60.50	0.02	2640	☐	☐	☐	☐	
19-068	K295092	60.50	62.00	0.05	1090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-068	K295093	62.00	63.50	0.02	2970	☐	☐	☐	☐	
19-068	K295095	63.50	65.00	0.06	2630	☐	☐	☐	☐	
19-068	K295096	65.00	66.50	0.11	1220	☐	☐	☐	☐	
19-068	K295097	66.50	68.00	0.12	720	☐	☐	☐	☐	
19-068	K295098	68.00	69.50	0.03	2680	☐	☐	☐	☐	
19-068	K295099	69.50	71.00	0.02	2900	☐	☐	☐	☐	
19-068	K295100	71.00	72.20	0.11	440	☐	☐	☐	☐	
19-068	K295102	72.20	73.10	0.09	690	☐	☐	☐	☐	
19-049	W599209	73.10	73.50	8.65	390	☐	☐	☐	☐	
19-068	K295103	73.50	73.90	0.20	230	☐	☐	☐	☐	
19-049	W599210	73.90	74.20	5.19	120	☐	☐	☐	☐	
19-068	K295104	74.20	75.20	0.48	300	☐	☐	☐	☐	
19-068	K295105	75.20	76.46	0.21	570	☐	☐	☐	☐	
19-068	K295106	76.46	77.20	0.23	350	☐	☐	☐	☐	
19-068	K295107	77.20	78.10	0.27	820	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-068	K295108	77.20	78.10	0.44	1350	☑	☐	☐	☐	1/4 dup
19-068	K295109	78.10	79.35	0.09	1620	☐	☐	☐	☐	
19-068	K295110	79.35	80.85	0.00	1340	☐	☐	☐	☐	
19-068	K295111	80.85	81.50	0.15	160	☐	☐	☐	☐	
19-068	K295112	81.50	82.50	1.26	360	☐	☐	☐	☐	
19-068	K295113	82.50	84.00	1.19	700	☐	☐	☐	☐	
19-068	K295114	84.00	85.50	0.38	1040	☐	☐	☐	☐	
19-068	K295116	85.50	87.00	0.26	1940	☐	☐	☐	☐	
19-068	K295117	87.00	88.50	0.07	1890	☐	☐	☐	☐	
19-068	K295118	88.50	90.00	0.09	1160	☐	☐	☐	☐	
19-068	K295119	90.00	91.00	0.55	200	☐	☐	☐	☐	
19-068	K295120	91.00	92.00	0.16	150	☐	☐	☐	☐	
19-069	K295121	92.00	92.96	0.16	210	☐	☐	☐	☐	
19-049	W599211	92.96	93.72	4.60	40	☐	☐	☐	☐	
19-049	W599212	92.96	93.72	5.04	30	☐	☑	☐	☐	COARSE DUP

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-069	K295122	93.72	94.72	0.07	1810	☐	☐	☐	☐	
19-069	K295123	94.72	95.65	0.05	2000	☐	☐	☐	☐	
19-049	W599213	95.65	96.59	0.35	200	☐	☐	☐	☐	
19-069	K295124	96.59	97.00	0.46	610	☐	☐	☐	☐	
19-069	K295125	97.00	97.75	0.17	1160	☐	☐	☐	☐	
19-049	W599214	97.75	98.05	1.00	100	☐	☐	☐	☐	
19-069	K295126	98.05	99.00	0.17	2180	☐	☐	☐	☐	
19-069	K295127	98.05	99.00	0.19	1810	☑	☐	☐	☐	1/4 dup
19-069	K295128	99.00	100.00	0.13	1280	☐	☐	☐	☐	
19-069	K295129	100.00	101.00	2.14	360	☐	☐	☐	☐	
19-069	K295130	101.00	101.85	0.15	1390	☐	☐	☐	☐	
19-069	K295131	101.85	102.50	1.41	790	☐	☐	☐	☐	
19-069	K295132	102.50	104.00	0.11	1790	☐	☐	☐	☐	
19-069	K295133	104.00	105.00	0.02	2170	☐	☐	☐	☐	
19-069	K295135	105.00	106.00	0.02	1630	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-069	K295136	106.00	107.50	0.03	2170	☐	☐	☐	☐	
19-069	K295137	107.50	109.00	0.05	1680	☐	☐	☐	☐	
19-069	K295138	109.00	110.50	0.05	1820	☐	☐	☐	☐	
19-069	K295139	110.50	112.00	0.02	2180	☐	☐	☐	☐	
19-069	K295140	112.00	113.50	0.03	2700	☐	☐	☐	☐	
19-069	K295141	113.50	114.60	0.06	1910	☐	☐	☐	☐	
19-069	K295142	114.60	116.00	0.02	2310	☐	☐	☐	☐	
19-069	K295144	116.00	117.50	0.01	2270	☐	☐	☐	☐	
19-069	K295145	117.50	119.00	0.01	2640	☐	☐	☐	☐	
19-069	K295146	119.00	120.50	0.01	1860	☐	☐	☐	☐	
19-069	K295147	120.50	122.00	0.02	1760	☐	☐	☐	☐	
19-069	K295148	122.00	123.50	0.03	1200	☐	☐	☐	☐	
19-069	K295149	123.50	124.30	0.13	590	☐	☐	☐	☐	
19-069	K295150	123.50	124.30	0.07	690	☐	☑	☐	☐	COARSE DUP
19-069	K295151	124.30	125.80	0.03	1990	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-069	K295152	125.80	126.40	0.02	1680	☐	☐	☐	☐	
19-069	K295153	126.40	127.45	0.80	170	☐	☐	☐	☐	
19-069	K295154	127.45	127.95	0.03	1930	☐	☐	☐	☐	
19-069	K295155	127.95	130.10	0.04	1600	☐	☐	☐	☐	
19-069	K295157	130.10	131.06	0.03	2200	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
4.57	4.65	FT	42	70	NUL	1	faulted gouged contact between GRD and dyke			
11.80	12.00	FT	42	70	NUL	1	faulted gouged contact between dyke and granodioirite			
16.00	16.50	ST		70	NUL	5	five small <5 mm wide pyrite bearing quartz carbonate veinlets			
								Py	0.5	DI
22.00	23.10	ST		70	NUL	3	pyrite bearing quartz veinlets 8 mm in size			
								Py	0.5	DI
28.36	28.38	VT	37	70	NUL	1	pyrite bearing quartz veinlet			
								Py	0.2	DI
30.82	30.83	VT	37	70	NUL	1	pyrite bearing quartz veinlet			
								Py	0.5	DI
32.10	33.50	ST		70	NUL	13	set of hairline quartz carbonate stringers with trace dissminated pyrite on their margins			
								Py	0.2	DI
33.86	33.88	VT	37	70	NUL	1	small quartz carbonate veinlet barren of sulphides			
35.20	35.30	VN	37	60	NUL	1	one small rhodochrosite veinlet			
35.80	36.10	VT	37	70	NUL	2	two small 5 cm wide rhodochrosite veinlets			
41.00	41.30	ST		80	NUL	5	small pyrite bearing quartz strigners			
								Py	0.1	DI
48.00	50.00	ST		70	NUL	4	small pyrite bearing quartz veinlets 1-3 mm in size			
66.17	66.60	ST		70	NUL	5	small pyrite bearing quartz veinlets <1mm in size			
								Py	0.5	DI
73.15	73.50	VN	37	70	NUL	1	semimassive sphalerite, pyrite +- galena vein, with a fauted lower contact and a sulfide rich puper contact (upper 10 cm is best section).			
								Sp	5	BN
								Py	5	BN
								Gn	1	DI
73.99	74.13	VN	37	75	NUL	1	semimassive banded pyrite, galena, and sphalerite quartz vein.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	1	BN
								Gn	1	BN
								Py	2	BN
74.30	76.20	ST		60	NUL	15	small quartz carbonate veinlets; without sulfide. Other veinlets (6) have trace pyrite			
								Py	0.1	DI
77.20	78.10	FT	42	50	NUL	1	fault gouged contact between granodiorite above and dyke below			
81.00	82.50	ST		35	NUL	7	seven small pyrite and trace sphlerite bearing quartz veinlets			
								Sp	0.5	DI
								Py	1	DI
89.92	92.96	ST		70	NUL	6	six 3-1 mm wide pyrite baring siliceous intervals within heavily fractured siliceous propylitic altered granodiorite			
92.96	93.72	VN	37	70	NUL	1	semimassive sulfdie vein with pyrite, sphalerite, galena, and trace arsenopyrite			
								Sp	2	BN
								As	1	DI
								Py	10	DI
								Gn	1	DI
95.50	96.10	ST		70	NUL	8	small pyrite bearing quartz veinlets s1 mm wide			
96.50	97.60	ST		70	NUL	6	small small pyrite bearing quartz veinlets			
97.81	97.93	VN	37	70	NUL	1	massive pyrite vein, with mionr patchy blebby galena and chalco			
100.00	102.60	ST		70	NUL	12	small pyrite bearing quartz veinlets dispersed evenly throughout interval , ranging from 3-5 mm wide			
104.50	106.00	ST		70	NUL	5	small pyrite bearing quartz veinlets from 1-4 mm wide			
110.24	110.75	ST		70	NUL	3	small pyrite bearing quartz veinlet <1mm wide			
113.00	113.01	VT	37	10	NUL	1	small tourmaline pyrite veinlet 2 mm in size running essentially parallel TCA			
113.80	114.50	ST		70	NUL	8	small pyrite bearing quartz veinlets (1mm in size)			
119.35	119.40	ST		80	NUL	1	small pyrite bearing quartz veinlet			
123.00	124.00	ST		70	NUL	2	small pyrite bearing quartz veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.5	DI
126.40	127.00	ST		70	NUL	4	4 small pyrite bearing quartz veinlets			
								Py	0.5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382854	6889118	1452.712	128.02

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-451

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 17 - Sep 19, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
8	33.26	-50.6	Reflex
128	34.56	-51.1	Reflex

TARGET: Infill Resource

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.3	1.3	OVB
1.3	3	1.7	GRD
3	5	2	GRD
5	6.43	1.43	GRD
6.43	7.09	0.66	GRD
7.09	7.68	0.59	GRD
7.68	8.75	1.07	GRD
8.75	13.13	4.38	GRD
13.13	13.8	0.67	GRD
13.8	14.5	0.7	GRD
14.5	16.3	1.8	GRD
16.3	18.46	2.16	GRD
18.46	19.18	0.72	GRD
19.18	21	1.82	GRD
21	22	1	GRD
22	22.7	0.7	GRD

SAMPLES	
Numbers:	K295158 to K295289, W599216 to W599218
Total:	135
Batch:	049, 069, 070, 071, 072, 075
Certificates:	WH19249628, WH19249635, WH19249643, WH19249647, WH19251793, WH19255796

COMMENTS

22.7	22.93	0.23	GRD
22.93	23.58	0.65	GRD
23.58	24.65	1.07	GRD
24.65	26.6	1.95	GRD
26.6	28	1.4	GRD
28	33	5	GRD
33	36.58	3.58	GRD
36.58	42.1	5.52	GRD
42.1	43.1	1	GRD
43.1	46.44	3.34	GRD
46.44	47.44	1	GRD
47.44	50.8	3.36	GRD
50.8	52.5	1.7	GRD
52.5	54.27	1.77	GRD
54.27	54.9	0.63	GRD
54.9	56.88	1.98	GRD
56.88	58	1.12	GRD
58	59.7	1.7	GRD
59.7	62.27	2.57	GRD
62.27	62.9	0.63	GRD
62.9	63.66	0.76	GRD
63.66	64.55	0.89	GRD
64.55	65.3	0.75	GRD
65.3	66.08	0.78	GRD
66.08	67.06	0.98	GRD
67.06	67.63	0.57	GRD
67.63	68.12	0.49	GRD
68.12	69.35	1.23	GRD
69.35	71.25	1.9	GRD
71.25	72.85	1.6	GRD
72.85	74.1	1.25	GRD
74.1	76.2	2.1	GRD

76.2	77.5	1.3	GRD
77.5	82.04	4.54	GRD
82.04	82.42	0.38	GRD
82.42	83.01	0.59	GRD
83.01	85.18	2.17	GRD
85.18	85.5	0.32	GRD
85.5	87	1.5	GRD
87	88.39	1.39	GRD
88.39	90.85	2.46	GRD
90.85	97	6.15	GRD
97	98.78	1.78	GRD
98.78	99.5	0.72	GRD
99.5	100.51	1.01	GRD
100.51	105.88	5.37	QFP
105.88	106.9	1.02	GRD
106.9	107.1	0.2	GRD
107.1	107.69	0.59	GRD
107.69	111.63	3.94	QFP
111.63	112.12	0.49	GRD
112.12	115.34	3.22	GRD
115.34	116.29	0.95	GRD
116.29	116.45	0.16	QFP
116.45	116.7	0.25	GRD
116.7	117.17	0.47	VEN
117.17	117.97	0.8	GRD
117.97	119.82	1.85	GRD
119.82	128.02	8.2	GRD

Box Log

KL -19-451

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.3	5.3
2	5.3	10.07
3	10.07	14.15
4	14.15	18.29
5	18.29	22.4
6	22.4	26.58
7	26.58	30.81
8	30.81	35.24
9	35.24	39.62
10	39.62	43.91
11	43.91	48.29
12	48.29	52.68
13	52.68	56.68
14	56.68	61.02
15	61.02	65.42
16	65.42	69.53
17	69.53	73.71
18	73.71	78.12
19	78.12	82.49
20	82.49	86.85
21	86.85	91.15
22	91.15	95.55
23	95.55	99.76
24	99.76	104.13
25	104.13	108.53
26	108.53	112.49
27	112.49	116.4
28	116.4	120.71
29	120.71	125.11
30	125.11	128.02

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-451									
	20.82	13	NTW	GRD	839.2	530.8	2.28	2.7	
	64.88	12	NTW	GRD	825.5	529.8	2.43	2.8	
	116.87	13	NTW	VEN	970.4	724	2.64	3.9	
	120.7	12	NTW	GRD	752.8	495.1	2.22	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	OVB	--	overburden							
1.30	3.00	1.70	GRD	--	mixture of 60 % OVB and 40% granodiorite fragments up to 10 cm in size							
3.00	5.00	2.00	GRD	MG	medium grained, bleached and oxidized granodiorite, with strong clay alteration. Medium brown to patchy white, brownish red.							
						MD	GY		BLE	4I		
						MD	BN		OXI	4I		
						LT	WH		CLY	4I		
5.00	6.43	1.43	GRD	MG	Medium greenish grey with patchy oxide stains, moderately propylitic and clay altered granodiorite. Less bleached, but still has numerous oxidized fractures, and a series of small (<5 mm) parallel sheeted carbonate veinlets throughout interval, barren of sulfide							
						MD	GN		PRO	2I		
						MD	GY		BLE	2I		
						LT	BN		OXI	2I		
									CLY	2I		
6.43	7.09	0.66	GRD	MG	medium grained, brown, completely oxidized and stained, weakly vuggy granodiorite, likely silicified and has a set of low angle vuggy seams trending 35 TCA that hae small sub-cm open-space pockets. Limonite and grunge-filled pockets are sporadic, and there are two veinlets that contain disseminated pyrite							
						MD	BN		SIL	2I	Py	1
									OXI	4I	Li	0.5
7.09	7.68	0.59	GRD	MG	medium grained, weakly oxidized and propylitic altered granodiorite with oxide staining on fractures extending 2 mm from frx.							
						MD	BN					
						MD	GY		OXI	2I		
7.68	8.75	1.07	GRD	MG	unaltered granodiorite with oxidative staining extending 2-5 mm from frx							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
8.75	13.13	4.38	GRD	MG	moderately argillic altered granodiorite with a weak propylitic overprint. Interval contains stringer zones of carbonate veinlets that trend 70 TCA. There are two small pyrite bearing quartz veinlets, one near the top of interval and the other near the bottom.							
						MD	GY		ARG	2I	Py	0.1
						MD	GN		PRO	2I		
						MD	BN					
13.13	13.80	0.67	GRD	MG	moderately argililc altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
13.80	14.50	0.70	GRD	MG	strongly propylitic nd silicified granodiorite with weak bleaching and oxidation. Vuggy thin quartz veinlets contain limonite, as well as two pyrite bearing quartz veinlets.							
						MD	GN		SIL	2I	Py	1
						MD	BN		PRO	4I		
						MD	GY		OXI	2I		
						LT	WH		ARG	1I		
14.50	16.30	1.80	GRD	MG	moderately argillic altered, bleached, and oxide-stained along fractures, granodiorite.							
						MD	GY		ARG	3I		
						MD	BN		BLE	2I		
						LT	WH		OXI	3I		
16.30	18.46	2.16	GRD	MG	heavily fractured, oxidized, silicified granodiorite with weak vuggy textures along frx that trend 30 TCA. Weak brecciated texture at bottom of interval. Poor recovery in this interval. Likely faulted granodiorite							
						MD	BN		OXI	4I	Li	0.5
									BLE	3I		
									SIL	3I		
18.46	19.18	0.72	GRD	MG	unaltered granodiorite							
						MD	GY					
19.18	21.00	1.82	GRD	MG	medium greenish grey, oxidized, weakly argillic and propylitic altered granodiorite with weak oxidative staining along fractures							
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		ARG	2I		
21.00	22.00	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
22.00	22.70	0.70	GRD	MG	oxide stained, weakly propylitic altered grd							
						MD	GN		PRO	3I		
						MD	GY					
22.70	22.93	0.23	GRD	MG	heavily fractured, quartz carbonate vein with no visible sulfide (but heavily oxidized) possibly faulted granodiorite							
						MD	BN		CLY	4I		
						MD	BF					
22.93	23.58	0.65	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	2I		
23.58	24.65	1.07	GRD	MG	unaltered granodiorite							
						MD	GY					
24.65	26.60	1.95	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint							
						MD	GY		PRO	3I		
						LT	WH		ARG	3I		
26.60	28.00	1.40	GRD	MG	unaltered granodiorite							
						MD	GY					
28.00	33.00	5.00	GRD	MG	medium grained, mediu greenish grey weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN		PRO	2I		
33.00	36.58	3.58	GRD	MG	realtively unaltreed granodiorite. One small patch of trace propylitic alteration							
						MD	GY					
36.58	42.10	5.52	GRD	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.							
						MD	GN		OXI	2I		
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		ARG	2I		
						LT	WH		BLE	2I		
42.10	43.10	1.00	GRD	MG	strongly propylitic altered and silicified granodiorite, with two small pyrite bearing quartz veinlets							
						MD	GN		SIL	3I	Py	1
						MD	GY		PRO	3I		
43.10	46.44	3.34	GRD	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.							
						MD	GY		ARG	3I		
						MD	BN					
						LT	WH		PRO	2I	Py	0.5
46.44	47.44	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
47.44	50.80	3.36	GRD	MG	weakly bleached, oxidized, moderately argillic altered granodiorite with oxidative staining on frx surfaces and weak carbontae veinlets trending 70 TCA throughout interval.							
						MD	BN		ARG	2I		
						MD	GY		OXI	2I		
						LT	WH		BLE	2I		
									PRO	2I		
50.80	52.50	1.70	GRD	MG	medium grained, weakly propylitic altered granodiorite with 8 small quartz carbonate veinlets containing disseminated pyrite							
						MD	GN		PRO	3I		
						MD	GY		SIL	1I	Py	0.5
52.50	54.27	1.77	GRD	MG	medium to fine-grained, variably silicified and propylitic altered granodiorite with weak 1-3 mm wide quartz carbonate veinlets +- trace pyrite							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		SIL	1I		
54.27	54.90	0.63	GRD	MG	moderately argillic altered granodiorite							
						MD	GY		ARG	3I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.90	56.88	1.98	GRD	MG	moderately propylitic altered greenish grey granodiorite with nine small mm-scale quartz carbonate veinlets hosting trace dissemianted pyrite as well as trace dissem pyrite in groundmass							
						MD	GN		SIL	1I	Py	0.2
						MD	GY		PRO	4I		
56.88	58.00	1.12	GRD	MG	unaltered granodiorite							
						MD	GY					
58.00	59.70	1.70	GRD	MG	moderately argillic altered granodiroite with a weak propylitic overprint.							
						MD	GY		PRO	2I		
						MD	GN		BLE	1I		
						LT	WH		ARG	2I		
59.70	62.27	2.57	GRD	MG	unaltered granodiorite							
						MD	GY					
62.27	62.90	0.63	GRD	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	1I		
62.90	63.66	0.76	GRD	MG	unaltered granodiorite							
						MD	GY					
63.66	64.55	0.89	GRD	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
64.55	65.30	0.75	GRD	MG	unaltered grnaodiorite							
						MD	GY					
65.30	66.08	0.78	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with weak propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.08	67.06	0.98	GRD	MG	faulted, strongly gouged and clay altered granodiorite with sharp upper and lower contact trending 30 TCA. Medium brown, heavily oxidized with silicified oxidized clasts of grd within gouge materail							
						MD	GY		CLY	5I		
						MD	BN					
67.06	67.63	0.57	GRD	MG	clay altered, competent breccia; less gouged than previous section but likely the same fault hosts this small unit.							
						MD	GY		CLY	3I		
						MD	BN		OXI	2I		
									BLE	2I		
67.63	68.12	0.49	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint.							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
68.12	69.35	1.23	GRD	MG	unaltered granodiorite, with prominent 30 TCA fracture set (6) that may be proto-fault fractures, with weak carbonate staininf on them							
						MD	GY					
69.35	71.25	1.90	GRD	MG	moderately argillic altered granodiorite with moderate propylitic overprint. Small sections are silicified and dark grey. These sections contain quartz carbonate veinlets that trend 70 TCA and contain trace disseminated pyrite. There are 5 small quartz carbonate veinlets that host trace disseminated pyrite							
						MD	GY		PRO	3I		
						MD	GN		SIL	1I		
						LT	WH		ARG	3I	Py	0.5
71.25	72.85	1.60	GRD	MG	unaltered granodiorite with carbonate on fractures							
						MD	GY					
72.85	74.10	1.25	GRD	MG	moderate to strong propylitic altered granodiorite, with 6 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		SID	1I		
74.10	76.20	2.10	GRD	MG	patchy argillic altered granodiorite with weak carbonate/chlorite/hematite on fractures							
						MD	GN		CHL	1I		
						MD	GY		HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									ARG	1I		
76.20	77.50	1.30	GRD	MG	moderate to strong propylitic altered granodiorite, with 4 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.							
						MD	GY					
						MD	GN		PRO	4I		
						DK	GY		SIL	1I		
77.50	82.04	4.54	GRD	MG	unaltered granodiorite with weak carbonate alteration along fractures							
						MD	GY					
82.04	82.42	0.38	GRD	MG	weakly argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		PRO	2I		
						MD	GN					
						LT	WH		ARG	2I		
82.42	83.01	0.59	GRD	MG	unaltered granodiorite							
						MD	GY					
83.01	85.18	2.17	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration - trace cabonate veinelts with weak pyrite along their margins							
						MD	GN		SIL	1I	Py	0.1
						MD	GY		PRO	2I		
									ARG	2I		
85.18	85.50	0.32	GRD	MG	unaltered granodiorite							
						MD	GN					
						MD	GY					
85.50	87.00	1.50	GRD	MG	weak to moderate propylitic altered granodiorite, no veinlets or significant other features							
						MD	GY					
						MD	GN		PRO	3I		
87.00	88.39	1.39	GRD	MG	moderately prop altered grd with two small quartz carbonate veinlets with no sulfide							
						MD	GY		PRO	3I		
						MD	GN					
88.39	90.85	2.46	GRD	MG	medium grained weakly propylitic altered granodiorite with 6 hairline carbonate/hematite stained fractures with no sulfide.							
						MD	GY		HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	1I		
90.85	97.00	6.15	GRD	MG	weak to moderate propylitic altered granodiorite with weak quartz carbonate hairline stringer veinlets (about 13; of which 4 contain trace pyrite) dispersed throughout trending ~30-50 TCA.							
						MD	GN		SIL	1I	Py	0.1
						MD	GY		PRO	2I		
									ARG	1I		
97.00	98.78	1.78	GRD	MG	moderately argillic and clay altered granodiorite, with a large density of clay fractures, causing granodiorite to appear brecciated in places (due to density of frx).							
						MD	GN		PRO	1I		
						MD	GY		CLY	4I		
						LT	GY		ARG	3I		
						LT	GN					
98.78	99.50	0.72	GRD	MG	moderate to strong propylici altered grd with 4 quartz carbonate veinlets trending 60 TCA that contain disseminated pyrite							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	3I		
99.50	100.51	1.01	GRD	MG	moderately propylitic altered granodiorite with three hairline quartz carbonate stringers with trace py							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I		
100.51	105.88	5.37	QFP	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke							
						MD	GY		CHL	1I		
						LT	GY					
						LT	GN		PRO	2I		
105.88	106.90	1.02	GRD	MG	faulted, clay altered, brecciated grd with weak trace disseminated pyrite throughout							
						MD	GY		CLY	3I	Py	0.1
						LT	GY					
						LT	GN		PRO	3I		
106.90	107.10	0.20	GRD	MG	sectin of silicified granodiorite with one pyrite bearing quartz vein 3 cm wide, and two pyrite +- sphalerite beraing quartz carbonate veinelts, all trend 80 TCA							
						MD	GY		PRO	2I	Sp	0.25

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		SIL	1I	Py	1
						LT	GN					
107.10	107.69	0.59	GRD	MG	faulted, clay altreed granodioirte							
						MD	GY		CLY	4I		
						MD	GN					
107.69	111.63	3.94	QFP	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke							
111.63	112.12	0.49	GRD	MG	medium grey, silicified and propylitic altered granodiorite with dissemianted pyrite throughout interval, with one quartz vein that is 4 cm wide, with pyrite throughout							
						MD	GY		PRO	2I	Py	1
									SIL	3I	Py	0.5
112.12	115.34	3.22	GRD	MG	medium greyish green, moderately silicified and propylitic altered granodiorite, with weak carbonate veinlets devoid of sulfides							
						MD	GY		PRO	3I		
						MD	GN		SIL	3I		
115.34	116.29	0.95	GRD	MG	faulted, clay altered, granodiorite with three 5 mm wide rhodonite veinlets and trace pyrite along their margins, as well as dissemianted pyrite in gouge and in granodiorite.							
						MD	GY		SIL	2I	Py	1
						LT	GN		CLY	4I	Sp	0.5
						LT	GY					
116.29	116.45	0.16	QFP	MG	light greenish grey qfp dyke							
						LT	GY		CHL	1I		
						LT	GN		PRO	1I		
116.45	116.70	0.25	GRD	MG	heavily fractured, greenish grey, silicified and propylitic altered granodiorite with disseminated pyrite throughout							
						MD	GY		PRO	3I	Py	0.5
									SIL	3I		
116.70	117.17	0.47	VEN	MG	semimassive sulfide vein with banded pyrite, rhodonite, quartz, sphalerite, and patchy arsenopyrite. Upper contact is 60 TCA and lower is 70 TCA							
						MD	GY				As	1
						MD	BN				Sp	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						DK	GY		SIL	5I	Py	15
117.17	117.97	0.80	GRD	MG	heavily fractured, propylitic and silicieous granodiorite with disseminated pyrite and weak patchy sphalerite throughout interval							
						MD	GY					
						LT	GN		SIL	2I	Py	1
						LT	GY		CLY	4I	Sp	1
117.97	119.82	1.85	GRD	MG	strongly silicified and propylitic altered granodiorte with patchy disseminated tourmaline, and rare quartz carbonate stringers with weak pyrite							
						MD	GY		SIL	1I	Py	0.1
						MD	GN		PRO	4I		
119.82	128.02	8.20	GRD	MG	weak to moderate propylitic altered and weakly argillic altered, patch greenish grey to grey granodiorite with rare hairline quartz stringers with trace disseminated pyrite							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.30	1.30	OVB	OVB	--	overburden
1.30	3.00	1.70	GRD	OVB	--	mixture of 60 % OVB and 40% granodiorite fragments up to 10 cm in size
3.00	5.00	2.00	GRD	GRDA	MG	medium grained, bleached and oxidized granodiorite, with strong clay alteration. Medium brown to patchy white, brownish red.
5.00	6.43	1.43	GRD	GRDA	MG	Medium greenish grey with patchy oxide stains, moderately propylitic and clay altered granodiorite. Less bleached, but still has numerous oxidized fractures, and a series of small (<5 mm) parallel sheeted carbonate veinlets throughout interval, barren of sulfide
6.43	7.09	0.66	GRD	GRDM	MG	medium grained, brown, completely oxidized and stained, weakly vuggy granodiorite, likely silicified and has a set of low angle vuggy seams trending 35 TCA that hae small sub-cm open-space pockets. Limonite and grunge-filled pockets are sporadic, and there are two veinlets that contain disseminated pyrite
7.09	7.68	0.59	GRD	GRDA	MG	medium grained, weakly oxidized and propylitic altered granodiorite with oxide staining on fractures extending 2 mm from frx.
7.68	8.75	1.07	GRD	GRD	MG	unaltered granodiorite with oxidative staining extending 2-5 mm from frx
8.75	13.13	4.38	GRD	GRDA	MG	moderately argillic altered granodiorite with a weak propylitic overprint. Interval contains stringer zones of carbonate veinlets that trend 70 TCA. There are two small pyrite bearing quartz veinlets, one near the top of interval and the other near the bottom.
13.13	13.80	0.67	GRD	GRDA	MG	moderately argililc altered granodiorite
13.80	14.50	0.70	GRD	GRDM	MG	strongly propylitic nd silicified granodiorite with weak bleaching and oxidation. Vuggy thin quartz veinlets contain limonite, as well as two pyrite bearing quartz veinlets.
14.50	16.30	1.80	GRD	GRDA	MG	moderately argillic altered, bleached, and oxide-stained along fractures, granodiorite.
16.30	18.46	2.16	GRD	GRDM	MG	heavily fractured, oxidized, silicified granodiorite with weak vuggy textures along frx that trend 30 TCA. Weak brecciated texture at bottom of interval. Poor recovery in this interval. Likely faulted granodiorite
18.46	19.18	0.72	GRD	GRD	MG	unaltered granodiorite
19.18	21.00	1.82	GRD	GRDA	MG	medium greenish grey, oxidized, weakly argillic and propylitic altered granodiorite with weak oxidative staining along fractures
21.00	22.00	1.00	GRD	GRD	MG	unaltered granodiorite
22.00	22.70	0.70	GRD	GRDA	MG	oxide stained, weakly propylitic altered grd
22.70	22.93	0.23	GRD	GRDF	MG	heavily fractured, quartz carbonate vein with no visible sulfide (but heavily oxidized) possibly faulted granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
22.93	23.58	0.65	GRD	GRDA	MG	weakly argillic altered granodiorite
23.58	24.65	1.07	GRD	GRD	MG	unaltered granodiorite
24.65	26.60	1.95	GRD	GRDA	MG	weakly argillic altered granodiorite with weak propylitic overprint
26.60	28.00	1.40	GRD	GRD	MG	unaltered granodiorite
28.00	33.00	5.00	GRD	GRDA	MG	medium grained, mediu greenish grey weak to moderately argillic altered granodiorite with a weak propylitic overprint
33.00	36.58	3.58	GRD	GRD	MG	realtively unaltreed granodiorite. One small patch of trace propylitic alteration
36.58	42.10	5.52	GRD	GRDA	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.
42.10	43.10	1.00	GRD	GRDM	MG	strongly propylitic altered and silicified granodiorite, with two small pyrite bearing quartz veinlets
43.10	46.44	3.34	GRD	GRDA	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.
46.44	47.44	1.00	GRD	GRD	MG	unaltered granodiorite
47.44	50.80	3.36	GRD	GRDA	MG	weakly bleached, oxidized, moderately argillic altered granodiorite with oxidative staining on frx surfaces and weak carbontae veinlets trending 70 TCA throughout interval.
50.80	52.50	1.70	GRD	GRDM	MG	medium grained, weakly propylitic altered granodiorite with 8 small quartz carbonate veinlets containing disseminated pyrite
52.50	54.27	1.77	GRD	GRDA	MG	medium to fine-grained, variably silicified and propylitic altered granodiorite with weak 1-3 mm wide quartz carbonate veinlets +- trace pyrite
54.27	54.90	0.63	GRD	GRDA	MG	moderately argillic altered granodiorite
54.90	56.88	1.98	GRD	GRDA	MG	moderately propylitic altered greenish grey granodiorite with nine small mm-scale quartz carbonate veinlets hosting trace dissemianted pyrite as well as trace dissem pyrite in groundmass
56.88	58.00	1.12	GRD	GRD	MG	unaltered granodiorite
58.00	59.70	1.70	GRD	GRDA	MG	moderately argillic altered granodiroite with a weak propylitic overprint.
59.70	62.27	2.57	GRD	GRD	MG	unaltered granodiorite
62.27	62.90	0.63	GRD	GRDA	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets
62.90	63.66	0.76	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
63.66	64.55	0.89	GRD	GRDA	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets
64.55	65.30	0.75	GRD	GRD	MG	unaltered grnaodiorite
65.30	66.08	0.78	GRD	GRDA	MG	medium grained, weak to moderate argillic altered granodiorite with weak propylitic overprint
66.08	67.06	0.98	GRD	GRDF	MG	faulted, strongly gouged and clay altered granodiorite with sharp upper and lower contact trending 30 TCA. Medium brown, heavily oxidized with silicified oxidized clasts of grd within gouge materail
67.06	67.63	0.57	GRD	GRDA	MG	clay altered, competent breccia; less gouged than previous section but likely the same fault hosts this small unit.
67.63	68.12	0.49	GRD	GRDA	MG	weakly argillic altered granodiorite with weak propylitic overprint.
68.12	69.35	1.23	GRD	GRD	MG	unaltered granodiorite, with prominent 30 TCA fracture set (6) that may be proto-fault fractures, with weak carbonate staininf on them
69.35	71.25	1.90	GRD	GRDA	MG	moderately argillic altered granodiorite with moderate propylitic overprint. Small sections are silicified and dark grey. These sections contain quartz carbonate veinlets that trend 70 TCA and contain trace disseminated pyrite. There are 5 small quartz carbonate veinlets that host trace disseminated pyrite
71.25	72.85	1.60	GRD	GRD	MG	unaltered granodiorite with carbonate on fractures
72.85	74.10	1.25	GRD	GRDM	MG	moderate to strong propylitic altered granodiorite, with 6 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.
74.10	76.20	2.10	GRD	GRDA	MG	patchy argillic altered granodiorite with weak carbonate/chlorite/hematite on fractures
76.20	77.50	1.30	GRD	GRDM	MG	moderate to strong propylitic altered granodiorite, with 4 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.
77.50	82.04	4.54	GRD	GRD	MG	unaltered granodiorite with weak carbonate alteration along fractures
82.04	82.42	0.38	GRD	GRDA	MG	weakly argillic altered granodiorite with a weak propylitic overprint
82.42	83.01	0.59	GRD	GRD	MG	unaltered granodiorite
83.01	85.18	2.17	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration - trace cabonate veinelts with weak pyrite along their margins
85.18	85.50	0.32	GRD	GRD	MG	unaltered granodiorite
85.50	87.00	1.50	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite, no veinlets or significant other features
87.00	88.39	1.39	GRD	GRDA	MG	moderately prop altered grd with two small quartz carbonate veinlets with no sulfide

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
88.39	90.85	2.46	GRD	GRDA	MG	medium grained weakly propylitic altered granodiorite with 6 hairline carbonate/hematite stained fractures with no sulfide.
90.85	97.00	6.15	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite with weak quartz carbonate hairline stringer veinlets (about 13; of which 4 contain trace pyrite) dispersed throughout trending ~30-50 TCA.
97.00	98.78	1.78	GRD	GRDF	MG	moderately argillic and clay altered granodiorite, with a large density of clay fractures, causing granodiorite to appear brecciated in places (due to density of frx).
98.78	99.50	0.72	GRD	GRDM	MG	moderate to strong propylici altered grd with 4 quartz carbonate veinlets trending 60 TCA that contain disseminated pyrite
99.50	100.51	1.01	GRD	GRDA	MG	moderately propylitic altered granodiorite with three hairline quartz carbonate stringers with trace py
100.51	105.88	5.37	QFP	DYK	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke
105.88	106.90	1.02	GRD	GRDF	MG	faulted, clay altered, brecciated grd with weak trace disseminated pyrite throughout
106.90	107.10	0.20	GRD	GRDM	MG	sectin of silicified granodiorite with one pyrite bearing quartz vein 3 cm wide, and two pyrite +- sphalerite beraing quartz carbonate veinelts, all trend 80 TCA
107.10	107.69	0.59	GRD	GRDF	MG	faulted, clay altreed granodioirte
107.69	111.63	3.94	QFP	DYK	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke
111.63	112.12	0.49	GRD	GRDM	MG	medium grey, silicified and propylitic altered granodiorite with dissemianted pyrite throughout interval, with one quartz vein that is 4 cm wide, with pyrite throughout
112.12	115.34	3.22	GRD	GRDA	MG	medium greyish green, moderately silicified and propylitic altered granodiorite, with weak carbonate veinlets devoid of sulfides
115.34	116.29	0.95	GRD	GRDM	MG	faulted, clay altered, granodiorite with three 5 mm wide rhodonite veinlets and trace pyrite along their margins, as well as dissemianted pyrite in gouge and in granodiorite.
116.29	116.45	0.16	QFP	DYK	MG	light greenish grey qfp dyke
116.45	116.70	0.25	GRD	GRDM	MG	heavily fractured, greenish grey, silicified and propylitic altered granodiorite with disseminated pyrite throughout
116.70	117.17	0.47	VEN	VEIN	MG	semimassive sulfide vein with banded pyrite, rhodonite, quartz, sphalerite, and patchy arsenopyrite. Upper contact is 60 TCA and lower is 70 TCA
117.17	117.97	0.80	GRD	GRDM	MG	heavily fractured, propylitic and silicieous granodiorite with disseminated pyrite and weak patchy sphalerite throughout interval
117.97	119.82	1.85	GRD	GRDM	MG	strongly silicified and propylitic altered granodiorte with patchy disseminated tourmaline, and rare quartz carbonate stringers with weak pyrite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
119.82	128.02	8.20	GRD	GRDA	MG	weak to moderate propylitic altered and weakly argillic altered, patch greenish grey to grey granodiorite with rare hairline quartz stringers with trace disseminated pyrite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	OVB	--	overburden							
1.30	3.00	1.70	GRD	--	mixture of 60 % OVB and 40% granodiorite fragments up to 10 cm in size							
3.00	5.00	2.00	GRD	MG	medium grained, bleached and oxidized granodiorite, with strong clay alteration. Medium brown to patchy white, brownish red.							
						MD	BN		CLY	4I		
						LT	WH		OXI	4I		
						MD	GY		BLE	4I		
5.00	6.43	1.43	GRD	MG	Medium greenish grey with patchy oxide stains, moderately propylitic and clay altered granodiorite. Less bleached, but still has numerous oxidized fractures, and a series of small (<5 mm) parallel sheeted carbonate veinlets throughout interval, barren of sulfide							
						MD	GY		PRO	2I		
						LT	BN		BLE	2I		
						MD	GN		CLY	2I		
									OXI	2I		
6.43	7.09	0.66	GRD	MG	medium grained, brown, completely oxidized and stained, weakly vuggy granodiorite, likely silicified and has a set of low angle vuggy seams trending 35 TCA that hae small sub-cm open-space pockets. Limonite and grunge-filled pockets are sporadic, and there are two veinlets that contain disseminated pyrite							
						MD	BN		OXI	4I	Li	0.5
									SIL	2I	Py	1
7.09	7.68	0.59	GRD	MG	medium grained, weakly oxidized and propylitic altered granodiorite with oxide staining on fractures extending 2 mm from frx.							
						MD	GY					
						MD	BN		OXI	2I		
7.68	8.75	1.07	GRD	MG	unaltered granodiorite with oxidative staining extending 2-5 mm from frx							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
8.75	13.13	4.38	GRD	MG	moderately argillic altered granodiorite with a weak propylitic overprint. Interval contains stringer zones of carbonate veinlets that trend 70 TCA. There are two small pyrite bearing quartz veinlets, one near the top of interval and the other near the bottom.							
						MD	GY		ARG	2I	Py	0.1
						MD	BN		PRO	2I		
						MD	GN					
13.13	13.80	0.67	GRD	MG	moderately argililc altered granodiorite							
						LT	WH					
						MD	GY		ARG	3I		
13.80	14.50	0.70	GRD	MG	strongly propylitic nd silicified granodiorite with weak bleaching and oxidation. Vuggy thin quartz veinlets contain limonite, as well as two pyrite bearing quartz veinlets.							
						MD	BN		PRO	4I	Py	1
						MD	GN		SIL	2I		
						LT	WH		OXI	2I		
						MD	GY		ARG	1I		
14.50	16.30	1.80	GRD	MG	moderately argillic altered, bleached, and oxide-stained along fractures, granodiorite.							
						MD	BN		OXI	3I		
						LT	WH		BLE	2I		
						MD	GY		ARG	3I		
16.30	18.46	2.16	GRD	MG	heavily fractured, oxidized, silicified granodiorite with weak vuggy textures along frx that trend 30 TCA. Weak brecciated texture at bottom of interval. Poor recovery in this interval. Likely faulted granodiorite							
									BLE	3I		
									SIL	3I		
						MD	BN		OXI	4I	Li	0.5
18.46	19.18	0.72	GRD	MG	unaltered granodiorite							
						MD	GY					
19.18	21.00	1.82	GRD	MG	medium greenish grey, oxidized, weakly argillic and propylitic altered granodiorite with weak oxidative staining along fractures							
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		PRO	2I		
21.00	22.00	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
22.00	22.70	0.70	GRD	MG	oxide stained, weakly propylitic altered grd							
						MD	GY		PRO	3I		
						MD	GN					
22.70	22.93	0.23	GRD	MG	heavily fractured, quartz carbonate vein with no visible sulfide (but heavily oxidized) possibly faulted granodiorite							
						MD	BF					
						MD	BN		CLY	4I		
22.93	23.58	0.65	GRD	MG	weakly argillic altered granodiorite							
						MD	GY		ARG	2I		
						LT	WH					
23.58	24.65	1.07	GRD	MG	unaltered granodiorite							
						MD	GY					
24.65	26.60	1.95	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint							
						MD	GY		ARG	3I		
						LT	WH		PRO	3I		
26.60	28.00	1.40	GRD	MG	unaltered granodiorite							
						MD	GY					
28.00	33.00	5.00	GRD	MG	medium grained, mediu greenish grey weak to moderately argillic altered granodiorite with a weak propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN		PRO	2I		
33.00	36.58	3.58	GRD	MG	realtively unaltreed granodiorite. One small patch of trace propylitic alteration							
						MD	GY					
36.58	42.10	5.52	GRD	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.							
						LT	BN		PRO	2I		
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		OXI	2I		
						LT	WH		BLE	2I		
42.10	43.10	1.00	GRD	MG	strongly propylitic altered and silicified granodiorite, with two small pyrite bearing quartz veinlets							
						MD	GN		PRO	3I	Py	1
						MD	GY		SIL	3I		
43.10	46.44	3.34	GRD	MG	alternating patches of weak to moderate propylitic alteration and weak to moderate argillic alteration, with patchy oxidative staining throughout. Sparse pyrit bearing quartz veinlets up to 5 mm occur throughout interval.							
						MD	GY		ARG	3I		
						LT	WH		PRO	2I	Py	0.5
						MD	BN					
46.44	47.44	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
47.44	50.80	3.36	GRD	MG	weakly bleached, oxidized, moderately argillic altered granodiorite with oxidative staining on frx surfaces and weak carbontae veinlets trending 70 TCA throughout interval.							
						MD	GY		OXI	2I		
						LT	WH		PRO	2I		
						MD	BN		ARG	2I		
									BLE	2I		
50.80	52.50	1.70	GRD	MG	medium grained, weakly propylitic altered granodiorite with 8 small quartz carbonate veinlets containing disseminated pyrite							
						MD	GY		SIL	1I	Py	0.5
						MD	GN		PRO	3I		
52.50	54.27	1.77	GRD	MG	medium to fine-grained, variably silicified and propylitic altered granodiorite with weak 1-3 mm wide quartz carbonate veinlets +- trace pyrite							
						MD	GY		PRO	4I		
						MD	GN		SIL	1I	Py	0.5
54.27	54.90	0.63	GRD	MG	moderately argillic altered granodiorite							
						MD	GN		ARG	3I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.90	56.88	1.98	GRD	MG	moderately propylitic altered greenish grey granodiorite with nine small mm-scale quartz carbonate veinlets hosting trace dissemianted pyrite as well as trace dissem pyrite in groundmass							
						MD	GN		PRO	4I	Py	0.2
						MD	GY		SIL	1I		
56.88	58.00	1.12	GRD	MG	unaltered granodiorite							
						MD	GY					
58.00	59.70	1.70	GRD	MG	moderately argillic altered granodiroite with a weak propylitic overprint.							
						LT	WH		PRO	2I		
						MD	GY		ARG	2I		
						MD	GN		BLE	1I		
59.70	62.27	2.57	GRD	MG	unaltered granodiorite							
						MD	GY					
62.27	62.90	0.63	GRD	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		SIL	1I	Py	0.5
						MD	GY		PRO	2I		
62.90	63.66	0.76	GRD	MG	unaltered granodiorite							
						MD	GY					
63.66	64.55	0.89	GRD	MG	moderately propylitic and weakly silicifed granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
64.55	65.30	0.75	GRD	MG	unaltered grnaodiorite							
						MD	GY					
65.30	66.08	0.78	GRD	MG	medium grained, weak to moderate argillic altered granodiorite with weak propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.08	67.06	0.98	GRD	MG	faulted, strongly gouged and clay altered granodiorite with sharp upper and lower contact trending 30 TCA. Medium brown, heavily oxidized with silicified oxidized clasts of grd within gouge materail							
						MD	GY		CLY	5I		
						MD	BN					
67.06	67.63	0.57	GRD	MG	clay altered, competent breccia; less gouged than previous section but likely the same fault hosts this small unit.							
						MD	GY		BLE	2I		
						MD	BN		CLY	3I		
									OXI	2I		
67.63	68.12	0.49	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint.							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
68.12	69.35	1.23	GRD	MG	unaltered granodiorite, with prominent 30 TCA fracture set (6) that may be proto-fault fractures, with weak carbonate stainif on them							
						MD	GY					
69.35	71.25	1.90	GRD	MG	moderately argillic altered granodiorite with moderate propylitic overprint. Small sections are silicified and dark grey. These sections contain quartz carbonate veinlets that trend 70 TCA and contain trace disseminated pyrite. There are 5 small quartz carbonate veinlets that host trace disseminated pyrite							
						LT	WH		ARG	3I	Py	0.5
						MD	GY		SIL	1I		
						MD	GN		PRO	3I		
71.25	72.85	1.60	GRD	MG	unaltered granodiorite with carbonate on fractures							
						MD	GY					
72.85	74.10	1.25	GRD	MG	moderate to strong propylitic altered granodiorite, with 6 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		SID	1I		
74.10	76.20	2.10	GRD	MG	patchy argillic altered granodiorite with weak carbonate/chlorite/hematite on fractures							
									HEM	1I		
						MD	GN		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		CHL	1I		
76.20	77.50	1.30	GRD	MG	moderate to strong propylitic altered granodiorite, with 4 small pyrite bearing quartz veinlets 2-5 mm wide, trending 80 TCA.							
						MD	GN		SIL	1I		
						MD	GY		PRO	4I		
						DK	GY					
77.50	82.04	4.54	GRD	MG	unaltered granodiorite with weak carbonate alteration along fractures							
						MD	GY					
82.04	82.42	0.38	GRD	MG	weakly argillic altered granodiorite with a weak propylitic overprint							
						LT	WH		PRO	2I		
						MD	GN		ARG	2I		
						MD	GY					
82.42	83.01	0.59	GRD	MG	unaltered granodiorite							
						MD	GY					
83.01	85.18	2.17	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration - trace cabonate veinelts with weak pyrite along their margins							
									PRO	2I		
						MD	GN		ARG	2I		
						MD	GY		SIL	1I	Py	0.1
85.18	85.50	0.32	GRD	MG	unaltered granodiorite							
						MD	GN					
						MD	GY					
85.50	87.00	1.50	GRD	MG	weak to moderate propylitic altered granodiorite, no veinlets or significant other features							
						MD	GY		PRO	3I		
						MD	GN					
87.00	88.39	1.39	GRD	MG	moderately prop altered grd with two small quartz carbonate veinlets with no sulfide							
						MD	GN					
						MD	GY		PRO	3I		
88.39	90.85	2.46	GRD	MG	medium grained weakly propylitic altered granodiorite with 6 hairline carbonate/hematite stained fractures with no sulfide.							
						MD	GN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		HEM	1I		
90.85	97.00	6.15	GRD	MG	weak to moderate propylitic altered granodiorite with weak quartz carbonate hairline stringer veinlets (about 13; of which 4 contain trace pyrite) dispersed throughout trending ~30-50 TCA.							
									PRO	2I		
						MD	GY		SIL	1I		
						MD	GN		ARG	1I	Py	0.1
97.00	98.78	1.78	GRD	MG	moderately argillic and clay altered granodiorite, with a large density of clay fractures, causing granodiorite to appear brecciated in places (due to density of frx).							
						LT	GN					
						MD	GY		PRO	1I		
						MD	GN		ARG	3I		
						LT	GY		CLY	4I		
98.78	99.50	0.72	GRD	MG	moderate to strong propylici altered grd with 4 quartz carbonate veinlets trending 60 TCA that contain disseminated pyrite							
						MD	GN		PRO	3I		
						MD	GY		SIL	2I	Py	0.5
99.50	100.51	1.01	GRD	MG	moderately propylitic altered granodiorite with three hairline quartz carbonate stringers with trace py							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I		
100.51	105.88	5.37	QFP	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke							
						MD	GY		CHL	1I		
						LT	GY					
						LT	GN		PRO	2I		
105.88	106.90	1.02	GRD	MG	faulted, clay altered, brecciated grd with weak trace disseminated pyrite throughout							
						LT	GY					
						MD	GY		PRO	3I	Py	0.1
						LT	GN		CLY	3I		
106.90	107.10	0.20	GRD	MG	sectin of silicified granodiorite with one pyrite bearing quartz vein 3 cm wide, and two pyrite +- sphalerite beraing quartz carbonate veinelts, all trend 80 TCA							
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		SIL	1I	Py	1
						MD	GY		PRO	2I	Sp	0.25
107.10	107.69	0.59	GRD	MG	faulted, clay altreed granodioirte							
						MD	GY					
						MD	GN		CLY	4I		
107.69	111.63	3.94	QFP	MG	medium grey to light greyish green, weakly chloritized and propylitic altered feldspar porphyry dyke							
111.63	112.12	0.49	GRD	MG	medium grey, silicified and propylitic altered granodiorite with dissemianted pyrite throughout interval, with one quartz vein that is 4 cm wide, with pyrite throughout							
									PRO	2I	Py	0.5
						MD	GY		SIL	3I	Py	1
112.12	115.34	3.22	GRD	MG	medium greyish green, moderately silicified and propylitic altered granodiorite, with weak carbonate veinlets devoid of sulfides							
						MD	GY		PRO	3I		
						MD	GN		SIL	3I		
115.34	116.29	0.95	GRD	MG	faulted, clay altered, granodiorite with three 5 mm wide rhodonite veinlets and trace pyrite and honey brown sphalerite along their margins, as well as dissemianted pyrite in gouge and in granodiorite.							
						LT	GN					
						LT	GY		CLY	4I	Py	1
						MD	GY		SIL	2I	Sp	0.5
116.29	116.45	0.16	QFP	MG	light greenish grey qfp dyke							
						LT	GN		PRO	1I		
						LT	GY		CHL	1I		
116.45	116.70	0.25	GRD	MG	heavily fractured, greenish grey, silicified and propylitic altered granodiorite with disseminated pyrite throughout							
									SIL	3I		
						MD	GY		PRO	3I	Py	0.5
116.70	117.17	0.47	VEN	MG	semimassive sulfide vein with banded pyrite, rhodonite, quartz, sphalerite, and patchy arsenopyrite. Upper contact is 60 TCA and lower is 70 TCA							
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		SIL	5I	Py	15
						MD	GY				Sp	5
						MD	BN				As	1
117.17	117.97	0.80	GRD	MG	heavily fractured, propylitic and silicieous granodiorite with disseminated pyrite and weak patchy sphalerite throughout interval							
						MD	GY		SIL	2I	Py	1
						LT	GY		CLY	4I	Sp	1
						LT	GN					
117.97	119.82	1.85	GRD	MG	strongly silicified and propylitic altered granodiorte with patchy disseminated tourmaline, and rare quartz carbonate stringers with weak pyrite							
						MD	GY		SIL	1I	Py	0.1
						MD	GN		PRO	4I		
119.82	128.02	8.20	GRD	MG	weak to moderate propylitic altered and weakly argillic altered, patch greenish grey to grey granodiorite with rare hairline quartz stringers with trace disseminated pyrite							
						MD	GN		ARG	1I		
						MD	GY		PRO	2I	Py	0.1

KL -19-451

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.22	14	0.00	0	--	1H	6W	
1.52	3.05	1.53	1.3	85	0.10	7	--	2H	4W	
3.05	4.57	1.52	1.48	97	0.25	16	--	3H	3W	
4.57	6.10	1.53	1.38	90	1.22	80	--	3H	2W	
6.10	7.62	1.52	1.52	100	1.34	88	--	2H	2W	
7.62	10.67	3.05	3.02	99	2.38	78	--	3H	2W	
10.67	13.71	3.04	3.04	100	2.03	67	--	3H	2W	
13.71	16.76	3.05	2.99	98	2.18	71	--	3H	2W	
16.76	18.29	1.53	1.2	78	0.27	18	--	3H	2W	
18.29	21.34	3.05	3.05	100	2.10	69	--	3H	2W	
21.34	24.38	3.04	3.04	100	2.74	90	--	3H	2W	
24.38	27.43	3.05	3.05	100	2.65	87	--	3H	2W	
27.43	30.48	3.05	3	98	2.84	93	--	4H	2W	
30.48	33.53	3.05	3.05	100	2.40	79	--	3H	2W	
33.53	36.58	3.05	3.02	99	2.96	97	--	3H	2W	
36.58	39.62	3.04	2.98	98	2.54	84	--	3H	2W	
39.62	42.67	3.05	3.05	100	2.76	90	--	3H	2W	
42.67	45.72	3.05	3.05	100	2.82	92	--	3H	2W	
45.72	48.77	3.05	2.89	95	2.53	83	--	3H	2W	
48.77	51.82	3.05	2.95	97	2.07	68	--	3H	1W	
51.82	54.86	3.04	2.97	98	2.65	87	--	3H	1W	
54.86	57.91	3.05	3.05	100	2.85	93	--	4H	1W	
57.91	60.96	3.05	2.93	96	2.32	76	--	4H	1W	
60.96	64.01	3.05	3.02	99	2.08	68	--	4H	1W	
64.01	67.06	3.05	2.97	97	1.01	33	--	3H	1W	
67.06	70.10	3.04	3.04	100	2.21	73	--	3H	1W	
70.10	73.15	3.05	3.05	100	1.48	49	--	3H	1W	
73.15	76.20	3.05	2.95	97	2.22	73	--	4H	1W	
76.20	79.25	3.05	2.92	96	2.33	76	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	82.30	3.05	3.05	100	2.90	95	--	3H	1W	
82.30	85.34	3.04	2.94	97	2.10	69	--	3H	1W	
85.34	88.39	3.05	3.05	100	2.47	81	--	3H	1W	
88.39	91.44	3.05	3.05	100	2.78	91	--	4H	1W	
91.44	94.49	3.05	3.03	99	2.73	90	--	4H	1W	
94.49	97.54	3.05	2.96	97	2.88	94	--	3H	1W	
97.54	100.58	3.04	2.95	97	2.76	91	--	3H	1W	
100.58	103.63	3.05	2.93	96	2.19	72	--	3H	1W	
103.63	106.68	3.05	2.99	98	2.45	80	--	3H	1W	
106.68	109.73	3.05	3.05	100	2.15	70	--	3H	1W	
109.73	112.78	3.05	3.05	100	1.94	64	--	3H	1W	
112.78	115.82	3.04	3.04	100	1.84	61	--	3H	1W	
115.82	118.87	3.05	2.99	98	2.06	68	--	2H	1W	
118.87	121.92	3.05	3.05	100	2.85	93	--	3H	1W	
121.92	124.97	3.05	3.05	100	3.00	98	--	4H	1W	
124.97	128.02	3.05	3.05	100	2.90	95	--	4H	1W	

KL -19-451

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	12.9	GRD	
3	0.218	GRD	
3	0.218	GRD	
4	0.201	GRD	
5	0.921	GRD	
5	0.921	GRD	
6	0.361	GRD	
7	0.715	GRD	
8	0.745	GRD	
9	0.345	GRD	
10	0.56	GRD	
11	0.414	GRD	
12	0.372	GRD	
13	0.689	GRD	
14	0.637	GRD	
15	0.575	GRD	
16	0.283	GRD	
17	0.227	GRD	
18	0.423	GRD	
19	5.93	GRD	
20	0.319	GRD	
21	3.845	GRD	
21	3.845	GRD	
22	7.59	GRD	
22	7.59	GRD	
23	0.509	GRD	
24	0.742	GRD	
25	0.241	GRD	
26	0.344	GRD	
27	0.276	GRD	
28	0.408	GRD	
28	0.408	GRD	
29	0.351	GRD	
30	0.365	GRD	
31	0.351	GRD	
32	0.681	GRD	
33	0.357	GRD	
33	0.357	GRD	
34	1.269	GRD	
35	8.173	GRD	
36	17.39	GRD	
37	0.379	GRD	
38	3.97	GRD	
39	0.496	GRD	
40	0.261	GRD	
41	0.175	GRD	
42	0.416	GRD	
43	0.187	GRD	
44	0.426	GRD	
45	0.347	GRD	
46	0.407	GRD	
47	9.296	GRD	
48	1.732	GRD	
49	0.711	GRD	
50	0.425	GRD	
51	0.95	GRD	
52	0.304	GRD	
53	0.268	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
54	0.237	GRD	
55	0.249	GRD	
56	0.269	GRD	
57	3.145	GRD	
58	6.203	GRD	
58	6.203	GRD	
59	0.426	GRD	
60	15.46	GRD	
61	4.703	GRD	
62	0.969	GRD	
63	11.57	GRD	
64	0.336	GRD	
65	7.682	GRD	
66	0.285	GRD	
67	0.143	GRD	
68	0.746	GRD	
69	7.542	GRD	
70	0.576	GRD	
71	0.467	GRD	
72	16.2	GRD	
73	1.513	GRD	
74	0.62	GRD	
75	6.284	GRD	
76	10.18	GRD	
77	0.553	GRD	
78	26.12	GRD	
79	10.05	GRD	
80	23.08	GRD	
81	20.25	GRD	
82	13.26	GRD	
83	9.31	GRD	
84	0.596	GRD	
85	6.307	GRD	
86	2.373	GRD	
87	9.276	GRD	
87	9.276	GRD	
88	0.969	GRD	
89	27.45	GRD	
90	17.46	GRD	
91	0.488	GRD	
92	1.957	GRD	
93	0.886	GRD	
94	0.379	GRD	
95	0.338	GRD	
96	0.521	GRD	
97	0.361	GRD	
97	0.361	GRD	
98	0.506	GRD	
99	0.678	GRD	
100	0.716	GRD	
101	0.264	QFP	
102	0.245	QFP	
103	0.541	QFP	
104	0.567	QFP	
105	0.272	QFP	
106	0.202	GRD	
107	0.666	GRD	
108	0.233	QFP	
109	0.605	QFP	
110	0.954	QFP	
111	0.247	QFP	
112	0.429	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
113	0.265	GRD	
114	0.255	GRD	
115	0.278	GRD	
116	1.208	GRD	
117	0.414	VEN	
118	0.498	GRD	
119	0.83	GRD	
120	0.364	GRD	
121	0.304	GRD	
122	0.314	GRD	
123	0.293	GRD	
124	0.322	GRD	
125	0.53	GRD	
126	0.239	GRD	
127	6.444	GRD	
128	0.318	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-451

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295265	☐	19-072	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295167	☐	19-070	low grad		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295273	☐	19-072	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295253	☐	19-072	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295236	☐	19-071	lowgrade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295215	☐	19-071	lowgrade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295207	☐	19-071	lowgrade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295194	☐	19-070	low grad	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295173	☐	19-070	low grad	ME-6	☐	☐	☐
3.00	4.00	1.00	GRD, GRD	1.00	100	K295158	☐	19-069	low grade		☐	☐	☐
4.00	5.00	1.00	GRD	1.00	100	K295159	☐	19-069	low grade		☐	☐	☐
5.00	6.43	1.43	GRD, GRD	1.43	100	K295160	☐	19-069	low grade		☐	☐	☐
6.43	7.09	0.66	GRD, GRD	0.65	98	K295161	☐	19-070	low grad		☐	☐	☐
7.09	8.09	1.00	GRD, GRD	1.00	100	K295162	☐	19-070	low grad		☐	☐	☐
8.09	9.53	1.44	GRD	1.43	99	K295163	☐	19-070	low grad		☐	☐	☐
9.53	9.83	0.30	GRD	0.30	100	K295164	☐	19-070	low grad		☐	☐	☐
9.83	10.37	0.54	GRD	0.52	96	K295165	☐	19-070	low grad		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
10.37	11.00	0.63	GRD	0.63	100	K295166	☐	19-070	low grad		☐	☐	☐
11.00	11.73	0.73	GRD	0.73	100	K295168	☐	19-070	low grad		☐	☐	☐
11.73	12.50	0.77	GRD	0.72	94	K295169	☐	19-070	low grad		☐	☐	☐
12.50	13.13	0.63	GRD	0.62	98	K295170	☐	19-070	low grad		☐	☐	☐
13.13	14.50	1.37	GRD, GRD	1.37	100	K295171	☐	19-070	low grad		☐	☐	☐
14.50	16.00	1.50	GRD, GRD	1.50	100	K295172	☐	19-070	low grad		☐	☐	☐
16.00	16.65	0.65	GRD	0.65	100	K295174	☐	19-070	low grad		☐	☐	☐
16.65	17.15	0.50	GRD	0.50	100	K295175	☐	19-070	low grad		☐	☐	☐
17.15	18.00	0.85	GRD	0.60	71	K295176	☐	19-070	low grad		☐	☐	☐
18.00	18.50	0.50	GRD	0.50	100	K295177	☐	19-070	low grad		☐	☐	☐
18.50	20.00	1.50	GRD	1.50	100	K295178	☐	19-070	low grad		☐	☐	☐
20.00	21.00	1.00	GRD	1.00	100	K295179	☐	19-070	low grad		☐	☐	☐
21.00	22.00	1.00	GRD, GRD	1.00	100	K295180	☐	19-070	low grad		☐	☐	☐
22.00	22.70	0.70	GRD, GRD	0.70	100	K295181	☐	19-070	low grad		☐	☐	☐
22.00	22.70	0.70	GRD, GRD	0.70	100	K295182	☐	19-070	low grad		☐	☑	☐
22.70	23.00	0.30	GRD, GRD	0.30	100	K295183	☐	19-070	low grad		☐	☐	☐
23.00	24.00	1.00	GRD	1.00	100	K295184	☐	19-070	low grad		☐	☐	☐
24.00	25.50	1.50	GRD	1.50	100	K295185	☐	19-070	low grad		☐	☐	☐
25.50	27.00	1.50	GRD	1.50	100	K295186	☐	19-070	low grad		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
27.00	28.50	1.50	GRD	1.50	100	K295187	☐	19-070	low grad		☐	☐	☐
27.00	28.50	1.50	GRD	1.50	100	K295188	☐	19-070	low grad		☐	☐	☑
28.50	30.00	1.50	GRD	1.50	100	K295189	☐	19-070	low grad		☐	☐	☐
30.00	30.81	0.81	GRD	0.77	95	K295190	☐	19-070	low grad		☐	☐	☐
30.81	31.70	0.89	GRD	0.89	100	K295191	☐	19-070	low grad		☐	☐	☐
31.70	32.00	0.30	GRD	0.30	100	K295192	☐	19-070	low grad		☐	☐	☐
32.00	33.50	1.50	GRD	1.50	100	K295193	☐	19-070	low grad		☐	☐	☐
33.50	35.00	1.50	GRD	1.50	100	K295195	☐	19-070	low grad		☐	☐	☐
35.00	36.50	1.50	GRD	1.50	100	K295196	☐	19-070	low grad		☐	☐	☐
36.50	37.90	1.40	GRD	1.40	100	K295197	☐	19-070	low grad		☐	☐	☐
37.90	38.90	1.00	GRD	1.00	100	K295198	☐	19-070	low grad		☐	☐	☐
38.90	39.20	0.30	GRD	0.30	100	K295199	☐	19-070	low grad		☐	☐	☐
39.20	40.50	1.30	GRD	1.30	100	K295200	☐	19-070	low grad		☐	☐	☐
40.50	41.85	1.35	GRD	1.35	100	K295201	☐	19-071	lowgrade		☐	☐	☐
41.85	42.85	1.00	GRD	1.00	100	K295202	☐	19-071	lowgrade		☐	☐	☐
42.85	43.15	0.30	GRD	0.30	100	K295203	☐	19-071	lowgrade		☐	☐	☐
43.15	44.15	1.00	GRD	1.00	100	K295204	☐	19-071	lowgrade		☐	☐	☐
44.15	45.30	1.15	GRD	1.15	100	K295205	☐	19-071	lowgrade		☐	☐	☐
45.30	45.60	0.30	GRD	0.30	100	K295206	☐	19-071	lowgrade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
45.60	46.44	0.84	GRD	0.80	95	K295208	☐	19-071	lowgrade		☐	☐	☐
46.44	47.70	1.26	GRD, GRD	1.26	100	K295209	☐	19-071	lowgrade		☐	☐	☐
47.70	48.29	0.59	GRD	0.57	97	K295210	☐	19-071	lowgrade		☐	☐	☐
48.29	49.75	1.46	GRD	1.42	97	K295211	☐	19-071	lowgrade		☐	☐	☐
49.75	50.75	1.00	GRD	1.00	100	K295212	☐	19-071	lowgrade		☐	☐	☐
50.75	51.35	0.60	GRD	0.60	100	K295213	☐	19-071	lowgrade		☐	☐	☐
51.35	52.50	1.15	GRD	1.10	96	K295214	☐	19-071	lowgrade		☐	☐	☐
52.50	54.00	1.50	GRD, GRD	1.50	100	K295216	☐	19-071	lowgrade		☐	☐	☐
54.00	54.95	0.95	GRD	0.95	100	K295217	☐	19-071	lowgrade		☐	☐	☐
54.95	55.77	0.82	GRD	0.80	98	K295218	☐	19-071	lowgrade		☐	☐	☐
55.77	56.68	0.91	GRD	0.90	99	K295219	☐	19-071	lowgrade		☐	☐	☐
56.68	58.00	1.32	GRD	1.17	89	K295220	☐	19-071	lowgrade		☐	☐	☐
58.00	59.50	1.50	GRD, GRD	1.50	100	K295221	☐	19-071	lowgrade		☐	☐	☐
58.00	59.50	1.50	GRD, GRD	1.50	100	K295222	☐	19-071	lowgrade		☐	☑	☐
59.50	60.58	1.08	GRD	1.08	100	K295223	☐	19-071	lowgrade		☐	☐	☐
60.58	61.27	0.69	GRD	0.68	99	K295224	☐	19-071	lowgrade		☐	☐	☐
61.27	62.27	1.00	GRD	1.00	100	K295225	☐	19-071	lowgrade		☐	☐	☐
62.27	62.75	0.48	GRD, GRD	0.48	100	K295226	☐	19-071	lowgrade		☐	☐	☐
62.75	63.75	1.00	GRD	0.95	95	K295227	☐	19-071	lowgrade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
63.75	65.00	1.25	GRD	1.23	98	K295228	☐	19-071	lowgrade		☐	☐	☐
65.00	66.00	1.00	GRD	1.00	100	K295229	☐	19-071	lowgrade		☐	☐	☐
65.00	66.00	1.00	GRD	1.00	100	K295230	☐	19-071	lowgrade		☐	☐	☑
66.00	67.10	1.10	GRD	1.10	100	K295231	☐	19-071	lowgrade		☐	☐	☐
67.10	68.12	1.02	GRD	1.02	100	K295232	☐	19-071	lowgrade		☐	☐	☐
68.12	69.62	1.50	GRD, GRD	1.50	100	K295233	☐	19-071	lowgrade		☐	☐	☐
69.62	70.50	0.88	GRD	0.88	100	K295234	☐	19-071	lowgrade		☐	☐	☐
70.50	71.25	0.75	GRD	0.75	100	K295235	☐	19-071	lowgrade		☐	☐	☐
71.25	72.50	1.25	GRD, GRD	1.25	100	K295237	☐	19-071	lowgrade		☐	☐	☐
72.50	73.50	1.00	GRD	1.00	100	K295238	☐	19-071	lowgrade		☐	☐	☐
73.50	73.95	0.45	GRD	0.45	100	K295239	☐	19-071	lowgrade		☐	☐	☐
73.95	74.70	0.75	GRD	0.75	100	K295240	☐	19-071	lowgrade		☐	☐	☐
74.70	76.20	1.50	GRD	1.50	100	K295241	☐	19-072	low grade		☐	☐	☐
76.20	77.10	0.90	GRD, GRD	0.90	100	K295242	☐	19-072	low grade		☐	☐	☐
77.10	77.40	0.30	GRD	0.30	100	K295243	☐	19-072	low grade		☐	☐	☐
77.40	78.90	1.50	GRD	1.50	100	K295244	☐	19-072	low grade		☐	☐	☐
78.90	80.40	1.50	GRD	1.45	97	K295245	☐	19-072	low grade		☐	☐	☐
80.40	81.90	1.50	GRD	1.50	100	K295246	☐	19-072	low grade		☐	☐	☐
80.40	81.90	1.50	GRD	1.50	100	K295247	☐	19-072	low grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
81.90	83.00	1.10	GRD	1.10	100	K295248	☐	19-072	low grade		☐	☐	☐
83.00	84.48	1.48	GRD	1.45	98	K295249	☐	19-072	low grade		☐	☐	☐
84.48	84.83	0.35	GRD	0.35	100	K295250	☐	19-072	low grade		☐	☐	☐
84.83	86.06	1.23	GRD	1.20	98	K295251	☐	19-072	low grade		☐	☐	☐
86.06	87.20	1.14	GRD	1.08	95	K295252	☐	19-072	low grade		☐	☐	☐
87.20	88.20	1.00	GRD	1.00	100	K295254	☐	19-072	low grade		☐	☐	☐
88.20	89.70	1.50	GRD	1.50	100	K295255	☐	19-072	low grade		☐	☐	☐
89.70	91.20	1.50	GRD	1.50	100	K295256	☐	19-072	low grade		☐	☐	☐
91.20	92.70	1.50	GRD	1.50	100	K295257	☐	19-072	low grade		☐	☐	☐
92.70	94.00	1.30	GRD	1.30	100	K295258	☐	19-072	low grade		☐	☐	☐
94.00	94.80	0.80	GRD	0.80	100	K295259	☐	19-072	low grade		☐	☐	☐
94.00	94.80	0.80	GRD	0.80	100	K295260	☐	19-072	low grade		☐	☐	☑
94.80	96.20	1.40	GRD	1.37	98	K295261	☐	19-072	low grade		☐	☐	☐
96.20	97.20	1.00	GRD	1.00	100	K295262	☐	19-072	low grade		☐	☐	☐
97.20	98.33	1.13	GRD	1.13	100	K295263	☐	19-072	low grade		☐	☐	☐
98.33	99.40	1.07	GRD	1.05	98	K295264	☐	19-072	low grade		☐	☐	☐
99.40	100.70	1.30	GRD	1.30	100	K295266	☐	19-072	low grade		☐	☐	☐
100.70	102.20	1.50	QFP	1.50	100	K295267	☐	19-072	low grade		☐	☐	☐
102.20	103.70	1.50	QFP	1.50	100	K295268	☐	19-072	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
103.70	105.20	1.50	QFP	1.50	100	K295269	☐	19-072	low grade		☐	☐	☐
105.20	105.86	0.66	QFP	0.66	100	K295270	☐	19-072	low grade		☐	☐	☐
105.86	106.93	1.07	QFP	1.06	99	K295271	☐	19-072	low grade		☐	☐	☐
106.93	107.69	0.76	GRD	0.76	100	K295272	☐	19-072	low grade		☐	☐	☐
107.69	108.84	1.15	QFP, GRD	1.13	98	K295274	☐	19-072	low grade		☐	☐	☐
108.84	110.34	1.50	QFP	1.50	100	K295275	☐	19-072	low grade		☐	☐	☐
110.34	111.63	1.29	QFP	1.29	100	K295276	☐	19-072	low grade		☐	☐	☐
111.63	112.16	0.53	QFP, GRD	0.53	100	K295277	☐	19-072	low grade		☐	☐	☐
112.16	113.58	1.42	GRD	1.42	100	K295278	☐	19-072	low grade		☐	☐	☐
113.58	114.70	1.12	GRD	1.10	98	K295279	☐	19-072	low grade		☐	☐	☐
114.70	115.28	0.58	GRD	0.55	95	K295280	☐	19-072	low grade		☐	☐	☐
115.28	116.47	1.19	GRD	1.19	100	W599216	☐	19-049	high grade		☐	☐	☐
116.47	117.19	0.72	GRD	0.70	97	W599217	☐	19-049	high grade		☐	☐	☐
117.19	118.00	0.81	GRD	0.80	99	W599218	☐	19-049	high grade		☐	☐	☐
118.00	118.61	0.61	GRD	0.61	100	K295281	☐	19-075	low grade		☐	☐	☐
118.61	119.80	1.19	GRD	1.19	100	K295282	☐	19-075	low grade		☐	☐	☐
119.80	121.30	1.50	GRD	1.50	100	K295283	☐	19-075	low grade		☐	☐	☐
121.30	122.74	1.44	GRD	1.44	100	K295284	☐	19-075	low grade		☐	☐	☐
122.74	124.24	1.50	GRD	1.50	100	K295285	☐	19-075	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
122.74	124.24	1.50	GRD	1.50	100	K295286	☐	19-075	low grade		☐	☐	☑
124.24	125.57	1.33	GRD	1.25	94	K295287	☐	19-075	low grade		☐	☐	☐
125.57	126.52	0.95	GRD	0.95	100	K295288	☐	19-075	low grade		☐	☐	☐
126.52	128.02	1.50	GRD	1.50	100	K295289	☐	19-075	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-071	K295207	0.00	0.00	0.00	40	☐	☐	☑	☐	BLANK
19-071	K295215	0.00	0.00	1.73	180	☐	☐	☐	☑ KL-STD6	KL-6
19-071	K295236	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	ME-6
19-072	K295253	0.00	0.00	1.69	160	☐	☐	☐	☑ KL-STD6	STD KL-6
19-072	K295265	0.00	0.00	0.30	600	☐	☐	☐	☑ ME-6	
19-072	K295273	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-070	K295167	0.00	0.00	0.00	50	☐	☐	☑	☐	BLANK
19-070	K295173	0.00	0.00	0.30	610	☐	☐	☐	☑ ME-6	ME-6 STD
19-070	K295194	0.00	0.00	0.27	670	☐	☐	☐	☑ ME-6	ME-6
19-069	K295158	3.00	4.00	0.02	2520	☐	☐	☐	☐	
19-069	K295159	4.00	5.00	0.02	1780	☐	☐	☐	☐	
19-069	K295160	5.00	6.43	0.01	2190	☐	☐	☐	☐	
19-070	K295161	6.43	7.09	0.83	470	☐	☐	☐	☐	
19-070	K295162	7.09	8.09	0.06	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-070	K295163	8.09	9.53	0.08	2440	☐	☐	☐	☐	
19-070	K295164	9.53	9.83	0.58	1110	☐	☐	☐	☐	
19-070	K295165	9.83	10.37	0.01	1890	☐	☐	☐	☐	
19-070	K295166	10.37	11.00	0.14	1390	☐	☐	☐	☐	
19-070	K295168	11.00	11.73	0.21	890	☐	☐	☐	☐	
19-070	K295169	11.73	12.50	0.11	1200	☐	☐	☐	☐	
19-070	K295170	12.50	13.13	0.03	1900	☐	☐	☐	☐	
19-070	K295171	13.13	14.50	0.06	2790	☐	☐	☐	☐	
19-070	K295172	14.50	16.00	0.11	2440	☐	☐	☐	☐	
19-070	K295174	16.00	16.65	0.42	2250	☐	☐	☐	☐	
19-070	K295175	16.65	17.15	0.18	1950	☐	☐	☐	☐	
19-070	K295176	17.15	18.00	0.95	160	☐	☐	☐	☐	
19-070	K295177	18.00	18.50	0.07	2090	☐	☐	☐	☐	
19-070	K295178	18.50	20.00	0.01	2410	☐	☐	☐	☐	
19-070	K295179	20.00	21.00	0.02	2220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-070	K295180	21.00	22.00	0.01	2580	☐	☐	☐	☐	
19-070	K295181	22.00	22.70	0.02	2150	☐	☐	☐	☐	
19-070	K295182	22.00	22.70	0.02	2940	☑	☐	☐	☐	1/4 dup
19-070	K295183	22.70	23.00	0.03	1380	☐	☐	☐	☐	
19-070	K295184	23.00	24.00	0.02	2690	☐	☐	☐	☐	
19-070	K295185	24.00	25.50	0.08	2260	☐	☐	☐	☐	
19-070	K295186	25.50	27.00	0.04	2460	☐	☐	☐	☐	
19-070	K295187	27.00	28.50	0.01	2480	☐	☐	☐	☐	
19-070	K295188	27.00	28.50	0.01	2420	☐	☑	☐	☐	COARSE DUP
19-070	K295189	28.50	30.00	0.01	2160	☐	☐	☐	☐	
19-070	K295190	30.00	30.81	0.02	1860	☐	☐	☐	☐	
19-070	K295191	30.81	31.70	0.01	1630	☐	☐	☐	☐	
19-070	K295192	31.70	32.00	0.01	2800	☐	☐	☐	☐	
19-070	K295193	32.00	33.50	0.02	2050	☐	☐	☐	☐	
19-070	K295195	33.50	35.00	0.01	2470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-070	K295196	35.00	36.50	0.00	2480	☐	☐	☐	☐	
19-070	K295197	36.50	37.90	0.04	2240	☐	☐	☐	☐	
19-070	K295198	37.90	38.90	0.02	2960	☐	☐	☐	☐	
19-070	K295199	38.90	39.20	0.04	1300	☐	☐	☐	☐	
19-070	K295200	39.20	40.50	0.02	1710	☐	☐	☐	☐	
19-071	K295201	40.50	41.85	0.01	2250	☐	☐	☐	☐	
19-071	K295202	41.85	42.85	0.02	2090	☐	☐	☐	☐	
19-071	K295203	42.85	43.15	0.26	580	☐	☐	☐	☐	
19-071	K295204	43.15	44.15	0.01	2060	☐	☐	☐	☐	
19-071	K295205	44.15	45.30	0.01	2130	☐	☐	☐	☐	
19-071	K295206	45.30	45.60	0.03	1690	☐	☐	☐	☐	
19-071	K295208	45.60	46.44	0.01	2290	☐	☐	☐	☐	
19-071	K295209	46.44	47.70	0.00	2350	☐	☐	☐	☐	
19-071	K295210	47.70	48.29	0.00	2090	☐	☐	☐	☐	
19-071	K295211	48.29	49.75	0.01	2710	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-071	K295212	49.75	50.75	0.03	1730	☐	☐	☐	☐	
19-071	K295213	50.75	51.35	0.08	270	☐	☐	☐	☐	
19-071	K295214	51.35	52.50	0.03	2050	☐	☐	☐	☐	
19-071	K295216	52.50	54.00	0.02	1600	☐	☐	☐	☐	
19-071	K295217	54.00	54.95	0.02	2150	☐	☐	☐	☐	
19-071	K295218	54.95	55.77	0.02	1430	☐	☐	☐	☐	
19-071	K295219	55.77	56.68	0.11	1380	☐	☐	☐	☐	
19-071	K295220	56.68	58.00	0.01	2150	☐	☐	☐	☐	
19-071	K295221	58.00	59.50	0.01	1720	☐	☐	☐	☐	
19-071	K295222	58.00	59.50	0.02	1940	☑	☐	☐	☐	1/4 dup
19-071	K295223	59.50	60.58	0.00	2250	☐	☐	☐	☐	
19-071	K295224	60.58	61.27	0.03	2220	☐	☐	☐	☐	
19-071	K295225	61.27	62.27	0.00	2100	☐	☐	☐	☐	
19-071	K295226	62.27	62.75	0.16	910	☐	☐	☐	☐	
19-071	K295227	62.75	63.75	0.00	2270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-071	K295228	63.75	65.00	0.02	2250	☐	☐	☐	☐	
19-071	K295229	65.00	66.00	0.01	1860	☐	☐	☐	☐	
19-071	K295230	65.00	66.00	0.01	1860	☐	☑	☐	☐	COARSE DUP
19-071	K295231	66.00	67.10	0.01	1590	☐	☐	☐	☐	
19-071	K295232	67.10	68.12	0.10	1810	☐	☐	☐	☐	
19-071	K295233	68.12	69.62	0.01	2350	☐	☐	☐	☐	
19-071	K295234	69.62	70.50	0.08	2850	☐	☐	☐	☐	
19-071	K295235	70.50	71.25	0.20	1490	☐	☐	☐	☐	
19-071	K295237	71.25	72.50	0.01	2340	☐	☐	☐	☐	
19-071	K295238	72.50	73.50	0.20	2270	☐	☐	☐	☐	
19-071	K295239	73.50	73.95	0.12	350	☐	☐	☐	☐	
19-071	K295240	73.95	74.70	0.01	2200	☐	☐	☐	☐	
19-072	K295241	74.70	76.20	0.08	2360	☐	☐	☐	☐	
19-072	K295242	76.20	77.10	0.01	1690	☐	☐	☐	☐	
19-072	K295243	77.10	77.40	0.51	200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-072	K295244	77.40	78.90	0.01	2290	☐	☐	☐	☐	
19-072	K295245	78.90	80.40	0.01	1860	☐	☐	☐	☐	
19-072	K295246	80.40	81.90	0.01	2250	☐	☐	☐	☐	
19-072	K295247	80.40	81.90	0.01	2190	☑	☐	☐	☐	1/4 dup
19-072	K295248	81.90	83.00	0.01	2080	☐	☐	☐	☐	
19-072	K295249	83.00	84.48	0.02	1920	☐	☐	☐	☐	
19-072	K295250	84.48	84.83	0.10	650	☐	☐	☐	☐	
19-072	K295251	84.83	86.06	0.10	1980	☐	☐	☐	☐	
19-072	K295252	86.06	87.20	0.01	2240	☐	☐	☐	☐	
19-072	K295254	87.20	88.20	0.16	2230	☐	☐	☐	☐	
19-072	K295255	88.20	89.70	0.02	2450	☐	☐	☐	☐	
19-072	K295256	89.70	91.20	0.01	2420	☐	☐	☐	☐	
19-072	K295257	91.20	92.70	0.03	1790	☐	☐	☐	☐	
19-072	K295258	92.70	94.00	0.01	2280	☐	☐	☐	☐	
19-072	K295259	94.00	94.80	0.03	1640	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-072	K295260	94.00	94.80	0.03	1560	☐	☑	☐	☐	coarse dup
19-072	K295261	94.80	96.20	0.02	1680	☐	☐	☐	☐	
19-072	K295262	96.20	97.20	1.98	1370	☐	☐	☐	☐	
19-072	K295263	97.20	98.33	0.02	1400	☐	☐	☐	☐	
19-072	K295264	98.33	99.40	0.10	890	☐	☐	☐	☐	
19-072	K295266	99.40	100.70	0.35	1070	☐	☐	☐	☐	
19-072	K295267	100.70	102.20	0.09	1220	☐	☐	☐	☐	
19-072	K295268	102.20	103.70	0.07	890	☐	☐	☐	☐	
19-072	K295269	103.70	105.20	0.12	1480	☐	☐	☐	☐	
19-072	K295270	105.20	105.86	1.19	910	☐	☐	☐	☐	
19-072	K295271	105.86	106.93	0.58	440	☐	☐	☐	☐	
19-072	K295272	106.93	107.69	0.21	190	☐	☐	☐	☐	
19-072	K295274	107.69	108.84	0.01	1290	☐	☐	☐	☐	
19-072	K295275	108.84	110.34	0.00	2580	☐	☐	☐	☐	
19-072	K295276	110.34	111.63	0.02	2330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-072	K295277	111.63	112.16	0.98	310	☐	☐	☐	☐	
19-072	K295278	112.16	113.58	0.02	1640	☐	☐	☐	☐	
19-072	K295279	113.58	114.70	0.01	1600	☐	☐	☐	☐	
19-072	K295280	114.70	115.28	0.21	620	☐	☐	☐	☐	
19-049	W599216	115.28	116.47	0.81	380	☐	☐	☐	☐	HIGH GRADE
19-049	W599217	116.47	117.19	9.60	70	☐	☐	☐	☐	HIGH GRADE
19-049	W599218	117.19	118.00	1.78	440	☐	☐	☐	☐	HIGH GRADE
19-075	K295281	118.00	118.61	0.12	800	☐	☐	☐	☐	
19-075	K295282	118.61	119.80	0.01	2240	☐	☐	☐	☐	
19-075	K295283	119.80	121.30	0.01	2900	☐	☐	☐	☐	
19-075	K295284	121.30	122.74	0.02	3890	☐	☐	☐	☐	
19-075	K295285	122.74	124.24	0.01	2690	☐	☐	☐	☐	
19-075	K295286	122.74	124.24	0.01	2650	☐	☑	☐	☐	coarse redj dup
19-075	K295287	124.24	125.57	0.02	2630	☐	☐	☐	☐	
19-075	K295288	125.57	126.52	0.01	2830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-075	K295289	126.52	128.02	0.01	2390	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.00	6.10	ST		65	NUL	9	nine small carbonate veinlets that are barren of sulphides			
6.43	7.09	ST		55	NUL	8	set of eight vuggy 2-5 mm fractures, trending between 20-60 TCA. Two high angle TCA pryite bearing quatz veinlets in this interval (trneding 80 TCA).			
								Py	1	DI
9.53	9.83	ST		65	NUL	2	small quartz carbonate veinlet with trace pyrite along margin			
								Py	1	DI
10.45	11.10	ST		50	NUL	6	set of 6 hairline carbonate veinlets with very trace pyrite			
								Py	0.1	DI
12.85	13.15	ST		50	NUL	2	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.5	DI
13.80	14.10	ST		60	NUL	3	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.5	DI
16.30	17.00	ST		30	NUL	4	four cuggy hairline frx within brecciated oxidized granodiorite			
17.80	17.90	ST		80	NUL	2	two small pyrite bearing quartz veinlets			
								Py	0.5	DI
22.70	22.93	FT	42	70	NUL	1	potential fault, gouged section of granodiorite			
25.40	25.55	ST		70	NUL	3	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.1	DI
31.03	31.05	VT	37	65	NUL	1	small quartz carbonate vein no sulfide			
35.50	35.70	ST		55	NUL	3	small quartz carbonate veinlet with no sulfide			
37.08	37.20	ST		80	NUL	2	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.5	DI
40.34	40.42	FT	42	50	NUL	1	fualted section in propylitic altered granodiorite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
42.20	42.55	ST		75	NUL	3	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.2	DI
43.03	43.07	VT	37	60	NUL	1	small quartz veinlet with disseminated blebby pyrite			
								Py	2	BN
45.49	45.50	VT	37	40	NUL	1	small quartz carbonate veinlet with trace pyrite along margin			
								Py	1	BN
48.50	48.70	ST		70	NUL	2	small quartz carbonate veinlet with no sulfide			
50.85	51.20	ST		70	NUL	5	small quartz carbonate veinlet with trace pyrite along margin			
51.95	52.25	ST		65	NUL	6	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.5	DI
54.95	55.00	VN	37	60	NUL	1	small pyrite bearing quartz veinlet			
								Py	1.5	BN
55.20	56.68	ST		65	NUL	7	seven hairline quartz carbonate stringer veinlets up to 5 mm in size, with very trace pyrite			
								Py	0.1	DI
62.60	62.64	VN	37	80	NUL	1	small quartz vein with banded dissmeinated pyrite along its margin.			
								Py	1.5	BN
63.80	64.00	ST		80	NUL	2	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.2	DI
66.08	67.06	FT	42	30	NUL	1	gouged fault in granodiorite			
68.50	69.00	FR	5	30	NUL	5	five prominent fractures in unaltered granodiorite - possibly faulted?			
69.90	69.92	VT	37	70	NUL	1	asmall quartz carbonate veinlet with trace pyrite along margin			
71.50	71.07	VT	37	70	NUL	1	small quartz carbonate veinlet with trace pyrite along margin			
								Py	0.5	DI
73.20	74.00	ST		80	NUL	6	six hairline quartz stringers with trace pyrite			
								Py	0.1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
77.25	77.29	VN	37	70	NUL	1	quartz veinlet with disseminated patchy pyrite banded throughout			
								Py	2	BN
80.40	80.60	ST		65	NUL	3	small quartz carbontae veinlets, no sulfide			
84.20	84.80	ST		50	NUL	2	two small quartz carbonate veinlets with trace disseminated pyrite			
								Py	0.5	DI
89.00	93.00	ST		65	NUL	17	mm-scale carbonate stringers cutting unaltered to weakly propylitic altered granodiorite. Veinlets are almost all unmineralized, except one pyrite stringer found at 91.50m. TCA measurements vary, but overall found at 65TCA.			
								Py	0.1	DI
94.15	94.71	VT	37	55	NUL	2	Net textured carbonate veinlet cutting propylitic altered granodiorite. Minor disseminated blebs of pyrite found within.			
								Py	1	BL
96.35	96.36	VT	37	70	NUL	1	Carbonate veinlet with disseminated pyrite found within phyllic to propylitic altered granodiorite.			
								Py	2	DI
97.00	97.12	FT	42	55	NUL	1	smokey grey mineralized gouge zone with intermixed quartz veining. Disseminated pyrite throughout.			
								Py	6	DI
98.45	98.78	VB	37	-	NUL	1	gouged and faulted vein breccia zone found within strongly argillic altered granodiorite (argillic alteration consists of very decomposed blue/grey clays). Hosts disseminated to blebby pyrite.			
								Py	5	BL
99.00	99.38	VT	37	70	NUL	2	Two quartz carbonate veinlet zones (multiple sets of veinlets clumped into two separate groups, averaging 8-10 cm wide each). Veinlet zones have interstitial quartz. Hosted in argillic to phyllic altered granodiorite. Argillic alteration has altered to blue clays. Veinlet zones host disseminated to finely blebby pyrite and possibly fine grained black disseminated sphalerite.			
								Py	5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	3	DI
100.55	100.83	FT	42	70	NUL	1	clay gouged and faulted zone of light grey/green quartz feldspar porphyry dyke. Found at the contact between GRD and QFP.			
106.94	107.08	VN	37	60	NUL	1	10cm quartz vein found within a strongly fractured and gouged area of phyllic altered granodiorite Vein is comprised dominantly of milky quartz, with a mm-scale band of ankerite along the lowerw selvedge. Vein hosts blebby pyrite throughout, with minor disseminated galena and sphalerite found along the ankerite veining.			
								Py	20	BL
								Sp	3	DI
								Gn	1	DI
111.90	112.13	VB	37	75	NUL	1	Quartz-smokey quartz-white carbonate banded vein breccia zone hosted with phyllic altered granodiorite found along the footwall contact of light green/grey quartz feldspar porphyry dyke. Upper 5cm of vein zone consist of smokey breccia with fragments and clasts of quartz, carboante and disseminated pyrite throughout. Breccia transitions into well developed bands of quartz and carbonate (soft white colour) that has a net texture of carbonate stringers eminating into quartz. Vein hosts disseminated and banded pyrite, arsenopyrite,			
								Py	3	DI
								As	2	DI
								Py	5	BN
115.34	115.70	VN	37	70	NUL	5	Multiple quartz and quartz-carbonate veins found between heavily altered granodiorite (hanging wall) and clay gouged fault zone (footwall). Small fingers of QFP dyke are present along edges of this zone. Quartz veinlets up to 1cm cut granodiorite at 70TCA, and carry base metal mineralization (banded sphalerite, galena, pyrite). Banded quartz-carbonate veins up to 4cm are also present, which have a more varied suphide suite, hosting minor disseminated pyrite, arsenopyrite.			
								Py	5	DI
								Gn	2	BN

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	4	BN
								As	2	DI
115.70	116.00	FT	42	65	NUL	1	soft clay gouged fault zone found within area of strongly phyllic and sericite altered, mineralized, granodiorite. Fault gouge hosts disseminated pyrite, but is surrounded by polymetallic veining.			
								Py	5	DI
116.47	117.17	VN	37	70	NUL	1	semimassive pyrite, sphalerite +- galena +- arsenopyrite vein, with banded and dissemianted pyrite throughout interval, banded to semimassive sphalerite, and patchy arsenpyrite and galena. Phyllic altered granodiorite beneath and small 10 cm wide qfp dyke above.			
								As	1	DI
								Gn	1	DI
								Py	10	DI
								Sp	10	BN
117.17	118.00	GO	34	70	NUL	1	mineralized fault gouge with dissemiated pyrite, and trace sphalerite			
								Sp	0.5	DI
								Py	1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382790	6889087	1448.485	192.02

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-452

CLAIM: YC37991

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 19 - Sep 21, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
12	34.96	-51.1	Reflex
192	37.96	-51.2	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	3	1.48	OVB
3	5.8	2.8	GRD
5.8	7.4	1.6	QFP
7.4	12.3	4.9	QFP
12.3	22.4	10.1	QFP
22.4	24.21	1.81	GRD
24.21	24.84	0.63	GRD
24.84	25.9	1.06	QFP
25.9	29.4	3.5	QFP
29.4	30	0.6	QFP
30	31.87	1.87	QFP
31.87	32.15	0.28	GRD
32.15	32.36	0.21	VEN
32.36	33.11	0.75	GRD
33.11	33.25	0.14	GRD

SAMPLES	
Numbers:	K295290 to K295471, W599219 to W599224
Total:	188
Batch:	049, 075, 076, 078, 079, 081
Certificates:	WH19251793, WH19251796, WH19251813, WH19251819, WH19251833, WH19255796

COMMENTS

33.25	33.9	0.65	GRD
33.9	34.07	0.17	GRD
34.07	35.75	1.68	GRD
35.75	37.15	1.4	GRD
37.15	38.55	1.4	GRD
38.55	38.85	0.3	FLT
38.85	45.75	6.9	QFP
45.75	46.05	0.3	GRD
46.05	47.8	1.75	GRD
47.8	49	1.2	GRD
49	49.29	0.29	GRD
49.29	49.75	0.46	QFP
49.75	51.2	1.45	GRD
51.2	53.2	2	QFP
53.2	53.9	0.7	GRD
53.9	55.46	1.56	QFP
55.46	57.2	1.74	GRD
57.2	58.45	1.25	QFP
58.45	61	2.55	GRD
61	61.75	0.75	QFP
61.75	65.53	3.78	QFP
65.53	65.75	0.22	QFP
65.75	71.3	5.55	QFP
71.3	74.5	3.2	GRD
74.5	74.86	0.36	GRD
74.86	78.15	3.29	GRD
78.15	79.5	1.35	GRD
79.5	81.26	1.76	GRD
81.26	84.15	2.89	QFP
84.15	86.25	2.1	GRD
86.25	86.46	0.21	VEN
86.46	88.5	2.04	GRD

88.5	93.9	5.4	GRD
93.9	96.6	2.7	GRD
96.6	97.75	1.15	GRD
97.75	98.17	0.42	VEN
98.17	100	1.83	GRD
100	100.34	0.34	VEN
100.34	100.9	0.56	GRD
100.9	105	4.1	GRD
105	105.6	0.6	GRD
105.6	108.9	3.3	GRD
108.9	109.5	0.6	GRD
109.5	112.05	2.55	GRD
112.05	112.5	0.45	GRD
112.5	115.97	3.47	GRD
115.97	118	2.03	GRD
118	119	1	GRD
119	123.75	4.75	GRD
123.75	124	0.25	GRD
124	125.3	1.3	GRD
125.3	125.55	0.25	GRD
125.55	126.65	1.1	GRD
126.65	130.61	3.96	GRD
130.61	136	5.39	GRD
136	139.35	3.35	GRD
139.35	139.5	0.15	VEN
139.5	141.1	1.6	GRD
141.1	141.83	0.73	GRD
141.83	143.48	1.65	GRD
143.48	143.78	0.3	GRD
143.78	146.5	2.72	GRD
146.5	147.83	1.33	GRD
147.83	148.2	0.37	GRD

148.2	150.88	2.68	GRD
150.88	152.27	1.39	GRD
152.27	153.1	0.83	GRD
153.1	154.9	1.8	GRD
154.9	156.09	1.19	GRD
156.09	157.5	1.41	GRD
157.5	157.6	0.1	GRD
157.6	159.05	1.45	GRD
159.05	159.22	0.17	GRD
159.22	160.78	1.56	GRD
160.78	160.95	0.17	QFP
160.95	161.14	0.19	BXA
161.14	161.93	0.79	QFP
161.93	162.29	0.36	BXA
162.29	163.13	0.84	QFP
163.13	164.6	1.47	GRD
164.6	165.9	1.3	GRD
165.9	170	4.1	GRD
170	171.42	1.42	GRD
171.42	172	0.58	GRD
172	174	2	GRD
174	175.9	1.9	GRD
175.9	176.68	0.78	GRD
176.68	177.2	0.52	GRD
177.2	178.7	1.5	GRD
178.7	179.6	0.9	GRD
179.6	180.43	0.83	GRD
180.43	182.1	1.67	GRD
182.1	182.38	0.28	GRD
182.38	185.22	2.84	QFP
185.22	189.83	4.61	GRD
189.83	192.02	2.19	GRD

Box Log

KL -19-452

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1	5.12
2	5.12	8.83
3	8.83	12.62
4	12.62	16.68
5	16.68	20.83
6	20.83	24.84
7	24.84	28.76
8	28.76	32.53
9	32.53	36.83
10	36.83	40.81
11	40.81	45.16
12	45.16	49.34
13	49.34	53.71
14	53.71	57.89
15	57.89	62.05
16	62.05	66.22
17	66.22	70.53
18	70.53	74.86
19	74.86	79.18
20	79.18	83.57
21	83.57	88.01
22	88.01	92.47
23	92.47	96.6
24	96.6	100.75
25	100.75	104.96
26	104.96	109.5
27	109.5	113.82
28	113.82	117.9
29	117.9	121.96
30	121.96	126.22
31	126.22	130.61
32	130.61	134.95
33	134.95	139.31
34	139.31	143.48
35	143.48	147.83
36	147.83	152.27
37	152.27	156.53
38	156.53	160.86
39	160.86	165.15
40	165.15	169.25
41	169.25	173.18
42	173.18	177.11
43	177.11	181.07
44	181.07	185.14
45	185.14	189.81
46	189.81	192.02

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-452									
	69.09	13	NTW	QFP	691.7	448.8	1.88	2.9	
	131.65	13	NTW	GRD	663.4	425	1.8	2.8	
	141.73	11	NTW	GRD	711.1	455	2.29	2.8	
	141.84	13	NTW	GRD	784.3	486.7	2.13	2.6	
	184.13	10	NTW	QFP	680.8	441.8	2.41	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	3.00	1.48	OVB	--	heavily fractured and rubbly mmixture of overburder (30%) and granodiorite (70%) fragments are 3-5 cm all the way to gravel/clay.							
						MD	BN					
3.00	5.80	2.80	GRD	MG	clay gouged, faulted, granodiorite. Light brown, with small dragments of fractured light brown granodiorite within clay gouge.							
						LT	BF		CLY	5I		
						LT	GY					
						LT	BN					
5.80	7.40	1.60	QFP	MG	Faulted, heavily fractured and clay altered light grey to light brown quartz feldspar porphyry dyke							
						LT	BN		CLY	4I		
						LT	GY					
7.40	12.30	4.90	QFP	MG	fualted, semi-competent (pieces up to 15 cm), yet still heavily fractured and clay altered QFP dyke, medium brown, with large density of fractures.							
						MD	BN		CLY	2I		
12.30	22.40	10.10	QFP	MG	relatively competent, light to medium brown to brownish grey, feldspar porphyry dyke with weak clay alteration of feldspar grains.							
						MD	GY		CLY	2I		
						MD	BN					
						LT	BF					
						LT	BN					
22.40	24.21	1.81	GRD	MG	faulted, fractured, rubbly, gouged granodiorite. Light brown to medium greyish brown, with strong clay alteration and oxidative staining along fractures							
						MD	BF					
						MD	BN					
						LT	GY					
24.21	24.84	0.63	GRD	MG	siliceous, weakly mineralized granodiorite with trace disseminated pyrite throughout							
						MD	GY		SIL	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
24.84	25.90	1.06	QFP	MG	heavily fractured QFP dyke, weakly silicified, with trace pyrite in groundmass							
						MD	BN					
						MD	GY		CLY	2I		
25.90	29.40	3.50	QFP	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout							
						MD	BN		SIL	1I		
						MD	GY					
29.40	30.00	0.60	QFP	MG	faulted QFP dyke with intense clay alteration and weak brecciation. Fault contact trends 25 TCA							
						LT	BN		CLY	4I		
30.00	31.87	1.87	QFP	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout							
31.87	32.15	0.28	GRD	MG	faulted, clay altered granodiorite with disseminated pyrite in groundmass							
						MD	GY		CLY	3I	Py	1.5
						LT	BN					
						DK	GY					
32.15	32.36	0.21	VEN	MG	30 TCA upper contact, 50 TCA lower contact, clay altered vein material with disseminated patchy banded galena, weak sphalerite, and disseminated patchy pyrite							
						MD	GY		CLY	3I	Gn	5
						DK	GY		SIL	2I	Sp	1
						DK	BN				Py	2
32.36	33.11	0.75	GRD	MG	medium brown, oxidized, and patchily silicified granodiorite with two small pyrite bearing quartz veinlets 80 TCA.							
						MD	BN		SIL	1I		
						MD	GY		CLY	2I	Py	0.1
33.11	33.25	0.14	GRD	MG	faulted, rubbly granodiorite trending 70 TCA							
						MD	BN		CLY	4I		
33.25	33.90	0.65	GRD	MG	medium brownish grey with patchy silicification, oxidation and bleaching, granodiorite.							
						MD	GY		CLY	3I		
						MD	BN		BLE	1I		
									SIL	2I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
33.90	34.07	0.17	GRD	MG	gouged, clay altered granodiorite 80 TCA upper and lower contact							
						MD	BN		CLY	5I		
34.07	35.75	1.68	GRD	MG	medium grained, bleached and oxidized granodiorite with weak quartz veinlets that contain trace pyrite.							
						MD	BN		CLY	1I		
						MD	BF		OXI	2I		
						LT	GY		BLE	2I		
35.75	37.15	1.40	GRD	MG	medium grained, moderate to strong argillic altered granodiorite with a weak propylitic overprint. One pyrite bearing quartz veinlet within interval							
						MD	GY		ARG	3I	Py	0.1
						MD	GN		SIL	1I		
									PRO	2I		
37.15	38.55	1.40	GRD	MG	faulted, fractured, heavily oxidized and clay altered, weakly propylitic altered granodiorite; likely related to faulting.							
						MD	BN		PRO	1I		
						LT	GY		ARG	1I	Py	0.1
									CLY	2I		
38.55	38.85	0.30	FLT	FG	gouged, faulted contact between granodiorite and siliceous QFP dyke							
						LT	BN		CLY	5I		
						LT	GY					
38.85	45.75	6.90	QFP	MG	light grey to reeeish grey, densely fractured (all fractures in interval trend ~70 TCA, competent feldspar porphyry dyke with pervaiseve reddish alteration - this is likely related to the density of fractures and surface leaching.							
45.75	46.05	0.30	GRD	MG	fault gouged contact between QFP dyke (above) and grd (below) trends 80 TCA							
						LT	GN		CLY	4I		
						LT	GY					
						LT	BN					
46.05	47.80	1.75	GRD	MG	moderately argillic altered granodiorite with weak propylitic overprint.							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
47.80	49.00	1.20	GRD	MG	moderate to strong propylitic altered granodiorite with set of seven quartz veinlets up to 7 mm with trace pyrite along their margins.							
						MD	GN		SIL	1I	Py	1
						MD	GY		PRO	3I		
49.00	49.29	0.29	GRD	MG	phyllic and propylitic, clay altered brecciated granodiorite; likely faulted							
						MD	GN		PHC	2I		
						MD	GY		CLY	3I		
									PRO	3I		
49.29	49.75	0.46	QFP	MG	medium brownish grey feldspar porphyry dyke, trending 70 TCA with a sharp upper and lower contact							
						MD	BN					
						MD	GY					
49.75	51.20	1.45	GRD	MG	heavily argillic and prpylitic altered granodiorite with weak hairline veinlets (3) throughout interval, without sulfides.							
						MD	GY		ARG	4I		
						MD	GN		PRO	4I		
51.20	53.20	2.00	QFP	MG	medium grey to brownish grey with greenish white feldspar clasts, feldspar porphyritic dyke.							
						MD	GN					
						MD	GY					
						MD	BN					
53.20	53.90	0.70	GRD	MG	medium grey, brecciated and clay altered granodiorite.							
						MD	GY		CLY	4I		
53.90	55.46	1.56	QFP	MG	medium grained brownish grey weakly clay altered feldspar porphyritic dyke							
						MD	BN					
						MD	GY					
55.46	57.20	1.74	GRD	MG	moderately propyltiic altered and weakly silcified granodiorite with trace disseminated pyrite throughout interval							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	3I		
57.20	58.45	1.25	QFP	MG	medium grey with white feldspar grains and a dense stockwork of mesh like fine-grained black veinlets, porphyritic dyke. Contact trends 45 TCA							
						MD	GN		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
58.45	61.00	2.55	GRD	MG	medium grey to light grey moderately argillic altered granodiorite							
						MD	GY		ARG	2I		
						LT	GN					
61.00	61.75	0.75	QFP	MG	porphyritic medium to dark grey feldspar porphyry dyke with a chaotic stockwork of mm-scale quartz veinlets devoid of sulfide							
						MD	GY					
						DK	GY					
61.75	65.53	3.78	QFP	MG	light grey feldsdpar porphyritic dyke without any sulfide							
						LT	GY					
65.53	65.75	0.22	QFP	MG	gouged section of dyke; light grey; intensely clay altered trending 80 TCA on both contacts							
						LT	GY		CLY	5I		
65.75	71.30	5.55	QFP	MG	light grey feldspar porphyryitic dyke							
						LT	GY					
71.30	74.50	3.20	GRD	MG	medium grained, weakly propylitic altered granodiorite after weak argillic alteration, with sparse quartz veinlets with tace pyrite developed throughout, trending ~40-60 TCA							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
74.50	74.86	0.36	GRD	MG	faulted, gouged, highly fractured granodiorite							
						LT	GY		CLY	3I		
74.86	78.15	3.29	GRD	MG	weakly propylitic altered granodiorite with weak argillic alteration. Medium greenish grey to grey with rare, hairline, pyrite bearing quartz stringers							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
78.15	79.50	1.35	GRD	MG	light grey to medium grey weakly argillic altered granodiorite with weak propylitic overprint, and a set of 8 hairline quartz carbonate stringers with trace pyrite along margins							
						MD	GY					
						LT	GY					
79.50	81.26	1.76	GRD	MG	medium grained, medium grey weakly propylitic and argillic altered granodiorite							
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									PRO	2I		
81.26	84.15	2.89	QFP	MG	feldspar porphyritic, medium brownish grey, with weakly clay altered feldspar grains dyke with a sharp upper and lower contact that trends 60 TCA							
						MD	BN		CLY	1I		
84.15	86.25	2.10	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
86.25	86.46	0.21	VEN	MG	weaakly developed, weak pinkish white, rhodochrosite vein mixed with clay altered granodiorite. Upper 10 cm of vein is competent band of rhodoschrosite. Lower 10 cm of vein is brecciated, and is a mixture of rhodochrosite and granodiorite. Weak patchy pyrite and sphalerite is devleoped within vein as well as rimming rhodochrosite clasts in brecciated portion of vein							
						MD	GY		SIL	1I	Sp	1
						LT	PK		CLY	2I	Py	2
						LT	WH					
86.46	88.50	2.04	GRD	MG	weakly propylitic and argillic altered granodiorite with weak discrete 5-10 cm sections that are stockwork hairline veined and weakly brecciated. Sparse pyrite bearing veinlets are dispersed throughout interval							
						MD	GY		PRO	1I	Py	0.5
						MD	GN		ARG	1I		
88.50	93.90	5.40	GRD	MG	weakly argillic altered granodiorite with patchy disseminated tourmaline throughout interval							
						MD	GY					
						LT	GY		ARG	1I		
						LT	GN		PRO	1I		
93.90	96.60	2.70	GRD	MG	strongly propylitic and moderately argillic altered granodiorite with sets of quartz stringer veinlets trending 40 TCA (3 in interval) that contain pyrite							
						MD	GN		ARG	2I	Py	1
						MD	GY		PRO	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.60	97.75	1.15	GRD	MG	weakly brecciated and clay gouged, likely faulted, heavily clay altered granodiorite with disseminated pyrite within groundmass, with three patchy bands of more intense mineralization, with a higher proportion of pyrite							
						MD	GY		CLY	4I	Py	1.5
						LT	GY					
97.75	98.17	0.42	VEN	MG	semimassive sulfide vein, with intense phyllic alteration and semimassive cubic pryite hosted within clay altered material. Weak quartz +- rhodoschrosite veining on upper 15 cm of vein, with in situ sulfides (not hosted in clay). Cubic pyrite up to 3 cm by 3 cm and semimassive sphalerite +- galena. Trace arsenopyrite spotted disseminated throughout interval							
						MD	GY					
						LT	PK		PHC	4I	Py	10
						LT	WH		SIL	1I	Sp	2
						DK	GY		CLY	3I	Gn	1
98.17	100.00	1.83	GRD	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 4 quartz veinlets trending 40 TCA with pyrite							
						MD	GY		CLY	2I	Py	1
						LT	GY		PRO	3I		
									PHC	1I		
100.00	100.34	0.34	VEN	MG	intensely phyllic altered, veined material with semimassive to massive cubic pyrite hosted within phyllic altered intervals of vein. Weak fine-grained disseminated sphalerite and galena are visible in vein as well.							
						MD	GY		PHC	4I	Sp	1
						LT	GY		SIL	3I	Py	10
						DK	GY		CLY	3I	Gn	1
100.34	100.90	0.56	GRD	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 2 quartz veinlets trending 40 TCA with pyrite							
						MD	GY		PRO	1I	Py	1
						MD	GN		CLY	1I		
100.90	105.00	4.10	GRD	MG	weak to moderate propylitic alterd granodiorite with weak argillic alteration. Rare pyrite bearing quartz stringers trending 50 TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		SIL	1I	Py	0.1
						MD	GY		PRO	3I		
105.00	105.60	0.60	GRD	MG	moderate propylitic altered granodiorite with 4 pyrite bearing quartz veinlets trending 80 TCA							
						MD	GY		PRO	3I	Py	0.5
105.60	108.90	3.30	GRD	MG	medium grained, medium greenish grey, weakly propylitic and argillic altered granodiorite with rare quartz carbonate veinlets with trace pyrite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
108.90	109.50	0.60	GRD	MG	strongly argillic altered granodiorite with weak quartz veinlets (two) with pyrite along margins							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I	Py	0.5
109.50	112.05	2.55	GRD	MG	moderate to strong argillic altered granodiorite							
						MD	GY					
						LT	GN		ARG	4I		
						LT	WH					
112.05	112.50	0.45	GRD	MG	moderately propylitic altered granodiorite with one 2 cm quartz vein trending 40 TCA with pyrite							
						MD	GY		PRO	4I	Py	1
						MD	GN					
112.50	115.97	3.47	GRD	MG	moderately argillic and propylitic altered granodiorite with weak pyrite bearing quartz veinlets dispersed throughout.							
						MD	GY		ARG	2I		
						MD	GN		PRO	3I		
115.97	118.00	2.03	GRD	MG	unaltered granodiorite							
						MD	GY					
118.00	119.00	1.00	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					
						LT	GY					
119.00	123.75	4.75	GRD	MG	unaltered granodiorite with weak carbonate staining on frx surface							
						MD	GY					
123.75	124.00	0.25	GRD	MG	weakly propylitic altered grno with 4 pyrite bearing quartz veinlets							
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I	Py	0.5
124.00	125.30	1.30	GRD	MG	unaltered granodiorite							
125.30	125.55	0.25	GRD	MG	faulted grano with 40 TCA fractures							
						MD	GY					
						MD	GN					
125.55	126.65	1.10	GRD	MG	unaltered granodioritw							
						MD	GY					
126.65	130.61	3.96	GRD	MG	medium graiend, weakly propylitic and argillic altered granodiorite with weak quartz carbonate stringers trending 40 TCA							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
130.61	136.00	5.39	GRD	MG	unaltered granodiorite							
						MD	GY					
136.00	139.35	3.35	GRD	MG	moderately propylitic and weakly silicified granodiorite with weak pyrite bearing stringers throughout, with patchy weak argillic alteration							
						MD	GY		SIL	1I	Py	1
						MD	GN		PRO	3I		
139.35	139.50	0.15	VEN	MG	brecciated clay altered vein with weak patchy galena and pyrite							
						LT	GY		PHC	3I	Gn	0.2
									CLY	3I	Py	1
139.50	141.10	1.60	GRD	MG	moderately propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
141.10	141.83	0.73	GRD	MG	unaltered granodiorite							
						MD	GY					
141.83	143.48	1.65	GRD	MG	weakly argillic and propylitic altered granodiorite							
						MD	GN					
						MD	GY					
143.48	143.78	0.30	GRD	MG	strongly clay altered granodiorite with strong propylitic alteration							
						MD	GN		PRO	4I		
						MD	GY		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
143.78	146.50	2.72	GRD	MG	moderate propylitic overprint of weakly argillic altered granodiorite							
						MD	GY		ARG	1I		
						MD	GN		PRO	3I		
146.50	147.83	1.33	GRD	MG	medium grained, moderately argillic altered granodiorite							
						MD	GY					
						LT	WH					
147.83	148.20	0.37	GRD	MG	moderately propylitic altered and weakly silicified granodiorite							
						MD	GY		SIL	2I		
									PRO	2I		
148.20	150.88	2.68	GRD	MG	moderately argillic altered granodiorite with patch weak propylitic alteration							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
150.88	152.27	1.39	GRD	MG	unaltered granodiorite							
						MD	GY					
						MD	GN					
152.27	153.10	0.83	GRD	MG	unaltered granodiorite							
						MD	GY					
153.10	154.90	1.80	GRD	MG	moderately argillic altered granodiorite with a moderate propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN		PRO	3I		
154.90	156.09	1.19	GRD	MG	unaltered granodiorite							
						MD	GY					
						MD	GN					
156.09	157.50	1.41	GRD	MG	weakly argillic altered granodioritw with moderate propylitic alteration and two small quartz carbonate stringers without sulfide							
						MD	GN		PRO	1I		
						MD	GY		ARG	1I		
157.50	157.60	0.10	GRD	MG	cemented fault surface iwht clasts of granodiorite, and a dark grey to black groundmass. Sharp upper and lower contact trending 35 TCA							
						MD	GN		PRO	3I		
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
157.60	159.05	1.45	GRD	MG	moderately prpylitic and argillic altered granodiotie							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I		
159.05	159.22	0.17	GRD	MG	granodiorite fault breccia with a black matrix, weakly mineralized with dissemianted pyrite.							
						MD	GY		SIL	2I	Py	1
						DK	GY					
159.22	160.78	1.56	GRD	MG	weak to moderate argillic altered granodiorite with weak propylitic oerprint							
						MD	GY		ARG	1I		
						MD	GN		PRO	3I		
160.78	160.95	0.17	QFP	MG	chloritized feldspar porphyryitic dyke							
						MD	GN		CHL	3I		
160.95	161.14	0.19	BXA	MG	mineralized fault breccia with dissemianted pyrite and intense phyllic alteration							
						MD	GY		PHC	4I	Py	1
						LT	GY					
						DK	GY		CLY	4I		
161.14	161.93	0.79	QFP	MG	heavily fracuted, clay altered feldspar porphyritic dyke							
						MD	GN		CLY	4I		
									CHL	1I		
161.93	162.29	0.36	BXA	MG	clay gouged, faulted, mineralized zone with dissemianted pyrite and granodiorite and qfp dyke fragments within a clay gouged matrix							
						MD	GY		PHC	3I	Py	1.5
						LT	GN		CLY	5I		
						LT	GY					
162.29	163.13	0.84	QFP	MG	medium green chloritized feldspar porphyritic dyke							
						MD	GN		CHL	2I		
									PRO	2I		
163.13	164.60	1.47	GRD	MG	moderately propylitic and silicified granodiorite with a prominent 1-3 cm wide fault 0trending +-10-15 TCA, with associated disseminated pyrite and fractures, possibly related to this fault							
						MD	GY		PRO	3I	Py	1
						MD	GN		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
164.60	164.90	0.30	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							
						MD	GY					
						LT	GY					
164.90	164.95	0.05	GRD	MG	clay gouge with dissemianted pyrite 1%							
164.95	165.15	0.20	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							
165.15	165.22	0.07	GRD	MG	clay gouge with disseminated pyrite							
165.22	165.28	0.06	GRD	MG	banded quartz/clay gouge with pyrite and finegrained galena							
165.28	165.51	0.23	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							
165.51	165.58	0.07	GRD	MG	small quartz carbonate vein with banded pyrite +- sphalerite +- galena							
165.58	165.75	0.17	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							
165.75	165.79	0.04	GRD	MG	small quartz carbonate veinlet with dissemianted banded pyrite and sphalerite							
165.79	165.90	0.11	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
165.90	170.00	4.10	GRD	MG	weak to moderate argillic altered granodiorite with patchy unaltered section and patchy propylitic alteration, with weak hairline quart veinlets containing trace pyrite trending 60 TCA							
						MD	GY		ARG	3I		
						MD	GN					
						LT	WH		PHC	2I	Py	0.1
170.00	171.42	1.42	GRD	MG	fractured, silicified granodiorite with disseminated pyrite and weak banded pyrite and galena along the lower 40 cm, where there is a higher density of quartz veining and weak vuggy textures							
						MD	GN		SIL	3I	Gn	0.1
						MD	GY		PRO	2I	Py	2
171.42	172.00	0.58	GRD	MG	weakly propylitic altered granodiorite							
						MD	GY					
						MD	GN					
172.00	174.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
174.00	175.90	1.90	GRD	MG	silicified granodiorite with three separate zone sof low angle TCA faulting, which has caused silicification of granodiorite. Moderately propylitic altered and strongly silicified							
						MD	GY		PRO	4I		
						LT	GN		SIL	4I		
						DK	GY					
175.90	176.68	0.78	GRD	MG	heavily fractured, moderately silicified and propylitic altered granodiorite with weak pyrite in groundmass							
						MD	GN		PRO	3I	Py	0.5
						MD	GY		SIL	2I		
176.68	177.20	0.52	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GY		PRO	3I		
						MD	GN					
177.20	178.70	1.50	GRD	MG	moderately propylitic and weakly silicified granodiorite with 7 hairline quartz stringers with weak pyrite, and a siliceous halo with pyrite							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		SIL	1I		
									PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
178.70	179.60	0.90	GRD	MG	moderately argillic altered granodiorite, weak white to ligh greenish grey							
						MD	WH		PRO	1I		
						MD	GY		ARG	3I		
						LT	GN					
179.60	180.43	0.83	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration, weak quartz veining barren of sulfide.							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I		
180.43	182.10	1.67	GRD	MG	medium grained, strongly propylitic altered and silicified granodiorite with disseminated pyrite in groundmass. Lower section of interval hosts a semi-massive sulfide vein (5 cm wide) that contains only pyrite. 15 cm of lower contact is a cemented breccia with silica flooding hosting disseminated pyrite.							
						MD	GY		PRO	4I	Py	2
						MD	GN					
182.10	182.38	0.28	GRD	MG	gouged, gaulted, clay altered granodiorite separating mineralized grd (above) and qfp dyke (below)							
						MD	GY					
						LT	GY		CLY	5I		
182.38	185.22	2.84	QFP	MG	greyish green feldspar porphyry dyke with a faulted upper and lower contact, feldspars are altered to chlorite and clay and gorundmass is weakly chloritized							
						MD	GN		CHL	1I		
						MD	GY		CLY	2I		
185.22	186.30	1.08	GRD	MG	medium grey to patchy greenish grey, patchily moderately propylitic latered granodiorite with five small quartz veinlets dispersed evenly throughout interval with disseminated pyrite.							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
186.30	187.00	0.70	GRD	MG	unaltered granodiorite							
187.00	187.50	0.50	GRD	MG	moderately propylitic altered granodiorite with weak pyrite along one 80 TCA veinlet							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
187.50	188.30	0.80	GRD	MG	unaltered granodiorie							
188.30	188.90	0.60	GRD	MG	moderate propylitic granodiorite with weak dissemianted pyrite in veinlet trending 80 TCA							
188.90	189.41	0.51	GRD	MG	unaltered granodiorite							
189.41	189.83	0.42	GRD	MG	moderate propylitic granodiorite with pyrite in quartz veinlet							
189.83	192.02	2.19	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.52	1.52	OVB	OVB	--	overburden
1.52	3.00	1.48	OVB	GRD	--	heavily fractured and rubbly mmixture of overburder (30%) and granodiorite (70%) fragments are 3-5 cm all the way to gravel/clay.
3.00	5.80	2.80	GRD	GRDF	MG	clay gouged, faulted, granodiorite. Light brown, with small dragments of fractured light brown granodiorite within clay gouge.
5.80	7.40	1.60	QFP	DYK	MG	Faulted, heavily fractured and clay altered light grey to light brown quartz feldspar porphyry dyke
7.40	12.30	4.90	QFP	DYK	MG	fualted, semi-competent (pieces up to 15 cm), yet still heavily fractured and clay altered QFP dyke, medium brown, with large density of fractures.
12.30	22.40	10.10	QFP	DYK	MG	relatively competent, light to medium brown to brownish grey, feldspar porphyry dyke with weak clay alteration of feldspar grains.
22.40	24.21	1.81	GRD	GRDF	MG	faulted, fractured, rubbly, gouged granodiorite. Light brown to medium greyish brown, with strong clay alteration and oxidative staining along fractures
24.21	24.84	0.63	GRD	GRDM	MG	siliceous, weakly mineralized granodiorite with trace disseminated pyrite throughout
24.84	25.90	1.06	QFP	DYK	MG	heavily fractured QFP dyke, weakly silicified, with trace pyrite in groundmass
25.90	29.40	3.50	QFP	DYK	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout
29.40	30.00	0.60	QFP	DYK	MG	faulted QFP dyke with intense clay alteration and weak brecciation. Fault contact trends 25 TCA
30.00	31.87	1.87	QFP	DYK	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout
31.87	32.15	0.28	GRD	GRDM	MG	faulted, clay altered granodiorite with disseminated pyrite in groundmass
32.15	32.36	0.21	VEN	VEIN	MG	30 TCA upper contact, 50 TCA lower contact, clay altered vein material with disseminated patchy banded galena, weak sphalerite, and disseminated patchy pyrite
32.36	33.11	0.75	GRD	GRDA	MG	medium brown, oxidized, and patchily silicified granodiorite with two small pyrite bearing quartz veinlets 80 TCA.
33.11	33.25	0.14	GRD	GRDF	MG	faulted, rubbly granodiorite trending 70 TCA
33.25	33.90	0.65	GRD	GRDA	MG	medium brownish grey with patchy silicification, oxidation and bleaching, granodiorite.
33.90	34.07	0.17	GRD	GRDF	MG	gouged, clay altered granodiorite 80 TCA upper and lower contact
34.07	35.75	1.68	GRD	GRDA	MG	medium grained, bleached and oxidized granodiorite with weak quartz veinlets that contain trace pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
35.75	37.15	1.40	GRD	GRDA	MG	medium grained, moderate to strong argillic altered granodiorite with a weak propylitic overprint. One pyrite bearing quartz veinlet within interval
37.15	38.55	1.40	GRD	GRDF	MG	faulted, fractured, heavily oxidized and clay altered, weakly propylitic altered granodiorite; likely related to faulting.
38.55	38.85	0.30	FLT	GRDF	FG	gouged, faulted contact between granodiorite and siliceous QFP dyke
38.85	45.75	6.90	QFP	DYK	MG	light grey to reeeish grey, densely fractured (all fractures in interval trend ~70 TCA, competent feldspar porphyry dyke with pervaiseve reddish alteration - this is likely related to the density of fractures and surface leaching.
45.75	46.05	0.30	GRD	GRDF	MG	fault gouged contact between QFP dyke (above) and grd (below) trends 80 TCA
46.05	47.80	1.75	GRD	GRDA	MG	moderately argillic altered granodiorite with weak propylitic overprint.
47.80	49.00	1.20	GRD	GRDM	MG	moderate to strong propylitic altered granodiorite with set of seven quartz veinlets up to 7 mm with trace pyrite along their margins.
49.00	49.29	0.29	GRD	GRDF	MG	phyllic and propylitic, clay altered brecciated granodiorite; likely faulted
49.29	49.75	0.46	QFP	DYK	MG	medium brownish grey feldspar porphyry dyke, trending 70 TCA with a sharp upper and lower contact
49.75	51.20	1.45	GRD	GRDA	MG	heavily argillic and prpylitic altered granodiorite with weak hairline veinlets (3) throughout interval, without sulfides.
51.20	53.20	2.00	QFP	DYK	MG	medium grey to brownish grey with greenish white feldspar clasts, feldspar porphyritic dyke.
53.20	53.90	0.70	GRD	GRDF	MG	medium grey, brecciated and clay altered granodiorite.
53.90	55.46	1.56	QFP	DYK	MG	medium grained brownish grey weakly clay altered feldspar porphyritic dyke
55.46	57.20	1.74	GRD	GRDM	MG	moderately propyltiic altered and weakly silcified granodiorite with trace disseminated pyrite throughout interval
57.20	58.45	1.25	QFP	DYK	MG	medium grey with white feldspar grains and a dense stockwork of mesh like fine-grained black veinlets, porphyritic dyke. Contact trends 45 TCA
58.45	61.00	2.55	GRD	GRDA	MG	medium grey to light grey moderately argillic altered granodiorite
61.00	61.75	0.75	QFP	DYK	MG	porphyritic medium to dark grey feldspar porphyry dyke with a chaotic stockwork of mm-scale quartz veinlets devoid of sulfide
61.75	65.53	3.78	QFP	DYK	MG	light grey feldsdpar porphyritic dyke without any sulfide
65.53	65.75	0.22	QFP	FLT	MG	gouged section of dyke; light grey; intensely clay altered trending 80 TCA on both contacts
65.75	71.30	5.55	QFP	DYK	MG	light grey feldspar porphyryitic dyke

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
71.30	74.50	3.20	GRD	GRDA	MG	medium grained, weakly propylitic altered granodiorite after weak argillic alteration, with sparse quartz veinlets with tace pyrite developed throughout, trending ~40-60 TCA
74.50	74.86	0.36	GRD	GRDF	MG	faulted, gouged, highly fractured granodiorite
74.86	78.15	3.29	GRD	GRDA	MG	weakly propylitic altered granodiorite with weak argillic alteration. Medium greenish grey to grey with rare, hairline, pyrite bearing quartz stringers
78.15	79.50	1.35	GRD	GRDM	MG	light grey to medium grey weakly argillic altered granodiorite with weak propylitic overprint, and a set of 8 hairline quartz carbonate stringers with trace pyrite along margins
79.50	81.26	1.76	GRD	GRDA	MG	medium grained, medium grey weakly propylitic and argillic altered granodiorite
81.26	84.15	2.89	QFP	DYK	MG	feldspar porphyritic, medium brownish grey, with weakly clay altered feldspar grains dyke with a sharp upper and lower contact that trends 60 TCA
84.15	86.25	2.10	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite
86.25	86.46	0.21	VEN	VEIN	MG	weaakly developed, weak pinkish white, rhodochrosite vein mixed with clay altered granodiorite. Upper 10 cm of vein is competent band of rhodoschrosite. Lower 10 cm of vein is brecciated, and is a mixture of rhodochrosite and granodiorite. Weak patchy pyrite and sphalerite is devleoped within vein as well as rimming rhodochrosite clasts in brecciated portion of vein
86.46	88.50	2.04	GRD	GRDM	MG	weakly propylitic and argillic altered granodiorite with weak discrete 5-10 cm sections that are stockwork hairline veined and weakly brecciated. Sparse pyrite bearing veinlets are dispersed throughout interval
88.50	93.90	5.40	GRD	GRDA	MG	weakly argillic altered granodiorite with patchy disseminated tourmaline throughout interval
93.90	96.60	2.70	GRD	GRDM	MG	strongly propylitic and moderately argillic altered granodiorite with sets of quartz stringer veinlets trending 40 TCA (3 in interval) that contain pyrite
96.60	97.75	1.15	GRD	GRDM	MG	weakly brecciated and clay gouged, likely faulted, heavily clay altered granodiorite with disseminated pyrite within groundmass, with three patchy bands of more intense mineralization, with a higher proportion of pyrite
97.75	98.17	0.42	VEN	VEIN	MG	semimassive sulfide vein, with intense phyllic alteration and semimassive cubic pryite hosted within clay altered material. Weak quartz +- rhodoschrosite veining on upper 15 cm of vein, with in situ sulfides (not hosted in clay). Cubic pyrite up to 3 cm by 3 cm and semimassive sphalerite +- galena. Trace arsenopyrite spotted disseminated throughout interval
98.17	100.00	1.83	GRD	GRDM	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 4 quartz veinlets trending 40 TCA with pyrite
100.00	100.34	0.34	VEN	VEIN	MG	intensely phyllic altered, veined material with semimassive to massive cubic pyrite hosted within phyllic altered intervals of vein. Weak fine-grained disseminated sphalerite and galena are visible in vein as well.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
100.34	100.90	0.56	GRD	GRDM	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 2 quartz veinlets trending 40 TCA with pyrite
100.90	105.00	4.10	GRD	GRDA	MG	weak to moderate propylitic alterd granodiorite with weak argillic alteration. Rare pyrite bearing quartz stringers trending 50 TCA
105.00	105.60	0.60	GRD	GRDM	MG	moderate propylitic altered granodiorite with 4 pyrite bearing quartz veinlets trending 80 TCA
105.60	108.90	3.30	GRD	GRDA	MG	medium grained, medium greenish grey, weakly propylitic and argillic altered granodiorite with rare quartz carbonate veinlets with trace pyrite
108.90	109.50	0.60	GRD	GRDM	MG	strongly argillic altered granodiorite with weak quartz veinlets (two) with pyrite along margins
109.50	112.05	2.55	GRD	GRDA	MG	moderate to strong argillic altered granodiorite
112.05	112.50	0.45	GRD	GRDM	MG	moderately propylitic altered granodiorite with one 2 cm quartz vein trending 40 TCA with pyrite
112.50	115.97	3.47	GRD	GRDA	MG	moderately argillic and propylitic altered granodiorite with weak pyrite bearing quartz veinlets dispersed throughout.
115.97	118.00	2.03	GRD	GRD	MG	unaltered granodiorite
118.00	119.00	1.00	GRD	GRDA	MG	weakly argillic altered granodiorite
119.00	123.75	4.75	GRD	GRD	MG	unaltered granodiorite with weak carbonate staining on frx surface
123.75	124.00	0.25	GRD	GRDM	MG	weakly propylitic altered grno with 4 pyrite bearing quartz veinlets
124.00	125.30	1.30	GRD	GRD	MG	unaltered granodiorite
125.30	125.55	0.25	GRD	GRDF	MG	faulted grano with 40 TCA fractures
125.55	126.65	1.10	GRD	GRD	MG	unaltered granodioritw
126.65	130.61	3.96	GRD	GRDA	MG	medium graiend, weakly propylitic and argillic altered granodiorite with weak quartz carbonate stringers trending 40 TCA
130.61	136.00	5.39	GRD	GRD	MG	unaltered granodiorite
136.00	139.35	3.35	GRD	GRDA	MG	moderately propylitic and weakly silicified granodiorite with weak pyrite bearing stringers throughout, with patchy weak argillic alteration
139.35	139.50	0.15	VEN	VEIN	MG	brecciated clay altered vein with weak patchy galena and pyrite
139.50	141.10	1.60	GRD	GRDA	MG	moderately propylitic altered granodiorite
141.10	141.83	0.73	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
141.83	143.48	1.65	GRD	GRDA	MG	weakly argillic and propylitic altered granodiorite
143.48	143.78	0.30	GRD	GRDF	MG	strongly clay altered granodiorite with strong propylitic alteration
143.78	146.50	2.72	GRD	GRDA	MG	moderate propylitic overprint of weakly argillic altered granodiorite
146.50	147.83	1.33	GRD	GRDA	MG	medium grained, moderately argillic altered granodiorite
147.83	148.20	0.37	GRD	GRDA	MG	moderately propylitic altered and weakly silicified granodiorite
148.20	150.88	2.68	GRD	GRDA	MG	moderately argillic altered granodiorite with patch weak propylitic alteration
150.88	152.27	1.39	GRD	GRD	MG	unaltered granodiorite
152.27	153.10	0.83	GRD	GRD	MG	unaltered granodiorite
153.10	154.90	1.80	GRD	GRDA	MG	moderately argillic altered granodiorite with a moderate propylitic overprint
154.90	156.09	1.19	GRD	GRD	MG	unaltered granodiorite
156.09	157.50	1.41	GRD	GRDA	MG	weakly argillic altered granodioritw with moderate propylitic alteration and two small quartz carbonate stringers without sulfide
157.50	157.60	0.10	GRD	FLT	MG	cemented fault surface iwht clasts of granodiorite, and a dark grey to black groundmass. Sharp upper and lower contact trending 35 TCA
157.60	159.05	1.45	GRD	GRDA	MG	moderately prpylitic and argillic altered granodiotie
159.05	159.22	0.17	GRD	FLT	MG	granodiorite fault breccia with a black matrix, weakly mineralized with dissemianted pyrite.
159.22	160.78	1.56	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with weak propylitic oerprint
160.78	160.95	0.17	QFP	DYK	MG	chloritized feldspar porphyryitic dyke
160.95	161.14	0.19	BXA	FLTM	MG	mineralized fault breccia with dissemianted pyrite and intense phyllic alteration
161.14	161.93	0.79	QFP	DYK	MG	heavily fracuted, clay altered feldspar porphyritic dyke
161.93	162.29	0.36	BXA	FLTM	MG	clay gouged, faulted, mineralized zone with dissemianted pyrite and granodiorite and qfp dyke fragments within a clay gouged matrix
162.29	163.13	0.84	QFP	DYK	MG	medium green chloritized feldspar porphyritic dyke
163.13	164.60	1.47	GRD	GRDM	MG	moderately propylitic and silicified granodiorite with a prominent 1-3 cm wide fault 0trending +- 10-15 TCA, with associated disseminated pyrite and fractures, possibly related to this fault

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
164.60	164.90	0.30	GRD	GRDM	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite
164.90	164.95	0.05	GRD	GRDM	MG	clay gouge with dissemianted pyrite 1%
164.95	165.15	0.20	GRD	GRDM	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite
165.15	165.22	0.07	GRD	GRDM	MG	clay gouge with disseminated pyrite
165.22	165.28	0.06	GRD	GRDM	MG	banded quartz/clay gouge with pyrite and finegrained galena
165.28	165.51	0.23	GRD	GRDM	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite
165.51	165.58	0.07	GRD	GRDM	MG	small quartz carbonate vein with banded pyrite +- sphalerite +- galena
165.58	165.75	0.17	GRD	GRDM	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite
165.75	165.79	0.04	GRD	GRDM	MG	small quartz carbonate veinlet with dissemianted banded pyrite and sphalerite
165.79	165.90	0.11	GRD	GRDM	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite
165.90	170.00	4.10	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with patchy unaltered section and patchy propylitic alteration, with weak hairline quart veinlets containing trace pyrite trending 60 TCA
170.00	171.42	1.42	GRD	GRDM	MG	fractured, silicified granodiorite with disseminated pyrite and weak banded pyrite and galena along the lower 40 cm, where there is a higher density of quartz veining and weak vuggy textures
171.42	172.00	0.58	GRD	GRDA	MG	weakly propylitic altered granodiorite
172.00	174.00	2.00	GRD	GRD	MG	unaltered granodioirte
174.00	175.90	1.90	GRD	GRDF	MG	silicified granodiorite with three separate zone sof low angle TCA faulting, which has caused silicification of granodiorite. Moderately propylitic altered and strongly silicified
175.90	176.68	0.78	GRD	GRDM	MG	heavily fractured, moderately silicified and propylitic altered granodiorite with weak pyrite in groundmass
176.68	177.20	0.52	GRD	GRDA	MG	weak to moderate propylitic altered granodiorite
177.20	178.70	1.50	GRD	GRDM	MG	moderately propylitic and weakly silicified granodiorite with 7 hairline quartz stringers with weak pyrite, and a siliceous halo with pyrite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
178.70	179.60	0.90	GRD	GRDA	MG	moderately argillic altered granodiorite, weak white to ligh greenish grey
179.60	180.43	0.83	GRD	GRDA	MG	moderately propylitic altered granodiorite with weak argillic alteration, weak quartz veining barren of sulfide.
180.43	182.10	1.67	GRD	GRDM	MG	medium grained, strongly propylitic altered and silicified granodiorite with disseminated pyrite in groundmass. Lower section of interval hosts a semi-massive sulfide vein (5 cm wide) that contains only pyrite. 15 cm of lower contact is a cemented breccia with silica flooding hosting disseminated pyrite.
182.10	182.38	0.28	GRD	FLT	MG	gouged, gaulted, clay altered granodiorite separating mineralized grd (above) and qfp dyke (below)
182.38	185.22	2.84	QFP	DYK	MG	greyish green feldspar porphyry dyke with a faulted upper and lower contact, feldspars are altered to chlorite and clay and gorundmass is weakly chloritized
185.22	186.30	1.08	GRD	GRDM	MG	medium grey to patchy greenish grey, patchily moderately propylitic latered granodiorite with five small quartz veinlets dispersed evenly throughout interval with disseminated pyrite.
186.30	187.00	0.70	GRD	GRDM	MG	unaltered granodiorite
187.00	187.50	0.50	GRD	GRDM	MG	moderately propylitic altered granodiorite with weak pyrite along one 80 TCA veinlet
187.50	188.30	0.80	GRD	GRDM	MG	unaltered granodiorie
188.30	188.90	0.60	GRD	GRDM	MG	moderate propylitic granodiorite with weak dissemianted pyrite in veinlet trending 80 TCA
188.90	189.41	0.51	GRD	GRDM	MG	unaltered granodiorite
189.41	189.83	0.42	GRD	GRDM	MG	moderate propylitic granodiorite with pyrite in quartz veinlet
189.83	192.02	2.19	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	overburden							
1.52	3.00	1.48	OVB	--	heavily fractured and rubbly mmixture of overburder (30%) and granodiorite (70%) fragments are 3-5 cm all the way to gravel/clay.							
						MD	BN					
3.00	5.80	2.80	GRD	MG	clay gouged, faulted, granodiorite. Light brown, with small dragments of fractured light brown granodiorite within clay gouge.							
						LT	BN					
						LT	BF		CLY	5I		
						LT	GY					
5.80	7.40	1.60	QFP	MG	Faulted, heavily fractured and clay altered light grey to light brown quartz feldspar porphyry dyke							
						LT	GY		CLY	4I		
						LT	BN					
7.40	12.30	4.90	QFP	MG	fualted, semi-competent (pieces up to 15 cm), yet still heavily fractured and clay altered QFP dyke, medium brown, with large density of fractures.							
						MD	BN		CLY	2I		
12.30	22.40	10.10	QFP	MG	relatively competent, light to medium brown to brownish grey, feldspar porphyry dyke with weak clay alteration of feldspar grains.							
						MD	BN					
						LT	BF		CLY	2I		
						LT	BN					
						MD	GY					
22.40	24.21	1.81	GRD	MG	faulted, fractured, rubbly, gouged granodiorite. Light brown to medium greyish brown, with strong clay alteration and oxidative staining along fractures							
						MD	BN					
						MD	BF					
						LT	GY					
24.21	24.84	0.63	GRD	MG	siliceous, weakly mineralized granodiorite with trace disseminated pyrite throughout							
						MD	GY		SIL	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
24.84	25.90	1.06	QFP	MG	heavily fractured QFP dyke, weakly silicified, with trace pyrite in groundmass. Clay alteration along fractures							
						MD	BN		CLY	2I		
						MD	GY					
25.90	29.40	3.50	QFP	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout							
						MD	GY					
						MD	BN		SIL	1I		
29.40	30.00	0.60	QFP	MG	faulted QFP dyke with intense clay alteration and weak brecciation. Fault contact trends 25 TCA							
						LT	BN		CLY	4I		
30.00	31.87	1.87	QFP	MG	fractured, medium grey qfp dyke with weak light brown oxidative staining throughout							
31.87	32.15	0.28	GRD	MG	faulted, clay altered granodiorite with disseminated pyrite in groundmass							
						MD	GY					
						DK	GY					
						LT	BN		CLY	3I	Py	1.5
32.15	32.36	0.21	VEN	MG	30 TCA upper contact, 50 TCA lower contact, clay altered vein material with disseminated patchy banded galena, weak sphalerite, and disseminated patchy pyrite							
						DK	BN		SIL	2I	Py	2
						MD	GY				Sp	1
						DK	GY		CLY	3I	Gn	5
32.36	33.11	0.75	GRD	MG	medium brown, oxidized, and patchily silicified granodiorite with two small pyrite bearing quartz veinlets 80 TCA.							
						MD	GY		CLY	2I		
						MD	BN		SIL	1I	Py	0.1
33.11	33.25	0.14	GRD	MG	faulted, rubbly granodiorite trending 70 TCA							
						MD	BN		CLY	4I		
33.25	33.90	0.65	GRD	MG	medium brownish grey with patchy silicification, oxidation and bleaching, granodiorite.							
						MD	BN		CLY	3I		
									OXI	1I		
									BLE	1I		
						MD	GY		SIL	2I		
33.90	34.07	0.17	GRD	MG	gouged, clay altered granodiorite 80 TCA upper and lower contact							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		CLY	5I		
34.07	35.75	1.68	GRD	MG	medium grained, bleached and oxidized granodiorite with weak quartz veinlets that contain trace pyrite.							
						MD	BN		BLE	2I		
						MD	BF		CLY	1I	Py	0.1
						LT	GY		OXI	2I		
35.75	37.15	1.40	GRD	MG	medium grained, moderate to strong argillic altered granodiorite with a weak propylitic overprint. One pyrite bearing quartz veinlet within interval							
									SIL	1I		
						MD	GN		PRO	2I	Py	0.1
						MD	GY		ARG	3I		
37.15	38.55	1.40	GRD	MG	faulted, fractured, heavily oxidized and clay altered, weakly propylitic altered granodiorite; likely related to faulting.							
						LT	GY		CLY	2I		
						MD	BN		PRO	1I	Py	0.1
									ARG	1I		
38.55	38.85	0.30	FLT	FG	gouged, faulted contact between granodiorite and siliceous QFP dyke							
						LT	BN		CLY	5I		
						LT	GY					
38.85	45.75	6.90	QFP	MG	light grey to reeeish grey, densely fractured (all fractures in interval trend ~70 TCA, competent feldspar porphyry dyke with pervaiseve reddish alteration - this is likely related to the density of fractures and surface leaching.							
45.75	46.05	0.30	GRD	MG	fault gouged contact between QFP dyke (above) and grd (below) trends 80 TCA							
						LT	BN					
						LT	GY					
						LT	GN		CLY	4I		
46.05	47.80	1.75	GRD	MG	moderately argillic altered granodiorite with weak propylitic overprint.							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
47.80	49.00	1.20	GRD	MG	moderate to strong propylitic altered granodiorite with set of seven quartz veinlets up to 7 mm with trace pyrite along their margins.							
						MD	GY		SIL	1I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	3I		
49.00	49.29	0.29	GRD	MG	phyllic and propylitic, clay altered brecciated granodiorite; likely faulted							
									CLY	3I		
						MD	GY		PRO	3I		
						MD	GN		PHC	2I		
49.29	49.75	0.46	QFP	MG	medium brownish grey feldspar porphyry dyke, trending 70 TCA with a sharp upper and lower contact							
						MD	GY					
						MD	BN					
49.75	51.20	1.45	GRD	MG	heavily argillic and prpylitic altered granodiorite with weak hairline veinlets (3) throughout interval, without sulfides.							
						MD	GY		PRO	4I		
						MD	GN		ARG	4I		
51.20	53.20	2.00	QFP	MG	medium grey to brownish grey with greenish white feldspar clasts, feldspar porphyritic dyke.							
						MD	BN					
						MD	GY					
						MD	GN					
53.20	53.90	0.70	GRD	MG	medium grey, brecciated and clay altered granodiorite.							
						MD	GY		CLY	4I		
53.90	55.46	1.56	QFP	MG	medium grained brownish grey weakly clay altered feldspar porphyritic dyke trending ~60 TCA							
						MD	GY					
						MD	BN					
55.46	57.20	1.74	GRD	MG	moderately propyltiic altered and weakly silcified granodiorite with trace disseminated pyrite throughout interval							
						MD	GN		SIL	2I		
						MD	GY		PRO	3I	Py	0.5
57.20	58.45	1.25	QFP	MG	medium grey with white feldspar grains and a dense stockwork of mesh like fine-grained black veinlets, porphyritic dyke. Contact trends 45 TCA							
						MD	GN					
						MD	GY		SIL	1I		
58.45	61.00	2.55	GRD	MG	medium grey to light grey moderately argillic altered granodiorite							
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		ARG	2I		
61.00	61.75	0.75	QFP	MG	porphyritic medium to dark grey feldspar porphyry dyke with a chaotic stockwork of mm-scale quartz veinlets devoid of sulfide							
						DK	GY					
						MD	GY					
61.75	65.53	3.78	QFP	MG	light grey feldsdpar porphyritic dyke without any sulfide							
						LT	GY					
65.53	65.75	0.22	QFP	MG	gouged section of dyke; light grey; intensely clay altered trending 80 TCA on both contacts							
						LT	GY		CLY	5I		
65.75	71.30	5.55	QFP	MG	light grey feldspar porphyryitic dyke							
						LT	GY					
71.30	74.50	3.20	GRD	MG	medium grained, weakly propylitic altered granodiorite after weak argillic alteration, with sparse quartz veinlets with tace pyrite developed throughout, trending ~40-60 TCA							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
74.50	74.86	0.36	GRD	MG	faulted, gouged, highly fractured granodiorite							
						LT	GY		CLY	3I		
74.86	78.15	3.29	GRD	MG	weakly propylitic altered granodiorite with weak argillic alteration. Medium greenish grey to grey with rare, hairline, pyrite bearing quartz stringers							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
78.15	79.50	1.35	GRD	MG	light grey to medium grey weakly argillic altered granodiorite with weak propylitic overprint, and a set of 8 hairline quartz carbonate stringers with trace pyrite along margins							
						MD	GY					
						LT	GY					
79.50	81.26	1.76	GRD	MG	medium grained, medium grey weakly propylitic and argillic altered granodiorite							
									PRO	2I		
						MD	GY		ARG	2I		
81.26	84.15	2.89	QFP	MG	feldspar porphyritic, medium brownish grey, with weakly clay altered feldspar grains dyke with a sharp upper and lower contact that trends 60 TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		CLY	1I		
84.15	86.25	2.10	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN		PRO	3I		
						MD	GY					
86.25	86.46	0.21	VEN	MG	weaakly developed, weak pinkish white, rhodochrosite vein mixed with clay altered granodiorite. Upper 10 cm of vein is competent band of rhodoschrosite. Lower 10 cm of vein is brecciated, and is a mixture of rhodochrosite and granodiorite. Weak patchy pyrite and sphalerite is devleoped within vein as well as rimming rhodochrosite clasts in brecciated portion of vein							
						LT	PK		CLY	2I	Py	2
						LT	WH		SIL	1I	Sp	1
						MD	GY					
86.46	88.50	2.04	GRD	MG	weakly propylitic and argillic altered granodiorite with weak discrete 5-10 cm sections that are stockwork hairline veined and weakly brecciated. Sparse pyrite bearing veinlets are dispersed throughout interval							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	1I		
88.50	93.90	5.40	GRD	MG	weakly argillic altered granodiorite with patchy disseminated tourmaline throughout interval							
						MD	GY					
						LT	GN		PRO	1I		
						LT	GY		ARG	1I		
93.90	96.60	2.70	GRD	MG	strongly propylitic and moderately argillic altered granodiorite with sets of quartz stringer veinlets trending 40 TCA (3 in interval) that contain pyrite							
						MD	GN		PRO	4I		
						MD	GY		ARG	2I	Py	1
96.60	97.75	1.15	GRD	MG	weakly brecciated and clay gouged, likely faulted, heavily clay altered granodiorite with disseminated pyrite within groundmass, with three patchy bands of more intense mineralization, with a higher proportion of pyrite							
						MD	GY					
						LT	GY		CLY	4I	Py	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.75	98.17	0.42	VEN	MG	semimassive sulfide vein, with intense phyllic alteration and semimassive cubic pryite hosted within clay altered material. Weak quartz +- rhodoschrosite veining on upper 15 cm of vein, with in situ sulfides (not hosted in clay). Cubic pyrite up to 3 cm by 3 cm and semimassive sphalerite +- galena. Trace arsenopyrite spotted disseminated throughout interval							
						LT	PK		SIL	1I	Sp	2
						MD	GY		PHC	4I	Gn	1
						LT	WH		CLY	3I	Py	10
						DK	GY					
98.17	100.00	1.83	GRD	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 4 quartz veinlets trending 40 TCA with pyrite							
						MD	GY		PHC	1I	Py	1
									PRO	3I		
						LT	GY		CLY	2I		
100.00	100.34	0.34	VEN	MG	intensely phyllic altered, veined material with semimassive to massive cubic pyrite hosted within phyllic altered intervals of vein. Weak fine-grained disseminated sphalerite and galena are visible in vein as well.							
						MD	GY		CLY	3I	Py	10
						DK	GY		PHC	4I	Sp	1
						LT	GY		SIL	3I	Gn	1
100.34	100.90	0.56	GRD	MG	clay altered, weakly phyllic altered and propylitic altered granodiorite with strong disseminated pyrite throughout, and 2 quartz veinlets trending 40 TCA with pyrite							
						MD	GY		PRO	1I	Py	1
						MD	GN		CLY	1I		
100.90	105.00	4.10	GRD	MG	weak to moderate propylitic alterd granodiorite with weak argillic alteration. Rare pyrite bearing quartz stringers trending 50 TCA							
						MD	GY		PRO	3I	Py	0.1
						MD	GN		SIL	1I		
105.00	105.60	0.60	GRD	MG	moderate propylitic altered granodiorite with 4 pyrite bearing quartz veinlets trending 80 TCA							
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.60	108.90	3.30	GRD	MG	medium grained, medium greenish grey, weakly propylitic and argillic altered granodiorite with rare quartz carbonate veinlets with trace pyrite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
108.90	109.50	0.60	GRD	MG	strongly argillic altered granodiorite with weak quartz veinlets (two) with pyrite along margins							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I	Py	0.5
109.50	112.05	2.55	GRD	MG	moderate to strong argillic altered granodiorite							
						LT	WH					
						LT	GN		ARG	4I		
						MD	GY					
112.05	112.50	0.45	GRD	MG	moderately propylitic altered granodiorite with one 2 cm quartz vein trending 40 TCA with pyrite							
						MD	GY					
						MD	GN		PRO	4I	Py	1
112.50	115.97	3.47	GRD	MG	moderately argillic and propylitic altered granodiorite with weak pyrite bearing quartz veinlets dispersed throughout.							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I		
115.97	118.00	2.03	GRD	MG	unaltered granodiorite							
						MD	GY					
118.00	119.00	1.00	GRD	MG	weakly argillic altered granodiorite							
						MD	GY					
						LT	GY					
119.00	123.75	4.75	GRD	MG	unaltered granodiorite with weak carbonate staining on frx surface							
						MD	GY					
123.75	124.00	0.25	GRD	MG	weakly propylitic altered grno with 4 pyrite bearing quartz veinlets							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
124.00	125.30	1.30	GRD	MG	unaltered granodiorite							
125.30	125.55	0.25	GRD	MG	faulted grano with 40 TCA fractures							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						MD	GY					
125.55	126.65	1.10	GRD	MG	unaltered granodioritw							
						MD	GY					
126.65	130.61	3.96	GRD	MG	medium graiend, weakly propylitic and argillic altered granodiorite with weak quartz carbonate stringers trending 40 TCA							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
130.61	136.00	5.39	GRD	MG	unaltered granodiorite							
						MD	GY					
136.00	139.35	3.35	GRD	MG	moderately propylitic and weakly silicified granodiorite with weak pyrite bearing stringers throughout, with patchy weak argillic alteration							
						MD	GY		PRO	3I		
						MD	GN		SIL	1I	Py	1
139.35	139.50	0.15	VEN	MG	brecciated clay altered vein with weak patchy galena and pyrite							
									PHC	3I	Py	1
						LT	GY		CLY	3I	Gn	0.2
139.50	141.10	1.60	GRD	MG	moderately propylitic altered granodiorite							
						MD	GY		PRO	3I		
						MD	GN					
141.10	141.83	0.73	GRD	MG	unaltered granodiorite							
						MD	GY					
141.83	143.48	1.65	GRD	MG	weakly argillic and propylitic altered granodiorite							
						MD	GN					
						MD	GY					
143.48	143.78	0.30	GRD	MG	strongly clay altered granodiorite with strong propylitic alteration							
						MD	GN		PRO	4I		
						MD	GY		CLY	3I		
143.78	146.50	2.72	GRD	MG	moderate propylitic overprint of weakly argillic altered granodiorite							
						MD	GY		PRO	3I		
						MD	GN		ARG	1I		
146.50	147.83	1.33	GRD	MG	medium grained, moderately argillic altered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						MD	GY					
147.83	148.20	0.37	GRD	MG	moderately propylitic altered and weakly silicified granodiorite							
						MD	GY		SIL	2I		
									PRO	2I		
148.20	150.88	2.68	GRD	MG	moderately argillic altered granodiorite with patch weak propylitic alteration							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
150.88	152.27	1.39	GRD	MG	unaltered granodiorite							
						MD	GY					
						MD	GN					
152.27	153.10	0.83	GRD	MG	unaltered granodiorite							
						MD	GY					
153.10	154.90	1.80	GRD	MG	moderately argillic altered granodiorite with a moderate propylitic overprint							
						MD	GY		ARG	3I		
						MD	GN		PRO	3I		
154.90	156.09	1.19	GRD	MG	unaltered granodiorite							
						MD	GN					
						MD	GY					
156.09	157.50	1.41	GRD	MG	weakly argillic altered granodioritw with moderate propylitic alteration and two small quartz carbonate stringers without sulfide							
						MD	GN		ARG	1I		
						MD	GY		PRO	1I		
157.50	157.60	0.10	GRD	MG	cemented fault surface iwht clasts of granodiorite, and a dark grey to black groundmass. Sharp upper and lower contact trending 35 TCA							
						MD	GN					
						DK	GY		PRO	3I		
157.60	159.05	1.45	GRD	MG	moderately prpylitic and argillic altered granodiotie							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I		
159.05	159.22	0.17	GRD	MG	granodiorite fault breccia with a black matrix, weakly mineralized with dissemianted pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	2I	Py	1
						DK	GY					
159.22	160.78	1.56	GRD	MG	weak to moderate argillic altered granodiorite with weak propylitic oerprint							
						MD	GY		PRO	3I		
						MD	GN		ARG	1I		
160.78	160.95	0.17	QFP	MG	chloritized feldspar porphyryitic dyke trending 80 TCA sharp upper and lower contact							
						MD	GN		CHL	3I		
160.95	161.14	0.19	BXA	MG	mineralized fault breccia with dissemianted pyrite and intense phyllic alteration							
						LT	GY					
						DK	GY		PHC	4I		
						MD	GY		CLY	4I	Py	1
161.14	161.93	0.79	QFP	MG	heavily fracuted, clay altered feldspar porphyritic dyke							
									CHL	1I		
						MD	GN		CLY	4I		
161.93	162.29	0.36	BXA	MG	clay gouged, faulted, mineralized zone with dissemianted pyrite and granodiorite and qfp dyke fragments within a clay gouged matrix							
						LT	GY		PHC	3I		
						MD	GY		CLY	5I	Py	1.5
						LT	GN					
162.29	163.13	0.84	QFP	MG	medium green chloritized feldspar porphyritic dyke							
						MD	GN		CHL	2I		
									PRO	2I		
163.13	164.60	1.47	GRD	MG	moderately propylitic and silicified granodiorite with a prominent 1-3 cm wide fault 0trending +-10-15 TCA, with associated disseminated pyrite and fractures, possibly related to this fault							
						MD	GN		PRO	3I	Py	1
						MD	GY		SIL	2I		
164.60	165.90	1.30	GRD	MG	strongly clay altered, mienralized granodiorite with two small quartz carbonate veins containing pyrite +- sphal +- galena, and two intensely clay gouged zones with disseminated pyrite							
						LT	GY					
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
165.90	170.00	4.10	GRD	MG	weak to moderate argillic altered granodiorite with patchy unaltered section and patchy propylitic alteration, with weak hairline quart veinlets containing trace pyrite trending 60 TCA							
						MD	GN					
						LT	WH		ARG	3I		
						MD	GY		PHC	2I	Py	0.1
170.00	171.42	1.42	GRD	MG	fractured, silicified granodiorite with disseminated pyrite and weak banded pyrite and galena along the lower 40 cm, where there is a higher density of quartz veining and weak vuggy textures							
						MD	GN		PRO	2I	Gn	0.1
						MD	GY		SIL	3I	Py	2
171.42	172.00	0.58	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN					
						MD	GY					
172.00	174.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
174.00	175.90	1.90	GRD	MG	silicified granodiorite with three separate zone sof low angle TCA faulting, which has caused silicification of granodiorite. Moderately propylitic altered and strongly silicified							
						LT	GN					
						DK	GY		PRO	4I		
						MD	GY		SIL	4I		
175.90	176.68	0.78	GRD	MG	heavily fractured, moderately silicified and propylitic altered granodiorite with weak pyrite in groundmass							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	3I		
176.68	177.20	0.52	GRD	MG	weak to moderate propylitic altered granodiorite							
						MD	GN					
						MD	GY		PRO	3I		
177.20	178.70	1.50	GRD	MG	moderately propylitic and weakly silicified granodiorite with 7 hairline quartz stringers with weak pyrite, and a siliceous halo with pyrite							
									SIL	1I		
						MD	GN		PRO	3I	Py	0.5
						MD	GY		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
178.70	179.60	0.90	GRD	MG	moderately argillic altered granodiorite, weak white to ligh greenish grey							
						LT	GN		PRO	1I		
						MD	GY					
						MD	WH		ARG	3I		
179.60	180.43	0.83	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration, weak quartz veining barren of sulfide.							
						MD	GN		SIL	1I		
						MD	GY		PRO	3I		
180.43	182.10	1.67	GRD	MG	medium grained, strongly propylitic altered and silicified granodiorite with disseminated pyrite in groundmass. Lower section of interval hosts a semi-massive sulfide vein (5 cm wide) that contains only pyrite. 15 cm of lower contact is a cemented breccia with silica flooding hosting disseminated pyrite.							
						MD	GY					
						MD	GN		PRO	4I	Py	2
182.10	182.38	0.28	GRD	MG	gouged, gaulted, clay altered granodiorite separating mineralized grd (above) and qfp dyke (below)							
						LT	GY					
						MD	GY		CLY	5I		
182.38	185.22	2.84	QFP	MG	greyish green feldspar porphyry dyke with a faulted upper and lower contact, feldspars are altered to chlorite and clay and gorundmass is weakly chloritized. Contatc trends 70 TCA							
						MD	GN		CLY	2I		
						MD	GY		CHL	1I		
185.22	189.83	4.61	GRD	MG	medium grey to patchy greenish grey, patchily moderately propylitic latered granodiorite with five small quartz veinlets dispersed evenly throughout interval with disseminated pyrite.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
189.83	192.02	2.19	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.48	32	0.00	0	--	1H	6W	Overburden
1.52	3.05	1.53	1.33	87	0.00	0	--	1H	6W	Overburden
3.05	4.57	1.52	1.35	89	0.00	0	--	1H	6W	Overburden
4.57	6.10	1.53	1.45	95	0.00	0	--	1H	5W	Overburden?
6.10	7.62	1.52	1.38	91	0.00	0	--	2H	5W	
7.62	9.14	1.52	1.48	97	0.00	0	--	1H	5W	
9.14	10.67	1.53	1.35	88	0.00	0	--	1H	5W	
10.67	12.19	1.52	1.22	80	0.13	9	--	2H	5W	
12.19	13.72	1.53	1.52	99	0.45	29	--	3H	5W	
13.72	15.24	1.52	1.48	97	0.87	57	--	3H	4W	
15.24	18.29	3.05	3	98	1.49	49	--	3H	3W	
18.29	21.34	3.05	3.05	100	1.60	52	--	2H	3W	
21.34	24.38	3.04	3.04	100	0.65	21	--	3H	3W	
24.38	27.43	3.05	3.05	100	0.50	16	--	3H	4W	
27.43	30.48	3.05	2.95	97	0.87	29	--	3H	4W	
30.48	33.22	2.74	2.74	100	0.43	16	--	2H	4W	
33.22	35.05	1.83	1.5	82	0.99	54	--	2H	3W	
35.05	38.10	3.05	3.05	100	1.94	64	--	2H	3W	
38.10	41.15	3.05	3.02	99	0.57	19	--	2H	2W	
41.15	44.20	3.05	2.95	97	2.26	74	--	3H	2W	
44.20	47.24	3.04	3.04	100	2.28	75	--	3H	1W	
47.24	50.29	3.05	3.02	99	2.11	69	--	3H	1W	
50.29	53.34	3.05	3.05	100	2.61	86	--	3H	1W	
53.34	56.39	3.05	2.95	97	1.12	37	--	3H	1W	
56.39	59.44	3.05	3.04	100	2.80	92	--	3H	1W	
59.44	62.48	3.04	3.04	100	2.05	67	--	3H	1W	
62.48	65.53	3.05	3.05	100	2.07	68	--	3H	1W	
65.53	68.58	3.05	3.05	100	2.47	81	--	3H	1W	
68.58	71.63	3.05	3.05	100	2.95	97	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
71.63	74.68	3.05	3.05	100	1.72	56	--	3H	1W	
74.68	77.72	3.04	3.04	100	1.82	60	--	3H	1W	
77.72	80.77	3.05	3.02	99	2.82	92	--	3H	1W	
80.77	83.82	3.05	2.99	98	1.70	56	--	3H	1W	
83.82	86.87	3.05	2.94	96	1.70	56	--	3H	1W	
86.87	89.92	3.05	3.05	100	2.65	87	--	4H	1W	
89.92	92.96	3.04	3	99	2.08	68	--	4H	1W	
92.96	96.01	3.05	3.05	100	2.12	70	--	3H	1W	
96.01	99.06	3.05	3.05	100	0.89	29	--	2H	1W	
99.06	102.11	3.05	2.92	96	1.42	47	--	2H	1W	
102.11	104.85	2.74	2.71	99	2.27	83	--	4H	1W	
104.85	106.68	1.83	1.71	93	1.61	88	--	4H	1W	
106.68	109.73	3.05	3.01	99	1.35	44	--	4H	1W	
109.73	112.78	3.05	2.95	97	2.63	86	--	3H	1W	
112.78	115.82	3.04	2.87	94	2.70	89	--	3H	1W	
115.82	117.35	1.53	1.53	100	1.11	73	--	3H	1W	
117.35	120.40	3.05	3.05	100	2.51	82	--	4H	1W	
120.40	123.44	3.04	3.04	100	1.90	63	--	4H	1W	
123.44	126.49	3.05	3.05	100	2.69	88	--	4H	1W	
126.49	129.54	3.05	2.98	98	2.67	88	--	4H	1W	
129.54	132.59	3.05	2.97	97	2.68	88	--	4H	1W	
132.59	135.64	3.05	2.98	98	2.22	73	--	4H	1W	
135.64	138.68	3.04	2.99	98	2.75	90	--	4H	1W	
138.68	141.73	3.05	3.01	99	1.95	64	--	4H	1W	
141.73	144.78	3.05	2.92	96	1.66	54	--	3H	1W	
144.78	147.83	3.05	2.99	98	2.51	82	--	3H	1W	
147.83	150.88	3.05	2.92	96	2.47	81	--	3H	1W	
150.88	153.92	3.04	2.99	98	2.55	84	--	4H	1W	
153.92	156.97	3.05	3.01	99	2.38	78	--	4H	1W	
156.97	160.02	3.05	2.96	97	1.16	38	--	3H	1W	
160.02	163.07	3.05	3.05	100	0.80	26	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
163.07	166.12	3.05	3.05	100	0.10	3	--	3H	1W	
166.12	169.16	3.04	2.95	97	1.07	35	--	3H	1W	
169.16	172.21	3.05	2.95	97	0.98	32	--	3H	1W	
172.21	175.26	3.05	3.05	100	2.15	70	--	4H	1W	
175.26	178.31	3.05	3.05	100	0.58	19	--	3H	1W	
178.31	181.36	3.05	3.02	99	1.75	57	--	4H	1W	
181.36	184.40	3.04	2.95	97	0.89	29	--	4H	1W	
184.40	187.45	3.05	3.05	100	1.40	46	--	4H	1W	
187.45	190.50	3.05	3.05	100	2.61	86	--	4H	1W	
190.50	192.02	1.52	1.52	100	1.48	97	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	highly fractured
2	0	OVB	highly fractured
3	0	GRD	highly fractured
3	0	OVB	highly fractured
4	0	GRD	highly fractured
5	0	GRD	highly fractured
6	0	QFP	highly fractured
7	0.142	QFP	
8	0.395	QFP	
9	0.183	QFP	
10	0.119	QFP	
11	0.239	QFP	
12	0.208	QFP	
13	0.223	QFP	
14	0.236	QFP	
15	0.194	QFP	
16	0.403	QFP	
17	0.248	QFP	
18	0.205	QFP	
19	0.157	QFP	
20	0.194	QFP	
21	0.184	QFP	
22	0.283	QFP	
23	0.629	GRD	
24	0.152	GRD	
25	0.158	QFP	
26	0.118	QFP	
27	0.108	QFP	
28	0.112	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.083	QFP	
30	0.228	QFP	
30	0.228	QFP	
31	0.099	QFP	
32	0.233	GRD	
33	0.548	GRD	
34	0.724	GRD	
35	0.157	GRD	
36	0.631	GRD	
37	0.316	GRD	
38	0.177	GRD	
39	0.101	QFP	
40	0.113	QFP	
41	0.154	QFP	
42	0.289	QFP	
43	0.072	QFP	
44	0.112	QFP	
45	0.102	QFP	
46	0.257	GRD	
47	0.242	GRD	
48	0.293	GRD	
49	0.278	GRD	
49	0.278	GRD	
50	0.301	GRD	
51	0.249	GRD	
52	0.565	QFP	
53	0.414	QFP	
54	0.586	QFP	
55	0.29	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	0.268	GRD	
57	0.535	GRD	
58	0.202	QFP	
59	0.594	GRD	
60	0.407	GRD	
61	0.927	QFP	
61	0.927	GRD	
62	0.499	QFP	
63	0.222	QFP	
64	0.269	QFP	
65	0.195	QFP	
66	0.609	QFP	
67	0.28	QFP	
68	0.229	QFP	
69	0.388	QFP	
70	0.316	QFP	
71	0.239	QFP	
72	0.282	GRD	
73	0.33	GRD	
74	0.269	GRD	
75	0.248	GRD	
76	0.106	GRD	
77	0.385	GRD	
78	0.462	GRD	
79	0.559	GRD	
80	0.746	GRD	
81	0.297	GRD	
82	0.228	QFP	
83	0.124	QFP	
84	0.274	QFP	
85	0.302	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
86	0.251	GRD	
87	0.274	GRD	
88	0.373	GRD	
89	0.274	GRD	
90	0.422	GRD	
91	3.348	GRD	
92	5.643	GRD	
93	1.349	GRD	
94	0.734	GRD	
95	0.7	GRD	
96	0.288	GRD	
97	0.41	GRD	
98	0.123	VEN	
99	0.142	GRD	
100	0.184	VEN	
100	0.184	GRD	
101	0.338	GRD	
102	4.771	GRD	
103	0.138	GRD	
104	7.349	GRD	
105	0.499	GRD	
105	0.499	GRD	
106	1.555	GRD	
107	0.277	GRD	
108	2.02	GRD	
109	0.689	GRD	
110	0.506	GRD	
111	0.55	GRD	
112	0.332	GRD	
113	2.508	GRD	
114	0.18	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
115	0.724	GRD	
116	24.23	GRD	
117	2.528	GRD	
118	1.643	GRD	
118	1.643	GRD	
119	0.541	GRD	
119	0.541	GRD	
120	3.759	GRD	
121	21.88	GRD	
122	14.88	GRD	
123	14	GRD	
124	20.42	GRD	
124	20.42	GRD	
125	0.408	GRD	
126	13.08	GRD	
127	4.126	GRD	
128	9.969	GRD	
129	0.401	GRD	
130	0.296	GRD	
131	5.665	GRD	
132	1.894	GRD	
133	20.86	GRD	
134	0.773	GRD	
135	18.42	GRD	
136	9.146	GRD	
136	9.146	GRD	
137	1.252	GRD	
138	0.581	GRD	
139	0.203	GRD	
140	0.096	GRD	
141	0.352	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
142	0.913	GRD	
143	5.129	GRD	
144	0.48	GRD	
145	1.742	GRD	
146	0.238	GRD	
147	0.242	GRD	
148	0.2	GRD	
149	0.289	GRD	
150	0.451	GRD	
151	11.05	GRD	
152	11.65	GRD	
153	4.617	GRD	
154	0.326	GRD	
155	8.568	GRD	
156	4.975	GRD	
157	0.711	GRD	
158	0.354	GRD	
159	0.299	GRD	
160	0.318	GRD	
161	0.282	BXA	
162	0.273	BXA	
163	0.324	QFP	
164	0.169	GRD	
165	0.539	GRD	
166	0.401	GRD	
167	2.335	GRD	
168	0.544	GRD	
169	0.118	GRD	
170	0.303	GRD	
170	0.303	GRD	
171	0.275	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
172	9.871	GRD	
172	9.871	GRD	
173	11.79	GRD	
174	0.441	GRD	
174	0.441	GRD	
175	0.471	GRD	
176	0.453	GRD	
177	0.337	GRD	
178	0.283	GRD	
179	0.665	GRD	
180	0.545	GRD	
181	0.223	GRD	
182	0.271	GRD	
183	0.41	QFP	
184	0.339	QFP	
185	0.428	QFP	
186	0.438	GRD	
187	0.348	GRD	
188	2.576	GRD	
189	8.8	GRD	
190	4.194	GRD	
191	17.67	GRD	
192	17.23	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-452

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295421	☐	19-079	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599224	☐	19-049	high grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599220	☐	19-049	high grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295467	☐	19-081	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295300	☐	19-075	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295428	☐	19-079	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295407	☐	19-079	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295395	☐	19-078	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295386	☐	19-078	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295374	☐	19-078	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295355	☐	19-076	low grde	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295334	☐	19-076	low grde		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295328	☐	19-076	low grde	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295313	☐	19-075	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295306	☐	19-075	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295454	☐	19-081	low grade	ME-6	☐	☐	☐
1.52	3.02	1.50	OVB, OVB	1.19	79	K295290	☐	19-075	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
3.02	4.52	1.50	GRD	0.92	61	K295291	☐	19-075	low grade		☐	☐	☐
4.52	6.02	1.50	GRD	1.23	82	K295292	☐	19-075	low grade		☐	☐	☐
6.02	7.52	1.50	QFP	1.40	93	K295293	☐	19-075	low grade		☐	☐	☐
6.02	7.52	1.50	QFP	1.40	93	K295294	☐	19-075	low grade		☐	☑	☐
7.52	9.02	1.50	QFP	1.50	100	K295295	☐	19-075	low grade		☐	☐	☐
9.02	10.65	1.63	QFP	1.50	92	K295296	☐	19-075	low grade		☐	☐	☐
10.65	12.15	1.50	QFP	1.50	100	K295297	☐	19-075	low grade		☐	☐	☐
12.15	13.72	1.57	QFP	1.55	99	K295298	☐	19-075	low grade		☐	☐	☐
13.72	15.24	1.52	QFP	1.50	99	K295299	☐	19-075	low grade		☐	☐	☐
15.24	16.74	1.50	QFP	1.50	100	K295301	☐	19-075	low grade		☐	☐	☐
16.74	18.29	1.55	QFP	1.55	100	K295302	☐	19-075	low grade		☐	☐	☐
18.29	19.80	1.51	QFP	1.50	99	K295303	☐	19-075	low grade		☐	☐	☐
19.80	21.34	1.54	QFP	1.54	100	K295304	☐	19-075	low grade		☐	☐	☐
21.34	22.85	1.51	QFP	1.50	99	K295305	☐	19-075	low grade		☐	☐	☐
22.85	23.75	0.90	GRD	0.90	100	K295307	☐	19-075	low grade		☐	☐	☐
23.75	24.50	0.75	GRD	0.75	100	K295308	☐	19-075	low grade		☐	☐	☐
24.50	26.00	1.50	GRD	1.50	100	K295309	☐	19-075	low grade		☐	☐	☐
26.00	27.50	1.50	QFP	1.50	100	K295310	☐	19-075	low grade		☐	☐	☐
27.50	29.00	1.50	QFP	1.50	100	K295311	☐	19-075	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
29.00	30.50	1.50	QFP	1.50	100	K295312	☐	19-075	low grade		☐	☐	☐
30.50	31.87	1.37	QFP	0.13	9	K295314	☐	19-075	low grade		☐	☐	☐
31.87	32.40	0.53	GRD, QFP	0.50	94	K295315	☐	19-075	low grade		☐	☐	☐
32.40	33.25	0.85	GRD	0.85	100	K295316	☐	19-075	low grade		☐	☐	☐
33.25	34.25	1.00	GRD, GRD	1.00	100	K295317	☐	19-075	low grade		☐	☐	☐
34.25	35.25	1.00	GRD	1.00	100	K295318	☐	19-075	low grade		☐	☐	☐
35.25	36.48	1.23	GRD	1.23	100	K295319	☐	19-075	low grade		☐	☐	☐
36.48	37.73	1.25	GRD	1.23	98	K295320	☐	19-075	low grade		☐	☐	☐
37.73	38.73	1.00	GRD	1.00	100	K295321	☐	19-076	low grde		☐	☐	☐
38.73	40.23	1.50	FLT	1.50	100	K295322	☐	19-076	low grde		☐	☐	☐
40.23	41.73	1.50	QFP	1.50	100	K295323	☐	19-076	low grde		☐	☐	☐
41.73	43.23	1.50	QFP	1.50	100	K295324	☐	19-076	low grde		☐	☐	☐
43.23	44.73	1.50	QFP	1.50	100	K295325	☐	19-076	low grde		☐	☐	☐
44.73	45.75	1.02	QFP	1.02	100	K295326	☐	19-076	low grde		☐	☐	☐
45.75	47.24	1.49	QFP, GRD	1.48	99	K295327	☐	19-076	low grde		☐	☐	☐
47.24	48.24	1.00	GRD	1.00	100	K295329	☐	19-076	low grde		☐	☐	☐
48.24	49.29	1.05	GRD	1.05	100	K295330	☐	19-076	low grde		☐	☐	☐
49.29	49.75	0.46	QFP, GRD	0.46	100	K295331	☐	19-076	low grde		☐	☐	☐
49.75	51.20	1.45	QFP, GRD	1.35	93	K295332	☐	19-076	low grde		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
51.20	52.22	1.02	QFP, GRD	1.01	99	K295333	☐	19-076	low grde		☐	☐	☐
52.22	53.20	0.98	QFP	0.91	93	K295335	☐	19-076	low grde		☐	☐	☐
53.20	53.90	0.70	GRD, QFP	0.69	99	K295336	☐	19-076	low grde		☐	☐	☐
53.90	55.50	1.60	GRD, QFP	1.50	94	K295337	☐	19-076	low grde		☐	☐	☐
55.50	57.00	1.50	GRD	1.48	99	K295338	☐	19-076	low grde		☐	☐	☐
57.00	58.40	1.40	GRD	1.38	99	K295339	☐	19-076	low grde		☐	☐	☐
58.40	59.75	1.35	QFP	1.25	93	K295340	☐	19-076	low grde		☐	☐	☐
58.40	59.75	1.35	QFP	1.25	93	K295341	☐	19-076	low grde		☐	☐	☑
59.75	61.00	1.25	GRD	1.24	99	K295342	☐	19-076	low grde		☐	☐	☐
61.00	61.88	0.88	QFP, GRD	0.79	90	K295343	☐	19-076	low grde		☐	☐	☐
61.88	63.10	1.22	QFP	1.19	98	K295344	☐	19-076	low grde		☐	☐	☐
63.10	64.50	1.40	QFP	1.38	99	K295345	☐	19-076	low grde		☐	☐	☐
64.50	66.00	1.50	QFP	1.50	100	K295346	☐	19-076	low grde		☐	☐	☐
66.00	67.50	1.50	QFP	1.48	99	K295347	☐	19-076	low grde		☐	☐	☐
66.00	67.50	1.50	QFP	1.48	99	K295348	☐	19-076	low grde		☐	☑	☐
67.50	69.00	1.50	QFP	1.49	99	K295349	☐	19-076	low grde		☐	☐	☐
69.00	70.50	1.50	QFP	1.50	100	K295350	☐	19-076	low grde		☐	☐	☐
70.50	71.28	0.78	QFP	0.78	100	K295351	☐	19-076	low grde		☐	☐	☐
71.28	72.08	0.80	QFP	0.80	100	K295352	☐	19-076	low grde		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
72.08	73.15	1.07	GRD	1.07	100	K295353	☐	19-076	low grde		☐	☐	☐
73.15	73.88	0.73	GRD	0.72	99	K295354	☐	19-076	low grde		☐	☐	☐
73.88	74.86	0.98	GRD	0.88	90	K295356	☐	19-076	low grde		☐	☐	☐
74.86	75.53	0.67	GRD, GRD	0.62	93	K295357	☐	19-076	low grde		☐	☐	☐
75.53	76.81	1.28	GRD	1.25	98	K295358	☐	19-076	low grde		☐	☐	☐
76.81	78.00	1.19	GRD	1.19	100	K295359	☐	19-076	low grde		☐	☐	☐
78.00	78.68	0.68	GRD	0.68	100	K295360	☐	19-076	low grde		☐	☐	☐
78.68	80.00	1.32	GRD	1.31	99	K295361	☐	19-078	low grade		☐	☐	☐
80.00	81.25	1.25	GRD	1.25	100	K295362	☐	19-078	low grade		☐	☐	☐
81.25	82.75	1.50	GRD	1.50	100	K295363	☐	19-078	low grade		☐	☐	☐
82.75	84.08	1.33	QFP	1.32	99	K295364	☐	19-078	low grade		☐	☐	☐
84.08	85.13	1.05	QFP	1.05	100	K295365	☐	19-078	low grade		☐	☐	☐
85.13	86.17	1.04	GRD	1.00	96	K295366	☐	19-078	low grade		☐	☐	☐
85.13	86.17	1.04	GRD	1.00	96	K295367	☐	19-078	low grade		☐	☑	☐
86.17	87.36	1.19	GRD	1.15	97	K295368	☐	19-078	low grade		☐	☐	☐
87.36	88.57	1.21	GRD	1.20	99	K295369	☐	19-078	low grade		☐	☐	☐
88.57	90.00	1.43	GRD	1.40	98	K295370	☐	19-078	low grade		☐	☐	☐
90.00	91.50	1.50	GRD	1.50	100	K295371	☐	19-078	low grade		☐	☐	☐
91.50	92.90	1.40	GRD	1.35	96	K295372	☐	19-078	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
92.90	93.90	1.00	GRD	1.00	100	K295373	☐	19-078	low grade		☐	☐	☐
93.90	94.95	1.05	GRD, GRD	1.05	100	K295375	☐	19-078	low grade		☐	☐	☐
94.95	95.95	1.00	GRD	1.00	100	K295376	☐	19-078	low grade		☐	☐	☐
95.95	96.60	0.65	GRD	0.65	100	K295377	☐	19-078	low grade		☐	☐	☐
96.60	97.55	0.95	GRD, GRD	0.95	100	W599219	☐	19-049	high grade		☐	☐	☐
97.55	98.50	0.95	GRD	0.95	100	W599221	☐	19-049	high grade		☐	☐	☐
98.50	99.85	1.35	GRD	1.35	100	W599222	☐	19-049	high grade		☐	☐	☐
99.85	100.40	0.55	GRD	0.55	100	W599223	☐	19-049	high grade		☐	☐	☐
100.40	100.90	0.50	GRD	0.50	100	K295378	☐	19-078	low grade		☐	☐	☐
100.90	101.65	0.75	GRD, GRD	0.70	93	K295379	☐	19-078	low grade		☐	☐	☐
101.65	103.00	1.35	GRD	1.35	100	K295380	☐	19-078	low grade		☐	☐	☐
101.65	103.00	1.35	GRD	1.35	100	K295381	☐	19-078	low grade		☐	☐	☑
103.00	104.50	1.50	GRD	1.50	100	K295382	☐	19-078	low grade		☐	☐	☐
104.50	106.00	1.50	GRD	1.50	100	K295383	☐	19-078	low grade		☐	☐	☐
106.00	107.50	1.50	GRD	1.50	100	K295384	☐	19-078	low grade		☐	☐	☐
107.50	109.00	1.50	GRD	1.50	100	K295385	☐	19-078	low grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.50	100	K295387	☐	19-078	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.50	100	K295388	☐	19-078	low grade		☐	☐	☐
112.00	112.30	0.30	GRD	0.30	100	K295389	☐	19-078	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
112.30	113.30	1.00	GRD	1.00	100	K295390	☐	19-078	low grade		☐	☐	☐
113.30	114.50	1.20	GRD	1.16	97	K295391	☐	19-078	low grade		☐	☐	☐
114.50	116.00	1.50	GRD	1.45	97	K295392	☐	19-078	low grade		☐	☐	☐
116.00	117.50	1.50	GRD	1.50	100	K295393	☐	19-078	low grade		☐	☐	☐
117.50	119.00	1.50	GRD	1.50	100	K295394	☐	19-078	low grade		☐	☐	☐
119.00	120.50	1.50	GRD, GRD	1.50	100	K295396	☐	19-078	low grade		☐	☐	☐
120.50	122.00	1.50	GRD	1.50	100	K295397	☐	19-078	low grade		☐	☐	☐
122.00	123.50	1.50	GRD	1.50	100	K295398	☐	19-078	low grade		☐	☐	☐
123.50	125.00	1.50	GRD	1.50	100	K295399	☐	19-078	low grade		☐	☐	☐
125.00	126.50	1.50	GRD	1.50	100	K295400	☐	19-078	low grade		☐	☐	☐
126.50	128.00	1.50	GRD	1.50	100	K295401	☐	19-079	low grade		☐	☐	☐
128.00	129.50	1.50	GRD	1.45	97	K295402	☐	19-079	low grade		☐	☐	☐
129.50	131.00	1.50	GRD	1.50	100	K295403	☐	19-079	low grade		☐	☐	☐
131.00	132.50	1.50	GRD	1.50	100	K295404	☐	19-079	low grade		☐	☐	☐
132.50	134.00	1.50	GRD	1.50	100	K295405	☐	19-079	low grade		☐	☐	☐
134.00	135.50	1.50	GRD	1.50	100	K295406	☐	19-079	low grade		☐	☐	☐
135.50	136.70	1.20	GRD	1.20	100	K295408	☐	19-079	low grade		☐	☐	☐
136.70	137.70	1.00	GRD	1.00	100	K295409	☐	19-079	low grade		☐	☐	☐
137.70	138.68	0.98	GRD	0.85	87	K295410	☐	19-079	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
138.68	139.75	1.07	GRD	1.03	96	K295411	☐	19-079	low grade		☐	☐	☐
139.75	140.75	1.00	GRD	1.00	100	K295412	☐	19-079	low grade		☐	☐	☐
140.75	142.00	1.25	GRD	1.24	99	K295413	☐	19-079	low grade		☐	☐	☐
140.75	142.00	1.25	GRD	1.24	99	K295414	☐	19-079	low grade		☐	☑	☐
142.00	143.50	1.50	GRD	1.50	100	K295415	☐	19-079	low grade		☐	☐	☐
143.50	144.00	0.50	GRD	0.50	100	K295416	☐	19-079	low grade		☐	☐	☐
144.00	145.50	1.50	GRD	1.50	100	K295417	☐	19-079	low grade		☐	☐	☐
145.50	146.00	0.50	GRD	0.50	100	K295418	☐	19-079	low grade		☐	☐	☐
146.00	147.50	1.50	GRD	1.50	100	K295419	☐	19-079	low grade		☐	☐	☐
147.50	148.29	0.79	GRD	0.79	100	K295420	☐	19-079	low grade		☐	☐	☐
148.29	149.51	1.22	GRD	1.22	100	K295422	☐	19-079	low grade		☐	☐	☐
149.51	150.14	0.63	GRD	0.63	100	K295470	☐	19-081	low grade		☐	☐	☐
150.14	150.72	0.58	GRD	0.53	91	K295423	☐	19-079	low grade		☐	☐	☐
150.72	152.22	1.50	GRD	1.50	100	K295424	☐	19-079	low grade		☐	☐	☐
152.22	152.89	0.67	GRD	0.67	100	K295425	☐	19-079	low grade		☐	☐	☐
152.89	154.30	1.41	GRD	1.40	99	K295426	☐	19-079	low grade		☐	☐	☐
154.30	155.80	1.50	GRD	1.50	100	K295427	☐	19-079	low grade		☐	☐	☐
155.80	157.22	1.42	GRD	1.42	100	K295429	☐	19-079	low grade		☐	☐	☐
157.22	158.19	0.97	GRD	0.97	100	K295430	☐	19-079	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
158.19	158.79	0.60	GRD	0.60	100	K295471	☐	19-081	low grade		☐	☐	☐
158.79	159.25	0.46	GRD	0.46	100	K295431	☐	19-079	low grade		☐	☐	☐
159.25	160.39	1.14	GRD	1.14	100	K295432	☐	19-079	low grade		☐	☐	☐
160.39	161.14	0.75	GRD	0.75	100	K295433	☐	19-079	low grade		☐	☐	☐
160.39	161.14	0.75	GRD	0.75	100	K295434	☐	19-079	low grade		☐	☐	☑
161.14	161.91	0.77	QFP, BXA	0.77	100	K295435	☐	19-079	low grade		☐	☐	☐
161.91	162.29	0.38	QFP	0.33	87	K295436	☐	19-079	low grade		☐	☐	☐
162.29	163.15	0.86	BXA, QFP	0.86	100	K295437	☐	19-079	low grade		☐	☐	☐
163.15	164.64	1.49	GRD	1.49	100	K295438	☐	19-079	low grade		☐	☐	☐
164.64	165.15	0.51	GRD	0.51	100	K295439	☐	19-079	low grade		☐	☐	☐
165.15	165.90	0.75	GRD	0.75	100	K295440	☐	19-079	low grade		☐	☐	☐
165.90	167.00	1.10	GRD, GRD	1.10	100	K295441	☐	19-081	low grade		☐	☐	☐
167.00	168.35	1.35	GRD	1.35	100	K295442	☐	19-081	low grade		☐	☐	☐
168.35	169.60	1.25	GRD	1.20	96	K295443	☐	19-081	low grade		☐	☐	☐
169.60	170.00	0.40	GRD	0.40	100	K295444	☐	19-081	low grade		☐	☐	☐
170.00	171.42	1.42	GRD, GRD	1.42	100	K295445	☐	19-081	low grade		☐	☐	☐
171.42	172.86	1.44	GRD, GRD	1.44	100	K295446	☐	19-081	low grade		☐	☐	☐
171.42	172.86	1.44	GRD, GRD	1.44	100	K295447	☐	19-081	low grade		☐	☐	☑
172.86	173.96	1.10	GRD	1.10	100	K295448	☐	19-081	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
173.96	174.92	0.96	GRD	0.96	100	K295449	☐	19-081	low grade		☐	☐	☐
174.92	176.00	1.08	GRD	1.08	100	K295450	☐	19-081	low grade		☐	☐	☐
176.00	176.70	0.70	GRD	0.70	100	K295451	☐	19-081	low grade		☐	☐	☐
176.70	177.57	0.87	GRD	0.80	92	K295452	☐	19-081	low grade		☐	☐	☐
177.57	178.65	1.08	GRD	1.00	93	K295453	☐	19-081	low grade		☐	☐	☐
178.65	180.00	1.35	GRD	1.35	100	K295455	☐	19-081	low grade		☐	☐	☐
180.00	181.45	1.45	GRD	1.10	76	K295456	☐	19-081	low grade		☐	☐	☐
181.45	182.15	0.70	GRD	0.70	100	K295457	☐	19-081	low grade		☐	☐	☐
182.15	183.63	1.48	GRD	1.48	100	K295458	☐	19-081	low grade		☐	☐	☐
183.63	184.40	0.77	QFP	0.76	99	K295459	☐	19-081	low grade		☐	☐	☐
183.63	184.40	0.77	QFP	0.70	91	K295460	☐	19-081	low grade		☐	☑	☐
184.40	185.22	0.82	QFP	0.77	94	K295461	☐	19-081	low grade		☐	☐	☐
185.22	186.22	1.00	GRD, QFP	0.99	99	K295462	☐	19-081	low grade		☐	☐	☐
186.22	187.00	0.78	GRD	0.78	100	K295463	☐	19-081	low grade		☐	☐	☐
187.00	187.65	0.65	GRD	0.65	100	K295464	☐	19-081	low grade		☐	☐	☐
187.65	189.15	1.50	GRD	1.50	100	K295465	☐	19-081	low grade		☐	☐	☐
189.15	189.80	0.65	GRD	0.65	100	K295466	☐	19-081	low grade		☐	☐	☐
189.80	190.50	0.70	GRD	0.70	100	K295468	☐	19-081	low grade		☐	☐	☐
190.50	192.02	1.52	GRD	1.50	99	K295469	☐	19-081	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-075	K295300	0.00	0.00	0.28	590	☐	☐	☐	☑ ME-6	ME-6
19-075	K295306	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-075	K295313	0.00	0.00	0.30	620	☐	☐	☐	☑ ME-6	ME-6 STD
19-079	K295407	0.00	0.00	1.71	270	☐	☐	☐	☑ KL-STD6	STD-KL6
19-079	K295421	0.00	0.00	0.00	40	☐	☐	☑	☐	BLANK
19-079	K295428	0.00	0.00	0.28	580	☐	☐	☐	☑ ME-6	
19-076	K295328	0.00	0.00	0.29	590	☐	☐	☐	☑ ME-6	ME-6
19-076	K295334	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-076	K295355	0.00	0.00	1.80	490	☐	☐	☐	☑ KL-STD6	
19-049	W599220	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-049	W599224	0.00	0.00	1.41	120	☐	☐	☐	☑ ME-16	ME-16 STD
19-081	K295454	0.00	0.00	0.29	560	☐	☐	☐	☑ ME-6	
19-081	K295467	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-078	K295374	0.00	0.00	0.29	460	☐	☐	☐	☑ ME-6	ME-6

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-078	K295386	0.00	0.00	0.28	560	☐	☐	☐	☑ ME-6	ME-6
19-078	K295395	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
19-075	K295290	1.52	3.02	0.08	4480	☐	☐	☐	☐	
19-075	K295291	3.02	4.52	0.08	3480	☐	☐	☐	☐	
19-075	K295292	4.52	6.02	0.19	1230	☐	☐	☐	☐	
19-075	K295293	6.02	7.52	0.17	1030	☐	☐	☐	☐	
19-075	K295294	6.02	7.52	0.12	930	☑	☐	☐	☐	1/4 DUP
19-075	K295295	7.52	9.02	0.05	1340	☐	☐	☐	☐	
19-075	K295296	9.02	10.65	0.03	2190	☐	☐	☐	☐	
19-075	K295297	10.65	12.15	0.03	1030	☐	☐	☐	☐	
19-075	K295298	12.15	13.72	0.03	1960	☐	☐	☐	☐	
19-075	K295299	13.72	15.24	0.00	1500	☐	☐	☐	☐	
19-075	K295301	15.24	16.74	0.00	1040	☐	☐	☐	☐	
19-075	K295302	16.74	18.29	0.03	2630	☐	☐	☐	☐	
19-075	K295303	18.29	19.80	0.02	1760	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-075	K295304	19.80	21.34	0.01	3110	☐	☐	☐	☐	
19-075	K295305	21.34	22.85	0.12	1670	☐	☐	☐	☐	
19-075	K295307	22.85	23.75	0.03	1170	☐	☐	☐	☐	
19-075	K295308	23.75	24.50	0.29	700	☐	☐	☐	☐	
19-075	K295309	24.50	26.00	0.79	420	☐	☐	☐	☐	
19-075	K295310	26.00	27.50	0.01	600	☐	☐	☐	☐	
19-075	K295311	27.50	29.00	0.00	460	☐	☐	☐	☐	
19-075	K295312	29.00	30.50	0.00	990	☐	☐	☐	☐	
19-075	K295314	30.50	31.87	0.01	660	☐	☐	☐	☐	
19-075	K295315	31.87	32.40	4.38	480	☐	☐	☐	☐	
19-075	K295316	32.40	33.25	0.60	790	☐	☐	☐	☐	
19-075	K295317	33.25	34.25	0.66	810	☐	☐	☐	☐	
19-075	K295318	34.25	35.25	0.34	990	☐	☐	☐	☐	
19-075	K295319	35.25	36.48	0.06	1240	☐	☐	☐	☐	
19-075	K295320	36.48	37.73	0.03	910	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-076	K295321	37.73	38.73	0.12	730	☐	☐	☐	☐	
19-076	K295322	38.73	40.23	0.00	380	☐	☐	☐	☐	
19-076	K295323	40.23	41.73	0.00	390	☐	☐	☐	☐	
19-076	K295324	41.73	43.23	0.00	310	☐	☐	☐	☐	
19-076	K295325	43.23	44.73	0.00	590	☐	☐	☐	☐	
19-076	K295326	44.73	45.75	0.00	1520	☐	☐	☐	☐	
19-076	K295327	45.75	47.24	0.04	1220	☐	☐	☐	☐	
19-076	K295329	47.24	48.24	0.04	1060	☐	☐	☐	☐	
19-076	K295330	48.24	49.29	0.15	690	☐	☐	☐	☐	
19-076	K295331	49.29	49.75	0.03	1210	☐	☐	☐	☐	
19-076	K295332	49.75	51.20	0.07	1070	☐	☐	☐	☐	
19-076	K295333	51.20	52.22	0.00	2970	☐	☐	☐	☐	
19-076	K295335	52.22	53.20	0.00	2720	☐	☐	☐	☐	
19-076	K295336	53.20	53.90	0.02	3150	☐	☐	☐	☐	
19-076	K295337	53.90	55.50	0.00	1350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-076	K295338	55.50	57.00	0.04	1450	☐	☐	☐	☐	
19-076	K295339	57.00	58.40	0.07	1140	☐	☐	☐	☐	
19-076	K295340	58.40	59.75	0.34	700	☐	☐	☐	☐	
19-076	K295341	58.40	59.75	0.29	700	☐	☑	☐	☐	
19-076	K295342	59.75	61.00	0.08	900	☐	☐	☐	☐	
19-076	K295343	61.00	61.88	0.05	1020	☐	☐	☐	☐	
19-076	K295344	61.88	63.10	0.00	2660	☐	☐	☐	☐	
19-076	K295345	63.10	64.50	0.00	2260	☐	☐	☐	☐	
19-076	K295346	64.50	66.00	0.01	1880	☐	☐	☐	☐	
19-076	K295347	66.00	67.50	0.01	1690	☐	☐	☐	☐	
19-076	K295348	66.00	67.50	0.01	2400	☑	☐	☐	☐	
19-076	K295349	67.50	69.00	0.01	1850	☐	☐	☐	☐	
19-076	K295350	69.00	70.50	0.02	2220	☐	☐	☐	☐	
19-076	K295351	70.50	71.28	0.02	1120	☐	☐	☐	☐	
19-076	K295352	71.28	72.08	0.20	790	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-076	K295353	72.08	73.15	0.10	1130	☐	☐	☐	☐	
19-076	K295354	73.15	73.88	0.10	770	☐	☐	☐	☐	
19-076	K295356	73.88	74.86	0.16	1580	☐	☐	☐	☐	
19-076	K295357	74.86	75.53	0.08	480	☐	☐	☐	☐	
19-076	K295358	75.53	76.81	0.18	610	☐	☐	☐	☐	
19-076	K295359	76.81	78.00	0.33	670	☐	☐	☐	☐	
19-076	K295360	78.00	78.68	0.07	1970	☐	☐	☐	☐	
19-078	K295361	78.68	80.00	0.04	2700	☐	☐	☐	☐	
19-078	K295362	80.00	81.25	0.07	1630	☐	☐	☐	☐	
19-078	K295363	81.25	82.75	0.00	2610	☐	☐	☐	☐	
19-078	K295364	82.75	84.08	0.00	2840	☐	☐	☐	☐	
19-078	K295365	84.08	85.13	0.06	1960	☐	☐	☐	☐	
19-078	K295366	85.13	86.17	0.16	1220	☐	☐	☐	☐	
19-078	K295367	85.13	86.17	0.12	1140	☑	☐	☐	☐	
19-078	K295368	86.17	87.36	0.42	360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-078	K295369	87.36	88.57	0.09	2160	☐	☐	☐	☐	
19-078	K295370	88.57	90.00	0.02	2390	☐	☐	☐	☐	
19-078	K295371	90.00	91.50	0.02	2510	☐	☐	☐	☐	
19-078	K295372	91.50	92.90	0.02	3000	☐	☐	☐	☐	
19-078	K295373	92.90	93.90	0.02	2260	☐	☐	☐	☐	
19-078	K295375	93.90	94.95	0.05	1760	☐	☐	☐	☐	
19-078	K295376	94.95	95.95	0.02	2340	☐	☐	☐	☐	
19-078	K295377	95.95	96.60	0.34	120	☐	☐	☐	☐	
19-049	W599219	96.60	97.55	1.48	520	☐	☐	☐	☐	HIGH GRADE
19-049	W599221	97.55	98.50	1.52	670	☐	☐	☐	☐	high grade
19-049	W599222	98.50	99.85	0.14	80	☐	☐	☐	☐	high grade
19-049	W599223	99.85	100.40	2.02	460	☐	☐	☐	☐	high grade
19-078	K295378	100.40	100.90	0.16	130	☐	☐	☐	☐	
19-078	K295379	100.90	101.65	0.07	740	☐	☐	☐	☐	
19-078	K295380	101.65	103.00	0.02	2480	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-078	K295381	101.65	103.00	0.02	2380	☐	☑	☐	☐	COARSE DUP
19-078	K295382	103.00	104.50	0.01	2410	☐	☐	☐	☐	
19-078	K295383	104.50	106.00	0.01	2750	☐	☐	☐	☐	
19-078	K295384	106.00	107.50	0.02	2820	☐	☐	☐	☐	
19-078	K295385	107.50	109.00	0.02	2560	☐	☐	☐	☐	
19-078	K295387	109.00	110.50	0.02	2540	☐	☐	☐	☐	
19-078	K295388	110.50	112.00	0.01	2010	☐	☐	☐	☐	
19-078	K295389	112.00	112.30	0.30	150	☐	☐	☐	☐	
19-078	K295390	112.30	113.30	0.03	2640	☐	☐	☐	☐	
19-078	K295391	113.30	114.50	0.02	2190	☐	☐	☐	☐	
19-078	K295392	114.50	116.00	0.03	2480	☐	☐	☐	☐	
19-078	K295393	116.00	117.50	0.01	2370	☐	☐	☐	☐	
19-078	K295394	117.50	119.00	0.04	1920	☐	☐	☐	☐	
19-078	K295396	119.00	120.50	0.04	2290	☐	☐	☐	☐	
19-078	K295397	120.50	122.00	0.02	2490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-078	K295398	122.00	123.50	0.01	2370	☐	☐	☐	☐	
19-078	K295399	123.50	125.00	0.02	2110	☐	☐	☐	☐	
19-078	K295400	125.00	126.50	0.01	2040	☐	☐	☐	☐	
19-079	K295401	126.50	128.00	0.02	2210	☐	☐	☐	☐	
19-079	K295402	128.00	129.50	0.02	1740	☐	☐	☐	☐	
19-079	K295403	129.50	131.00	0.02	2040	☐	☐	☐	☐	
19-079	K295404	131.00	132.50	0.01	2840	☐	☐	☐	☐	
19-079	K295405	132.50	134.00	0.01	2140	☐	☐	☐	☐	
19-079	K295406	134.00	135.50	0.01	2380	☐	☐	☐	☐	
19-079	K295408	135.50	136.70	0.01	2250	☐	☐	☐	☐	
19-079	K295409	136.70	137.70	0.05	2450	☐	☐	☐	☐	
19-079	K295410	137.70	138.68	0.03	1900	☐	☐	☐	☐	
19-079	K295411	138.68	139.75	0.52	500	☐	☐	☐	☐	
19-079	K295412	139.75	140.75	0.01	2070	☐	☐	☐	☐	
19-079	K295413	140.75	142.00	0.02	2100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-079	K295414	140.75	142.00	0.02	2240	☑	☐	☐	☐	1/4 DUP
19-079	K295415	142.00	143.50	0.02	2100	☐	☐	☐	☐	
19-079	K295416	143.50	144.00	0.03	1470	☐	☐	☐	☐	
19-079	K295417	144.00	145.50	0.07	1990	☐	☐	☐	☐	
19-079	K295418	145.50	146.00	0.02	1860	☐	☐	☐	☐	
19-079	K295419	146.00	147.50	0.02	1750	☐	☐	☐	☐	
19-079	K295420	147.50	148.29	0.01	2110	☐	☐	☐	☐	
19-079	K295422	148.29	149.51	0.02	1890	☐	☐	☐	☐	
19-081	K295470	149.51	150.14	0.02	2690	☐	☐	☐	☐	
19-079	K295423	150.14	150.72	0.37	260	☐	☐	☐	☐	
19-079	K295424	150.72	152.22	0.01	2050	☐	☐	☐	☐	
19-079	K295425	152.22	152.89	0.01	2080	☐	☐	☐	☐	
19-079	K295426	152.89	154.30	0.01	2710	☐	☐	☐	☐	
19-079	K295427	154.30	155.80	0.02	2010	☐	☐	☐	☐	
19-079	K295429	155.80	157.22	0.02	1830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-079	K295430	157.22	158.19	0.08	1000	☐	☐	☐	☐	
19-081	K295471	158.19	158.79	0.01	1290	☐	☐	☐	☐	
19-079	K295431	158.79	159.25	2.61	240	☐	☐	☐	☐	
19-079	K295432	159.25	160.39	0.10	1220	☐	☐	☐	☐	
19-079	K295433	160.39	161.14	0.47	430	☐	☐	☐	☐	
19-079	K295434	160.39	161.14	0.48	450	☐	☑	☐	☐	coarse duplicate
19-079	K295435	161.14	161.91	0.02	1840	☐	☐	☐	☐	
19-079	K295436	161.91	162.29	0.05	1070	☐	☐	☐	☐	
19-079	K295437	162.29	163.15	0.13	970	☐	☐	☐	☐	
19-079	K295438	163.15	164.64	0.42	300	☐	☐	☐	☐	
19-079	K295439	164.64	165.15	0.09	1600	☐	☐	☐	☐	
19-079	K295440	165.15	165.90	2.15	110	☐	☐	☐	☐	
19-081	K295441	165.90	167.00	0.01	1540	☐	☐	☐	☐	
19-081	K295442	167.00	168.35	0.02	2150	☐	☐	☐	☐	
19-081	K295443	168.35	169.60	0.10	780	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-081	K295444	169.60	170.00	0.08	1280	☐	☐	☐	☐	
19-081	K295445	170.00	171.42	0.26	250	☐	☐	☐	☐	
19-081	K295446	171.42	172.86	0.09	2320	☐	☐	☐	☐	
19-081	K295447	171.42	172.86	0.09	2300	☐	☑	☐	☐	Coarse duplicate
19-081	K295448	172.86	173.96	0.01	2010	☐	☐	☐	☐	
19-081	K295449	173.96	174.92	0.10	1030	☐	☐	☐	☐	
19-081	K295450	174.92	176.00	0.02	970	☐	☐	☐	☐	
19-081	K295451	176.00	176.70	0.01	2150	☐	☐	☐	☐	
19-081	K295452	176.70	177.57	0.03	2330	☐	☐	☐	☐	
19-081	K295453	177.57	178.65	0.11	190	☐	☐	☐	☐	
19-081	K295455	178.65	180.00	0.01	2520	☐	☐	☐	☐	
19-081	K295456	180.00	181.45	0.14	360	☐	☐	☐	☐	
19-081	K295457	181.45	182.15	0.88	450	☐	☐	☐	☐	
19-081	K295458	182.15	183.63	0.01	1620	☐	☐	☐	☐	
19-081	K295459	183.63	184.40	0.01	1180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-081	K295460	183.63	184.40	0.01	1240	☑	☐	☐	☐	1/4 dup
19-081	K295461	184.40	185.22	0.01	1520	☐	☐	☐	☐	
19-081	K295462	185.22	186.22	0.03	1140	☐	☐	☐	☐	
19-081	K295463	186.22	187.00	0.01	2220	☐	☐	☐	☐	
19-081	K295464	187.00	187.65	0.22	230	☐	☐	☐	☐	
19-081	K295465	187.65	189.15	0.01	2170	☐	☐	☐	☐	
19-081	K295466	189.15	189.80	0.15	550	☐	☐	☐	☐	
19-081	K295468	189.80	190.50	0.00	2210	☐	☐	☐	☐	
19-081	K295469	190.50	192.02	0.01	2220	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
13.00	14.50	DY	37	65	NUL	1	well-oriented feldspr grains within qfp dyke - almost looks like flow banding			
17.00	17.50	FT	42	40	NUL	1	clay altered, brecciated zone within qfp dyke			
21.16	21.20	BX	34	30	NUL	1	small brecciated fracture dense zone within qfp dyke, with quartz carbonate infill and clay alteration			
23.75	24.21	GO	34	60	NUL	1	gouged, faulted granodiorite			
25.58	25.63	VN	37	60	NUL	1	quartz vein with disseminated patchy pyrite			
								Py	0.5	DI
25.63	25.90	FT	42	60	NUL	1	gouged brecciated secion of GRD separating QFP dyke (below) with siliceous grd above			
29.40	30.00	FT	42	20	NUL	1	sharp contact of clay gouged brecciated QFP dyke, brecciated fragments of QFP dyke within gouge have a consistent orientation of 20-30 TCA			
32.12	32.36	VN	37	40	NUL	1	clay altered, weakly gouged quartz vein with semimassive blebby banded galena +- sphalerite, with minor pyrite disseminated throughout.			
								Gn	5	BN
								Py	3	DI
								Sp	3	BN
32.90	33.10	ST		70	NUL	2	two quartz veinlets 1 cm wide, with weak patchy dissemianted pyrite along margin, directly below, from 33.1-33.25 is faulted granodiorite.			
								Py	0.5	DI
33.90	34.07	FT	42	80	NUL	1	gouged fault within altered grd			
34.80	35.75	ST		70	NUL	8	hairline quartz stringers with trace pyrite along margins, weak disseminated pyrite halo around veinlets			
								Py	0.5	DI
38.45	38.78	FT	42	70	NUL	1	gouged fault contact between QFP (below) and grd (above)			
42.00	45.75	FR	5	70	NUL	100	densely spaced rhythmically repeating hairline fractures that all trend 70 TCA within feldspar porphyry dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
47.80	49.00	ST		40	NUL	6	Set of small quartz veinlets with trace pyrite along their margins.			
								Py	0.5	DI
53.25	53.26	FT	42	50	NUL	1	small fault surface separate breccia gouge below and qfp dyke above			
55.50	55.51	FT	42	50	NUL	1	gouged fault zone in qfp dyke			
57.80	58.40	ST		60	NUL	11	densely spaced stockwork quartz stringers in qfp dyke			
61.00	61.01	FT	42	40	NUL	1	contact between qfp dyke below and grd above			
61.20	61.70	ST		40	NUL	6	dense quartz stockrowk stringer zone no sulfides; in qfp dyke			
65.53	65.73	GO	34	70	NUL	1	gouged sectin within qfp dyke			
71.30	71.32	FT	42	70	NUL	1	faulted contact betweengrd and qfp dyke			
74.00	74.50	ST		30	NUL	3	pyrite bearing quartz veinlets (1 cm wide)			
								Py	0.5	DI
77.85	78.00	ST		75	NUL	3	small 2 mm wide sphalerite and pyrite baring quartz veinlets			
								Sp	1	DI
								Py	1	DI
78.15	79.00	ST		50	NUL	8	set of smal stringer quartz seams with trace pyrite			
								Py	0.1	DI
79.20	79.70	ST		60	NUL	5	small stringer seams with trace pyrite			
								Py	0.1	DI
80.40	80.80	ST		40	NUL	5	small stringer seams with trace pyrite			
81.26	81.30	FT	42	50	NUL	1	faulted contact between grd above and qp dyke below			
86.25	86.45	VN	37	70	NUL	1	weakly veined portion of grd with pyrite and sphalerite			
								Sp	0.5	DI
								Py	0.5	DI
94.20	94.60	ST		40	NUL	3	pyrite bearing quartz veinlets			
								Py	0.5	DI
97.73	98.20	VN	37	50	NUL	1	semimassive quartz vein, heavily clay altered. See gen lith for better description			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
100.00	100.40	VN	37	60	NUL	1	phyllic altered granodiorite with semimassive pyrite and galena and sphalerite			
106.68	107.50	ST		50	NUL	3	quartz carbonatae veinlets with weak pyrite mineralization			
								Py	0.5	DI
108.95	108.97	VT	37	80	NUL	1	pyrite bearing quartz veinlet			
								Py	0.5	DI
110.15	110.80	ST		70	NUL	3	quartz veinlets; no sulfide			
112.17	112.20	VT	37	50	NUL	1	pyrite bearing quartz veinlet			
								Py	2	DI
114.00	115.00	ST		60	NUL	3	pyrite bearing quatyz veinlets			
								Py	0.5	DI
118.20	118.50	ST		40	NUL	3	pyrite bearing hairline quartz seams			
								Py	0.5	DI
123.75	124.00	ST		60	NUL	4	pyrite bearing quartz hairline frx			
								Py	0.5	DI
124.30	124.55	FT	42	40	NUL	1	clay altered gouged granodiorite			
								Py	0.1	DI
129.00	129.06	VT	37	40	NUL	2	two small weak pyrite bearing quartz veinlets			
								Py	0.2	DI
134.15	134.20	VT	37	40	NUL	1	small quartz veinlet; no sulfides			
136.20	136.40	ST		40	NUL	6	small pyrite bearing quartz veinlets			
								Py	0.1	DI
138.00	138.50	ST		40	NUL	6	carbonate seams; devoid of sulfide			
139.31	139.50	VN	37	50	NUL	1	weakly developed vein with lots of clay alteration and weak pyrite and galena mineralization			
								Gn	0.5	DI
								Py	1	DI
146.00	146.02	FT	42	40	NUL	1	possible fault surface in propylitic altered granodiorite			
149.17	149.30	ST		70	NUL	2	two 1 cm wide carbonate veins; no sulfdie			
150.14	150.72	ST		70	NUL	3	three small pyrite bearing quartz veinlets			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
158.79	159.25	BX	34	50	NUL	1	small breccia zone with granodiorite clasts within a fine grained black matric with dissemianted pyrite			
								Py	1	DI
160.39	160.78	ST		45	NUL	4	pyrite bearing quartz veinlets			
								Py	0.5	DI
165.30	165.90	ST		70	NUL	3	three small quatrz carbonate veinlets with pyrite and sphalerite			
								Sp	1	BN
								Py	2	DI
168.65	168.85	FT	42	30	NUL	1	faulted zone within propylitic altered granodiorite			
174.30	174.40	BX	34	30	NUL	1	small brecciated granodiorite fault			
175.50	175.65	BX	34	30	NUL	1	silicified propylitic altered brecciated zone in propylitic altered granodiorite			
178.57	178.65	ST		60	NUL	5	pyrite bearing quartz veinlets			
								Py	1	DI
181.70	182.00	BX	34	--	NUL	1	brecciated chaotic siliceous zone with dissemianted pyrite thorughout			
185.30	189.50	ST		80	NUL	6	pyrite bearing quartz veinlets			
								Py	2	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382889	6889024	1438.46	126.49

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-453

CLAIM: YC37991

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 21 - Sep 22, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
6	38.86	-50.2	Reflex
126	39.46	-49.9	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.32	1.32	OVB
1.32	4	2.68	QFP
4	7.77	3.77	QFP
7.77	9.47	1.7	GRD
9.47	9.55	0.08	GRD
9.55	12.38	2.83	GRD
12.38	12.77	0.39	GRD
12.77	13.53	0.76	GRD
13.53	13.77	0.24	GRD
13.77	15.7	1.93	GRD
15.7	17.7	2	GRD
17.7	18.04	0.34	GRD
18.04	21.61	3.57	GRD
21.61	22.13	0.52	GRD
22.13	26.33	4.2	QFP
26.33	26.8	0.47	GRD

SAMPLES	
Numbers:	K295472 to K295589, W599225 to W599232
Total:	126
Batch:	049, 081, 082, 083, 084, 085
Certificates:	WH19251833, WH19251838, WH19251844, WH19251846, WH19255767, WH19255796

COMMENTS

26.8	27.1	0.3	QFP
27.1	28	0.9	GRD
28	30.53	2.53	GRD
30.53	31.54	1.01	BXA
31.54	32.81	1.27	QFP
32.81	33.37	0.56	FLT
33.37	39.8	6.43	QFP
39.8	40.2	0.4	BXA
40.2	43.23	3.03	GRD
43.23	44.4	1.17	GRD
44.4	46.5	2.1	GRD
46.5	46.88	0.38	GRD
46.88	50.1	3.22	GRD
50.1	51.55	1.45	GRD
51.55	52.98	1.43	GRD
52.98	55	2.02	GRD
55	58.75	3.75	GRD
58.75	59.5	0.75	GRD
59.5	63.05	3.55	GRD
63.05	63.3	0.25	GRD
63.3	68.57	5.27	GRD
68.57	68.76	0.19	QFP
68.76	72	3.24	GRD
72	73.15	1.15	GRD
73.15	74.28	1.13	GRD
74.28	76.2	1.92	GRD
76.2	77.28	1.08	GRD
77.28	77.55	0.27	VEN
77.55	77.7	0.15	QFP
77.7	80	2.3	GRD
80	82.24	2.24	GRD
82.24	84.2	1.96	GRD

84.2	84.37	0.17	VEN
84.37	86.2	1.83	GRD
86.2	87.45	1.25	GRD
87.45	88	0.55	GRD
88	89	1	GRD
89	90	1	GRD
90	90.38	0.38	VEN
90.38	93.7	3.32	GRD
93.7	94.23	0.53	GRD
94.23	97	2.77	QFP
97	97.4	0.4	GRD
97.4	97.47	0.07	VEN
97.47	102.34	4.87	GRD
102.34	103	0.66	GRD
103	106.66	3.66	GRD
106.66	106.76	0.1	BXA
106.76	109	2.24	GRD
109	109.42	0.42	GRD
109.42	114.3	4.88	GRD
114.3	116.5	2.2	GRD
116.5	117.35	0.85	GRD
117.35	118.72	1.37	GRD
118.72	120.63	1.91	GRD
120.63	126.49	5.86	GRD

Box Log

KL -19-453

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.32	5.73
2	5.73	9.81
3	9.81	14.12
4	14.12	18.29
5	18.29	22.71
6	22.71	27.05
7	27.05	31.41
8	31.41	35.72
9	35.72	39.8
10	39.8	44.09
11	44.09	48.45
12	48.45	52.98
13	52.98	57.33
14	57.33	61.45
15	61.45	65.82
16	65.82	70.01
17	70.01	74.21
18	74.21	78.7
19	78.7	82.95
20	82.95	87.22
21	87.22	91.26
22	91.26	95.67
23	95.67	100.1
24	100.1	104.46
25	104.46	108.84
26	108.84	112.65
27	112.65	116.71
28	116.71	120.63
29	120.63	125.04
30	125.04	126.49

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-453									
	31.41	12	NTW	BXA	698.1	453	2.06	2.9	
	49.51	10	NTW	GRD	552.6	360.5	1.95	2.9	
	53.96	15	NTW	GRD	1004.8	644.8	2.37	2.8	
	68.16	14	NTW	GRD	787	509.7	1.99	2.8	
	106.65	11	NTW	GRD	741.2	504.1	2.38	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.32	1.32	OVB	--	overburden							
1.32	4.00	2.68	QFP	MG	mix of overburde (205%) and oxidized quartz feldspar porphyry dyke							
						MD	BN					
4.00	7.77	3.77	QFP	MG	medium brownish red to brownish grey, quartz feldspar porphyry dyke. Oxidized due to proximity to surface							
						MD	BN		OXI	3I		
7.77	9.47	1.70	GRD	MG	medium rpropylitic and argillic altered granodiorite with no sulfide stringers							
						MD	GY		ARG	2I		
						MD	GN		OXI	2I		
									PRO	2I		
9.47	9.55	0.08	GRD	MG	faulted cemented breccia of granodiorite clasts, dark grey to black matrix							
						MD	GY					
						DK	GY					
9.55	12.38	2.83	GRD	MG	modrately propylitic altered granodiorite with weak hairline stringers with oxidative haloes, and occasionally trace pyrite							
						MD	GN		OXI	2I		
						MD	GY		PRO	2I		
12.38	12.77	0.39	GRD	MG	faulted, oxidized granodiorite							
						MD	BN		CLY	3I		
									OXI	3I		
12.77	13.53	0.76	GRD	MG	weakly propylitic altered granodiorite							
						MD	GY		PRO	1I		
						MD	GN					
13.53	13.77	0.24	GRD	MG	faulted, oxidized granodiorite							
						MD	BN		CLY	2I		
									OXI	4I		
13.77	15.70	1.93	GRD	MG	moderately propylitic altered granodiorite with weak hairline pyrite stringers (4; trending 60-70 TCA)							
						MD	GY					
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
15.70	17.70	2.00	GRD	MG	weak to moderately argillic altered granodiorite with weak propylitic alteration and trace pyrite stringers trending 70 TCA with weak pyrite.							
						MD	GY		PRO	3I		
						MD	GN					
						LT	WH		ARG	2I	Py	0.5
17.70	18.04	0.34	GRD	MG	oxidized faulted granodiorite							
						MD	BN		CLY	2I		
									OXI	3I		
18.04	21.61	3.57	GRD	MG	unaltered granodiorite							
						MD	GY					
21.61	22.13	0.52	GRD	MG	strongly oxidized, clay altered and propylitic altered granodiorite preeding a faulted contact between grd and a qfp dyke, contact trends 65 TCA							
						MD	GN		OXI	4I		
						MD	GY					
						LT	BN		CLY	3I		
22.13	26.33	4.20	QFP	MG	medium brown to brownish grey, patchily oxidized quartz feldspar porphyry dyke.							
						MD	GY					
						MD	BN		CLY	1I		
						LT	GN					
26.33	26.80	0.47	GRD	MG	moderately argillic altered granodiorite							
						LT	GN					
						LT	WH					
						LT	GY		ARG	3I		
26.80	27.10	0.30	QFP	MG	small lens of qfp dyke, medium brown to grey with 70 TCA sharp upper and lower contact							
						MD	BN					
						MD	GY					
27.10	28.00	0.90	GRD	MG	moderately argillic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
28.00	30.53	2.53	GRD	MG	moderately argillic altered granodiorite with weak to moderate propylitic alteration and weak pyrite bearing quartz stringers trending 60 TCA							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I	Py	0.1
30.53	31.54	1.01	BXA	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.							
						MD	GN		SIL	1I		
						MD	GY		CLY	2I	Py	1
									PRO	3I		
31.54	32.81	1.27	QFP	MG	feldspar porphyry dyke, light green							
32.81	33.37	0.56	FLT	MG	fault gouged feldspar porphyry dyke, trending 30 TCA sharp upper and lower contact.							
33.37	34.05	0.68	QFP	MG	light green chloritized feldspar porphyry dyke							
						MD	GN					
						MD	GY					
34.05	36.36	2.31	QFP	MG	younger dyke nested inside of QFP dyke, with a darker greyish green colour							
						DK	GY					
						DK	GN					
36.36	39.80	3.44	QFP	MG	light green chloritized dyke							
39.80	40.20	0.40	BXA	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.							
						MD	GY					
						MD	GN		SIL	1I	Py	1
40.20	43.23	3.03	GRD	MG	moderately argillic altered granodiorite							
						MD	GN		ARG	3I		
						MD	GY					
						LT	WH					
43.23	44.40	1.17	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.40	46.50	2.10	GRD	MG	moderately argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
46.50	46.88	0.38	GRD	MG	moderate to strongly siliciied and propylitic altered granodiorite with three small 1 cm wide veinlets hosting pyrite +- sphalerite. Groundmass is silicified and contains disseminated pyrite							
						MD	GN		PRO	4I	Sp	1
						MD	GY		SIL	3I	Py	1
46.88	50.10	3.22	GRD	MG	moderately propylitic altered granodiorite with sparse pyrit bearing stringer veinlets (4-6; 50-70 TCA)							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	2I		
50.10	51.55	1.45	GRD	MG	unaltered granodiorite							
						MD	GY					
51.55	52.98	1.43	GRD	MG	strongly argillic and weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
						LT	WH		ARG	4I		
52.98	55.00	2.02	GRD	MG	unaltered granodiorite							
						MD	GY					
55.00	58.75	3.75	GRD	MG	moderately propylitic and weakly silicified granodiorite, with rare quartz stringers trnending 70 TCA, that contain disseminated pyrite, and weak zones of oxidation and fracturing.							
						MD	GN		SIL	3I		
						MD	GY		PRO	3I	Py	0.1
58.75	59.50	0.75	GRD	MG	faulted, oxidized grandorite with fault surfaces on upper and lower contacts (sharp) trending 30 TCA							
						MD	BN		CLY	2I		
									OXI	2I		
59.50	63.05	3.55	GRD	MG	moderately argillic and weakly propylitic altered granodiortie with oxidation on hairline fractures							
						MD	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I		
63.05	63.30	0.25	GRD	MG	zone of intense propylitic alteration with two quartz carbonate veinlets that are ~2 cm wide, trending 70 TCA, that have vuggy textures and trace pyrite							
						MD	GN					
63.30	68.57	5.27	GRD	MG	moderately argillic and propylitic altered granodiorite with two hairline stringers with trace pyrite							
						MD	GN		PRO	3I		
						MD	GY		ARG	3I		
68.57	68.76	0.19	QFP	MG	highly silicified QFP dyke, with vuggy textures on the upper and lower contact (trending 30 TCA). High angle quartz vein is cut by this dyke, and is dragged along the contact, indicating sinistral motion on the upper contact of the dyke (@68.57).							
						MD	GY		OXI	2I		
						MD	BN		SIL	3I		
68.76	72.00	3.24	GRD	MG	highly fractured, rubbly, heavily oxidized granodiorite, medium brown to light brownish grey							
						MD	GY		PRO	1I		
						MD	BF		OXI	3I		
						MD	BN		CLY	3I		
72.00	73.15	1.15	GRD	MG	highly silicified, sporadically brecciated granodiorite with 70-80 TCAC stringers developed that are trace pyrite bearing							
						MD	GY		PRO	1I	Py	1
						MD	BN		SIL	2I		
73.15	74.28	1.13	GRD	MG	moderately argillic altered granodiorite with weak propylitic alteration and patchy oxidative staining.							
						MD	GN		PRO	1I		
						MD	BN		OXI	2I		
						MD	GY		ARG	3I		
74.28	76.20	1.92	GRD	MG	moderately argillic and weakly propylitic altered granodioritet							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
76.20	77.28	1.08	GRD	MG	moderately argillic altered granodiorite with patchy oxidative staining and a small network of fractures that are weakly clay altered							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		OXI	2I		
						MD	GY		ARG	2I		
						MD	BN		CLY	3I		
77.28	77.55	0.27	VEN	MG	dark grey to light greyish white, banded (~1-2 cm semirhythmic bands) with disseminated blebby pyrite, and weak sphalerite, and trace galena.							
						MD	GY				Gn	1
						LT	WH				Py	5
						DK	GY		SIL	5I	Sp	2
77.55	77.70	0.15	QFP	MG	heavily clay altered small lens of light brownish grey QFP dyke. Sharp contacts trend 70 TCA							
						LT	GY		CLY	4I		
						LT	BN					
77.70	80.00	2.30	GRD	MG	weakly mineralied, heavily propylitic altered granodiorite with patchy oxidative staining, and three small sections where there are pyrite bearing quartz veinlets trending 70 TCA							
						MD	GN					
						MD	GY		PRO	3I		
						LT	GY		SIL	3I		
80.00	82.24	2.24	GRD	MG	unaltered granodiorite, with hairline ox fractures							
						MD	GY					
82.24	84.20	1.96	GRD	MG	patchy moderately argillic and patchy moderately propylitic altered granodiorite with four small carbonate veinlets trending 65 TCA							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I		
84.20	84.37	0.17	VEN	MG	semimassive pyritic quartz vein with trace sphalerite. Sharp upper and lower ctonact trend 70 TCA							
						MD	GY		SIL	5I	Sp	1
						LT	GY				Py	50
						LT	WH					
84.37	86.20	1.83	GRD	MG	moderately propylitic and argillic altered grd with dissemianted pyrite							
						MD	GN		PRO	3I		
						MD	GY		ARG	3I		
86.20	87.45	1.25	GRD	MG	trace propylitic and argillic altered granodiirote							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		ARG	1I		
									PRO	1I		
87.45	88.00	0.55	GRD	MG	fractured, rubbly granodiorite with strong argillic alteration							
						MD	GY		ARG	4I		
88.00	89.00	1.00	GRD	MG	moderately argillic and propylitic altered granodiorite							
						MD	GN		ARG	3I		
									PRO	3I		
89.00	90.00	1.00	GRD	MG	siliceous, strongly propylitic altered granodiorite with three quartz bands 1-2cm wide, trending 80 TCA with patchy pyrite							
						MD	GY					
						LT	GN		PRO	4I	Py	1
						LT	GY		SIL	2I		
90.00	90.38	0.38	VEN	MG	banded milky white to sooty grey quartz vein, with minor carbonate, minor patchy blebby pyrite, and weak banded sphalerite +- galena. Weak vuggy textures near upper and lower contact. Bands rhythmically repeat and trend 60 TCA (so do contacts).							
						LT	WH		SIL	5I	Sp	1
						LT	GY				Gn	0.5
											Py	5
90.38	93.70	3.32	GRD	MG	moderately argillic and porpylitic altered granodiorite							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
93.70	94.23	0.53	GRD	MG	clay altered, brecciated and faulted granodiorite							
						LT	GN		CLY	4I		
						LT	GY					
94.23	97.00	2.77	QFP	MG	clay altered, chloritized light greenish grey qfp dyke with a sharp upper and loewr contact trending 50 TCA							
						LT	GY		CHL	1I		
						LT	GN		CLY	1I		
97.00	97.40	0.40	GRD	MG	moderately propylitic and siliceous granodiorite							
						MD	GN		SIL	1I		
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.40	97.47	0.07	VEN	MG	rhodochrosite vein with a lower band 2 cm wide, trending 80 TCA with banded sphalerite + pyrite, and weak galena							
						MD	GY				Rh	50
						LT	PK		SIL	4I	Gn	0.5
						LT	WH				Sp	3
											Py	3
97.47	102.34	4.87	GRD	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA							
						MD	GY		ARG	3I	Py	0.5
						MD	GN		SIL	1I		
						LT	WH		PRO	3I		
102.34	103.00	0.66	GRD	MG	strongly propylitic altered granodiorite with two 5 cm intervals that contain banded quartz vein trending 80 TCA, with moderate banded pyrite and weak sphalerite							
						MD	GY		PRO	3I	Py	2
						MD	GN		SIL	4I	Sp	1
						LT	WH		ARG	2I		
103.00	106.66	3.66	GRD	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I		
									ARG	3I		
106.66	106.76	0.10	BXA	MG	mineralized granodioirite breccia, with sphalerite + pyrite mineralized clasts (likely quartz crabonate vein, that has been brecciated and infilled by smoky quartz							
						MD	GY				Sp	1
						DK	GY		SIL	5I	Py	2
106.76	109.00	2.24	GRD	MG	moderately propylitic and argillic altered granodiorite							
						MD	GN		ARG	2I		
						MD	GY		PRO	3I		
109.00	109.42	0.42	GRD	MG	clay altered along fractured, weakly brecciated, faulted granodioirte.							
						MD	GN		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	1I		
						LT	GY		ARG	2I		
109.42	114.30	4.88	GRD	MG	faulted, moderate to intensely clay altered, sporadically brecciated and heavily fractured granodiorite, with three discrete zones of mineralization, and the rest of the mineralization is in the form of dissemianted pyrite within fractured granodiorite. Fractures and veins trend 30-40 TCA throughout interval, and pyrite +- sphalerite +- galena is associated with these low angle structures. Quartz/carbonate veinlets inject at a low angle, and then grade out to pyrite along the margin, bounded by sphalerite at the contact with granodiorite. Trace galena is visible within sphalerite. More detailed intervals of mineralized sections are in secondary structure							
						MD	GY		SIL	2I	Sp	0.5
						MD	GN		CLY	4I	Gn	0.5
									PRO	3I	Py	0.5
114.30	116.50	2.20	GRD	MG	faulted, rubbly to gravelly granodiorite with weak argilli alteration							
						MD	GY		ARG	2I		
						MD	GN					
116.50	117.35	0.85	GRD	MG	unaltered granodiorite							
117.35	118.72	1.37	GRD	MG	modrately propylitic and argillic altered granodioirte with weak quartz carbonate veinlets that trend 80 TCA with no sulfides associated with them.							
						MD	GY		PRO	3I		
						MD	GN					
						LT	WH		ARG	1I		
118.72	120.63	1.91	GRD	MG	faulted granodiorite with weak faulting and fractureing, and carbonate alteration along fracture surfaces							
						MD	GY					
120.63	126.49	5.86	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.32	1.32	OVB	OVB	--	overburden
1.32	4.00	2.68	QFP	OVB	MG	mix of overburde (205%) and oxidized quartz feldspar porphyry dyke
4.00	7.77	3.77	QFP	DYK	MG	medium brownish red to brownish grey, quartz feldspar porphyry dyke. Oxidized due to proximity to surface
7.77	9.47	1.70	GRD	GRDA	MG	medium rpropylitic and argillic altered granodiorite with no sulfide stringers
9.47	9.55	0.08	GRD	FLT	MG	faulted cemented breccia of granodiorite clasts, dark grey to black matrix
9.55	12.38	2.83	GRD	GRDA	MG	modrately propylitic altered granodiorite with weak hairline stringers with oxidative haloes, and occasionally trace pyrite
12.38	12.77	0.39	GRD	GRDF	MG	faulted, oxidized granodiorite
12.77	13.53	0.76	GRD	GRDA	MG	weakly propylitic altered granodiorite
13.53	13.77	0.24	GRD	GRDF	MG	faulted, oxidized granodiorite
13.77	15.70	1.93	GRD	GRDA	MG	moderately propylitic altered granodiorite with weak hairline pyrite stringers (4; trending 60-70 TCA)
15.70	17.70	2.00	GRD	GRDA	MG	weak to moderately argillic altered granodiorite with weak propylitic alteration and trace pyrite stringers trending 70 TCA with weak pyrite.
17.70	18.04	0.34	GRD	GRDF	MG	oxidized faulted granodiorite
18.04	21.61	3.57	GRD	GRDA	MG	unaltered granodiorite
21.61	22.13	0.52	GRD	GRDA	MG	strongly oxidized, clay altered and propylitic altered granodiorite preeding a faulted contact between grd and a qfp dyke, contact trends 65 TCA
22.13	26.33	4.20	QFP	DYK	MG	medium brown to brownish grey, patchily oxidized quartz feldspar porphyry dyke.
26.33	26.80	0.47	GRD	GRDA	MG	moderately argillic altered granodiorite
26.80	27.10	0.30	QFP	DYK	MG	small lens of qfp dyke, medium brown to grey with 70 TCA sharp upper and lower contact
27.10	28.00	0.90	GRD	GRDA	MG	moderately argillic altered granodiorite
28.00	30.53	2.53	GRD	GRDA	MG	moderately argillic altered granodiorite with weak to moderate propylitic alteration and weak pyrite bearing quartz stringers trending 60 TCA
30.53	31.54	1.01	BXA	DYK	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.
31.54	32.81	1.27	QFP	DYK	MG	feldspar porphyry dyke, light green

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
32.81	33.37	0.56	FLT	DYK	MG	fault gouged feldspar porphyry dyke, trending 30 TCA sharp upper and lower contact.
33.37	34.05	0.68	QFP	DYK	MG	light green chloritized feldspar porphyry dyke
34.05	36.36	2.31	QFP	DYK	MG	younger dyke nested inside of QFP dyke, with a darker greyish green colour
36.36	39.80	3.44	QFP	DYK	MG	light green chloritized dyke
39.80	40.20	0.40	BXA	DYK	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.
40.20	43.23	3.03	GRD	GRDA	MG	moderately argillic altered granodiorite
43.23	44.40	1.17	GRD	GRD	MG	unaltered granodiorite
44.40	46.50	2.10	GRD	GRDA	MG	moderately argillic altered granodiorite with a weak to moderate propylitic overprint
46.50	46.88	0.38	GRD	GRDM	MG	moderate to strongly siliciied and propylitic altered granodiorite with three small 1 cm wide veinlets hosting pyrite +- sphalerite. Groundmass is silicified and contains disseminated pyrite
46.88	50.10	3.22	GRD	GRDA	MG	moderately propylitic altered granodiorite with sparse pyrit bearing stringer veinlets (4-6; 50-70 TCA)
50.10	51.55	1.45	GRD	GRD	MG	unaltered granodiorite
51.55	52.98	1.43	GRD	GRDA	MG	strongly argillic and weakly propylitic altered granodiorite
52.98	55.00	2.02	GRD	GRD	MG	unaltered granodiorite
55.00	58.75	3.75	GRD	GRDA	MG	moderately propylitic and weakly silicified granodiorite, with rare quartz stringers trnending 70 TCA, that contain disseminated pyrite, and weak zones of oxidation and fracturing.
58.75	59.50	0.75	GRD	GRDF	MG	faulted, oxidized grandorite with fault surfaces on upper and lower contacts (sharp) trending 30 TCA
59.50	63.05	3.55	GRD	GRDA	MG	moderately argillic and weakly propylitic altered granodiortie with oxidation on hairline fractures
63.05	63.30	0.25	GRD	GRDM	MG	zone of intense propylitic alteration with two quartz carbonate veinlets that are ~2 cm wide, trending 70 TCA, that have vuggy textures and trace pyrite
63.30	68.57	5.27	GRD	GRDA	MG	moderately argillic and propylitic altered granodiorite with two hairline stringers with trace pyrite
68.57	68.76	0.19	QFP	DYK	MG	highly silicified QFP dyke, with vuggy textures on the upper and lower contact (trending 30 TCA). High angle quartz vein is cut by this dyke, and is dragged along the contact, indicating sinistral motion on the upper contact of the dyke (@68.57).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
68.76	72.00	3.24	GRD	GRDF	MG	highly fractured, rubbly, heavily oxidized granodiorite, medium brown to light brownish grey
72.00	73.15	1.15	GRD	GRDM	MG	highly silicified, sporadically brecciated granodiorite with 70-80 TCAC stringers developed that are trace pyrite bearing
73.15	74.28	1.13	GRD	GRDA	MG	moderately argillic altered granodiorite with weak propylitic alteration and patchy oxidative staining.
74.28	76.20	1.92	GRD	GRDA	MG	moderately argillic and weakly propylitic altered granodioritet
76.20	77.28	1.08	GRD	GRDA	MG	moderately argillic altered granodiorite with patchy oxidative staining and a small network of fractures that are weakly clay altered
77.28	77.55	0.27	VEN	VEIN	MG	dark grey to light greyish white, banded (~1-2 cm semirhythmic bands) with disseminated blebby pyrite, and weak sphalerite, and trace galena.
77.55	77.70	0.15	QFP	DYK	MG	heavily clay altered small lens of light brownish grey QFP dyke. Sharp contacts trend 70 TCA
77.70	80.00	2.30	GRD	GRDM	MG	weakly mineralied, heavily propylitic altered granodiorite with patchy oxidative staining, and three small sections where there are pyrite bearing quartz veinlets trending 70 TCA
80.00	82.24	2.24	GRD	GRD	MG	unaltered granodiorite, with hairline ox fractures
82.24	84.20	1.96	GRD	GRDA	MG	patchy moderately argillic and patchy moderately propylitic altered granodiorite with four small carbonate veinlets trending 65 TCA
84.20	84.37	0.17	VEN	VEIN	MG	semimassive pyritic quartz vein with trace sphalerite. Sharp upper and lower ctonact trend 70 TCA
84.37	86.20	1.83	GRD	GRDM	MG	moderately propylitic and argillic altered grd with dissemianted pyrite
86.20	87.45	1.25	GRD	GRDA	MG	trace propylitic and argillic altered granodiirote
87.45	88.00	0.55	GRD	GRDF	MG	fractured, rubbly granodiorite with strong argillic alteration
88.00	89.00	1.00	GRD	GRDA	MG	moderately argillic and propylitic altered granodiorite
89.00	90.00	1.00	GRD	GRDM	MG	siliceous, strongly propylitic altered granodiorite with three quartz bands 1-2cm wide, trending 80 TCA with patchy pyrite
90.00	90.38	0.38	VEN	VEIN	MG	banded milky white to sooty grey quartz vein, with minor carbonate, minor patchy blebby pyrite, and weak banded sphalerite +- galena. Weak vuggy textures near upper and lower contact. Bands rhythmically repeat and trend 60 TCA (so do contacts).
90.38	93.70	3.32	GRD	GRDA	MG	moderately argillic and porpylitic altered granodiorite
93.70	94.23	0.53	GRD	GRDF	MG	clay altered, brecciated and faulted granodiorite
94.23	97.00	2.77	QFP	DYK	MG	clay altered, chloritized light greenish grey qfp dyke with a sharp upper and loewr contact trending 50 TCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
97.00	97.40	0.40	GRD	GRDA	MG	moderately propylitic and siliceous granodiorite
97.40	97.47	0.07	VEN	VEIN	MG	rhodochrosite vein with a lower band 2 cm wide, trending 80 TCA with banded sphalerite + pyrite, and weak galena
97.47	102.34	4.87	GRD	GRDA	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA
102.34	103.00	0.66	GRD	GRDM	MG	strongly propylitic altered granodiorite with two 5 cm intervals that contain banded quartz vein trending 80 TCA, with moderate banded pyrite and weak sphalerite
103.00	106.66	3.66	GRD	GRDA	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA
106.66	106.76	0.10	BXA	GRDM	MG	mineralized granodioirite breccia, with sphalerite + pyrite mineralized clasts (likely quartz crabonate vein, that has been brecciated and infilled by smoky quartz
106.76	109.00	2.24	GRD	GRDA	MG	moderately propylitic and argillic altered granodiorite
109.00	109.42	0.42	GRD	GRDF	MG	clay altered along fractured, weakly brecciated, faulted granodioirte.
109.42	114.30	4.88	GRD	GRDM	MG	faulted, moderate to intensely clay altered, sporadically brecciated and heavily fractured granodiorite, with three discrete zones of mineralization, and the rest of the mineralization is in the form of dissemianted pyrite within fractured granodiorite. Fractures and veins trend 30-40 TCA throughout interval, and pyrite +- sphalerite +- galena is associated with these low angle structures. Quartz/carbonate veinlets inject at a low angle, and then grade out to pyrite along the margin, bounded by sphalerite at the contact with granodiorite. Trace galena is visible within sphalerite. More detailed intervals of mineralized sections are in secondary structure
114.30	116.50	2.20	GRD	GRDF	MG	faulted, rubbly to gravelly granodiorite with weak argilli alteration
116.50	117.35	0.85	GRD	GRD	MG	unaltered granodiorite
117.35	118.72	1.37	GRD	GRDA	MG	modrately propylitic and argillic altered granodioirte with weak quartz carbonate veinlets that trend 80 TCA with no sulfides associated with them.
118.72	120.63	1.91	GRD	GRDF	MG	faulted granodiorite with weak faulting and fractureing, and carbonate alteration along fracture surfaces
120.63	126.49	5.86	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.32	1.32	OVB	--	overburden							
1.32	4.00	2.68	QFP	MG	mix of overburde (205%) and oxidized quartz feldspar porphyry dyke							
						MD	BN					
4.00	7.77	3.77	QFP	MG	medium brownish red to brownish grey, quartz feldspar porphyry dyke. Oxidized due to proximity to surface							
						MD	BN		OXI	3I		
7.77	9.47	1.70	GRD	MG	medium rpropylitic and argillic altered granodiorite with no sulfide stringers							
						MD	GY		ARG	2I		
						MD	GN		OXI	2I		
									PRO	2I		
9.47	9.55	0.08	GRD	MG	faulted cemented breccia of granodiorite clasts, dark grey to black matrix rrneds 8- TCA							
						DK	GY					
						MD	GY					
9.55	12.38	2.83	GRD	MG	modrately propylitic altered granodiorite with weak hairline stringers with oxidative haloes, and occasionally trace pyrite							
						MD	GY		OXI	2I		
						MD	GN		PRO	2I		
12.38	12.77	0.39	GRD	MG	faulted, oxidized granodiorite							
									OXI	3I		
						MD	BN		CLY	3I		
12.77	13.53	0.76	GRD	MG	weakly propylitic altered granodiorite							
						MD	GY					
						MD	GN		PRO	1I		
13.53	13.77	0.24	GRD	MG	faulted, oxidized granodiorite							
									CLY	2I		
						MD	BN		OXI	4I		
13.77	15.70	1.93	GRD	MG	moderately propylitic altered granodiorite with weak hairline pyrite stringers (4; trending 60-70 TCA)							
						MD	GY					
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
15.70	17.70	2.00	GRD	MG	weak to moderately argillic altered granodiorite with weak propylitic alteration and trace pyrite stringers trending 70 TCA with weak pyrite.							
						MD	GN		PRO	3I		
						MD	GY		ARG	2I	Py	0.5
						LT	WH					
17.70	18.04	0.34	GRD	MG	oxidized faulted granodiorite							
									OXI	3I		
						MD	BN		CLY	2I		
18.04	21.61	3.57	GRD	MG	unaltered granodiorite							
						MD	GY					
21.61	22.13	0.52	GRD	MG	strongly oxidized, clay altered and propylitic altered granodiorite preeding a faulted contact between grd and a qfp dyke, contact trends 65 TCA							
						MD	GY		CLY	3I		
						LT	BN					
						MD	GN		OXI	4I		
22.13	26.33	4.20	QFP	MG	medium brown to brownish grey, patchily oxidized quartz feldspar porphyry dyke.							
						MD	GY		CLY	1I		
						MD	BN					
						LT	GN					
26.33	26.80	0.47	GRD	MG	moderately argillic altered granodiorite							
						LT	GY		ARG	3I		
						LT	GN					
						LT	WH					
26.80	27.10	0.30	QFP	MG	small lens of qfp dyke, medium brown to grey with 70 TCA sharp upper and lower contact							
						MD	GY					
						MD	BN					
27.10	28.00	0.90	GRD	MG	moderately argillic altered granodiorite							
						LT	WH		ARG	3I		
						MD	GY					
28.00	30.53	2.53	GRD	MG	moderately argillic altered granodiorite with weak to moderate propylitic alteration and weak pyrite bearing quartz stringers trending 60 TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I		
						MD	GN		ARG	2I	Py	0.1
30.53	31.54	1.01	BXA	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.							
						MD	GN		PRO	3I		
						MD	GY		SIL	1I	Py	1
									CLY	2I		
31.54	32.81	1.27	QFP	MG	feldspar porphyry dyke, light green							
32.81	33.37	0.56	FLT	MG	fault gouged feldspar porphyry dyke, trending 30 TCA sharp upper and lower contact.							
33.37	39.80	6.43	QFP	MG	light green chloritized feldspar porphyry dyke, with a secondary dyke nested inside							
						MD	GY					
						MD	GN					
39.80	40.20	0.40	BXA	MG	brecciated QFP dyke, with fragments of quartz, feldspar porphyry dyke, and granodiorite. Quartz clasts are rimmed with pyrite.							
						MD	GY					
						MD	GN		SIL	1I	Py	1
40.20	43.23	3.03	GRD	MG	moderately argillic altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
						MD	GN					
43.23	44.40	1.17	GRD	MG	unaltered granodiorite							
						MD	GY					
44.40	46.50	2.10	GRD	MG	moderately argillic altered granodiorite with a weak to moderate propylitic overprint							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
46.50	46.88	0.38	GRD	MG	moderate to strongly siliciied and propylitic altered granodiorite with three small 1 cm wide veinlets hosting pyrite +- sphalerite. Groundmass is silicified and contains disseminated pyrite							
						MD	GY		PRO	4I	Sp	1
						MD	GN		SIL	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
46.88	50.10	3.22	GRD	MG	moderately propylitic altered granodiorite with sparse pyrit bearing stringer veinlets (4-6; 50-70 TCA)							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I	Py	0.5
50.10	51.55	1.45	GRD	MG	unaltered granodiorite							
						MD	GY					
51.55	52.98	1.43	GRD	MG	strongly argillic and weakly propylitic altered granodiorite							
						MD	GN		ARG	4I		
						LT	WH					
						MD	GY		PRO	1I		
52.98	55.00	2.02	GRD	MG	unaltered granodiorite							
						MD	GY					
55.00	58.75	3.75	GRD	MG	moderately propylitic and weakly silicified granodiorite, with rare quartz stringers trnending 70 TCA, that contain disseminated pyrite, and weak zones of oxidation and fracturing.							
						MD	GY		PRO	3I		
						MD	GN		SIL	3I	Py	0.1
58.75	59.50	0.75	GRD	MG	faulted, oxidized grandorite with fault surfaces on upper and lower contacts (sharp) trending 30 TCA							
						MD	BN		OXI	2I		
									CLY	2I		
59.50	63.05	3.55	GRD	MG	moderately argillic and weakly propylitic altered granodiortie with oxidation on hairline fractures							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I		
63.05	63.30	0.25	GRD	MG	zone of intense propylitic alteration with two quartz carbonate veinlets that are ~2 cm wide, trending 70 TCA, that have vuggy textures and trace pyrite							
						MD	GN					
63.30	68.57	5.27	GRD	MG	moderately argillic and propylitic altered granodiorite with two hairline stringers with trace pyrite							
						MD	GN		ARG	3I		
						MD	GY		PRO	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
68.57	68.76	0.19	QFP	MG	highly silicified QFP dyke, with vuggy textures on the upper and lower contact (trending 30 TCA). High angle quartz vein is cut by this dyke, and is dragged along the contact, indicating sinistral motion on the upper contact of the dyke (@68.57).							
						MD	GY		SIL	3I		
						MD	BN		OXI	2I		
68.76	72.00	3.24	GRD	MG	highly fractured, rubbly, heavily oxidized granodiorite, medium brown to light brownish grey							
						MD	GY		CLY	3I		
						MD	BN		PRO	1I		
						MD	BF		OXI	3I		
72.00	73.15	1.15	GRD	MG	highly silicified, sporadically brecciated granodiorite with 70-80 TCAC stringers developed that are trace pyrite bearing							
						MD	GY		SIL	2I		
						MD	BN		PRO	1I	Py	1
73.15	74.28	1.13	GRD	MG	moderately argillic altered granodiorite with weak propylitic alteration and patchy oxidative staining.							
						MD	BN		ARG	3I		
						MD	GN		OXI	2I		
						MD	GY		PRO	1I		
74.28	76.20	1.92	GRD	MG	moderately argillic and weakly propylitic altered granodioritet							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
76.20	77.28	1.08	GRD	MG	moderately argillic altered granodiorite with patchy oxidative staining and a small network of fractures that are weakly clay altered							
						MD	GY		CLY	3I		
						MD	GN		ARG	2I		
						MD	BN		OXI	2I		
77.28	77.55	0.27	VEN	MG	dark grey to light greyish white, banded (~1-2 cm semirhythmic bands) with disseminated blebby pyrite, and weak sphalerite, and trace galena. Vein contact is sharp upper and lower, trending 70 TCA.							
						LT	WH				Gn	1
						DK	GY				Sp	2
						MD	GY		SIL	5I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.55	77.70	0.15	QFP	MG	heavily clay altered small lens of light brownish grey QFP dyke. Sharp contacts trend 70 TCA							
						LT	BN					
						LT	GY		CLY	4I		
77.70	80.00	2.30	GRD	MG	weakly mineralied, heavily propylitic altered granodiorite with patchy oxidative staining, and three small sections where there are pyrite bearing quartz veinlets trending 70 TCA							
						MD	GN					
						MD	GY		PRO	3I		
						LT	GY		SIL	3I		
80.00	82.24	2.24	GRD	MG	unaltered granodiorite, with hairline ox fractures							
						MD	GY					
82.24	84.20	1.96	GRD	MG	patchy moderately argillic and patchy moderately propylitic altered granodiorite with four small carbonate veinlets trending 65 TCA							
						MD	GY		ARG	3I		
						MD	GN		PRO	3I		
84.20	84.37	0.17	VEN	MG	semimassive pyritic quartz vein with trace sphalerite. Sharp upper and lower ctonact trend 70 TCA							
						MD	GY					
						LT	GY				Py	50
						LT	WH		SIL	5I	Sp	1
84.37	86.20	1.83	GRD	MG	moderately propylitic and argillic altered grd with dissemianted pyrite							
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
86.20	87.45	1.25	GRD	MG	trace propylitic and argillic altered granodiirote							
						MD	GY		ARG	1I		
									PRO	1I		
87.45	88.00	0.55	GRD	MG	fractured, rubbly granodiorite with strong argillic alteration							
						MD	GY		ARG	4I		
88.00	89.00	1.00	GRD	MG	moderately argillic and propylitic altered granodiorite							
									PRO	3I		
						MD	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
89.00	90.00	1.00	GRD	MG	siliceous, strongly propylitic altered granodiorite with three quartz bands 1-2cm wide, trending 80 TCA with patchy pyrite							
						LT	GN		SIL	2I	Py	1
						MD	GY		PRO	4I		
						LT	GY					
90.00	90.38	0.38	VEN	MG	banded milky white to sooty grey quartz vein, with minor carbonate, minor patchy blebby pyrite, and weak banded sphalerite +- galena. Weak vuggy textures near upper and lower contact. Bands rhythmically repeat and trend 60 TCA (so do contacts).							
						LT	GY				Gn	0.5
											Sp	1
						LT	WH		SIL	5I	Py	5
90.38	93.70	3.32	GRD	MG	moderately argillic and porpylitic altered granodiorite							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
93.70	94.23	0.53	GRD	MG	clay altered, brecciated and faulted granodiorite							
						LT	GY					
						LT	GN		CLY	4I		
94.23	97.00	2.77	QFP	MG	clay altered, chloritized light greenish grey qfp dyke with a sharp upper and loewr contact trending 50 TCA							
						LT	GN		CLY	1I		
						LT	GY		CHL	1I		
97.00	97.40	0.40	GRD	MG	moderately propylitic and siliceous granodiorite							
						MD	GN		PRO	2I		
						MD	GY		SIL	1I		
97.40	97.47	0.07	VEN	MG	rhodochrosite vein with a lower band 2 cm wide, trending 80 TCA with banded sphalerite + pyrite, and weak galena							
											Gn	0.5
						MD	GY				Rh	50
						LT	PK		SIL	4I	Py	3
						LT	WH				Sp	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.47	102.34	4.87	GRD	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA							
						MD	GN		PRO	3I	Py	0.5
						LT	WH		SIL	1I		
						MD	GY		ARG	3I		
102.34	103.00	0.66	GRD	MG	strongly propylitic altered granodiorite with two 5 cm intervals that contain banded quartz vein trending 80 TCA, with moderate banded pyrite and weak sphalerite							
						MD	GN		SIL	4I	Py	2
						LT	WH		ARG	2I		
						MD	GY		PRO	3I	Sp	1
103.00	106.66	3.66	GRD	MG	moderately propylitic and argillic altered granodiorite, with small 10-15 cm sections that are dark greyish green, with pyrite bearing qurtz veinelts that trend 80 TCA							
									PRO	3I		
						MD	GY		ARG	3I		
						MD	GN		SIL	1I		
106.66	106.76	0.10	BXA	MG	mineralized granodioirite breccia, with sphalerite + pyrite mineralized clasts (likely quartz crabonate vein, that has been brecciated and infilled by smoky quartz							
						MD	GY				Py	2
						DK	GY		SIL	5I	Sp	1
106.76	109.00	2.24	GRD	MG	moderately propylitic and argillic altered granodiorite							
						MD	GY		ARG	2I		
						MD	GN		PRO	3I		
109.00	109.42	0.42	GRD	MG	clay altered along fractured, weakly brecciated, faulted granodioirte.							
						MD	GN		PRO	1I		
						LT	GY		ARG	2I		
						MD	GY		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
109.42	114.30	4.88	GRD	MG	faulted, moderate to intensely clay altered, sporadically brecciated and heavily fractured granodiorite, with three discrete zones of mineralization, and the rest of the mineralization is in the form of dissemianted pyrite within fractured granodiorite. Fractures and veins trend 30-40 TCA throughout interval, and pyrite +- sphalerite +- galena is associated with these low angle structures. Quartz/carbonate veinlets inject at a low angle, and then grade out to pyrite along the margin, bounded by sphalerite at the contact with granodiorite. Trace galena is visible within sphalerite. More detailed intervals of mineralized sections are in secondary structure							
									CLY	4I	Sp	0.5
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	3I	Gn	0.5
114.30	116.50	2.20	GRD	MG	faulted, rubbly to gravelly granodiorite with weak argilli alteration							
						MD	GY		ARG	2I		
						MD	GN					
116.50	117.35	0.85	GRD	MG	unaltered granodiorite							
117.35	118.72	1.37	GRD	MG	modrately propylitic and argillic altered granodioirte with weak quartz carbonate veinlets that trend 80 TCA with no sulfides associated with them.							
						MD	GY					
						LT	WH		PRO	3I		
						MD	GN		ARG	1I		
118.72	120.63	1.91	GRD	MG	faulted granodiorite with weak faulting and fractureing, and carbonate alteration along fracture surfaces							
						MD	GY					
120.63	126.49	5.86	GRD	MG	unaltered granodiorite							
						MD	GY					

KL -19-453

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.15	10	0.00	0	--	1H	6W	Oxidized overburden
1.52	3.05	1.53	0.63	41	0.00	0	--	1H	6W	Oxidized overburden
3.05	4.57	1.52	1.04	68	0.00	0	--	2H	5W	Overburden and Oxidized material
4.57	6.10	1.53	1.39	91	0.12	8	--	3H	4W	Highly oxidized
6.10	7.62	1.52	1.24	82	0.12	8	--	3H	4W	Highlu oxidized
7.62	9.14	1.52	1.52	100	1.17	77	--	3H	3W	
9.14	12.19	3.05	3.05	100	2.47	81	--	3H	2W	
12.19	15.24	3.05	2.99	98	1.38	45	--	3H	4W	
15.24	18.29	3.05	3.05	100	2.18	71	--	4H	3W	
18.29	21.34	3.05	2.96	97	2.42	79	--	3H	2W	
21.34	24.38	3.04	3	99	1.45	48	--	3H	3W	
24.38	27.43	3.05	3.05	100	2.61	86	--	3H	2W	
27.43	30.48	3.05	3.05	100	2.75	90	--	3H	2W	
30.48	33.53	3.05	3.05	100	1.99	65	--	3H	2W	
33.53	36.58	3.05	3.04	100	2.87	94	--	3H	2W	
36.58	39.62	3.04	3.04	100	1.54	51	--	3H	2W	
39.62	42.67	3.05	3.05	100	2.25	74	--	3H	1W	
42.67	45.72	3.05	3.04	100	2.45	80	--	3H	2W	
45.72	48.77	3.05	3.03	99	2.77	91	--	3H	2W	
48.77	51.82	3.05	3.04	100	2.78	91	--	4H	1W	
51.82	54.86	3.04	2.97	98	2.64	87	--	3H	1W	
54.86	57.91	3.05	3	98	2.36	77	--	3H	1W	
57.91	60.96	3.05	3.04	100	2.08	68	--	3H	1W	
60.96	64.01	3.05	2.97	97	2.42	79	--	3H	1W	
64.01	67.06	3.05	3.05	100	2.65	87	--	3H	1W	
67.06	70.10	3.04	3.02	99	2.54	84	--	3H	1W	
70.10	73.15	3.05	2.98	98	0.71	23	--	2H	1W	
73.15	74.68	1.53	1.42	93	1.08	71	--	2H	2W	
74.68	77.72	3.04	3.04	100	2.89	95	--	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
77.72	80.77	3.05	3.03	99	2.72	89	--	3H	2W	
80.77	83.82	3.05	3.05	100	2.73	90	--	3H	1W	
83.82	86.87	3.05	2.9	95	2.55	84	--	4H	1W	
86.87	89.92	3.05	3.05	100	2.67	88	--	3H	1W	
89.92	92.96	3.04	2.95	97	1.97	65	--	3H	1W	
92.96	96.01	3.05	3.02	99	2.35	77	--	3H	1W	
96.01	99.06	3.05	3.05	100	2.96	97	--	3H	1W	
99.06	102.11	3.05	3.05	100	2.93	96	--	4H	1W	
102.11	105.16	3.05	3.05	100	2.81	92	--	3H	1W	
105.16	108.20	3.04	3.04	100	2.85	94	--	3H	1W	
108.20	111.25	3.05	2.86	94	2.62	86	--	2H	1W	
111.25	114.30	3.05	2.92	96	2.46	81	--	2H	1W	
114.30	117.35	3.05	2.76	90	1.32	43	--	3H	1W	
117.35	120.40	3.05	3	98	1.84	60	--	3H	1W	
120.40	123.44	3.04	2.88	95	2.41	79	--	4H	1W	
123.44	126.49	3.05	3.05	100	2.72	89	--	4H	1W	

KL -19-453

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0	QFP	
3	0	QFP	
4	0	QFP	
4	0	QFP	
5	0.105	QFP	
6	0.021	QFP	
7	0.041	QFP	
8	0.534	GRD	
9	3.113	GRD	
10	0.823	GRD	
11	0.328	GRD	
12	0.557	GRD	
13	0.234	GRD	
14	0.401	GRD	
15	3.078	GRD	
16	1.035	GRD	
17	10.06	GRD	
18	0.565	GRD	
19	16.49	GRD	
20	11.47	GRD	
21	0.98	GRD	
22	0.293	GRD	
23	0.216	QFP	
24	0.217	QFP	
25	0.728	QFP	
26	0.247	QFP	
27	0.505	QFP	
28	0.588	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.588	GRD	
29	2.847	GRD	
30	0.838	GRD	
31	0.585	BXA	
32	0.798	QFP	
33	0.22	FLT	
34	0.246	QFP	
35	0.355	QFP	
36	0.22	QFP	
37	0.202	QFP	
38	0.117	QFP	
39	0.222	QFP	
40	0.293	BXA	
41	0.595	GRD	
42	0.447	GRD	
43	0.515	GRD	
44	11.1	GRD	
45	0.369	GRD	
46	0.4	GRD	
47	8.078	GRD	
48	3.64	GRD	
49	0.422	GRD	
50	0.892	GRD	
51	7.582	GRD	
52	1.256	GRD	
53	0.576	GRD	
54	10.42	GRD	
55	0.167	GRD	
55	0.167	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	0.254	GRD	
57	0.039	GRD	
58	0.305	GRD	
59	0.296	GRD	
60	0.198	GRD	
61	0.369	GRD	
62	0.304	GRD	
63	0.743	GRD	
64	0.343	GRD	
65	0.513	GRD	
66	0.311	GRD	
67	0.301	GRD	
68	0.586	GRD	
69	0.485	GRD	
70	0.521	GRD	
71	0.086	GRD	
72	0.463	GRD	
72	0.463	GRD	
73	0.344	GRD	
74	0.206	GRD	
75	0.682	GRD	
76	0.366	GRD	
77	0.323	GRD	
78	0.55	GRD	
79	0.324	GRD	
80	1.148	GRD	
80	1.148	GRD	
81	3.534	GRD	
82	1.278	GRD	
83	1.094	GRD	
84	0.237	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
85	0.71	GRD	
86	9.986	GRD	
87	0.452	GRD	
88	0.32	GRD	
88	0.32	GRD	
89	0.302	GRD	
89	0.302	GRD	
90	0.318	VEN	
90	0.318	GRD	
91	0.281	GRD	
92	0.298	GRD	
93	0.368	GRD	
94	0.193	GRD	
95	0.045	QFP	
96	0.372	QFP	
97	0.375	QFP	
97	0.375	GRD	
98	0.427	GRD	
99	0.538	GRD	
100	0.333	GRD	
101	0.663	GRD	
102	0.328	GRD	
103	0.335	GRD	
103	0.335	GRD	
104	0.279	GRD	
105	0.423	GRD	
106	0.625	GRD	
107	0.307	GRD	
108	0.306	GRD	
109	0.618	GRD	
109	0.618	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
110	0.121	GRD	
111	0.679	GRD	
112	0.597	GRD	
113	0.247	GRD	
114	0.287	GRD	
115	4.086	GRD	
116	0.478	GRD	
117	10.07	GRD	
118	0.592	GRD	
119	6.289	GRD	
120	12.48	GRD	
121	21.4	GRD	
122	8.032	GRD	
123	2.384	GRD	
124	0.126	GRD	
125	14.93	GRD	
126	9.462	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-453

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295499	☐	19-082	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295507	☐	19-082	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295513	☐	19-082	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295533	☐	19-083	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295540	☐	19-083	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295555	☐	19-083	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295580	☐	19-084	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295587	☐	19-084	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295474	☐	19-081	low grade	KL-STD6	☐	☐	☐
2.00	3.50	1.50	QFP	1.10	73	K295472	☐	19-081	low grade		☐	☐	☐
3.50	5.00	1.50	QFP	1.20	80	K295473	☐	19-081	low grade		☐	☐	☐
5.00	6.50	1.50	QFP	1.45	97	K295475	☐	19-081	low grade		☐	☐	☐
6.50	7.77	1.27	QFP	1.27	100	K295476	☐	19-081	low grade		☐	☐	☐
7.77	9.30	1.53	QFP, GRD	1.50	98	K295477	☐	19-081	low grade		☐	☐	☐
9.30	10.80	1.50	GRD	1.47	98	K295478	☐	19-081	low grade		☐	☐	☐
10.80	12.30	1.50	GRD	1.48	99	K295479	☐	19-081	low grade		☐	☐	☐
12.30	13.80	1.50	GRD	1.44	96	K295480	☐	19-081	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
13.80	15.00	1.20	GRD	1.18	98	K295481	☐	19-082	low grade		☐	☐	☐
15.00	16.50	1.50	GRD	1.45	97	K295482	☐	19-082	low grade		☐	☐	☐
16.50	18.00	1.50	GRD	1.30	87	K295483	☐	19-082	low grade		☐	☐	☐
18.00	19.50	1.50	GRD	1.50	100	K295484	☐	19-082	low grade		☐	☐	☐
19.50	21.00	1.50	GRD	1.50	100	K295485	☐	19-082	low grade		☐	☐	☐
21.00	22.13	1.13	GRD	1.13	100	K295486	☐	19-082	low grade		☐	☐	☐
21.00	22.13	1.13	GRD	1.13	100	K295487	☐	19-082	low grade		☐	☑	☐
22.13	23.63	1.50	QFP, GRD	1.45	97	K295488	☐	19-082	low grade		☐	☐	☐
23.63	25.13	1.50	QFP	1.50	100	K295489	☐	19-082	low grade		☐	☐	☐
25.13	26.33	1.20	QFP	1.20	100	K295490	☐	19-082	low grade		☐	☐	☐
26.33	26.80	0.47	QFP, GRD	0.46	98	K295491	☐	19-082	low grade		☐	☐	☐
26.80	28.00	1.20	QFP, GRD	1.18	98	K295492	☐	19-082	low grade		☐	☐	☐
26.80	28.00	1.20	QFP, GRD	1.18	98	K295493	☐	19-082	low grade		☐	☐	☑
28.00	29.50	1.50	GRD, GRD	1.50	100	K295494	☐	19-082	low grade		☐	☐	☐
29.50	30.53	1.03	GRD	0.96	93	K295514	☐	19-082	low grade		☐	☐	☐
30.53	31.54	1.01	BXA, GRD	1.01	100	K295495	☐	19-082	low grade		☐	☐	☐
31.54	33.00	1.46	BXA, QFP	1.40	96	K295496	☐	19-082	low grade		☐	☐	☐
33.00	34.50	1.50	FLT	1.48	99	K295497	☐	19-082	low grade		☐	☐	☐
34.50	36.00	1.50	QFP	1.45	97	K295498	☐	19-082	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
36.00	37.50	1.50	QFP	1.45	97	K295500	☐	19-082	low grade		☐	☐	☐
37.50	39.00	1.50	QFP	1.48	99	K295501	☐	19-082	low grade		☐	☐	☐
39.00	40.39	1.39	QFP	1.39	100	K295502	☐	19-082	low grade		☐	☐	☐
40.39	41.70	1.31	GRD	1.30	99	K295503	☐	19-082	low grade		☐	☐	☐
41.70	43.20	1.50	GRD	1.47	98	K295504	☐	19-082	low grade		☐	☐	☐
43.20	44.40	1.20	GRD	1.20	100	K295505	☐	19-082	low grade		☐	☐	☐
44.40	45.30	0.90	GRD, GRD	0.89	99	K295506	☐	19-082	low grade		☐	☐	☐
45.30	45.72	0.42	GRD	0.41	98	K295508	☐	19-082	low grade		☐	☐	☐
45.72	46.25	0.53	GRD	0.50	94	K295509	☐	19-082	low grade		☐	☐	☐
46.25	46.55	0.30	GRD	0.30	100	K295510	☐	19-082	low grade		☐	☐	☐
46.55	47.55	1.00	GRD	1.00	100	K295511	☐	19-082	low grade		☐	☐	☐
47.55	49.00	1.45	GRD	1.44	99	K295512	☐	19-082	low grade		☐	☐	☐
49.00	50.50	1.50	GRD	1.47	98	K295515	☐	19-082	low grade		☐	☐	☐
50.50	52.00	1.50	GRD	1.50	100	K295516	☐	19-082	low grade		☐	☐	☐
52.00	53.00	1.00	GRD	0.98	98	K295517	☐	19-082	low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.48	99	K295518	☐	19-082	low grade		☐	☐	☐
54.50	55.55	1.05	GRD	1.02	97	K295519	☐	19-082	low grade		☐	☐	☐
55.55	56.18	0.63	GRD	0.54	86	K295520	☐	19-082	low grade		☐	☐	☐
56.18	57.50	1.32	GRD	1.32	100	K295521	☐	19-083	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
57.50	59.00	1.50	GRD	1.30	87	K295522	☐	19-083	low grade		☐	☐	☐
59.00	59.85	0.85	GRD	0.84	99	K295523	☐	19-083	low grade		☐	☐	☐
59.85	60.39	0.54	GRD	0.47	87	K295524	☐	19-083	low grade		☐	☐	☐
60.39	61.89	1.50	GRD	1.45	97	K295525	☐	19-083	low grade		☐	☐	☐
61.89	63.05	1.16	GRD	1.16	100	K295526	☐	19-083	low grade		☐	☐	☐
63.05	64.00	0.95	GRD, GRD	0.95	100	K295527	☐	19-083	low grade		☐	☐	☐
63.05	64.00	0.95	GRD, GRD	0.95	100	K295528	☐	19-083	low grade		☐	☑	☐
64.00	65.50	1.50	GRD	1.50	100	K295529	☐	19-083	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	K295530	☐	19-083	low grade		☐	☐	☐
67.00	68.50	1.50	GRD	1.50	100	K295531	☐	19-083	low grade		☐	☐	☐
68.50	69.50	1.00	GRD	1.00	100	K295532	☐	19-083	low grade		☐	☐	☐
69.50	71.00	1.50	GRD	1.25	83	K295534	☐	19-083	low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.28	85	K295535	☐	19-083	low grade		☐	☐	☐
72.50	74.00	1.50	GRD	1.49	99	K295536	☐	19-083	low grade		☐	☐	☐
74.00	75.50	1.50	GRD	1.50	100	K295537	☐	19-083	low grade		☐	☐	☐
75.50	76.65	1.15	GRD	1.15	100	K295538	☐	19-083	low grade		☐	☐	☐
76.65	77.28	0.63	GRD	0.60	95	K295539	☐	19-083	low grade		☐	☐	☐
77.28	77.80	0.52	VEN, GRD	0.50	96	W599225	☐	19-049	high grade		☐	☐	☐
77.80	78.70	0.90	GRD	0.90	100	K295541	☐	19-083	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
78.70	79.07	0.37	GRD	0.36	97	K295542	☐	19-083	low grade		☐	☐	☐
79.07	79.37	0.30	GRD	0.30	100	W599226	☐	19-049	high grade		☐	☐	☐
79.37	80.87	1.50	GRD	1.50	100	K295543	☐	19-083	low grade		☐	☐	☐
80.87	82.37	1.50	GRD	1.50	100	K295544	☐	19-083	low grade		☐	☐	☐
82.37	83.87	1.50	GRD	1.50	100	K295545	☐	19-083	low grade		☐	☐	☐
83.87	85.07	1.20	GRD	1.20	100	K295546	☐	19-083	low grade		☐	☐	☐
85.07	85.37	0.30	GRD	0.30	100	W599227	☐	19-085	high grade		☐	☐	☐
85.37	86.50	1.13	GRD	1.10	97	K295547	☐	19-083	low grade		☐	☐	☐
85.37	86.50	1.13	GRD	1.10	97	K295548	☐	19-083	low grade		☐	☐	☑
86.50	88.00	1.50	GRD	1.39	93	K295549	☐	19-083	low grade		☐	☐	☐
88.00	89.00	1.00	GRD, GRD	0.99	99	K295550	☐	19-083	low grade		☐	☐	☐
89.00	90.00	1.00	GRD, GRD	1.00	100	K295551	☐	19-083	low grade		☐	☐	☐
90.00	90.47	0.47	VEN, GRD	0.45	96	W599228	☐	19-085	high grade		☐	☐	☐
90.47	91.50	1.03	GRD	1.03	100	K295552	☐	19-083	low grade		☐	☐	☐
91.50	92.85	1.35	GRD	1.31	97	K295553	☐	19-083	low grade		☐	☐	☐
92.85	93.51	0.66	GRD	0.60	91	K295554	☐	19-083	low grade		☐	☐	☐
93.51	94.22	0.71	GRD	0.70	99	K295556	☐	19-083	low grade		☐	☐	☐
94.22	95.67	1.45	GRD	1.42	98	K295557	☐	19-083	low grade		☐	☐	☐
95.67	97.00	1.33	QFP	1.33	100	K295558	☐	19-083	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
97.00	97.55	0.55	QFP, GRD	0.55	100	K295559	☐	19-083	low grade		☐	☐	☐
97.55	98.42	0.87	GRD	0.86	99	K295560	☐	19-083	low grade		☐	☐	☐
98.42	99.39	0.97	GRD	0.96	99	K295561	☐	19-084	low grade		☐	☐	☐
99.39	99.69	0.30	GRD	0.30	100	K295562	☐	19-084	low grade		☐	☐	☐
99.69	101.00	1.31	GRD	1.30	99	K295563	☐	19-084	low grade		☐	☐	☐
101.00	102.30	1.30	GRD	1.25	96	K295564	☐	19-084	low grade		☐	☐	☐
102.30	103.04	0.74	GRD	0.72	97	K295565	☐	19-084	low grade		☐	☐	☐
103.04	104.29	1.25	GRD	1.25	100	K295566	☐	19-084	low grade		☐	☐	☐
103.04	104.29	1.25	GRD	1.25	100	K295567	☐	19-084	low grade		☐	☑	☐
104.29	105.79	1.50	GRD	1.50	100	K295568	☐	19-084	low grade		☐	☐	☐
105.79	106.50	0.71	GRD	0.69	97	K295569	☐	19-084	low grade		☐	☐	☐
106.50	106.90	0.40	GRD	0.40	100	K295570	☐	19-084	low grade		☐	☐	☐
106.90	107.90	1.00	GRD	1.00	100	K295571	☐	19-084	low grade		☐	☐	☐
107.90	108.93	1.03	GRD	1.00	97	K295572	☐	19-084	low grade		☐	☐	☐
107.90	108.93	1.03	GRD	1.00	97	K295573	☐	19-084	low grade		☐	☐	☑
108.93	109.40	0.47	GRD	0.44	94	K295574	☐	19-084	low grade		☐	☐	☐
109.40	109.83	0.43	GRD	0.42	98	W599229	☐	19-085	high grade		☐	☐	☐
109.83	110.54	0.71	GRD	0.70	99	W599230	☐	19-085	high grade		☐	☐	☐
110.54	110.84	0.30	GRD	0.30	100	W599231	☐	19-085	high grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
110.84	111.35	0.51	GRD	0.49	96	K295575	☐	19-084	low grade		☐	☐	☐
111.35	112.00	0.65	GRD	0.65	100	K295576	☐	19-084	low grade		☐	☐	☐
112.00	113.00	1.00	GRD	0.90	90	K295577	☐	19-084	low grade		☐	☐	☐
113.00	113.30	0.30	GRD	0.30	100	W599232	☐	19-085	high grade		☐	☐	☐
113.30	114.30	1.00	GRD	1.00	100	K295578	☐	19-084	low grade		☐	☐	☐
114.30	115.80	1.50	GRD, GRD	1.50	100	K295579	☐	19-084	low grade		☐	☐	☐
115.80	117.30	1.50	GRD	1.40	93	K295581	☐	19-084	low grade		☐	☐	☐
117.30	118.80	1.50	GRD	1.46	97	K295582	☐	19-084	low grade		☐	☐	☐
118.80	120.00	1.20	GRD	1.20	100	K295583	☐	19-084	low grade		☐	☐	☐
120.00	121.50	1.50	GRD	1.50	100	K295584	☐	19-084	low grade		☐	☐	☐
121.50	123.00	1.50	GRD	1.50	100	K295585	☐	19-084	low grade		☐	☐	☐
123.00	123.50	0.50	GRD	0.50	100	K295586	☐	19-084	low grade		☐	☐	☐
123.50	125.00	1.50	GRD	1.50	100	K295588	☐	19-084	low grade		☐	☐	☐
125.00	126.49	1.49	GRD	1.49	100	K295589	☐	19-084	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-083	K295533	0.00	0.00	0.30	510	☐	☐	☐	☑ ME-6	ME-6
19-083	K295540	0.00	0.00	1.66	210	☐	☐	☐	☑ KL-STD6	STD KL-6
19-083	K295555	0.00	0.00	0.00	20	☐	☐	☑	☐	BLANK
19-081	K295474	0.00	0.00	1.65	860	☐	☐	☐	☑ KL-STD6	STD KL-6
19-084	K295580	0.00	0.00	0.27	590	☐	☐	☐	☑ ME-6	ME-6
19-084	K295587	0.00	0.00	1.71	780	☐	☐	☐	☑ KL-STD6	STD-KL6
19-082	K295499	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6
19-082	K295507	0.00	0.00	0.00	20	☐	☐	☑	☐	BLAnk
19-082	K295513	0.00	0.00	1.86	850	☐	☐	☐	☑ KL-STD6	KL-6
19-081	K295472	2.00	3.50	0.01	1530	☐	☐	☐	☐	
19-081	K295473	3.50	5.00	0.00	950	☐	☐	☐	☐	
19-081	K295475	5.00	6.50	0.00	850	☐	☐	☐	☐	
19-081	K295476	6.50	7.77	0.02	750	☐	☐	☐	☐	
19-081	K295477	7.77	9.30	0.04	1930	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-081	K295478	9.30	10.80	0.03	2270	☐	☐	☐	☐	
19-081	K295479	10.80	12.30	0.06	2200	☐	☐	☐	☐	
19-081	K295480	12.30	13.80	0.32	870	☐	☐	☐	☐	
19-082	K295481	13.80	15.00	0.05	2390	☐	☐	☐	☐	
19-082	K295482	15.00	16.50	0.05	1850	☐	☐	☐	☐	
19-082	K295483	16.50	18.00	0.04	2330	☐	☐	☐	☐	
19-082	K295484	18.00	19.50	0.02	2180	☐	☐	☐	☐	
19-082	K295485	19.50	21.00	0.02	2260	☐	☐	☐	☐	
19-082	K295486	21.00	22.13	0.01	2090	☐	☐	☐	☐	
19-082	K295487	21.00	22.13	0.01	2170	☑	☐	☐	☐	1/4 dup
19-082	K295488	22.13	23.63	0.00	1340	☐	☐	☐	☐	
19-082	K295489	23.63	25.13	0.00	1020	☐	☐	☐	☐	
19-082	K295490	25.13	26.33	0.01	1820	☐	☐	☐	☐	
19-082	K295491	26.33	26.80	0.00	3650	☐	☐	☐	☐	
19-082	K295492	26.80	28.00	0.02	1880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-082	K295493	26.80	28.00	0.01	1930	☐	☑	☐	☐	coarse dup
19-082	K295494	28.00	29.50	0.02	2130	☐	☐	☐	☐	
19-082	K295514	29.50	30.53	0.00	1960	☐	☐	☐	☐	
19-082	K295495	30.53	31.54	0.48	950	☐	☐	☐	☐	
19-082	K295496	31.54	33.00	0.01	1290	☐	☐	☐	☐	
19-082	K295497	33.00	34.50	0.01	1500	☐	☐	☐	☐	
19-082	K295498	34.50	36.00	0.00	1050	☐	☐	☐	☐	
19-082	K295500	36.00	37.50	0.00	1220	☐	☐	☐	☐	
19-082	K295501	37.50	39.00	0.01	2110	☐	☐	☐	☐	
19-082	K295502	39.00	40.39	0.03	2360	☐	☐	☐	☐	
19-082	K295503	40.39	41.70	0.02	2040	☐	☐	☐	☐	
19-082	K295504	41.70	43.20	0.01	1700	☐	☐	☐	☐	
19-082	K295505	43.20	44.40	0.02	2390	☐	☐	☐	☐	
19-082	K295506	44.40	45.30	0.04	4260	☐	☐	☐	☐	
19-082	K295508	45.30	45.72	0.11	2780	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-082	K295509	45.72	46.25	0.04	970	☐	☐	☐	☐	
19-082	K295510	46.25	46.55	1.20	510	☐	☐	☐	☐	
19-082	K295511	46.55	47.55	0.03	2450	☐	☐	☐	☐	
19-082	K295512	47.55	49.00	0.11	2460	☐	☐	☐	☐	
19-082	K295515	49.00	50.50	0.09	3590	☐	☐	☐	☐	
19-082	K295516	50.50	52.00	0.04	2500	☐	☐	☐	☐	
19-082	K295517	52.00	53.00	0.16	2010	☐	☐	☐	☐	
19-082	K295518	53.00	54.50	0.04	2340	☐	☐	☐	☐	
19-082	K295519	54.50	55.55	0.05	1280	☐	☐	☐	☐	
19-082	K295520	55.55	56.18	0.19	600	☐	☐	☐	☐	
19-083	K295521	56.18	57.50	0.08	1730	☐	☐	☐	☐	
19-083	K295522	57.50	59.00	0.03	2890	☐	☐	☐	☐	
19-083	K295523	59.00	59.85	0.06	2530	☐	☐	☐	☐	
19-083	K295524	59.85	60.39	0.29	100	☐	☐	☐	☐	
19-083	K295525	60.39	61.89	0.23	1450	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-083	K295526	61.89	63.05	0.16	360	☐	☐	☐	☐	
19-083	K295527	63.05	64.00	0.06	1270	☐	☐	☐	☐	
19-083	K295528	63.05	64.00	0.07	1740	☑	☐	☐	☐	1/4 dup
19-083	K295529	64.00	65.50	0.07	1750	☐	☐	☐	☐	
19-083	K295530	65.50	67.00	0.07	3040	☐	☐	☐	☐	
19-083	K295531	67.00	68.50	0.04	3240	☐	☐	☐	☐	
19-083	K295532	68.50	69.50	0.07	2020	☐	☐	☐	☐	
19-083	K295534	69.50	71.00	0.08	1910	☐	☐	☐	☐	
19-083	K295535	71.00	72.50	0.08	1110	☐	☐	☐	☐	
19-083	K295536	72.50	74.00	0.08	1820	☐	☐	☐	☐	
19-083	K295537	74.00	75.50	0.10	880	☐	☐	☐	☐	
19-083	K295538	75.50	76.65	0.07	1720	☐	☐	☐	☐	
19-083	K295539	76.65	77.28	0.11	790	☐	☐	☐	☐	
19-049	W599225	77.28	77.80	1.64	60	☐	☐	☐	☐	HIGH grade
19-083	K295541	77.80	78.70	0.08	1140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-083	K295542	78.70	79.07	0.04	1860	☐	☐	☐	☐	
19-049	W599226	79.07	79.37	0.21	520	☐	☐	☐	☐	high grade
19-083	K295543	79.37	80.87	0.09	2330	☐	☐	☐	☐	
19-083	K295544	80.87	82.37	0.01	2330	☐	☐	☐	☐	
19-083	K295545	82.37	83.87	0.02	2120	☐	☐	☐	☐	
19-083	K295546	83.87	85.07	0.15	1270	☐	☐	☐	☐	
19-085	W599227	85.07	85.37	1.84	20	☐	☐	☐	☐	high grade
19-083	K295547	85.37	86.50	0.06	2030	☐	☐	☐	☐	
19-083	K295548	85.37	86.50	0.06	2030	☐	☑	☐	☐	Coarse dup
19-083	K295549	86.50	88.00	0.06	2640	☐	☐	☐	☐	
19-083	K295550	88.00	89.00	0.06	2190	☐	☐	☐	☐	
19-083	K295551	89.00	90.00	0.72	340	☐	☐	☐	☐	
19-085	W599228	90.00	90.47	1.13	40	☐	☐	☐	☐	high grade
19-083	K295552	90.47	91.50	0.14	1250	☐	☐	☐	☐	
19-083	K295553	91.50	92.85	0.06	1770	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-083	K295554	92.85	93.51	0.05	1560	☐	☐	☐	☐	
19-083	K295556	93.51	94.22	0.53	1610	☐	☐	☐	☐	
19-083	K295557	94.22	95.67	0.01	2120	☐	☐	☐	☐	
19-083	K295558	95.67	97.00	0.01	2330	☐	☐	☐	☐	
19-083	K295559	97.00	97.55	0.17	520	☐	☐	☐	☐	
19-083	K295560	97.55	98.42	0.12	850	☐	☐	☐	☐	
19-084	K295561	98.42	99.39	0.06	1370	☐	☐	☐	☐	
19-084	K295562	99.39	99.69	0.19	470	☐	☐	☐	☐	
19-084	K295563	99.69	101.00	0.03	1690	☐	☐	☐	☐	
19-084	K295564	101.00	102.30	0.02	1390	☐	☐	☐	☐	
19-084	K295565	102.30	103.04	0.13	300	☐	☐	☐	☐	
19-084	K295566	103.04	104.29	0.07	1710	☐	☐	☐	☐	
19-084	K295567	103.04	104.29	0.14	1460	☑	☐	☐	☐	1/4 dup
19-084	K295568	104.29	105.79	0.05	1890	☐	☐	☐	☐	
19-084	K295569	105.79	106.50	0.09	1510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-084	K295570	106.50	106.90	0.13	530	☐	☐	☐	☐	
19-084	K295571	106.90	107.90	0.41	630	☐	☐	☐	☐	
19-084	K295572	107.90	108.93	0.09	1610	☐	☐	☐	☐	
19-084	K295573	107.90	108.93	0.09	1630	☐	☑	☐	☐	COARSE DUP
19-084	K295574	108.93	109.40	0.12	1090	☐	☐	☐	☐	
19-085	W599229	109.40	109.83	4.33	60	☐	☐	☐	☐	high grade
19-085	W599230	109.83	110.54	1.04	400	☐	☐	☐	☐	high grade
19-085	W599231	110.54	110.84	0.43	160	☐	☐	☐	☐	high grade
19-084	K295575	110.84	111.35	0.72	430	☐	☐	☐	☐	
19-084	K295576	111.35	112.00	0.08	2120	☐	☐	☐	☐	
19-084	K295577	112.00	113.00	0.15	690	☐	☐	☐	☐	
19-085	W599232	113.00	113.30	0.92	610	☐	☐	☐	☐	high grade
19-084	K295578	113.30	114.30	0.11	350	☐	☐	☐	☐	
19-084	K295579	114.30	115.80	0.12	560	☐	☐	☐	☐	
19-084	K295581	115.80	117.30	0.02	2610	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-084	K295582	117.30	118.80	0.01	2860	☐	☐	☐	☐	
19-084	K295583	118.80	120.00	0.02	2390	☐	☐	☐	☐	
19-084	K295584	120.00	121.50	0.02	2400	☐	☐	☐	☐	
19-084	K295585	121.50	123.00	0.02	2240	☐	☐	☐	☐	
19-084	K295586	123.00	123.50	0.01	1930	☐	☐	☐	☐	
19-084	K295588	123.50	125.00	0.03	2320	☐	☐	☐	☐	
19-084	K295589	125.00	126.49	0.02	2090	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
9.58	9.65	BX	34	80	NUL	1	small breccia within propylitic latered granodiorite			
11.00	11.50	ST		70	NUL	4	small pyrite bearing stringers			
								Py	0.5	DI
13.00	13.30	ST		60	NUL	3	low angle carbonate veins related to faulting in grd above and below			
14.50	14.70	ST		65	NUL	4	pyrite bearing stringers			
								Py	0.1	DI
28.15	28.50	ST		60	NUL	4	small quartz carbonate veinlets with weak pyrite			
								Py	0.1	DI
32.81	33.37	FT	42	30	NUL	1	gouged fault zone in qfp dyke			
38.05	38.25	FT	42	70	NUL	1	gouged fault zone in qfp dyke			
42.65	42.75	ST		70	NUL	3	three small quartz veinlets with no pyrite, very fine grained, almost chalcedonic			
45.50	45.70	ST		70	NUL	2	two small vuggy quartz carbonate veins with no visible sulfides associated with them			
46.30	46.88	ST		70	NUL	8	eight small quartz carbonate veins ranging in size from 1mm to 5 mm, containing dissemineated banded pyrite and disseminated trace sphalerite			
								Sp	1	BN
								Py	2	DI
55.60	55.64	VN	37	40	NUL	1	2-3 cm wide rhodochrosite veinlet with pyrite and sphalerite along its outer margin.			
								Sp	1	BN
								Py	2	BN
56.86	56.92	FT	42	80	NUL	1	faulted brecia with dark grey matrix, no sulfdie			
60.04	60.11	VT	37	50	NUL	1	faulted quart carboatne veinlet with weak vuggy textures throughout, patchy prytie mineralization			
								Py	0.5	DI
63.05	63.30	ST		65	NUL	2	quartz carbonate veinlets 2 cm wid with vuggy textures; no sulfide			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
68.57	68.76	DY	37	30	NUL	1	siliceous qfp dyke interjecting along fault surface within naltere dgranodiorite			
77.27	77.55	VN	37	70	NUL	1	smokey quartz and quartz carbonate vein with semimassive pyrite and weak sphalerite mineraliation			
								Py	15	DI
								Sp	2	BN
82.24	82.50	ST		80	NUL	3	three small carbonate veinlets			
85.16	85.30	VN	37	80	NUL	1	semimassive pyritic quartz vein			
								Py	50	BN
88.00	90.00	ST		80	NUL	4	patcy banded pyrite hosted within 4 80 TCA quartz veinlets 1-2 cms			
								Py	1	BN
90.00	90.37	VN	37	65	NUL	1	banded smokey quartz vein with pyrite, sphalerite, and trace galena			
								Gn	0.1	DI
								Sp	1	BN
								Py	10	BN
99.22	97.00	DY	37	50	NUL	1	qfp dyke'weakly chloritied			
99.30	99.50	ST		55	NUL	2	pyrite bearing hairline stringers in granodiorite			
102.33	102.39	VT	37	50	NUL	1	small banded smoky qtz vein with trace pyrite and sphalerite.			
								Py	1	BN
								Sp	1	BN
102.85	102.96	VT	37	80	NUL	1	small banded smokey quartz vein with trace banded pyrite and sphalerite			
								Sp	1	BN
								Py	1	BN
109.58	109.65	FT	42	10	NUL	1	low angle fault/fracture with pyrite and sphalerite hosted in fracture and in surroundin granodiorite			
								Py	5	DI
								Sp	1	DI
110.61	110.65	VT	37	40	NUL	1	small 2 cm wide veinelt with rhodochrosite, pyrite, and sphalerite			
								Py	2	BN
								Sp	2	BN

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
111.11	111.16	BX	34	70	NUL	1	dark grey to black, finegrained breccia (dyke???) with weak dissem pyrite			
								Py	0.1	DI
113.00	114.00	ST		30	NUL	2	two small low angle quartz veinlets with disseminated patchy pyrite and milky quartz and smokey quart infill			
								Py	2.5	DI
114.15	114.25	VN	37	30	NUL	1	one small pyrite bearing heavily fractured fragmental quartz vein			
117.50	118.80	ST		8	NUL	3	three carbonate veinlets 1 cm wide without sulfide, but have brecciated textures within them, and a mixture of milky and smoky quartz			
119.00	119.50	FR	5	50	NUL	3	three carbonate fractures within fautled granodioirte			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382916	6889102	1449.97	152.4

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-454

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 5m, Out

Drilling Dates: Sep 22 - Sep 23, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
17	34.46	-49.8	Reflex
152	35.36	-49.6	Reflex

TARGET: Infill drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.21	1.21	OVB
1.21	3	1.79	GRD
3	7	4	GRD
7	7.94	0.94	GRD
7.94	12.15	4.21	GRD
12.15	16	3.85	GRD
16	18.25	2.25	GRD
18.25	19.5	1.25	GRD
19.5	20.74	1.24	GRD
20.74	22.98	2.24	GRD
22.98	24.3	1.32	GRD
24.3	24.95	0.65	GRD
24.95	25.93	0.98	GRD
25.93	29	3.07	GRD
29	30.75	1.75	GRD
30.75	31.63	0.88	GRD

SAMPLES	
Numbers:	K295590 to K295739
Total:	150
Batch:	084, 086, 087, 088, 090
Certificates:	WH19251846, WH19251848, WH19254141, WH19254149, WH19254152

COMMENTS

31.63	33.4	1.77	GRD
33.4	34.9	1.5	GRD
34.9	35.57	0.67	GRD
35.57	36.72	1.15	GRD
36.72	40.9	4.18	GRD
40.9	43.05	2.15	GRD
43.05	45.72	2.67	GRD
45.72	48.5	2.78	GRD
48.5	51	2.5	GRD
51	53	2	GRD
53	54.2	1.2	GRD
54.2	55	0.8	GRD
55	57.85	2.85	GRD
57.85	59	1.15	GRD
59	61.5	2.5	GRD
61.5	62.5	1	GRD
62.5	64.1	1.6	GRD
64.1	66.1	2	GRD
66.1	68.5	2.4	GRD
68.5	71.5	3	GRD
71.5	71.7	0.2	QFP
71.7	74.2	2.5	GRD
74.2	75.6	1.4	GRD
75.6	79	3.4	GRD
79	81.85	2.85	GRD
81.85	82.65	0.8	GRD
82.65	84.3	1.65	GRD
84.3	84.86	0.56	GRD
84.86	86.77	1.91	QFP
86.77	88	1.23	GRD
88	91	3	GRD
91	91.33	0.33	GRD

91.33	99.84	8.51	QFP
99.84	100.36	0.52	GRD
100.36	102.7	2.34	GRD
102.7	104.7	2	GRD
104.7	105.55	0.85	GRD
105.55	106.34	0.79	GRD
106.34	107	0.66	GRD
107	110.95	3.95	GRD
110.95	111.05	0.1	GRD
111.05	112.78	1.73	GRD
112.78	113.5	0.72	GRD
113.5	114.8	1.3	GRD
114.8	118.75	3.95	GRD
118.75	119.9	1.15	GRD
119.9	120.7	0.8	GRD
120.7	123	2.3	GRD
123	124.2	1.2	GRD
124.2	127.09	2.89	GRD
127.09	129	1.91	GRD
129	130	1	GRD
130	131.26	1.26	GRD
131.26	133.4	2.14	GRD
133.4	135.2	1.8	GRD
135.2	136.2	1	GRD
136.2	136.75	0.55	GRD
136.75	138	1.25	GRD
138	138.68	0.68	GRD
138.68	140.6	1.92	GRD
140.6	141	0.4	GRD
141	142.5	1.5	GRD
142.5	143.3	0.8	GRD
143.3	145	1.7	GRD

145	149.4	4.4	GRD
149.4	150	0.6	GRD
150	152.4	2.4	GRD

Box Log

KL -19-454

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.21	6.15
2	6.15	10.52
3	10.52	14.97
4	14.97	19.2
5	19.2	23.67
6	23.67	27.97
7	27.97	32.47
8	32.47	36.64
9	36.64	40.61
10	40.61	45
11	45	49.45
12	49.45	53.8
13	53.8	58.12
14	58.12	62.56
15	62.56	66.9
16	66.9	71.26
17	71.26	75.71
18	75.71	80.14
19	80.14	84.41
20	84.41	88.68
21	88.68	92.86
22	92.86	96.98
23	96.98	101.24
24	101.24	105.55
25	105.55	109.9
26	109.9	114.1
27	114.1	118.6
28	118.6	122.82
29	122.82	127.09
30	127.09	131.56
31	131.56	135.85
32	135.85	140.1
33	140.1	144.31
34	144.31	148.22
35	148.22	152.4

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-454									
	24.67	13	NTW	GRD	842.7	546.8	2.29	2.9	
	51.7	10	NTW	GRD	667.4	449.4	2.36	3.1	
	98.82	11	NTW	QFP	736.6	489.2	2.37	3.0	
	121.78	14	NTW	GRD	951.4	623.3	2.4	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.21	1.21	OVB	--	overburden							
1.21	3.00	1.79	GRD	--	mixture of 60% ovb and 40 % unaltered granodioirte							
3.00	7.00	4.00	GRD	MG	oxidized and bleachced, moderately argilli altered granodioirte, weak brownish grey to whitish grey, heavily oxidized and bleached							
						MD	GY		BLE	2I		
						LT	BN		ARG	3I		
						LT	WH		OXI	2I		
7.00	7.94	0.94	GRD	MG	unaltered granodioirte with two 3 mm wide 80 TCA quartz veinlets without sulfide							
7.94	12.15	4.21	GRD	MG	weak to moderately argillic altered and weak to moderately propylitic altered granodiorite with trace quartz carbonate veinlets with weak disseminated pyrite along them.							
						MD	BN		ARG	2I	Py	0.5
						MD	GY		PRO	2I		
						MD	GN					
12.15	16.00	3.85	GRD	MG	moderately argillic altered granodiorite with a weak propylitic overprint. 3 quartz carboante veinlets trending 40 TCA without sulfides are present in interval.							
						MD	GY		ARG	3I		
						MD	GN					
						LT	WH		PRO	1I		
16.00	18.25	2.25	GRD	MG	weakly argillic altered granodiorite, heavily oxidized and bleached, with rubbly heavily fractured sections in interval.							
						MD	BN		BLE	1I		
									OXI	3I		
									ARG	3I		
18.25	19.50	1.25	GRD	MG	unaltered granodiorite							
19.50	20.74	1.24	GRD	MG	weakly propylitic altered granodiorie with weak pyrite along hairline veinlets trending 60 TCA (only 2 ininterval)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	1I	Py	0.01
						MD	GN					
20.74	22.98	2.24	GRD	MG	unaltered granodiorite							
22.98	24.30	1.32	GRD	MG	moerately propylitic altered granodiorite with 6 small quartz stringers trending 70 TCA containing trace pyrite							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
24.30	24.95	0.65	GRD	MG	unaltered granodiorite							
24.95	25.93	0.98	GRD	MG	moderately propylitic altered granodioirte with two discrete intervals of quartz carbonate stockwork veining (3-5 cm intervals; described in secondary). These intervals have weak mineralizetion associated with them. Weak pyrite and trace galena							
						MD	GN		PRO	4I	Py	1
						MD	GY		SIL	1I	Gn	0.01
						MD	BN					
25.93	29.00	3.07	GRD	MG	weak to moderately propylitic altered granodiorite with weak quartz veining (hairline to veinlet; 6 veins in interval; ~70 TCA) with sparse sulfide mineralization in 3 of the 6 (trace pyrite)							
						MD	GN		PRO	2I	Py	0.1
						MD	GY		SIL	1I		
29.00	30.75	1.75	GRD	MG	trace propylitic altered granodiorite, with weak hairline stringers containing trace pyrite							
						MD	GY		PRO	1I		
						MD	GN					
30.75	31.63	0.88	GRD	MG	unaltered granodiorite							
31.63	33.40	1.77	GRD	MG	moderat to strongly propylitic altere granodiorite with trace disseminated pyrite and weak pyrite bearing quartz veinlets trending 50 TCA throughout (4 observed; 1-4 mm)							
						MD	GY		PRO	4I	Py	0.5
						MD	GN		SIL	1I		
33.40	34.90	1.50	GRD	MG	moderately argillic altered and weakly propylitic altered granodiorite with three small pyrite bearing quartz veinelts trending 60-70 TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	2I	Py	0.5
						MD	GN		ARG	4I		
34.90	35.57	0.67	GRD	MG	modertaely propylitic and silicified granodiorite with three 80 TCA quartz veinlets 1 cm in size, with associate dpyrite mineralization.							
						MD	GN		PRO	2I	Pg	1
						MD	GY		SIL	3I		
						MD	BN					
35.57	36.72	1.15	GRD	MG	merdium grained weakly argillic and propylitic altered granodiorite							
						MD	GY		PRO	2I		
									ARG	2I		
36.72	40.90	4.18	GRD	MG	moerately argillic altered, oxidizeed, weakly bleached granodiorite							
						MD	GY					
						MD	BN					
						MD	BF		ARG	3I		
40.90	43.05	2.15	GRD	MG	weakly argillic altered and weakly propylitic altered granodiorite with weak oxidative staining on fractures							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
43.05	45.72	2.67	GRD	MG	unaltred granodioirte							
45.72	48.50	2.78	GRD	MG	weakly to moderate argillic and propylitically altere granodioirte with 5 small quartz veinlets trending 70 TCA with weak pyrite along their margins.							
						MD	GN		PRO	2I	Py	0.2
						MD	GY		ARG	2I		
48.50	51.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
51.00	53.00	2.00	GRD	MG	moderately propylitic alatered granodiorite with weak argillic alteration for the last .5 m of the interval.							
						MD	GY					
						MD	GN		PRO	2I		
						LT	WH		ARG	1I		
53.00	54.20	1.20	GRD	MG	unaltered granodiorite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
54.20	55.00	0.80	GRD	MG	weakly propylitic altered granodiorite with one quartz veinlet trending 80 TCA with weak pyrite on margin							
						MD	GY					
						MD	GN		PRO	1I	Py	0.1
55.00	57.85	2.85	GRD	MG	patchily oxidized and weakly argillic/propylitic altered granodiorite with weak pyrite bearing quartz stringers trending 50 TCA with trace pyrite.							
						MD	GY		BLE	2I	Py	0.1
						MD	BN		OXI	2I		
									CLY	1I		
									PRO	2I		
57.85	59.00	1.15	GRD	MG	moderately propylitic altred granodiorite with wea argillic alteration, and two intervals of quartz carbonate veining up to 3 cm wide (one at beginning of interval; one at end). These veins trending 60-70 TCA with pyrite and trace sphalerite							
						MD	GY		PRO	2I	Py	1
						MD	GN		SIL	1I	Sp	0.5
59.00	61.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
61.50	62.50	1.00	GRD	MG	weakly propylitic altered granodiorite with 3 small 40 TCA veinlets with trace pyrite along them							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
62.50	64.10	1.60	GRD	MG	unaltered granodioirte							
64.10	66.10	2.00	GRD	MG	weak to trace propylitic altered granodioritet with weak hairline quartz tringer (7; trending 70 TCA) with trace pyrite.							
						MD	GY		PRO	2I	Py	0.1
						MD	GN					
66.10	68.50	2.40	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
68.50	71.50	3.00	GRD	MG	reltively unaltered granodiorite with patchy propylitic alteration surrounding hairline quartz veinlets trending 70 TCA with weak prytie along their margin							
						MD	GN		PRO	1I	Py	0.1
						MD	GY					
71.50	71.70	0.20	QFP	MG	weakly chloritized and clay altered quartz feldspar porphyry dyke, with sharp upper and lower contact trending 70 TCA							
71.70	74.20	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
74.20	75.60	1.40	GRD	MG	moderately argillic and propylitic altered granodiorite with 2 small quartz veinlets 70 TCA with trace pyrite along margins.							
						MD	GY		PRO	1I	Py	0.5
						LT	BN		ARG	2I		
									CLY	2I		
75.60	79.00	3.40	GRD	MG	unaltered granodioirte							
79.00	81.85	2.85	GRD	MG	weak to moderately propylitic and strongly silicified granodiorite with a distinct change in grain size (gets finegrained) as silicification increases. Weak quartz veining throughout without andy visible sulfides							
						MD	GY					
						LT	BN		PRO	2I		
						LT	GY		SIL	4I		
81.85	82.65	0.80	GRD	MG	brecciated, clay gouged and fractured interval of siliceous granodioirte.							
						MD	GY		SIL	2I		
						LT	BN					
						LT	GY		CLY	4I		
82.65	84.30	1.65	GRD	MG	weak to moderate, patchy argillic and patchy propylitic altered granodiorite; medium greyish green							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I		
84.30	84.86	0.56	GRD	MG	silicifed, stronlgy propylitic altered granodiorite with two pyrite bearing qartz veinlets 80 TCA (2 cm wide), with disseminated pyrite throughout groundmass.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	2I	Py	1.5
						DK	GY		SIL	3I		
84.86	86.77	1.91	QFP	MG	light greenish brown to brown, clay altered on fractures, sparsely brecciated quartz feldspar porphyry dyke with a sharp upper and lower contact trending 80 TCA, with weak mineralization in granodiorite extending 30 cm on either side of each contact.							
						MD	BN		OXI	2I		
						LT	GY		CLY	3I		
86.77	88.00	1.23	GRD	MG	moderately propylitic and wekaly silicifed granodioirte with weak alteration throuhgout, and 7 quartz veinlets containing pyrite trending 70 TCA, with weak disseminate pyrite throughout groundmass							
						MD	GY		PRO	3I	Py	1
88.00	91.00	3.00	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration, weakly oxidized							
						MD	BN		OXI	2I		
						MD	GY		ARG	2I		
						MD	GN		PRO	1I		
91.00	91.33	0.33	GRD	MG	silicified granodiorite with weak argillic alteration and weak oxidation. Near contact with QFP dyke is a small 5 cm interval trending 80 TCA with finegrained pyrite and galena in a banded drk gry to wht quartz carbonate /clay altered vein							
						MD	BN		ARG	2I	Py	2
						LT	GY		OXI	2I	Gn	0.1
						LT	GN		PRO	1I		
									CLY	2I		
91.33	99.84	8.51	QFP	MG	medium greenish grey to brownish grey feldspar porphyry dyke with weak clay alteration of feldspars. No mineralization within this dyke. Sharp upper and lower contact with altered granodiorite trending 80 TCA							
						MD	GN		CHL	1I		
						MD	GY		CLY	1I		
						MD	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.84	100.36	0.52	GRD	MG	brecciated, clay altered granodiorite. Heavily silicified, with patchy sulfide minerazliation throughout, likely relate to faulting and brecciation. Patchy pyrite and sphalerite mineralization occurs sporadically throughout interval.							
						MD	GY		PHC	4I	Sp	2
						DK	GY		SIL	4I	Py	3
									CLY	4I		
100.36	102.70	2.34	GRD	MG	stronly argillic and propylitic altered granodioirte with pyrite stringers and disseminated pyrite throughout, chaotic orientations of veinlets in this interval.							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		SIL	2I		
									ARG	3I		
102.70	104.70	2.00	GRD	MG	unlaterd granodioirte							
104.70	105.55	0.85	GRD	MG	moderately propylitic and siliceous granodiorite with two weak pyritebearing quartz veinlets 80 TCA							
						MD	GN		PRO	4I	Py	1
						MD	GY		SIL	2I		
105.55	106.34	0.79	GRD	MG	unaltered granodiorite							
						MD	GY					
106.34	107.00	0.66	GRD	MG	weakly propylitic and argillic altered granodiorite							
						MD	GY					
						MD	GN					
107.00	110.95	3.95	GRD	MG	unaltered granodiorite							
						MD	GY					
110.95	111.05	0.10	GRD	MG	granodiorite; unaltered. With one 90 TCA quartz vein with dissem py within							
						MD	GY		SIL	3I	Py	1
111.05	112.78	1.73	GRD	MG	unaltered granodioirte							
112.78	113.50	0.72	GRD	MG	moderately porpylitic and weakly silicified granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	1I	Py	0.5
113.50	114.80	1.30	GRD	MG	unaltered granodiorite							
						MD	GY					
114.80	118.75	3.95	GRD	MG	weak to moderate patchy propylitic and siliceous alteration within unaltered granodiorite. Altered intervals range from 10-30 cm and consist of propylitic and siliceous alteration, typically with a pyrite bearing quartz vein trending ~70-80 TCA (2-7 mm) in the core of the alteration. Halo extends around the veins, and is dark grey siliceous, grading into propylitic alteration, extending ~10-20 cm on either side of the veinlets.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	3I		
118.75	119.90	1.15	GRD	MG	unaltered granodioirte							
						MD	GY					
119.90	120.70	0.80	GRD	MG	weakly propylitic altered granodiorit with a set of hairline quartz stringers trending 50 TCA							
						MD	GN		PRO	3I		
						MD	GY					
120.70	123.00	2.30	GRD	MG	unaltered granodiorite							
123.00	124.20	1.20	GRD	MG	moderately argillic altered granodioirte with patchy weak propylitic overprint. To quartz veins 2 cm wide without sulfide trend 50 TCA in this interval							
						MD	GY		ARG	3I		
						MD	GN					
						LT	WH		PRO	2I		
124.20	127.09	2.89	GRD	MG	unaltered granodiorite with rare hairline stringers (2 in section; 50 TCA) with mm-scale propylitic alterationhaloes							
						MD	GY					
127.09	129.00	1.91	GRD	MG	moderately argillic altered granodioirte with weak propylici/silica alteration overprint near fractures, which host mm-scale pyrite stringers trending ~70 TCA.							
						MD	GY		ARG	3I		
						LT	WH		SIL	1I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	1I		
129.00	130.00	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
130.00	131.26	1.26	GRD	MG	patchy, weak, propylitic and argillicaly altered granodirotie with 4 mm-sclae quartz veinlets trending 70 TCA with trace pyrite.							
						MD	GY		PRO	3I	Py	0.5
						MD	GN		ARG	2I		
131.26	133.40	2.14	GRD	MG	moderate to strongly argillic altered granodiorite							
						MD	GY		ARG	4I		
						LT	WH					
133.40	135.20	1.80	GRD	MG	strongly porpylitic and modeately silicified granodiorite with two sets of pyrite beraing quartz veinlets developed sparsely throughout, a set that trends 40 TCA and another that trend 80 TCA. Four veinlets trend 40 TCA and the other two trend 80 TCA, with weak pyrite along them, varying in size from 2 mm to 10 mm							
						MD	GN		SIL	3I		
						MD	GY		PRO	2I	Py	1
135.20	136.20	1.00	GRD	MG	unaltered granodioirte							
136.20	136.75	0.55	GRD	MG	strongly porpylitic and modeately silicified granodiorite with twopyrite bearing quartz veinlets trending 70-80 TCA							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	3I		
136.75	138.00	1.25	GRD	MG	moderately argillic altered granodioirte							
						LT	GY		ARG	3I		
						LT	WH					
138.00	138.68	0.68	GRD	MG	faulted, fractueed and clay altered along fractures, light greyish green granodiorite with moderate propylitic and strong clay alteration; possibly related to faulting							
						MD	GY					
						LT	GN		CLY	4I		
						LT	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
138.68	140.60	1.92	GRD	MG	moderate to strongly propylitic altered granodiorite with weak to moderate argillic alteration. No sulfide bearing strginers in this interval							
						MD	GY					
						LT	WH					
140.60	141.00	0.40	GRD	MG	hevaily clay altered, gouged, granodiorite with sharp upper and loewr contact trending 40 TCA							
						LT	GN		PRO	2I		
						LT	GY		ARG	3I		
									CLY	5I		
141.00	142.50	1.50	GRD	MG	moderately argillic altered granodioirte with weak propylitic overprint							
						MD	GY					
						LT	GY		PRO	1I		
						LT	WH		ARG	4I		
142.50	143.30	0.80	GRD	MG	moderately propylitic and silicified granodioirte, dark grey to medium green							
						MD	GN		PRO	3I		
						DK	GY		SIL	3I		
143.30	145.00	1.70	GRD	MG	weakly argillic altered granodiorite with a weak propylitic overprint, and three quqartz stringers trending 70 TCA with weak disseminated pyrite.							
						MD	GY					
						LT	GN		ARG	2I		
						LT	WH					
						LT	GY		PRO	3I	Py	0.5
145.00	149.40	4.40	GRD	MG	moderate to strongly propylitic and siliceous granodioirte with weak to moderate 70 TCA quartz stringers developed throughout, with one zone of a 4 cm wide quartz vein trending 40 TCA with semimassive pyrite hosted within.							
						MD	GN		PRO	3I	Py	1.5
						MD	GY		SIL	2I		
149.40	150.00	0.60	GRD	MG	moderately argillic and propylitic altered granodiorite with no sulfie strigners							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
150.00	152.40	2.40	GRD	MG	unaltered granodiorite							
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.21	1.21	OVB	OVB	--	overburden
1.21	3.00	1.79	GRD	OVB	--	mixture of 60% ovb and 40 % unaltered granodioirte
3.00	7.00	4.00	GRD	GRDA	MG	oxidized and bleachced, moderately argilli altered granodioirte, weak brownish grey to whitish grey, heavily oxidized and bleached
7.00	7.94	0.94	GRD	GRD	MG	unaltered granodioirte with two 3 mm wide 80 TCA quartz veinlets without sulfide
7.94	12.15	4.21	GRD	GRDA	MG	weak to moderately argillic altered and weak to moderately propylitic altered granodiorite with trace quartz carbonate veinlets with weak disseminated pyrite along them.
12.15	16.00	3.85	GRD	GRDA	MG	moderately argillic altered granodiorite with a weak propylitic overprint. 3 quartz carboante veinlets trending 40 TCA without sulfides are present in interval.
16.00	18.25	2.25	GRD	GRDA	MG	weakly argillic altered granodiorite, heavily oxidized and bleached, with rubbly heavily fractured sections in interval.
18.25	19.50	1.25	GRD	GRD	MG	unaltered granodiorite
19.50	20.74	1.24	GRD	GRDA	MG	weakly propylitic altered granodiorie with weak pyrite along hairline veinlets trending 60 TCA (only 2 ininterval)
20.74	22.98	2.24	GRD	GRD	MG	unaltered granodiorite
22.98	24.30	1.32	GRD	GRDA	MG	moerately propylitic altered granodiorite with 6 small quartz stringers trending 70 TCA containing trace pyrite
24.30	24.95	0.65	GRD	GRD	MG	unaltered granodiorite
24.95	25.93	0.98	GRD	GRDA	MG	moderately propylitic altered granodioirte with two discrete intervals of quartz carbonate stockwork veining (3-5 cm intervals; described in secondary). These intervals have weak mineralizetion associated with them. Weak pyrite and trace galena
25.93	29.00	3.07	GRD	GRDA	MG	weak to moderately propylitic altered granodiorite with weak quartz veining (hairline to veinlet; 6 veins in interval; ~70 TCA) with sparse sulfide mineralization in 3 of the 6 (trace pyrite)
29.00	30.75	1.75	GRD	GRDA	MG	trace propylitic altered granodiorite, with weak hairline stringers containing trace pyrite
30.75	31.63	0.88	GRD	GRD	MG	unaltered granodiorite
31.63	33.40	1.77	GRD	GRDM	MG	moderat to strongly propylitic altere granodiorite with trace disseminated pyrite and weak pyrite bearing quartz veinlets trending 50 TCA throughout (4 observed; 1-4 mm)
33.40	34.90	1.50	GRD	GRDM	MG	moderately argillic altered and weakly propylitic altered granodiorite with three small pyrite bearing quartz veinelts trending 60-70 TCA.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
34.90	35.57	0.67	GRD	GRDM	MG	modertaely propylitic and silicified granodiorite with three 80 TCA quartz veinlets 1 cm in size, with associate dpyrite mineralization.
35.57	36.72	1.15	GRD	GRDA	MG	merdium grained weakly argillic and propylitic altered granodiorite
36.72	40.90	4.18	GRD	GRDA	MG	moerately argillic altered, oxidizeed, weakly bleached granodiorite
40.90	43.05	2.15	GRD	GRDA	MG	weakly argillic altered and weakly propylitic altered granodiorite with weak oxidative staining on fractures
43.05	45.72	2.67	GRD	GRD	MG	unaltred granodioirte
45.72	48.50	2.78	GRD	GRDA	MG	weakly to moderate argillic and propylitically altere granodioirte with 5 small quartz veinlets trending 70 TCA with weak pyrite along their margins.
48.50	51.00	2.50	GRD	GRD	MG	unaltered granodiorite
51.00	53.00	2.00	GRD	GRDA	MG	moderately propylitic alatered granodiorite with weak argillic alteration for the last .5 m of the interval.
53.00	54.20	1.20	GRD	GRD	MG	unaltered granodiorite
54.20	55.00	0.80	GRD	GRDA	MG	weakly propylitic altered granodiorite with one quartz veinlet trending 80 TCA with weak pyrite on margin
55.00	57.85	2.85	GRD	GRDA	MG	patchily oxidized and weakly argillic/propylitic altered granodiorite with weak pyrite bearing quartz stringers trending 50 TCA with trace pyrite.
57.85	59.00	1.15	GRD	GRDM	MG	moderately propylitic altred granodiorite with wea argillic alteration, and two intervals of quartz carbonate veining up to 3 cm wide (one at beginning of interval; one at end). These veins trending 60-70 TCA with pyrite and trace sphalerite
59.00	61.50	2.50	GRD	GRD	MG	unaltered granodiorite
61.50	62.50	1.00	GRD	GRDA	MG	weakly propylitic altered granodiorite with 3 small 40 TCA veinlets with trace pyrite along them
62.50	64.10	1.60	GRD	GRD	MG	unaltered granodioirte
64.10	66.10	2.00	GRD	GRDA	MG	weak to trace propylitic altered granodioritet with weak hairline quartz tringer (7; trending 70 TCA) with trace pyrite.
66.10	68.50	2.40	GRD	GRD	MG	unaltered granodiorite
68.50	71.50	3.00	GRD	GRDA	MG	reltively unaltered granodiorite with patchy propylitic alteration surrounding hairline quartz veinlets trending 70 TCA with weak prytie along their margin
71.50	71.70	0.20	QFP	DYK	MG	weakly chloritized and clay altered quartz feldspar porphyry dyke, with sharp upper and lower contact trending 70 TCA
71.70	74.20	2.50	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
74.20	75.60	1.40	GRD	GRDA	MG	moderately argillic and propylitic altered granodiorite with 2 small quartz veinlets 70 TCA with trace pyrite along margins.
75.60	79.00	3.40	GRD	GRD	MG	unaltered granodioirte
79.00	81.85	2.85	GRD	GRDA	MG	weak to moderately propylitic and strongly silicified granodiorite with a distinct change in grain size (gets finegrained) as silicification increases. Weak quartz veining throughout without andy visible sulfides
81.85	82.65	0.80	GRD	GRDF	MG	brecciated, clay gouged and fractured interval of siliceous granodioirte.
82.65	84.30	1.65	GRD	GRDA	MG	weak to moderate, patchy argillic and patchy propylitic altered granodiorite; medium greyish green
84.30	84.86	0.56	GRD	GRDM	MG	silicifed, stronlgy propylitic altered granodiorite with two pyrite bearing qartz veinlets 80 TCA (2 cm wide), with disseminated pyrite throughout groundmass.
84.86	86.77	1.91	QFP	DYK	MG	light greenish brown to brown, clay altered on fractures, sparsely brecciated quartz feldspar porphyry dyke with a sharp upper and lower contact trending 80 TCA, with weak mineralization in granodiorite extending 30 cm on either side of each contact.
86.77	88.00	1.23	GRD	GRDM	MG	moderately propylitic and wekaly silicifed granodioirte with weak alteration throuhgout, and 7 quartz veinlets containing pyrite trending 70 TCA, with weak disseminate pyrite throughout groundmass
88.00	91.00	3.00	GRD	GRDA	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration, weakly oxidized
91.00	91.33	0.33	GRD	GRDM	MG	silicified granodiorite with weak argillic alteration and weak oxidation. Near contact with QFP dyke is a small 5 cm interval trending 80 TCA with finegrained pyrite and galena in a banded drk gry to wht quartz carbonate /clay altered vein
91.33	99.84	8.51	QFP	DYK	MG	medium greenish grey to brownish grey feldspar porphyry dyke with weak clay alteration of feldspars. No mineralization within this dyke. Sharp upper and lower contact with altered granodiorite trending 80 TCA
99.84	100.36	0.52	GRD	GRDM	MG	brecciated, clay altered granodiorite. Heavily silicified, with patchy sulfide minerazliation throughout, likely relate to faulting and brecciation. Patchy pyrite and sphalerite mineralization occurs sporadically throughout interval.
100.36	102.70	2.34	GRD	GRDM	MG	stronly argillic and propylitic altered granodioirte with pyrite stringers and disseminated pyrite throughout, chaotic orientations of veinlets in this interval.
102.70	104.70	2.00	GRD	GRD	MG	unlaterd granodioirte
104.70	105.55	0.85	GRD	GRDM	MG	moderately propylitic and siliceous granodiorite with two weak pyritebearing quartz veinlets 80 TCA
105.55	106.34	0.79	GRD	GRD	MG	unaltered granodiorite
106.34	107.00	0.66	GRD	GRDA	MG	weakly propylitic and argillic altered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
107.00	110.95	3.95	GRD	GRD	MG	unaltered granodiorite
110.95	111.05	0.10	GRD	GRDM	MG	granodiorite; unaltered. With one 90 TCA quartz vein with dissem py within
111.05	112.78	1.73	GRD	GRD	MG	unaltered granodioirte
112.78	113.50	0.72	GRD	GRDA	MG	moderately porpylitic and weakly silicified granodiorite with two small pyrite bearing quartz veinlets
113.50	114.80	1.30	GRD	GRD	MG	unaltered granodiorite
114.80	118.75	3.95	GRD	GRDA	MG	weak to moderate patchy propylitic and siliceous alteration within unaltered granodiorite. Altered intervals range from 10-30 cm and consist of propylitic and siliceous alteration, typically with a pyrite bearing quartz vein trending ~70-80 TCA (2-7 mm) in the core of the alteration. Halo extends around the veins, and is dark grey siliceous, grading into propylitic alteration, extending ~10-20 cm on either side of the veinlets.
118.75	119.90	1.15	GRD	GRD	MG	unaltered granodioirte
119.90	120.70	0.80	GRD	GRDA	MG	weakly propylitic altered granodiorit with a set of hairline quartz stringers trending 50 TCA
120.70	123.00	2.30	GRD	GRD	MG	unaltered granodiorite
123.00	124.20	1.20	GRD	GRDA	MG	moderately argillic altered granodioirte with patchy weak propylitic overprint. To quartz veins 2 cm wide without sulfide trend 50 TCA in this interval
124.20	127.09	2.89	GRD	GRD	MG	unaltered granodiorite with rare hairline stringers (2 in section; 50 TCA) with mm-scale propylitic alterationhaloes
127.09	129.00	1.91	GRD	GRDA	MG	moderately argillic altered granodioirte with weak propylici/silica alteration overprint near fractures, which host mm-scale pyrite stringers trending ~70 TCA.
129.00	130.00	1.00	GRD	GRD	MG	unaltered granodiorite
130.00	131.26	1.26	GRD	GRDA	MG	patchy, weak, propylitic and argillicaly altered granodirotie with 4 mm-sclae quartz veinlets trending 70 TCA with trace pyrite.
131.26	133.40	2.14	GRD	GRDA	MG	moderate to strongly argillic altered granodiorite
133.40	135.20	1.80	GRD	GRDM	MG	strongly porpylitic and modeately silicified granodiorite with two sets of pyrite beraing quartz veinlets developed sparsely throughout, a set that trends 40 TCA and another that trend 80 TCA. Four veinlets trend 40 TCA and the other two trend 80 TCA, with weak pyrite along them, varying in size from 2 mm to 10 mm
135.20	136.20	1.00	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
136.20	136.75	0.55	GRD	GRDM	MG	strongly porpylitic and modeately silicified granodiorite with twopyrite bearing quartz veinlets trending 70-80 TCA
136.75	138.00	1.25	GRD	GRDA	MG	moderately argillic altered granodioirte
138.00	138.68	0.68	GRD	GRDF	MG	faulted, fractueed and clay altered along fractures, light greyish green granodiorite with moderate propylitic and strong clay alteration; possibly related to faulting
138.68	140.60	1.92	GRD	GRDA	MG	moderate to strongly propylitic altered granodiorite with weak to moderate argillic alteration. No sulfide bearing strginers in this interval
140.60	141.00	0.40	GRD	GRDF	MG	hevaily clay altered, gouged, granodiorite with sharp upper and loewr contact trending 40 TCA
141.00	142.50	1.50	GRD	GRDA	MG	moderately argillic altered granodioirte with weak propylitic overprint
142.50	143.30	0.80	GRD	GRDA	MG	moderately propylitic and silicified granodioirte, dark grey to medium green
143.30	145.00	1.70	GRD	GRDA	MG	weakly argillic altered granodiorite with a weak propylitic overprint, and three quqartz stringers trending 70 TCA with weak disseminated pyrite.
145.00	149.40	4.40	GRD	GRDM	MG	moderate to strongly propylitic and siliceous granodioirte with weak to moderate 70 TCA quartz stringers developed throughout, with one zone of a 4 cm wide quartz vein trending 40 TCA with semimassive pyrite hosted within.
149.40	150.00	0.60	GRD	GRDA	MG	moderately argillic and propylitic altered granodiorite with no sulfie strigners
150.00	152.40	2.40	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.21	1.21	OVB	--	overburden							
1.21	3.00	1.79	GRD	--	mixture of 60% ovb and 40 % unaltered granodioirte							
3.00	7.00	4.00	GRD	MG	oxidized and bleachced, moderately argilli altered granodioirte, weak brownish grey to whitish grey, heavily oxidized and bleached							
						LT	BN		OXI	2I		
						LT	WH		BLE	2I		
						MD	GY		ARG	3I		
7.00	7.94	0.94	GRD	MG	unaltered granodioirte with two 3 mm wide 80 TCA quartz veinlets without sulfide							
7.94	12.15	4.21	GRD	MG	weak to moderately argillic altered and weak to moderately propylitic altered granodiorite with trace quartz carbonate veinlets with weak disseminated pyrite along them.							
						MD	GY		ARG	2I	Py	0.5
						MD	GN		PRO	2I		
						MD	BN					
12.15	16.00	3.85	GRD	MG	moderately argillic altered granodiorite with a weak propylitic overprint. 3 quartz carboante veinlets trending 40 TCA without sulfides are present in interval.							
						LT	WH		PRO	1I		
						MD	GN		ARG	3I		
						MD	GY					
16.00	18.25	2.25	GRD	MG	weakly argillic altered granodiorite, heavily oxidized and bleached, with rubbly heavily fractured sections in interval.							
						MD	BN		ARG	3I		
									BLE	1I		
									OXI	3I		
18.25	19.50	1.25	GRD	MG	unaltered granodiorite							
19.50	20.74	1.24	GRD	MG	weakly propylitic altered granodiorie with weak pyrite along hairline veinlets trending 60 TCA (only 2 ininterval)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	1I	Py	0.01
						MD	GN					
20.74	22.98	2.24	GRD	MG	unaltered granodiorite							
22.98	24.30	1.32	GRD	MG	moerately propylitic altered granodiorite with 6 small quartz stringers trending 70 TCA containing trace pyrite							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
24.30	24.95	0.65	GRD	MG	unaltered granodiorite							
24.95	25.93	0.98	GRD	MG	moderately propylitic altered granodioirte with two discrete intervals of quartz carbonate stockwork veining (3-5 cm intervals; described in secondary). These intervals have weak mineralizetion associated with them. Weak pyrite and trace galena							
						MD	BN		PRO	4I	Py	1
						MD	GY					
						MD	GN		SIL	1I	Gn	0.01
25.93	29.00	3.07	GRD	MG	weak to moderately propylitic altered granodiorite with weak quartz veining (hairline to veinlet; 6 veins in interval; ~70 TCA) with sparse sulfide mineralization in 3 of the 6 (trace pyrite)							
						MD	GY		SIL	1I	Py	0.1
						MD	GN		PRO	2I		
29.00	30.75	1.75	GRD	MG	trace propylitic altered granodiorite, with weak hairline stringers containing trace pyrite							
						MD	GN		PRO	1I		
						MD	GY					
30.75	31.63	0.88	GRD	MG	unaltered granodiorite							
31.63	33.40	1.77	GRD	MG	moderat to strongly propylitic altere granodiorite with trace disseminated pyrite and weak pyrite bearing quartz veinlets trending 50 TCA throughout (4 observed; 1-4 mm)							
						MD	GN		SIL	1I		
						MD	GY		PRO	4I	Py	0.5
33.40	34.90	1.50	GRD	MG	moderately argillic altered and weakly propylitic altered granodiorite with three small pyrite bearing quartz veinelts trending 60-70 TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		ARG	4I		
						MD	GN		PRO	2I	Py	0.5
34.90	35.57	0.67	GRD	MG	modertaely propylitic and silicified granodiorite with three 80 TCA quartz veinlets 1 cm in size, with associate dpyrite mineralization.							
						MD	GY		SIL	3I		
						MD	BN					
						MD	GN		PRO	2I	Pg	1
35.57	36.72	1.15	GRD	MG	merdium grained weakly argillic and propylitic altered granodiorite							
						MD	GY		PRO	2I		
									ARG	2I		
36.72	40.90	4.18	GRD	MG	moerately argillic altered, oxidizeed, weakly bleached granodiorite with heavily fractured intervals up to 40 cm that are oxidized, possibly representing faulting							
						MD	BF					
						MD	GY					
						MD	BN		ARG	3I		
40.90	43.05	2.15	GRD	MG	weakly argillic altered and weakly propylitic altered granodiorite with weak oxidative staining on fractures							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
43.05	45.72	2.67	GRD	MG	unaltred granodioirte							
45.72	48.50	2.78	GRD	MG	weakly to moderate argillic and propylitically altere granodioirte with 5 small quartz veinlets trending 70 TCA with weak pyrite along their margins.							
						MD	GN		PRO	2I	Py	0.2
						MD	GY		ARG	2I		
48.50	51.00	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
51.00	53.00	2.00	GRD	MG	moderately propylitic alatered granodiorite with weak argillic alteration for the last .5 m of the interval.							
						MD	GY		PRO	2I		
						LT	WH		ARG	1I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
53.00	54.20	1.20	GRD	MG	unaltered granodiorite							
						MD	GY					
54.20	55.00	0.80	GRD	MG	weakly propylitic altered granodiorite with one quartz veinlet trending 80 TCA with weak pyrite on margin							
						MD	GN					
						MD	GY		PRO	1I	Py	0.1
55.00	57.85	2.85	GRD	MG	patchily oxidized and weakly argillic/propylitic altered granodiorite with weak pyrite bearing quartz stringers trending 50 TCA with trace pyrite.							
						MD	BN		BLE	2I	Py	0.1
									OXI	2I		
									PRO	2I		
						MD	GY		CLY	1I		
57.85	59.00	1.15	GRD	MG	moderately propylitic altred granodiorite with wea argillic alteration, and two intervals of quartz carbonate veining up to 3 cm wide (one at beginning of interval; one at end). These veins trending 60-70 TCA with pyrite and trace sphalerite							
						MD	GY		SIL	1I	Sp	0.5
						MD	GN		PRO	2I	Py	1
59.00	61.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
61.50	62.50	1.00	GRD	MG	weakly propylitic altered granodiorite with 3 small 40 TCA veinlets with trace pyrite along them							
						MD	GN					
						MD	GY		PRO	2I	Py	0.1
62.50	64.10	1.60	GRD	MG	unaltered granodioirte							
64.10	66.10	2.00	GRD	MG	weak to trace propylitic altered granodioritet with weak hairline quartz tringer (7; trending 70 TCA) with trace pyrite.							
						MD	GN		PRO	2I	Py	0.1
						MD	GY					
66.10	68.50	2.40	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
68.50	71.50	3.00	GRD	MG	reltively unaltered granodiorite with patchy propylitic alteration surrounding hairline quartz veinlets trending 70 TCA with weak prytie along their margin							
						MD	GN					
						MD	GY		PRO	1I	Py	0.1
71.50	71.70	0.20	QFP	MG	weakly chloritized and clay altered quartz feldspar porphyry dyke, with sharp upper and lower contact trending 70 TCA							
71.70	74.20	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
74.20	75.60	1.40	GRD	MG	weakly chloritized and clay altered quartz feldspar porphyry dyke, with sharp upper and lower contact trending 70 TCA							
						MD	GY		ARG	2I	Py	0.5
						LT	BN		PRO	1I		
									CLY	2I		
75.60	79.00	3.40	GRD	MG	unaltered granodioirte							
79.00	81.85	2.85	GRD	MG	weak to moderately propylitic and strongly silicified granodiorite with a distinct change in grain size (gets finegrained) as silicification increases. Weak quartz veining throughout without andy visible sulfides							
						MD	GY		PRO	2I		
						LT	GY		SIL	4I		
						LT	BN					
81.85	82.65	0.80	GRD	MG	brecciated, clay gouged and fractured interval of siliceous granodioirte. Fault ahs sharp upper and lower contact trending 30 TCA							
						MD	GY					
						LT	BN		CLY	4I		
						LT	GY		SIL	2I		
82.65	84.30	1.65	GRD	MG	weak to moderate, patchy argillic and patchy propylitic altered granodiorite; medium greyish green							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.30	84.86	0.56	GRD	MG	silicifed, stronlgy propylitic altered granodiorite with two pyrite bearing qartz veinlets 80 TCA (2 cm wide), with disseminated pyrite throughout groundmass.							
						DK	GY		PRO	2I		
						MD	GY		SIL	3I	Py	1.5
84.86	86.77	1.91	QFP	MG	light greenish brown to brown, clay altered on fractures, sparsely brecciated quartz feldspar porphyry dyke with a sharp upper and lower contact trending 80 TCA, with weak mineralization in granodiorite extending 30 cm on either side of each contact.							
						LT	GY		CLY	3I		
						MD	BN		OXI	2I		
86.77	88.00	1.23	GRD	MG	moderately propylitic and wekaly silicifed granodioirte with weak alteration throuhgout, and 7 quartz veinlets containing pyrite trending 70 TCA, with weak disseminate pyrite throughout groundmass							
						MD	GY		PRO	3I	Py	1
88.00	91.00	3.00	GRD	MG	weak to moderate argillic altered granodiorite with weak to moderate propylitic alteration, weakly oxidized							
						MD	GN		ARG	2I		
						MD	GY		OXI	2I		
						MD	BN		PRO	1I		
91.00	91.33	0.33	GRD	MG	silicified granodiorite with weak argillic alteration and weak oxidation. Near contact with QFP dyke is a small 5 cm interval trending 80 TCA with finegrained pyrite and galena in a banded drk gry to wht quartz carbonate /clay altered vein							
						MD	BN		ARG	2I	Gn	0.1
						LT	GY		PRO	1I	Py	2
									OXI	2I		
						LT	GN		CLY	2I		
91.33	99.84	8.51	QFP	MG	medium greenish grey to brownish grey feldspar porphyry dyke with weak clay alteration of feldspars. No mineralization within this dyke. Sharp upper and lower contact with altered granodiorite trending 80 TCA							
						MD	GY		CLY	1I		
						MD	BN					
						MD	GN		CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.84	100.36	0.52	GRD	MG	brecciated, clay altered granodiorite. Heavily silicified, with patchy sulfide minerazliation throughout, likely relate to faulting and brecciation. Patchy pyrite and sphalerite mineralization occurs sporadically throughout interval.							
									SIL	4I		
						MD	GY		CLY	4I	Sp	2
						DK	GY		PHC	4I	Py	3
100.36	102.70	2.34	GRD	MG	stronly argillic and propylitic altered granodioirte, patchily silicified, with 70 TCA pyrite stringers and disseminated pyrite throughout,							
						MD	GY		PRO	4I	Py	0.5
						MD	GN		SIL	2I		
									ARG	3I		
102.70	104.70	2.00	GRD	MG	unlaterd granodioirte							
104.70	105.55	0.85	GRD	MG	moderately propylitic and siliceous granodiorite with two weak pyritebearing quartz veinlets 80 TCA							
						MD	GY		SIL	2I		
						MD	GN		PRO	4I	Py	1
105.55	106.34	0.79	GRD	MG	unaltered granodiorite							
						MD	GY					
106.34	107.00	0.66	GRD	MG	weakly propylitic and argillic altered granodiorite							
						MD	GN					
						MD	GY					
107.00	110.95	3.95	GRD	MG	unaltered granodiorite							
						MD	GY					
110.95	111.05	0.10	GRD	MG	granodiorite; unaltered. With one 90 TCA quartz vein with dissem py within							
						MD	GY		SIL	3I	Py	1
111.05	112.78	1.73	GRD	MG	unaltered granodioirte							
112.78	113.50	0.72	GRD	MG	moderately porpylitic and weakly silicified granodiorite with two small pyrite bearing quartz veinlets							
						MD	GN		SIL	1I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I		
113.50	114.80	1.30	GRD	MG	unaltered granodiorite							
						MD	GY					
114.80	118.75	3.95	GRD	MG	weak to moderate patchy propylitic and siliceous alteration within unaltered granodiorite. Altered intervals range from 10-30 cm and consist of propylitic and siliceous alteration, typically with a pyrite bearing quartz vein trending ~70-80 TCA (2-7 mm) in the core of the alteration. Halo extends around the veins, and is dark grey siliceous, grading into propylitic alteration, extending ~10-20 cm on either side of the veinlets.							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	3I		
118.75	119.90	1.15	GRD	MG	unaltered granodioirte							
						MD	GY					
119.90	120.70	0.80	GRD	MG	weakly propylitic altered granodiorit with a set of hairline quartz stringers trending 50 TCA							
						MD	GY		PRO	3I		
						MD	GN					
120.70	123.00	2.30	GRD	MG	unaltered granodiorite							
123.00	124.20	1.20	GRD	MG	moderately argillic altered granodioirte with patchy weak propylitic overprint. To quartz veins 2 cm wide without sulfide trend 50 TCA in this interval							
						LT	WH		PRO	2I		
						MD	GY		ARG	3I		
						MD	GN					
124.20	127.09	2.89	GRD	MG	unaltered granodiorite with rare hairline stringers (2 in section; 50 TCA) with mm-scale propylitic alterationhaloes							
						MD	GY					
127.09	129.00	1.91	GRD	MG	moderately argillic altered granodioirte with weak propylici/silica alteration overprint near fractures, which host mm-scale pyrite stringers trending ~70 TCA.							
						LT	WH		PRO	1I		
						MD	GY		SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		ARG	3I	Py	0.5
129.00	130.00	1.00	GRD	MG	unaltered granodiorite							
						MD	GY					
130.00	131.26	1.26	GRD	MG	patchy, weak, propylitic and argillicaly altered granodirotie with 4 mm-sclae quartz veinlets trending 70 TCA with trace pyrite.							
						MD	GY		PRO	3I		
						MD	GN		ARG	2I	Py	0.5
131.26	133.40	2.14	GRD	MG	moderate to strongly argillic altered granodiorite							
						LT	WH		ARG	4I		
						MD	GY					
133.40	135.20	1.80	GRD	MG	strongly porpylitic and modeately silicified granodiorite with two sets of pyrite beraing quartz veinlets developed sparsely throughout, a set that trends 40 TCA and another that trend 80 TCA. Four veinlets trend 40 TCA and the other two trend 80 TCA, with weak pyrite along them, varying in size from 2 mm to 10 mm							
						MD	GN		SIL	3I		
						MD	GY		PRO	2I	Py	1
135.20	136.20	1.00	GRD	MG	unaltered granodioirte							
136.20	136.75	0.55	GRD	MG	strongly porpylitic and modeately silicified granodiorite with twopyrite bearing quartz veinlets trending 70-80 TCA							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	3I		
136.75	138.00	1.25	GRD	MG	moderately argillic altered granodioirte							
						LT	WH		ARG	3I		
						LT	GY					
138.00	138.68	0.68	GRD	MG	faulted, fractueed and clay altered along fractures, light greyish green granodiorite with moderate propylitic and strong clay alteration; possibly related to faulting							
						MD	GY		CLY	4I		
						LT	GN		PRO	2I		
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
138.68	140.60	1.92	GRD	MG	moderate to strongly propylitic altered granodiorite with weak to moderate argillic alteration. No sulfide bearing strginers in this interval							
						MD	GY		PRO	4I		
						LT	WH		ARG	2I		
140.60	141.00	0.40	GRD	MG	hevaily clay altered, gouged, granodiorite with sharp upper and loewr contact trending 40 TCA							
						LT	GN		ARG	3I		
									PRO	2I		
						LT	GY		CLY	5I		
141.00	142.50	1.50	GRD	MG	moderately argillic altered granodioirte with weak propylitic overprint							
						MD	GY		PRO	1I		
						LT	WH		ARG	4I		
						LT	GY					
142.50	143.30	0.80	GRD	MG	moderately propylitic and silicified granodioirte, dark grey to medium green							
						DK	GY		PRO	3I		
						MD	GN		SIL	3I		
143.30	145.00	1.70	GRD	MG	weakly argillic altered granodiorite with a weak propylitic overprint, and three quqartz stringers trending 70 TCA with weak disseminated pyrite.							
						LT	GY		PRO	3I	Py	0.5
						LT	WH					
						MD	GY					
						LT	GN		ARG	2I		
145.00	149.40	4.40	GRD	MG	moderate to strongly propylitic and siliceous granodioirte with weak to moderate 70 TCA quartz stringers developed throughout, with one zone of a 4 cm wide quartz vein trending 40 TCA with semimassive pyrite hosted within.							
						MD	GY		PRO	3I	Py	1.5
						MD	GN		SIL	2I		
149.40	150.00	0.60	GRD	MG	moderately argillic and propylitic altered granodiorite with no sulfie strigners							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
150.00	152.40	2.40	GRD	MG	unaltered granodiorite							
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					

KL -19-454

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.18	12	0.00	0	--	1H	6W	Soil and Overburden
1.52	3.05	1.53	0.52	34	0.00	0	--	2H	6W	Soil and overburden
3.05	4.57	1.52	1.23	81	0.21	14	--	2H	4W	
4.57	6.10	1.53	1.46	95	0.93	61	--	3H	3W	
6.10	7.62	1.52	1.42	93	1.23	81	--	3H	3W	
7.62	9.14	1.52	1.49	98	1.15	76	--	3H	2W	
9.14	12.19	3.05	2.97	97	2.27	74	--	3H	2W	
12.19	15.24	3.05	3	98	2.66	87	--	3H	2W	
15.24	18.29	3.05	2.84	93	1.66	54	--	3H	2W	
18.29	21.34	3.05	3.02	99	2.72	89	--	3H	2W	
21.34	24.38	3.04	2.92	96	2.72	89	--	4H	2W	
24.38	27.43	3.05	2.99	98	2.08	68	--	3H	2W	
27.43	30.48	3.05	3	98	2.86	94	--	4H	1W	
30.48	33.53	3.05	3.02	99	2.69	88	--	3H	2W	
33.53	36.58	3.05	3.05	100	2.53	83	--	3H	3W	
36.58	39.62	3.04	2.9	95	1.36	45	--	3H	2W	
39.62	42.67	3.05	3.01	99	1.84	60	--	3H	2W	
42.67	45.72	3.05	3.02	99	2.96	97	--	4H	1W	
45.72	48.77	3.05	3.04	100	2.73	90	--	3H	1W	
48.77	51.82	3.05	3.05	100	2.84	93	--	4H	1W	
51.82	54.86	3.04	2.99	98	2.49	82	--	4H	2W	
54.86	57.91	3.05	2.96	97	2.40	79	--	3H	2W	
57.91	60.96	3.05	3.03	99	2.90	95	--	4H	1W	
60.96	64.01	3.05	3.05	100	2.83	93	--	4H	1W	
64.01	67.06	3.05	3.05	100	3.01	99	--	4H	1W	
67.06	70.10	3.04	3	99	2.86	94	--	4H	1W	
70.10	73.15	3.05	3.05	100	2.84	93	--	4H	1W	
73.15	76.20	3.05	2.99	98	2.09	69	--	3H	2W	
76.20	79.25	3.05	3.04	100	2.92	96	--	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	82.30	3.05	2.92	96	2.18	71	--	4H	2W	
82.30	85.34	3.04	2.83	93	1.72	57	--	3H	2W	
85.34	88.39	3.05	3	98	2.40	79	--	3H	2W	
88.39	94.49	6.10	3.01	49	2.67	44	--	3H	1W	
94.49	97.54	3.05	3.05	100	2.06	68	--	3H	1W	
97.54	100.58	3.04	3.02	99	0.71	23	--	3H	2W	
100.58	103.63	3.05	3.01	99	2.42	79	--	3H	2W	
103.63	106.68	3.05	3.05	100	1.77	58	--	3H	2W	
106.68	109.73	3.05	3.02	99	2.27	74	--	4H	1W	
109.73	112.78	3.05	3.05	100	2.83	93	--	4H	1W	
112.78	115.82	3.04	3.04	100	2.67	88	--	4H	1W	
115.82	118.87	3.05	3.05	100	2.79	91	--	3H	1W	
118.87	121.92	3.05	3.05	100	3.01	99	--	4H	1W	
121.92	124.97	3.05	3.03	99	2.85	93	--	4H	1W	
124.97	126.49	1.52	1.52	100	1.40	92	--	4H	1W	
126.49	129.54	3.05	3.05	100	2.76	90	--	3H	1W	
129.54	132.59	3.05	3	98	1.77	58	--	2H	1W	
132.59	135.64	3.05	3.05	100	2.41	79	--	2H	1W	
135.64	138.68	3.04	3.02	99	2.40	79	--	2H	1W	
138.68	141.73	3.05	3.04	100	2.08	68	--	2H	1W	
141.73	144.78	3.05	3.05	100	2.50	82	--	3H	1W	
144.78	147.83	3.05	3.05	100	2.28	75	--	3H	1W	
147.83	150.88	3.05	3.05	100	1.96	64	--	4H	1W	
150.88	152.40	1.52	1.52	100	0.78	51	--	4H	1W	EOH

Magnetic Suscepatibility

KL -19-454

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	11.5	OVB	
2	0	GRD	highly fractured
3	0.202	GRD	
3	0.202	GRD	
4	0.324	GRD	
5	0.477	GRD	
6	0.223	GRD	
7	0.362	GRD	
7	0.362	GRD	
8	0.356	GRD	
9	0.325	GRD	
10	0.471	GRD	
11	0.374	GRD	
12	0.4	GRD	
13	0.282	GRD	
14	0.608	GRD	
15	0.292	GRD	
16	0.491	GRD	
16	0.491	GRD	
17	0.265	GRD	
18	0.755	GRD	
19	19.76	GRD	
20	0.689	GRD	
21	11.15	GRD	
22	20.49	GRD	
23	0.829	GRD	
24	0.312	GRD	
25	0.25	GRD	
26	0.362	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
27	0.429	GRD	
28	5.953	GRD	
29	14.97	GRD	
29	14.97	GRD	
30	3.216	GRD	
31	16.18	GRD	
32	1.021	GRD	
33	0.485	GRD	
34	0.478	GRD	
35	0.315	GRD	
36	10.81	GRD	
37	0.539	GRD	
38	18.15	GRD	
39	1.35	GRD	
40	7.752	GRD	
41	20.84	GRD	
42	0.753	GRD	
43	0.936	GRD	
44	14.67	GRD	
45	0.632	GRD	
46	0.9	GRD	
47	14.68	GRD	
48	0.515	GRD	
49	16.89	GRD	
50	19.2	GRD	
51	1.171	GRD	
51	1.171	GRD	
52	9.234	GRD	
53	0.493	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	0.493	GRD	
54	10.4	GRD	
55	0.812	GRD	
55	0.812	GRD	
56	1.042	GRD	
57	0.44	GRD	
58	0.459	GRD	
59	0.77	GRD	
59	0.77	GRD	
60	16.61	GRD	
61	16.54	GRD	
62	0.494	GRD	
63	11.51	GRD	
64	17.34	GRD	
65	8.618	GRD	
66	0.727	GRD	
67	1.183	GRD	
68	17.77	GRD	
69	0.815	GRD	
70	1.077	GRD	
71	9.804	GRD	
72	7.833	GRD	
73	1.14	GRD	
74	12.61	GRD	
75	0.547	GRD	
76	15.74	GRD	
77	16.8	GRD	
78	4.162	GRD	
79	0.318	GRD	
79	0.318	GRD	
80	0.148	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
81	0.143	GRD	
82	0.163	GRD	
83	0.168	GRD	
84	0.172	GRD	
85	0.164	QFP	
86	0.308	QFP	
87	0.195	GRD	
88	0.414	GRD	
88	0.414	GRD	
89	0.44	GRD	
90	0.318	GRD	
91	0.55	GRD	
91	0.55	GRD	
92	0.314	QFP	
93	0.351	QFP	
94	0.512	QFP	
95	0.538	QFP	
96	0.238	QFP	
97	0.479	QFP	
98	0.233	QFP	
99	0.26	QFP	
100	0.599	GRD	
101	0.237	GRD	
102	0.335	GRD	
103	3.972	GRD	
104	11.15	GRD	
105	0.436	GRD	
106	12.13	GRD	
107	1.465	GRD	
107	1.465	GRD	
108	14.32	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
109	18.61	GRD	
110	12.78	GRD	
111	0.512	GRD	
112	0.418	GRD	
113	0.683	GRD	
114	22.02	GRD	
115	4.253	GRD	
116	10.63	GRD	
117	18.83	GRD	
118	8.529	GRD	
119	18.54	GRD	
120	1.278	GRD	
121	13.81	GRD	
122	14.89	GRD	
123	16.97	GRD	
123	16.97	GRD	
124	13.44	GRD	
125	19.84	GRD	
126	16.02	GRD	
127	2.839	GRD	
128	13.97	GRD	
129	22.03	GRD	
129	22.03	GRD	
130	9.614	GRD	
130	9.614	GRD	
131	1.478	GRD	
132	0.369	GRD	
133	0.414	GRD	
134	3.688	GRD	
135	15.71	GRD	
136	13.25	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
137	2.131	GRD	
138	0.979	GRD	
138	0.979	GRD	
139	0.579	GRD	
140	0.494	GRD	
141	0.426	GRD	
141	0.426	GRD	
142	0.785	GRD	
143	0.508	GRD	
144	0.338	GRD	
145	0.256	GRD	
145	0.256	GRD	
146	0.201	GRD	
147	0.153	GRD	
148	0.16	GRD	
149	0.396	GRD	
150	0.534	GRD	
150	0.534	GRD	
151	1.717	GRD	
152	11.84	GRD	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295693	☐	19-088	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295733	☐	19-090	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295593	☐	19-084	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295716	☐	19-088	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295686	☐	19-088	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295666	☐	19-087	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295660	☐	19-087	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295646	☐	19-087	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295631	☐	19-086	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295624	☐	19-086	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295607	☐	19-086	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295727	☐	19-090	low grade		☑	☐	☐
3.00	4.50	1.50	GRD, GRD	1.30	87	K295590	☐	19-084	low grade		☐	☐	☐
4.50	6.00	1.50	GRD	1.35	90	K295591	☐	19-084	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.41	94	K295592	☐	19-084	low grade		☐	☐	☐
7.50	8.60	1.10	GRD	1.05	95	K295594	☐	19-084	low grade		☐	☐	☐
8.60	10.00	1.40	GRD	1.34	96	K295595	☐	19-084	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
10.00	11.00	1.00	GRD	0.97	97	K295596	☐	19-084	low grade		☐	☐	☐
11.00	12.00	1.00	GRD	1.00	100	K295597	☐	19-084	low grade		☐	☐	☐
12.00	13.00	1.00	GRD	1.00	100	K295598	☐	19-084	low grade		☐	☐	☐
13.00	14.50	1.50	GRD	1.46	97	K295599	☐	19-084	low grade		☐	☐	☐
14.50	15.70	1.20	GRD	1.15	96	K295600	☐	19-084	low grade		☐	☐	☐
15.70	17.20	1.50	GRD	1.40	93	K295601	☐	19-086	low grade		☐	☐	☐
17.20	17.90	0.70	GRD	0.70	100	K295602	☐	19-086	low grade		☐	☐	☐
17.90	18.90	1.00	GRD	0.98	98	K295603	☐	19-086	low grade		☐	☐	☐
18.90	20.40	1.50	GRD	1.45	97	K295604	☐	19-086	low grade		☐	☐	☐
20.40	21.90	1.50	GRD	1.47	98	K295605	☐	19-086	low grade		☐	☐	☐
21.90	23.40	1.50	GRD	1.49	99	K295606	☐	19-086	low grade		☐	☐	☐
23.40	24.30	0.90	GRD	0.85	94	K295608	☐	19-086	low grade		☐	☐	☐
24.30	25.30	1.00	GRD, GRD	0.99	99	K295609	☐	19-086	low grade		☐	☐	☐
25.30	25.60	0.30	GRD	0.30	100	K295610	☐	19-086	low grade		☐	☐	☐
25.60	26.60	1.00	GRD	1.00	100	K295611	☐	19-086	low grade		☐	☐	☐
26.60	28.10	1.50	GRD	1.47	98	K295612	☐	19-086	low grade		☐	☐	☐
28.10	29.60	1.50	GRD	1.46	97	K295613	☐	19-086	low grade		☐	☐	☐
29.60	31.10	1.50	GRD	1.50	100	K295614	☐	19-086	low grade		☐	☐	☐
31.10	32.60	1.50	GRD	1.50	100	K295615	☐	19-086	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.60	33.40	0.80	GRD	0.76	95	K295616	☐	19-086	low grade		☐	☐	☐
32.60	33.40	0.80	GRD	0.76	95	K295617	☐	19-086	low grade		☐	☑	☐
33.40	34.70	1.30	GRD, GRD	1.30	100	K295618	☐	19-086	low grade		☐	☐	☐
34.70	35.10	0.40	GRD	0.40	100	K295619	☐	19-086	low grade		☐	☐	☐
35.10	36.60	1.50	GRD	1.50	100	K295620	☐	19-086	low grade		☐	☐	☐
36.60	38.10	1.50	GRD	1.50	100	K295621	☐	19-086	low grade		☐	☐	☐
38.10	39.60	1.50	GRD	1.50	100	K295622	☐	19-086	low grade		☐	☐	☐
39.60	41.10	1.50	GRD	1.50	100	K295623	☐	19-086	low grade		☐	☐	☐
41.10	42.60	1.50	GRD	1.48	99	K295625	☐	19-086	low grade		☐	☐	☐
42.60	43.60	1.00	GRD	1.00	100	K295626	☐	19-086	low grade		☐	☐	☐
43.60	45.10	1.50	GRD	1.48	99	K295627	☐	19-086	low grade		☐	☐	☐
45.10	46.60	1.50	GRD	1.43	95	K295628	☐	19-086	low grade		☐	☐	☐
46.60	46.90	0.30	GRD	0.30	100	K295629	☐	19-086	low grade		☐	☐	☐
46.90	47.90	1.00	GRD	1.00	100	K295630	☐	19-086	low grade		☐	☐	☐
47.90	48.20	0.30	GRD	0.28	93	K295632	☐	19-086	low grade		☐	☐	☐
48.20	49.70	1.50	GRD	1.50	100	K295633	☐	19-086	low grade		☐	☐	☐
49.70	51.20	1.50	GRD	1.50	100	K295634	☐	19-086	low grade		☐	☐	☐
51.20	52.25	1.05	GRD	1.05	100	K295635	☐	19-086	low grade		☐	☐	☐
51.20	52.25	1.05	GRD	1.05	100	K295636	☐	19-086	low grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
52.25	53.00	0.75	GRD	0.75	100	K295637	☐	19-086	low grade		☐	☐	☐
53.00	54.00	1.00	GRD, GRD	0.98	98	K295638	☐	19-086	low grade		☐	☐	☐
54.00	54.50	0.50	GRD	0.50	100	K295639	☐	19-086	low grade		☐	☐	☐
54.50	56.00	1.50	GRD	1.48	99	K295640	☐	19-086	low grade		☐	☐	☐
56.00	57.50	1.50	GRD	1.47	98	K295641	☐	19-087	low grade		☐	☐	☐
57.50	58.07	0.57	GRD	0.55	96	K295642	☐	19-087	low grade		☐	☐	☐
58.07	58.71	0.64	GRD	0.63	98	K295643	☐	19-087	low grade		☐	☐	☐
58.71	59.65	0.94	GRD	0.94	100	K295644	☐	19-087	low grade		☐	☐	☐
59.65	61.00	1.35	GRD	1.32	98	K295645	☐	19-087	low grade		☐	☐	☐
61.00	62.50	1.50	GRD	1.50	100	K295647	☐	19-087	low grade		☐	☐	☐
62.50	64.00	1.50	GRD, GRD	1.50	100	K295648	☐	19-087	low grade		☐	☐	☐
64.00	65.00	1.00	GRD	1.00	100	K295649	☐	19-087	low grade		☐	☐	☐
65.00	66.15	1.15	GRD	1.15	100	K295650	☐	19-087	low grade		☐	☐	☐
66.15	67.50	1.35	GRD	1.35	100	K295651	☐	19-087	low grade		☐	☐	☐
67.50	68.65	1.15	GRD	1.15	100	K295652	☐	19-087	low grade		☐	☐	☐
68.65	69.20	0.55	GRD	0.54	98	K295653	☐	19-087	low grade		☐	☐	☐
69.20	70.70	1.50	GRD	1.50	100	K295654	☐	19-087	low grade		☐	☐	☐
69.20	70.70	1.50	GRD	1.50	100	K295655	☐	19-087	low grade		☐	☐	☑
70.70	71.70	1.00	GRD	1.00	100	K295656	☐	19-087	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
71.70	73.20	1.50	GRD, QFP	1.50	100	K295657	☐	19-087	low grade		☐	☐	☐
73.20	74.20	1.00	GRD	0.98	98	K295658	☐	19-087	low grade		☐	☐	☐
74.20	74.70	0.50	GRD, GRD	0.50	100	K295659	☐	19-087	low grade		☐	☐	☐
74.70	75.70	1.00	GRD	0.98	98	K295661	☐	19-087	low grade		☐	☐	☐
75.70	77.20	1.50	GRD	1.48	99	K295662	☐	19-087	low grade		☐	☐	☐
77.20	78.70	1.50	GRD	1.50	100	K295663	☐	19-087	low grade		☐	☐	☐
78.70	79.53	0.83	GRD	0.80	96	K295664	☐	19-087	low grade		☐	☐	☐
79.53	81.00	1.47	GRD	1.47	100	K295665	☐	19-087	low grade		☐	☐	☐
81.00	81.85	0.85	GRD	0.83	98	K295667	☐	19-087	low grade		☐	☐	☐
81.85	82.65	0.80	GRD, GRD	0.70	88	K295668	☐	19-087	low grade		☐	☐	☐
82.65	83.90	1.25	GRD, GRD	1.15	92	K295669	☐	19-087	low grade		☐	☐	☐
83.90	84.45	0.55	GRD	0.53	96	K295670	☐	19-087	low grade		☐	☐	☐
84.45	84.85	0.40	GRD	0.40	100	K295671	☐	19-087	low grade		☐	☐	☐
84.85	85.85	1.00	GRD	0.97	97	K295672	☐	19-087	low grade		☐	☐	☐
84.85	85.85	1.00	GRD	0.97	97	K295673	☐	19-087	low grade		☐	☑	☐
85.85	86.75	0.90	QFP	0.89	99	K295674	☐	19-087	low grade		☐	☐	☐
86.75	88.00	1.25	QFP	1.25	100	K295675	☐	19-087	low grade		☐	☐	☐
88.00	89.50	1.50	GRD, GRD	1.50	100	K295676	☐	19-087	low grade		☐	☐	☐
89.50	91.00	1.50	GRD	1.50	100	K295677	☐	19-087	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
91.00	91.33	0.33	GRD, GRD	0.33	100	K295678	☐	19-087	low grade		☐	☐	☐
91.33	92.93	1.60	GRD, QFP	1.53	96	K295679	☐	19-087	low grade		☐	☐	☐
92.93	94.44	1.51	QFP	1.47	97	K295680	☐	19-087	low grade		☐	☐	☐
94.44	95.94	1.50	QFP	1.48	99	K295681	☐	19-088	low grade		☐	☐	☐
95.94	97.44	1.50	QFP	1.48	99	K295682	☐	19-088	low grade		☐	☐	☐
97.44	98.94	1.50	QFP	1.45	97	K295683	☐	19-088	low grade		☐	☐	☐
98.94	99.85	0.91	QFP	0.90	99	K295684	☐	19-088	low grade		☐	☐	☐
99.85	100.40	0.55	GRD	0.55	100	K295685	☐	19-088	low grade		☐	☐	☐
100.40	101.50	1.10	GRD	1.10	100	K295687	☐	19-088	low grade		☐	☐	☐
101.50	102.77	1.27	GRD	1.23	97	K295688	☐	19-088	low grade		☐	☐	☐
102.77	104.27	1.50	GRD	1.50	100	K295689	☐	19-088	low grade		☐	☐	☐
104.27	104.89	0.62	GRD	0.51	82	K295690	☐	19-088	low grade		☐	☐	☐
104.89	105.52	0.63	GRD	0.62	98	K295691	☐	19-088	low grade		☐	☐	☐
105.52	107.00	1.48	GRD	1.46	99	K295692	☐	19-088	low grade		☐	☐	☐
107.00	108.50	1.50	GRD, GRD	1.47	98	K295694	☐	19-088	low grade		☐	☐	☐
108.50	110.00	1.50	GRD	1.45	97	K295695	☐	19-088	low grade		☐	☐	☐
110.00	111.50	1.50	GRD	1.50	100	K295696	☐	19-088	low grade		☐	☐	☐
111.50	112.80	1.30	GRD	1.28	98	K295697	☐	19-088	low grade		☐	☐	☐
112.80	113.42	0.62	GRD	0.60	97	K295698	☐	19-088	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
113.42	114.66	1.24	GRD	1.20	97	K295699	☐	19-088	low grade		☐	☐	☐
113.42	114.66	1.24	GRD	1.20	97	K295700	☐	19-088	low grade		☐	☑	☐
114.66	116.19	1.53	GRD	1.40	92	K295701	☐	19-088	low grade		☐	☐	☐
116.19	117.04	0.85	GRD	0.83	98	K295702	☐	19-088	low grade		☐	☐	☐
117.04	117.75	0.71	GRD	0.71	100	K295703	☐	19-088	low grade		☐	☐	☐
117.75	118.52	0.77	GRD	0.76	99	K295704	☐	19-088	low grade		☐	☐	☐
118.52	119.85	1.33	GRD	1.30	98	K295705	☐	19-088	low grade		☐	☐	☐
119.85	120.85	1.00	GRD	1.00	100	K295706	☐	19-088	low grade		☐	☐	☐
120.85	122.50	1.65	GRD	1.60	97	K295707	☐	19-088	low grade		☐	☐	☐
120.85	122.50	1.65	GRD	1.60	97	K295708	☐	19-088	low grade		☐	☐	☑
122.50	123.00	0.50	GRD	0.50	100	K295709	☐	19-088	low grade		☐	☐	☐
123.00	124.25	1.25	GRD, GRD	1.25	100	K295710	☐	19-088	low grade		☐	☐	☐
124.25	125.75	1.50	GRD	1.50	100	K295711	☐	19-088	low grade		☐	☐	☐
125.75	127.09	1.34	GRD	1.25	93	K295712	☐	19-088	low grade		☐	☐	☐
127.09	127.90	0.81	GRD, GRD	0.80	99	K295713	☐	19-088	low grade		☐	☐	☐
127.90	128.93	1.03	GRD	1.03	100	K295714	☐	19-088	low grade		☐	☐	☐
128.93	130.40	1.47	GRD	1.43	97	K295715	☐	19-088	low grade		☐	☐	☐
130.40	131.30	0.90	GRD	0.90	100	K295717	☐	19-088	low grade		☐	☐	☐
131.30	132.80	1.50	GRD	1.50	100	K295718	☐	19-088	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
132.80	133.75	0.95	GRD	0.92	97	K295719	☐	19-088	low grade		☐	☐	☐
133.75	134.70	0.95	GRD	0.95	100	K295720	☐	19-088	low grade		☐	☐	☐
134.70	136.20	1.50	GRD	1.50	100	K295721	☐	19-090	low grade		☐	☐	☐
136.20	136.70	0.50	GRD, GRD	0.50	100	K295722	☐	19-090	low grade		☐	☐	☐
136.70	138.00	1.30	GRD	1.30	100	K295723	☐	19-090	low grade		☐	☐	☐
138.00	138.70	0.70	GRD, GRD	0.70	100	K295724	☐	19-090	low grade		☐	☐	☐
138.70	140.20	1.50	GRD	1.50	100	K295725	☐	19-090	low grade		☐	☐	☐
140.20	141.00	0.80	GRD	0.80	100	K295726	☐	19-090	low grade		☐	☐	☐
141.00	142.50	1.50	GRD, GRD	1.50	100	K295728	☐	19-090	low grade		☐	☐	☐
142.50	143.40	0.90	GRD, GRD	0.90	100	K295729	☐	19-090	low grade		☐	☐	☐
143.40	144.90	1.50	GRD	1.50	100	K295730	☐	19-090	low grade		☐	☐	☐
144.90	145.50	0.60	GRD	0.60	100	K295731	☐	19-090	low grade		☐	☐	☐
145.50	146.50	1.00	GRD	1.00	100	K295732	☐	19-090	low grade		☐	☐	☐
146.50	147.00	0.50	GRD	0.50	100	K295734	☐	19-090	low grade		☐	☐	☐
147.00	147.85	0.85	GRD	0.82	96	K295735	☐	19-090	low grade		☐	☐	☐
147.85	148.30	0.45	GRD	0.42	93	K295736	☐	19-090	low grade		☐	☐	☐
148.30	149.80	1.50	GRD	1.45	97	K295737	☐	19-090	low grade		☐	☐	☐
149.80	151.00	1.20	GRD	1.18	98	K295738	☐	19-090	low grade		☐	☐	☐
151.00	152.40	1.40	GRD	1.40	100	K295739	☐	19-090	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-086	K295607	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6
19-086	K295624	0.00	0.00	0.28	610	☐	☐	☐	☑ ME-6	ME-6
19-086	K295631	0.00	0.00	0.00	40	☐	☐	☑	☐	BLANK
19-088	K295686	0.00	0.00	0.01	30	☐	☐	☑	☐	blank
19-088	K295693	0.00	0.00	0.27	620	☐	☐	☐	☑ ME-6	ME-6
19-088	K295716	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	ME-6
19-090	K295727	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-090	K295733	0.00	0.00	0.28	630	☐	☐	☐	☑ ME-6	ME-6
19-087	K295646	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6
19-087	K295660	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-087	K295666	0.00	0.00	0.28	530	☐	☐	☐	☑ ME-6	ME-6
19-084	K295593	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-084	K295590	3.00	4.50	0.04	1970	☐	☐	☐	☐	
19-084	K295591	4.50	6.00	0.07	2530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-084	K295592	6.00	7.50	0.01	3180	☐	☐	☐	☐	
19-084	K295594	7.50	8.60	0.01	2530	☐	☐	☐	☐	
19-084	K295595	8.60	10.00	0.04	2770	☐	☐	☐	☐	
19-084	K295596	10.00	11.00	0.07	1670	☐	☐	☐	☐	
19-084	K295597	11.00	12.00	0.01	1870	☐	☐	☐	☐	
19-084	K295598	12.00	13.00	0.02	1690	☐	☐	☐	☐	
19-084	K295599	13.00	14.50	0.02	2690	☐	☐	☐	☐	
19-084	K295600	14.50	15.70	0.03	1710	☐	☐	☐	☐	
19-086	K295601	15.70	17.20	0.19	1890	☐	☐	☐	☐	
19-086	K295602	17.20	17.90	0.34	990	☐	☐	☐	☐	
19-086	K295603	17.90	18.90	0.41	1770	☐	☐	☐	☐	
19-086	K295604	18.90	20.40	0.01	2930	☐	☐	☐	☐	
19-086	K295605	20.40	21.90	0.01	2140	☐	☐	☐	☐	
19-086	K295606	21.90	23.40	0.02	2210	☐	☐	☐	☐	
19-086	K295608	23.40	24.30	0.31	2070	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-086	K295609	24.30	25.30	0.11	1900	☐	☐	☐	☐	
19-086	K295610	25.30	25.60	0.33	600	☐	☐	☐	☐	
19-086	K295611	25.60	26.60	0.17	2000	☐	☐	☐	☐	
19-086	K295612	26.60	28.10	0.03	2200	☐	☐	☐	☐	
19-086	K295613	28.10	29.60	0.03	2170	☐	☐	☐	☐	
19-086	K295614	29.60	31.10	0.02	2310	☐	☐	☐	☐	
19-086	K295615	31.10	32.60	0.04	3350	☐	☐	☐	☐	
19-086	K295616	32.60	33.40	0.09	830	☐	☐	☐	☐	
19-086	K295617	32.60	33.40	0.09	680	☑	☐	☐	☐	1/4 dup
19-086	K295618	33.40	34.70	0.09	1680	☐	☐	☐	☐	
19-086	K295619	34.70	35.10	0.46	300	☐	☐	☐	☐	
19-086	K295620	35.10	36.60	0.05	1640	☐	☐	☐	☐	
19-086	K295621	36.60	38.10	0.03	2110	☐	☐	☐	☐	
19-086	K295622	38.10	39.60	0.09	930	☐	☐	☐	☐	
19-086	K295623	39.60	41.10	0.03	3100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-086	K295625	41.10	42.60	0.03	2450	☐	☐	☐	☐	
19-086	K295626	42.60	43.60	0.02	2560	☐	☐	☐	☐	
19-086	K295627	43.60	45.10	0.04	2340	☐	☐	☐	☐	
19-086	K295628	45.10	46.60	0.02	2140	☐	☐	☐	☐	
19-086	K295629	46.60	46.90	0.49	350	☐	☐	☐	☐	
19-086	K295630	46.90	47.90	0.01	2450	☐	☐	☐	☐	
19-086	K295632	47.90	48.20	0.01	2330	☐	☐	☐	☐	
19-086	K295633	48.20	49.70	0.01	2170	☐	☐	☐	☐	
19-086	K295634	49.70	51.20	0.01	2330	☐	☐	☐	☐	
19-086	K295635	51.20	52.25	0.01	2030	☐	☐	☐	☐	
19-086	K295636	51.20	52.25	0.01	2100	☐	☑	☐	☐	coarse rej fup
19-086	K295637	52.25	53.00	0.22	1580	☐	☐	☐	☐	
19-086	K295638	53.00	54.00	0.01	2280	☐	☐	☐	☐	
19-086	K295639	54.00	54.50	0.06	2130	☐	☐	☐	☐	
19-086	K295640	54.50	56.00	0.03	1800	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-087	K295641	56.00	57.50	0.01	1910	☐	☐	☐	☐	
19-087	K295642	57.50	58.07	0.43	580	☐	☐	☐	☐	
19-087	K295643	58.07	58.71	0.01	1590	☐	☐	☐	☐	
19-087	K295644	58.71	59.65	0.02	2100	☐	☐	☐	☐	
19-087	K295645	59.65	61.00	0.01	2240	☐	☐	☐	☐	
19-087	K295647	61.00	62.50	0.01	2200	☐	☐	☐	☐	
19-087	K295648	62.50	64.00	0.00	2590	☐	☐	☐	☐	
19-087	K295649	64.00	65.00	0.01	2250	☐	☐	☐	☐	
19-087	K295650	65.00	66.15	0.24	2430	☐	☐	☐	☐	
19-087	K295651	66.15	67.50	0.02	2430	☐	☐	☐	☐	
19-087	K295652	67.50	68.65	0.04	2260	☐	☐	☐	☐	
19-087	K295653	68.65	69.20	0.09	1890	☐	☐	☐	☐	
19-087	K295654	69.20	70.70	0.01	2400	☐	☐	☐	☐	
19-087	K295655	69.20	70.70	0.01	2270	☐	☑	☐	☐	coarse rej dup
19-087	K295656	70.70	71.70	0.03	1750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-087	K295657	71.70	73.20	0.03	3050	☐	☐	☐	☐	
19-087	K295658	73.20	74.20	0.04	1540	☐	☐	☐	☐	
19-087	K295659	74.20	74.70	0.02	2150	☐	☐	☐	☐	
19-087	K295661	74.70	75.70	0.07	2130	☐	☐	☐	☐	
19-087	K295662	75.70	77.20	0.02	2360	☐	☐	☐	☐	
19-087	K295663	77.20	78.70	0.01	2370	☐	☐	☐	☐	
19-087	K295664	78.70	79.53	0.37	1660	☐	☐	☐	☐	
19-087	K295665	79.53	81.00	0.04	1940	☐	☐	☐	☐	
19-087	K295667	81.00	81.85	0.08	1000	☐	☐	☐	☐	
19-087	K295668	81.85	82.65	0.47	990	☐	☐	☐	☐	
19-087	K295669	82.65	83.90	0.15	2530	☐	☐	☐	☐	
19-087	K295670	83.90	84.45	0.13	1340	☐	☐	☐	☐	
19-087	K295671	84.45	84.85	1.01	150	☐	☐	☐	☐	
19-087	K295672	84.85	85.85	0.06	1700	☐	☐	☐	☐	
19-087	K295673	84.85	85.85	0.06	1540	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-087	K295674	85.85	86.75	0.00	1940	☐	☐	☐	☐	
19-087	K295675	86.75	88.00	0.22	1660	☐	☐	☐	☐	
19-087	K295676	88.00	89.50	0.03	1990	☐	☐	☐	☐	
19-087	K295677	89.50	91.00	0.04	2240	☐	☐	☐	☐	
19-087	K295678	91.00	91.33	0.50	670	☐	☐	☐	☐	
19-087	K295679	91.33	92.93	0.00	1390	☐	☐	☐	☐	
19-087	K295680	92.93	94.44	0.01	1490	☐	☐	☐	☐	
19-088	K295681	94.44	95.94	0.01	1720	☐	☐	☐	☐	
19-088	K295682	95.94	97.44	0.00	1990	☐	☐	☐	☐	
19-088	K295683	97.44	98.94	0.00	2350	☐	☐	☐	☐	
19-088	K295684	98.94	99.85	0.08	3540	☐	☐	☐	☐	
19-088	K295685	99.85	100.40	15.90	120	☐	☐	☐	☐	
19-088	K295687	100.40	101.50	0.14	460	☐	☐	☐	☐	
19-088	K295688	101.50	102.77	0.12	710	☐	☐	☐	☐	
19-088	K295689	102.77	104.27	0.01	2280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-088	K295690	104.27	104.89	0.01	2270	☐	☐	☐	☐	
19-088	K295691	104.89	105.52	0.05	1730	☐	☐	☐	☐	
19-088	K295692	105.52	107.00	0.00	2270	☐	☐	☐	☐	
19-088	K295694	107.00	108.50	0.00	2430	☐	☐	☐	☐	
19-088	K295695	108.50	110.00	0.01	2280	☐	☐	☐	☐	
19-088	K295696	110.00	111.50	0.05	2330	☐	☐	☐	☐	
19-088	K295697	111.50	112.80	0.02	2210	☐	☐	☐	☐	
19-088	K295698	112.80	113.42	0.11	1730	☐	☐	☐	☐	
19-088	K295699	113.42	114.66	0.01	2310	☐	☐	☐	☐	
19-088	K295700	113.42	114.66	0.01	2340	☑	☐	☐	☐	1/4 dup
19-088	K295701	114.66	116.19	0.01	2440	☐	☐	☐	☐	
19-088	K295702	116.19	117.04	0.00	2430	☐	☐	☐	☐	
19-088	K295703	117.04	117.75	0.40	2050	☐	☐	☐	☐	
19-088	K295704	117.75	118.52	0.03	2310	☐	☐	☐	☐	
19-088	K295705	118.52	119.85	0.00	2360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-088	K295706	119.85	120.85	0.00	2090	☐	☐	☐	☐	
19-088	K295707	120.85	122.50	0.00	2330	☐	☐	☐	☐	
19-088	K295708	120.85	122.50	0.00	2210	☐	☑	☐	☐	coarse dup
19-088	K295709	122.50	123.00	0.00	2180	☐	☐	☐	☐	
19-088	K295710	123.00	124.25	0.00	1960	☐	☐	☐	☐	
19-088	K295711	124.25	125.75	0.05	2170	☐	☐	☐	☐	
19-088	K295712	125.75	127.09	0.00	2270	☐	☐	☐	☐	
19-088	K295713	127.09	127.90	0.01	2240	☐	☐	☐	☐	
19-088	K295714	127.90	128.93	0.01	2210	☐	☐	☐	☐	
19-088	K295715	128.93	130.40	0.00	2200	☐	☐	☐	☐	
19-088	K295717	130.40	131.30	0.05	1870	☐	☐	☐	☐	
19-088	K295718	131.30	132.80	0.01	2340	☐	☐	☐	☐	
19-088	K295719	132.80	133.75	0.04	1610	☐	☐	☐	☐	
19-088	K295720	133.75	134.70	0.11	1510	☐	☐	☐	☐	
19-090	K295721	134.70	136.20	0.00	2170	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-090	K295722	136.20	136.70	0.30	590	☐	☐	☐	☐	
19-090	K295723	136.70	138.00	0.00	2140	☐	☐	☐	☐	
19-090	K295724	138.00	138.70	0.01	2030	☐	☐	☐	☐	
19-090	K295725	138.70	140.20	0.01	1820	☐	☐	☐	☐	
19-090	K295726	140.20	141.00	0.01	1550	☐	☐	☐	☐	
19-090	K295728	141.00	142.50	0.01	1870	☐	☐	☐	☐	
19-090	K295729	142.50	143.40	0.01	1940	☐	☐	☐	☐	
19-090	K295730	143.40	144.90	0.03	1750	☐	☐	☐	☐	
19-090	K295731	144.90	145.50	0.15	610	☐	☐	☐	☐	
19-090	K295732	145.50	146.50	0.08	1950	☐	☐	☐	☐	
19-090	K295734	146.50	147.00	1.76	400	☐	☐	☐	☐	
19-090	K295735	147.00	147.85	0.20	660	☐	☐	☐	☐	
19-090	K295736	147.85	148.30	2.23	240	☐	☐	☐	☐	
19-090	K295737	148.30	149.80	0.05	1240	☐	☐	☐	☐	
19-090	K295738	149.80	151.00	0.14	1840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-090	K295739	151.00	152.40	0.13	2010	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.62	8.50	ST		70	NUL	5	five small trace pyrite bearing quartz veinlets			
								Py	0.5	DI
9.80	10.00	ST		70	NUL	3	small qurt carbnate veinlets with no sulfide			
10.85	10.87	VT	37	70	NUL	1	small quartz veinlet with pyrite			
								Pg	1	DI
12.90	13.60	ST		60	NUL	3	small quarzt veinlets 1-2 cm wide with trace pyrite disseminated within			
								Py	0.5	DI
15.00	15.50	ST		70	NUL	2	two small quartz veinlets 1 cm wide with trace pdissminated pyrite alon gmargin			
								Py	0.5	DI
17.20	18.00	ST		70	NUL	4	four small quartz carbonate veinlets with weak pyrite. The last veinlet contains weak sphalerite and trace galena			
								Se	0.1	DI
								Py	0.5	DI
								Gn	0.1	DI
23.00	23.67	ST		50	NUL	4	hairline stringers withtace pyrite			
								Py	0.5	DI
25.00	25.60	ST		70	NUL	2	two small quartz stockwork zones in this interval (25.10-25.15 & 25.5-25.55) ith weak pyrite and trace galena and sphalerite			
								Gn	0.5	DI
								Py	0.5	DI
								Sp	0.5	DI
27.90	29.00	ST		60	NUL	9	hairline fractures with no sulfides			
30.00	30.03	DY	37	80	NUL	1	small aplite dyke			
32.90	32.93	VT	37	50	NUL	1	small pyrite +_ galena bering quartz veinlet			
								Py	0.5	DI
								Gn	0.1	DI
34.97	34.99	VT	37	80	NUL	1	smallpyrite beraing quartz veinlet			
								Py	1	DI
45.72	48.10	ST		70	NUL	5	pyrit ebearing quartz veinlets; 1 mm wide			
								Py	0.1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
54.20	55.00	ST		70	NUL	2	pyrite bearing quartz veinlets 5 mm wide			
								Py	0.5	DI
58.90	58.93	VT	37	80	NUL	1	small quartz carbonate veinlet with two small 1 mm bands of pyirte and one small 1 mm band of sphalerite			
								Sp	0.5	BN
								Py	1	BN
65.50	66.00	ST		70	NUL	6	sixall trace pyrite bearing quartz veinlets			
								Py	0.5	DI
68.70	69.20	ST		70	NUL	2	two small pyrite bearing quartz veinlets			
								Py	0.5	DI
71.50	71.70	DY	37	70	NUL	1	chloritized feldspar dyke			
74.23	74.25	VT	37	50	NUL	1	pyrite bearing quart veinlets			
								Py	2	DI
75.30	75.45	FT	42	30	NUL	1	oxidized heavily clay altered faulted section in granodioirte			
79.50	79.52	FR	5	30	NUL	1	carbonate filled fracture. Above is weakly silicified granodiorite and below is strongly silicified granodioirte			
81.70	82.50	FT	42	30	NUL	1	gouged, fracuterd, brecciated silicified granodiorite			
84.68	84.70	VT	37	80	NUL	1	pyrite bearing quartz veinlet			
								Py	2	DI
84.85	86.75	DY	37	80	NUL	1	QFP dyke			
86.75	90.00	ST		70	NUL	13	set of stringers trending dominantly 70, some are 50, with weak pyrite			
								Py	0.5	DI
91.29	91.34	VT	37	80	NUL	1	dark grey banded vein directly above dyke contact with pyrite and finegrained galena			
								Py	1	DI
								Gn	0.1	DI
91.34	99.85	DY	37	80	NUL	1	qfp dyke			
99.85	100.40	GO	34	--	NUL	1	gouged, brecciated and mienralized section following lower contact of QFP dyke. Hosted in granodioirte			
								Sp	0.5	PA
								Py	1.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
100.50	102.70	ST		60	NUL	14	pyrite bearing quartz veinlets			
								Py	0.5	DI
104.90	105.50	ST		80	NUL	2	pyrite bearing quartz veinlets			
109.55	109.73	ST		--	NUL	1	disseminated pryite in stockwork zone of stringers			
110.95	110.97	VT	37	80	NUL	1	pyrite bearing quartz veinlet			
114.80	114.90	ST		80	NUL	2	pyrite bearing quartz veinlets			
115.90	116.25	ST		70	NUL	3	three small quartz veinlets barren of sulfide			
117.10	117.13	VT	37	80	NUL	1	pyrite bearing quartz veinlet			
118.35	118.50	ST		60	NUL	5	small hairline pyit ebearing quartz stringers			
119.95	121.00	ST		60	NUL	10	small stingers barren of sulfide			
124.10	124.60	ST		50	NUL	2	small srtringers no sulfide			
128.72	128.73	VT	37	80	NUL	1	small stringer with pyrite			
								Py	0.1	DI
131.00	131.25	ST		80	NUL	3	pyrite bearing quartz veinlets			
								Py	1	DI
133.39	133.41	VT	37	40	NUL	1	pyrite bearing quartz veinlet			
								Py	1	DI
133.90	133.92	VT	37	80	NUL	1	pyrite bearing quartz veinlets			
134.50	134.64	VT	37	80	NUL	2	pyrite bearing quartz veinlets			
136.30	136.70	ST		80	NUL	2	pyrite bearing quartz veinlets			
140.77	140.84	FT	42	40	NUL	1	gouged faulted portion of clay and porpylitic altred granodiorite			
143.00	143.01	VT	37	70	NUL	1	pyrite bearing quartz veinlet			
145.00	145.40	ST		60	NUL	6	small pyrite braing quartz veinlets			
146.83	146.91	VT	37	30	NUL	1	one 3 cm wide pyrite baring quartz veinlet			
147.20	148.22	ST		70	NUL	11	pyrite bearing quartz veinlets 1-4 mm wide			
148.50	149.00	ST		70	NUL	3	pyrite bearing quartz veinlets 1-3 mm wide			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382707	6891119	1270.496	403.71

ZONE: Exploration

SECTION:

HOLE: KL -19-455

CLAIM: YD29215

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 0m, Out

Drilling Dates: Sep 22 - Sep 26, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
43	70.36	-50.3	Reflex
403	40.26	-49.7	Reflex

TARGET: Western Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.91	0.91	CAS
0.91	3.04	2.13	OVB
3.04	6.63	3.59	GRD
6.63	28.16	21.53	GRD
28.16	80.37	52.21	GRD
80.37	82.15	1.78	GRD
82.15	86.68	4.53	GRD
86.68	96.15	9.47	GRD
96.15	104.5	8.35	GRD
104.5	121.41	16.91	GRD
121.41	133.6	12.19	GRD
133.6	150.58	16.98	GRD
150.58	161.15	10.57	GRD
161.15	181	19.85	GRD
181	185.15	4.15	GRD
185.15	190.55	5.4	POR

SAMPLES	
Numbers:	W593651 to W593908, W599215, W603595 to W603600
Total:	265
Batch:	049, 055, 059, 060, 064, 067, 073, 074, 077
Certificates:	WH19247966, WH19247967, WH19247976, WH19249613, WH19249620, WH19249651, WH19251765, WH19251802, WH19255796, WH19283123

COMMENTS

Reduced to NTW at 36.58m. Elevation pending RTK survey. Notable introduction of chalcedony veining at depth (starting around 230m). Rhodochrosite in hole is incredibly vibrant pink. 36m of HTW rods stuck at top of hole, abandoned due to broken rod string.

190.55	204.22	13.67	GRD
204.22	226.4	22.18	GRD
226.4	231.04	4.64	GRD
231.04	246.73	15.69	GRD
246.73	249.34	2.61	GRD
249.34	253.22	3.88	GRD
253.22	253.93	0.71	POR
253.93	260.93	7	GRD
260.93	261.15	0.22	GRD
261.15	282.65	21.5	GRD
282.65	310.23	27.58	GRD
310.23	315.77	5.54	POR
315.77	317.48	1.71	GRD
317.48	327.84	10.36	POR
327.84	331.5	3.66	GRD
331.5	333.52	2.02	POR
333.52	342	8.48	GRD
342	345.5	3.5	GRD
345.5	372.89	27.39	GRD
372.89	393	20.11	GRD
393	403.71	10.71	GRD

Box Log

KL -19-455

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.91	4.1
2	4.1	7.09
3	7.09	9.85
4	9.85	12.87
5	12.87	15.72
6	15.72	18.65
7	18.65	21.9
8	21.9	25.2
9	25.2	28.16
10	28.16	31.14
11	31.14	34.15
12	34.15	36.58
13	36.58	40.57
14	40.57	44.88
15	44.88	49.05
16	49.05	53.34
17	53.34	57.6
18	57.6	61.71
19	61.71	65.84
20	65.84	69.95
21	69.95	74.25
22	74.25	78.39
23	78.39	82.52
24	82.52	86.68
25	86.68	90.7
26	90.7	95.07
27	95.07	99.31
28	99.31	103.47
29	103.47	108.37
30	108.37	112.57
31	112.57	116.84
32	116.84	121.13
33	121.13	125.45
34	125.45	130
35	130	133.99
36	133.99	138.2
37	138.2	142.43
38	142.43	146.7
39	146.7	150.88
40	150.88	155.19
41	155.19	159.43
42	159.43	163.59
43	163.59	167.52
44	167.52	171.78
45	171.78	176.2
46	176.2	180.38
47	180.38	184.53
48	184.53	188.82
49	188.82	193.19
50	193.19	197.39
51	197.39	201.68
52	201.68	206
53	206	210.31
54	210.31	214.67
55	214.67	218.83
56	218.83	222.96
57	222.96	227.03
58	227.03	231.04
59	231.04	235.39
60	235.39	239.71
61	239.71	244.11
62	244.11	248.41
63	248.41	252.66
64	252.66	256.64
65	256.64	261
66	261	265.38
67	265.38	269.75
68	269.75	273.95
69	273.95	278.29
70	278.29	282.65
71	282.65	286.86
72	286.86	291.08
73	291.08	295.52
74	295.52	299.81
75	299.81	304.26
76	304.26	308.57
77	308.57	313
78	313	317.21
79	317.21	321.56
80	321.56	325.5
81	325.5	329.48
82	329.48	333.35
83	333.35	337.48
84	337.48	341.77
85	341.77	346.06
86	346.06	350.52
87	350.52	355.08
88	355.08	359.36
89	359.36	363.7
90	363.7	367.82

Box Number	From (m)	To (m)
91	367.82	372.24
92	372.24	376.37
93	376.37	381.33
94	381.33	384.63
95	384.63	388.95
96	388.95	393.19
97	393.19	397.49
98	397.49	401.53
99	401.53	403.71

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-455									
	49.8	15	HTW	GRD	984.2	629.8	1.7	2.8	Chalcedony breccia zone brecciating orange weathered granodiorite and smokey quartz veining. Altered fragments of GRD, and quartz carbonate are present within. Fine disseminated pyrite within.
	146.35	14	NTW	GRD	1022.7	668.4	2.58	2.9	
	168.13	9	NTW	GRD	707.3	487.9	2.78	3.2	
	207.56	13	NTW	GRD	941.6	596	2.56	2.7	
	247.38	13	NTW	GRD	877.9	570.3	2.39	2.9	
	261	14	NTW	GRD	965.8	638.8	2.44	3.0	
	307.75	13	NTW	GRD	820.8	543.3	2.23	3.0	
	340.23	13.5	NTW	GRD	869	547.6	2.28	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.91	0.91	CAS	--	casing							
0.91	3.04	2.13	OVB	--	ovb							
3.04	6.63	3.59	GRD	MG	relatively unaltered (trace potassic, trace propylitic granodiorite) with local, light brown oxidation zones. A gouge clayey section is observed from 4.60-4.85m.							
6.63	7.09	0.46	GRD	MG	moderately arfillic, trace potassic, granodiorite interval with light brown, clay alteration and dark hematite oxidation observed along fracture surfaces.							
						LT	BN		ARG	3I		
						LT	PK					
						DK	RD		POT	1I		
7.09	8.38	1.29	BXA	MG	weakly propylitic, clay altereted, pervasively oxidized granodiorite containing a polymictic , breccia zone from 7.33-8.05m. Alteration halos near brecciated zone are weakly propylitic with breccia footwall being pervasively oxidized. Breccia zone is weakly silicified and disseminated pyrite is locally observed within it.							
						MD	BN		PRO	2I		
						LT	GN		OXI	3I	Py	2
						LT	BN		HEM	1I		
8.38	11.00	2.62	GRD	MG	trace potassic, trace propylitic granodiorite with locally fractured, gouged, clay altered zones (limonite observed within fractured zone).							
						LT	PK		ARG	2I		
						LT	BN		POT	1I		
						DK	YW					
11.00	12.56	1.56	GRD	MG	pervasively oxidized, clay rich, weakly argillic granodiorite interval . Limonite observed in argillic , fractured zones. Dark red hematite oxidation is observed along fracture/joint surfaces.							
						MD	BG					
						LT	BN					
						DK	RD		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
12.56	16.04	3.48	GRD	MG	weakly propylitic granodiorite with with local zones of pervasive oxidation , limonite, and clay alteration. Dark brown, gouged clayey section is observed from 12.60-12.87m. Trace 3mm-1 cm, carbonate infilled, quartz veins are locally observed throughout interval, sometimes containting trace, disseinated pyrite. Largest vein at 14m, exhibits dark brown, carbonate, dentritic inclusions within quartz vein. Sub-mm, pyrite bearing, oxidized veinlets are observed from 13.80-14m. Veins are ~ 50 degrees TCA and are locally offset by calcite infilled fractured. A light pink, fine grained, aplite dyke intrusion(~ 20 degrees TCA) is observed @ 15.60m.							
16.04	19.81	3.77	GRD	MG	weakly argillic, trace potassic, pervasively oxidized, limonite infilled, granodiorite interval . Darh red hematite oxidation is observed along fractures/joint surfaces and within host grd. Trace 1-4 m, oxidized, carbonate infilled quartz veins are locally observed. Vein @ 17.27m, contains trace galena and sphalerite blebs. Light pink, fine grained aplite dyke intrusion occurs from 18-18.50m.							
						MD	BG					
						LT	BN		ARG	2I	Gn	2
						DK	RD		POT	1I	Sp	2
19.81	22.86	3.05	GRD	MG	weakly argillic, trace potassic granodiorite with local zones of pervasive oxidation, clay rich zonesand limonite rich zones. 2 cm, aplite dyke intrusion is present at 21.96m (~45 degrees TCA).							
						MD	BG		HEM	1I		
						LT	BN		OXI	2I		
									LIM	2I		
									ARG	2I		
22.86	25.40	2.54	GRD	MG	trace potassic, trace propylitic granodiorite intervalwith minor oxidation along fracture surfaces, and within 1-4mm, veins. Some veins are vuggy and are partially infilled by carbonates.							
						LT	PK		OXI	1I		
						LT	GN		PRO	1I		
									POT	1I		
									LIM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.40	28.16	2.76	GRD	MG	weakly argillic granodiorite with intermittent zones of weak potassic and weak propylitic alteration. Pervasive oxidation is locally observed throughout interval. 1mm-1 cm, oxidized, cabonate infilled, sometimes vuggy, veins are locally observed as well. Oxidized veins appear to locally brecciate host grd and contain trace disseminated pyrite. Veins are perpendiculary crosscut by sub-mm, hematite infilled fractures. Veins on interval are ~ 35 degrees TCA.							
						MD	BG		OXI	3I	Py	1
						LT	BN		ARG	2I		
						LT	PK		PRO	1I		
									LIM	2I		
									POT	1I		
28.16	30.10	1.94	GRD	MG	trace potassic, trae propylitic granodiorite with intermitten zones of clay rich, weakly argillic altered grd. Dark grey, fine grained, polymictic intrusions containting oxidized alteration halos near 1-3 mm, carbonate infilled, veinlets.							
						LT	BN		POT	1I		
						LT	PK		PRO	1I		
						LT	GN					
30.10	31.14	1.04	GRD	MG	pervasively limonite and oxidized, moderately argillic granodiorite interval containing gouge, brecciated ones. Reddish hematite oxidation is locally observed along fractures/joint surfaces. Proximal to gouge brecciated section, interval appears weakly sheared.							
						MD	BG		POT	1I		
						LT	BN	SH	ARG	2I		
									PRO	1I		
31.14	35.78	4.64	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with intermittent, oxidized, weakly to moderately argillic sections. Trace 1-2m, oxidized, carbonate infilled veinlets are locally observed throughout interval.							
35.78	36.65	0.87	GRD	MG	weakly argillic, trae propylitic, unoxidized , granodiorite interval.							
						MD	BG		ARG	2I		
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.65	40.16	3.51	GRD	MG	light brown/dark brown, oxidized, weakly argillic granodiorite interval containin 1-2 mm, oxidized, carbonate infilled stringer veinlets. Veins are ~ 25 degrees TCA.							
						MD	BG		ARG	2I		
						LT	BN					
						DK	BN					
40.16	41.84	1.68	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval.yellowish, dark red oxidation is observed in fracture/joint surfaces.							
41.84	42.67	0.83	GRD	MG	weakly potassic, trace argillic granodiorite interval with light brown oxidation,limonite rich sections. 1-3m, quartz veins (~ 35 degrees TCA) containing trace blebby galena, pyrite and sphalerite occur throughout interval. A 1 cm, quartz vein containing trace pyrite is observed 42.48m							
						LT	BN		POT	2I	Py	2
						LT	PK		LIM	2I	Gn	2
									OXI	2I		
42.67	43.46	0.79	GRD	MG	weakly potassic, propylitic granodiorite containing 5mm-1 cm polymetallic veins. Polymetallic veins contain disseminated pyrite, trace galena, sphalerite, arsenopyrite and are partially infilled by carbonates. Veins locally brecciate host grd. Veins are ~ 35 degrees TCA.							
						LT	PK		PRO	2I	Sp	3
						LT	GN		POT	2I	As	1
											Gn	2
											Py	4
43.46	47.89	4.43	GRD	MG	trace potassic,trace propylitic, relatively unaltered granodiorite containing light brown and dark red hematite oxidation on fractures and joint surfaces.							
						LT	GN		POT	1I		
						LT	PK		PRO	1I		
47.89	48.77	0.88	GRD	MG	weakly oxidized, weakly argillic, trace potassic granodiorite interval. dark red, hematite oxidation is observed on fractures/joint surfaces.							
						LT	BN		ARG	2I		
						LT	BG					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK					
48.77	49.19	0.42	VEN	MG	moderately silicified, locally oxidized, polymetallic vein breccia zone. Light tan, feldspathic clasts and dark grey clasts are observed in vein breccia zone. Trace, disseminated pyrite, sphalerite and galena are hosted in vein breccia zone. Trace, interstitial ankerite occurs within vein zone and light grey, smoky quartz appears to interstitially infill vein breccia zone.							
						MD	BG				Ak	2
						LT	BN	BX	OXI	2I	Py	2
						LT	GY		SIL	3I	Gn	1
											Sp	2
49.19	51.82	2.63	GRD	MG	pervasively oxidized, weakly argillic, trace propylitic and local potassix granodiorite zones containting trace 1mm-1 cm, oxidized, carbonate infilled quartz veins containting trace disseminated pyrite.							
51.82	54.31	2.49	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval. light brown, clay oxidation and dark red hematite oxidation are observed.							
						LT	PK		PRO	1I		
						LT	GN		POT	1I		
54.31	56.58	2.27	GRD	MG	weak propylitic, trace potassic altered granodiorite overprinted by weak argillic alteration. Trace, 1 mm, dark fine grained veinlets containing fine grained pyrite and 2-3mm, carbonate infilled quartz veinlets arelocally observed on interval. light brown oxidation occurs in more argillic altered sections.							
56.58	64.77	8.19	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite with intermitten zones of weak argillic, potassic alteration. Light brown oxidation and limonite is observed in argillic altered zones. Trace, 1mm, pyrite bearing bands are locally observed on interval							
						MD	BG		POT	1I		
						LT	GN					
						LT	BN					
						LT	PK		ARG	2I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
64.77	67.45	2.68	GRD	MG	weak propyitic alteration oveprinting weak argillic trace potassic alteration in grd. Trace 1-2 mm, pyrite bearing veins are locally observed on interval. Weak, light brown oxidation occurs in some grd zones.							
						MD	BG		ARG	2I		
						LT	PK		PRO	2I	Py	2
						LT	GN		POT	1I		
67.45	76.40	8.95	GRD	MG	trace potassic, trace propyliltic granodiorite interval with intermitten zones of weak argillic, trace propylitic alteration. 1 cm, light pink, aplite dyke intrusion is observed at 7515m (~40 degrees tca). Oxidation along fractures and joint surfaces is locally observed.							
						MD	BG		ARG	1I		
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
76.40	77.60	1.20	GRD	MG	weakly argillic grnodiorite with intermitten zon of weak propylitic alteration. Light pink, fine grained aplite dyke intrusions are locally observed on interval(~80 degrees TCA). A 2 mm, calcite veinlets crosscuts through aplite dyke intrusion at 76.90m							
						MD	BG					
						LT	PK					
77.60	80.37	2.77	GRD	MG	trace potassic, trae propylitic granodiorit interval displaying light brown and reddish oxidation along fracture and joint surfaces.							
						LT	GN					
						LT	PK					
80.37	82.15	1.78	GRD	MG	weakly propylitic granodiorite overprinting weak argillic alteration. Sheared, gouged brecciated zones are locally observed proximal to vein breccia zone. Ankerite infilled, quartz veins locally brecciate host granodiorite. Fractures locally offset quartz veins in interal. Trace disseminated pyrite occurs in dark grey, gouged seans, within granodiorite host and vein breccia zone. Vein breccia zone is weakly silicified, dark grey and contains feldspathic and quartz clasts. Chlorite clasts, trace pyrite and sphalerite also occuring in vein breccia zone.							
						LT	GN		PRO	2I	Py	2
						LT	BG		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
82.15	86.68	4.53	GRD	MG	moderate potassic, weakly argillic granodiorite interval with zones of dark red, hematite oxidation (oxidation observed in grd, fractures/joint and in quartz veins. Quartz veins contain trace pyrite , and contain dark red hematite inclusions . Veins are locally offset and crosscut by calcite infilled fractures. Trace 1-2 mm, pyrite bearing veinlets are present on interval as well.							
						MD	PK		POT	3I		
						LT	BG		HEM	2I		
						DK	RD		ARG	2I		
86.68	96.15	9.47	GRD	MG	white/black, salt/pepper unaltered granodiorite interval with intermittent zones (no larger than 10cm) of weak potassic alteration. Trace 1mm, pyritebearing bands occur sporadically throughout interval.							
						--	BK		POT	1I		
						--	WH					
96.15	98.35	2.20	GRD	MG	trace potassic, relatively unatered granodiorite interval. trace 1-2mm, carbonate infilled, quartz veinlets are locally observed							
						LT	PK		POT	1I		
98.35	99.64	1.29	GRD	MG	trace potassic,trace propylitic altered granodiorite oveprinted by weak argillic alteration. 2-4mm, quartz veins sometimes containting trace disseminated pyrite occur on interval. calcite veinlets locally crosscut quartz veins. Interval exhibits increased veining compared to previous unaltered interval.							
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
									ARG	2I		
99.64	101.20	1.56	GRD	MG	trace potassic, propylitic granodiorite interval containting 4mm-6mm, carbonate infilled quartz veins. Veins appear to locally brecciate host grd.							
						LT	GN					
						LT	PK					
101.20	104.50	3.30	GRD	MG	trace potassic granodiorite interval displaying yellowish, light brown oxidation along fractures/joint surfaces.							
						LT	GN					
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
104.50	110.15	5.65	GRD	MG	black/white, unaltered granodiorite interval. 1-2cm, weakly propylitic alteration sections are observed.							
						MD	GN					
						--	WH					
						--	BK					
110.15	112.00	1.85	GRD	MG	black/white, unaltered granodiorite with small, interittent sections of moderate propylitic alteration (as alteration halos near veins). Veins in propylitic alteration halos contain calcite, dark, fine grained, magnetite and trace disseminated pyrite. Veins range from 2-4mm and are ~ 60 degrees TCA. Trace, sub mm, sphalerite is also present in veins.							
						--	WH		PRO	3I		
						--	BK					
112.00	116.80	4.80	GRD	MG	black/white , unaltered granodiorite with trace potassic ,intermittent ones (as alteration halos near veins). Veins are 1-2mm, contain disseminated pyrite. Calcite infilling fracture surfaces in grd is locally observed. Red , hematite oxidation is present along joint surfaces. Propylitic alteration halos are no longer observed on interval.							
						LT	PK					
						--	WH					
						--	BK					
116.80	121.41	4.61	GRD	MG	black/white, unaltered granodiorite with intermittent zones of trace propylitic, potassic alteration. Sub-mm, veinlets occur sporadically on interval (with small, potassic alteration halos). Calcite infilling fracture surfaces is locally observed. Dark red, hematite oxidation along joints is also observed on interval.							
						LT	PK					
						--	WH		PRO	1I		
						--	BK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
121.41	126.10	4.69	GRD	MG	trace potassic, propylitic granodiorite interval with intermittent potassic altered, propylitic, weakly argillic sections (also as alteration halos near vein zones). Chaotic, sub-mm,calcite infilled fracturing is localy observed throughout granodiorite unit. Vein zone with propylitic alteration halo within a weakly argillic,potassic altered grd section is observed at 122.40m. Pyrite is hosted in smoky quartz veins which are partially infilled by calcite. Pyrite bearing veins in this section are ~ 50 degrees TCA. Least altered grd sections appear to be weakly silicified.							
						LT	PK		ARG	1I		
						LT	GN		PRO	1I	Py	2
									POT	1I		
126.10	128.60	2.50	GRD	MG	weakly potassic, propylitic altered granodiorite overprinted by argillic alteration. (more argillic and propylitic in vein zone). 4mm-3cm, (60 degrees TCA) smokey quartz veins , partially infilled by calcite and dark red, fine grained , hematite (?) are observed from 127-128m (in propylitic/argillic and potassic/argillic altered grd sections). Trace disseminated pyrite occurs within quartz veins. 1 mm, calcite infilled fractures locally crosscut through quartz veins.							
						MD	BG		ARG	3I		
						LT	GN		POT	2I		
						LT	PK		PRO	2I		
128.60	133.60	5.00	GRD	MG	trace to weakly potassic altered granodiorite overprinting trace propylitic alteration. Local fractured sections are pnserved on interval. trace 2mm-1cm, carbonated infilled, quartz veins containing trace disseminated pyirte are locally observed.							
133.60	136.75	3.15	GRD	MG	trace propylitic alteration overprinted by trace to weak potassic granodiorite interval containting 4cm-14cm, light pink aplite dyke intrusions (~60 degrees TCA). Trace, 1-4mm, carbonate infilled, quartz veins, sometimes containting minor disseminated pyrite occur throughout interval.							
						LT	PK					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
136.75	140.10	3.35	GRD	MG	weakly potassic, trace propylitic granodiorite with moderate argillic zones overprinting potassic altered sections. Alteration is more prominent on interval, in particular argillic alteration. 1-3 mm, stringer , quartz veins with partial carbonate infill(`45 degrees TCA) are more commonly observed in altered interval, are sometimes crosscut by 1-2 mm, calcite veinlets and contain trace disseminated pyrite.							
						LT	PK		POT	2I		
						LT	GN		ARG	3I		
									PRO	1I		
140.10	146.19	6.09	GRD	MG	trace potassic, trace propylitic granodiorite interval with intermittent zones of weak to moderately potassic alteration overprinted by weak to moderate argillic alteration (argillic alteration more prominent near vein vein zone contact). 5 mm, light pink aplite dyke intrsution is observed @ 145.12m (~ 50 degrees TCA). 3-4mm, carbonate infilled, pyrite bearing veinlets in altered grd sections are observed.							
146.19	146.40	0.21	VEN	MG	moderately silicified, vein zone in argillic altered granodiorite. Blebby pyrite, disseminated pyrite, trace and sphalerite are observed in vein section. Vein zone appears brecciated, with argillic altered, brecciated clasts and carbonate infilled veins brecciating host grd being locally observed.							
						MD	BG		PRO	1I	Py	1
						MD	GY		ARG	3I	Py	2
									POT	2I	Sp	1
146.40	147.83	1.43	GRD	MG	weakly propylitic, trace potassic altered granodiorite overprinted by moderate argillic alteration. From 146.70-147m, light pink (slightly paler due to alteration), aplite dyke intrusions (65 degrees TCA) are observed in altered grd . 2-5mm, dark grey, carbonate infilled, stringer veins occur from 147.30-147.60m where trace disseminated occurs within some stringer veins (~40 degrees TCA). Three, light pink, 3-5 mm, aplite dyke intrusions (40 degrees TCA) are observed from 147.60-147.83m.							
						LT	PK		PRO	1I	Py	2
						LT	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BG		POT	1I		
147.83	150.58	2.75	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones weak argillic alteration (as alteration halos near 1-3m, pyrite bearing veins) overprinting existing potassic, propylitic altered sections. Blebby and disseminated pyrite are observed in grey, quartz, carbonate infilled veins (~50 degrees TCA).							
						MD	BG		PRO	1I	Py	2
						LT	PK		POT	1I		
						LT	GN		ARG	2I		
150.58	153.00	2.42	GRD	MG	trace potassic, granodiorite with intermittent moderate potassic, weakly propylitic and argillic/potassic altered zones. Trace 3m-5mm, ankerite infilled, pyrite bearing veinsare observed in propylitic/argillic altered zones(zone might have a trace phyllic overprint; disseminated pyrite, silicified and basal cleavage muscovite crystals observed). Trace 1-3mm, calcite infilled veinlets occur in potassic/argillic altered grd sections.							
153.00	155.30	2.30	GRD	MG	weak to moderate argillic, weak potassic granodiorite and intermitten zones of trace potassic, trace propylitic alteration. Trace 1-2mm, carbonate infilled veins, sometimes containting disseminated pyrite are observed throughout altered interval.							
155.30	157.35	2.05	GRD	MG	Interval comprised of weakly argillic, trace potassic granodiorite with intermittent zones of moderately argillic, weakly propylitic, trace phyllic granodiorite. A fine grained, green,pink, propylitic, potassic altered granodiorite dyke intrusion is observed @ 155.63-156m. 2-4mm, stringerquartz veins partially infilled by ankerite and calcite , containting blebby pyrite are comonly observed, mostly in argillic/propylitic altered zones. Thinner, 1-2mm, dark grey, pyrite bearing veins crosscut through stringer veinsand are also locally offset by calcite infilled fractures. Trace disseminated pyrite also occurs within host grd in argillic/propylitic/phyllic altered zones.							
						MD	BG		PRO	2I	Py	2
						LT	GN		ARG	3I	Py	3
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									PHC	1I		
157.35	161.15	3.80	GRD	MG	weak to moderate argillic granodiorite interval with intermittent sections of weakly potassic and weakly propylitic altered granodiorite. Trace 2-4 mm, pyrite bearing stringer veins occur in argillic/propylitic altered granodiorite zones. Pyrite in veins occurs within dark grey, fine grained bands and within quartz viens partially infilled by calcite and ankerite. Veins are ~ 50 degrees TCA.							
						MD	BG		PRO	2I	Py	3
						LT	GN		ARG	3I	Ak	2
						LT	PK		POT	2I		
161.15	164.34	3.19	GRD	MG	weakly to moderate argillic granodiorite overprinted by weak propylitic alteration and intermittent zones of weak potassic alteration. 1-3mm, dark grey, fine grained, pyrite bearing bands are locally observed in argillic/propylitic altered zones. 2-4mm, quartz veins containting trace disseminated pyrite are also oserved in argillic/propylitic altered zones.							
						MD	BG		POT	2I	Py	3
						LT	PK		ARG	3I		
						LT	GN		PRO	2I		
164.34	167.10	2.76	GRD	MG	moderate potassic, moderate argillic granodiorite interval with trace potassic overprint zones (near 1-3mm, quartz veinlets). Veins are ~ 40 degrees TCA. Quartz veinlets contain trace amounts of disseminated pyrite.							
						MD	PK		ARG	3I	Py	1
						MD	BG		PRO	1I		
						LT	GN		POT	3I		
167.10	168.13	1.03	GRD	MG	moderate argillic, trace propylitic altered granodiorite overprinting trace potassic alteration. 2-5mm, calcite, ankerite infilled quartz veins containing disseminated pyrite are locally observed on interval. Trace pyrite blebs are also observed within altered grd host.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
168.13	168.44	0.31	VEN	MG	bright pink, rhodocrosite infilling quartz veins and brecciating weakly propylitic, trace argillic host granodiorite. Tan, ankerite occurs as inclusions within brecciated zone and appears topartially infill some quartz veins as well. Coloform bands are also observed within vein interva. No significant mineralization is present in vein zone, trace pyrite occurs sporadically within vein zone. What is notable about interval is the purity of the rhodocrosite (bright pink rhodocrosite only seen this pink on this hole).							
						MD	GN		ARG	2I	Py	2
						LT	PK		PRO	3I	Rh	6
168.44	170.74	2.30	GRD	MG	moderate argillic, potassic granodiorie overprinting trace propylitic alteration. Light pink, fine grained, aplite dyke intrusions are oserved at 168.70 and 169.20 in altered grd interval. Aplite dyke intrusions are crosscut by sub-mm black fine grained veinlets and sub-mm calcite veinlets.							
170.74	171.33	0.59	GRD	MG	light green, weakly silicified, fine grained, weakly propylitic, argillic granodiorite interval containing pyrite blebs and sub-mm, black sphalerite. Veins @ 170.85 containt blebby pyrite within dark grey , veins which are infilled and brecciated by bright pink rhodocrosite. Rhodocrosite infills clear quartz veins and locally brecciates host granodiorite. Sub-mm sphalerite and possibly galena is appears to be restricted to rhodocrosite veins. Calcite infilled fractures appear to locally offset veins. Veins are ~ 30 degrees TCA.							
						LT	GN		PRO	2I	Py	2
									ARG	2I	Gn	1
											Rh	5
											Sp	1
171.33	174.85	3.52	GRD	MG	weak to moderate argillic, weak to trace potassic altered granodiorite with trace propylitic overprint. Trace 1-4 mm, carbonate infilled veinlets are locally observed on interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
174.85	176.00	1.15	GRD	MG	moderate propylitic alteration overprinted by weak argillic altered granodiorite. Interval contains 2-3mm, dark grey, pyrite bearing stringerveins (40 degrees TCA). Light grey, gouged seam in a 1cm quartz vein is observed at 175.05m. Trace disseminated pyrite is observed in vein zones and sometime within grd host. 2 cm, quartz vein at 175.44m contains red hematite bands and appears to microbrecciate host grd.							
						MD	BG		ARG	2I		
						MD	GN		PRO	3I		
176.00	177.20	1.20	GRD	MG	weak potassic alteration oveprinted by moderate argillic alteration in granodiorite. Interval is fractured from 176.85-177.10m.							
						MD	BG		ARG	3I		
						LT	PK		POT	2I		
177.20	178.55	1.35	GRD	MG	moderate argillic, trace potassic granodiorite containing 2-5 mm, dark grey, pyrite bearing stringer quartz veins. Veins are ~ 40 degrees TCA and are partially infilled by carbonates (mostly calcite).							
178.55	181.00	2.45	GRD	MG	moderate potassic, argillic granodiorite intervalwith intermittent zones of trace propylitic granodiorite with trace 1-2mm, pyrite bearing, carbonate infilled veinlets. A 1 cm, 15 degree tca, clear quartz vein is observed @ 179.15m.							
						MD	BG					
						MD	PK					
						LT	GN					
181.00	183.14	2.14	GRD	MG	trace potassic, trace propylitic granodiorite with local zonesof weak argillic overprint. 1-2 mm, calcite veinlets and calcite infilling joint surfaces from 181.45-182.30 are observed in granodiorite interval							
183.14	184.00	0.86	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak argillic, trace potassic alteration. A 1 cm, dark grey, carbonate infilled vein containing bleby pyrite is observed @ 183.40m (in argillic/potassic altered grd section). Chlorite and calcite infilling fracture parallel to vein (~ 40 degrees tca) adjacent to vein is observed as well.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK		POT	1I	Py	2
						LT	GN		PRO	1I		
									ARG	2I		
184.00	185.15	1.15	GRD	MG	weak to moderately argillic granodiorite with intermittent zones of weak propylitic alteration (as alteration halo in vein near veins) and weakly argillic/potassic alteration. Vein at 84.15m, contains bleby pyrite, is partially infilled by calcite and is ~ 70-75 degrees TCA). 2 mm, quartz vein with propylitic alteration halo is observed 184.30m (no mineralization observed in this vein). Alteration become increasingly argillic proximal to grd-dyke contact. 4 m, vein at 184.90m contains disseminated pyrite, black, fine grained clasts and is partially infilled by calcite.							
						MD	BG		PRO	1I		
						LT	PK		ARG	2I	Py	2
						LT	GN		POT	1I		
185.15	185.83	0.68	POR	MG	light to medium grey porphyry dyke interval with trace clay alteration. From 185.15-185.30 contact grades frfom a light beige feldpathic rich zones, to a ligh-medium brown oxidized clast rich zone. Trace 1-3mm, calcite veinlets are found at 20 and 80 degrees TCA.							
						MD	GY		CLY	1I		
						LT	GY					
185.83	186.75	0.92	POR	MG	dark purple matrix, porphyry dyke with fracture zones occurring at 186.25-186.55m. Trace 3-4 mm, caronate infilled veins (40 degrees TCA) are observed). Calcite infilling fractures , sometimes micro brecciating porphyry dyke occur locally.							
186.75	189.56	2.81	POR	MG	porphyry dyke exhibiting light red alteration (hematite or clay alteration(?)) and increased black, biotite . Veins are no longer observed on interval only trace, calcite infilled fractures.							
						LT	RD					
						DK	PU		HEM	1I		
189.56	190.55	0.99	POR	MG	unaltered, porphry dyke with dark purple matric and local zone of light red alteration (near contact with grd). No veining is observed and biotite content also increases right at the contact with grd							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
190.55	191.40	0.85	GRD	MG	trace potassic, weakly propylitic granodiorite interval.							
191.40	192.77	1.37	GRD	MG	moderately argillic granodiorite with local zones of moderate propylitic and weakly potassic alteration. Trace 1-2 mm, carbonate infilled veins are locally observed on interval (no significant mineralization observed). Small carbonitic veins are ~ 40 degrees TCA							
						MD	BG		ARG	3I		
						LT	PK		PRO	3I		
						DK	GN		POT	2I		
192.77	193.80	1.03	GRD	MG	moderate argillic , weakly propylitic granodiorite interval containing trace, 2-5 mm, dark grey, pyrite bearing veins (~ 40 degrees TCA). Quartz veins contain sub-mm, carbonitic rims. Sub-mm, pyrite bearing bands run ~ 80 degrees TCA. Trace pyrite blebs occur within argillic altered grd.							
						MD	BG		PRO	2I	Py	3
						LT	GN		ARG	3I	Py	2
193.80	195.32	1.52	GRD	MG	moderate argillic , weakly propylitic granodiorite containting 1-4 cm, pyrite bearing quartz veins, which locally brecciate host grd, are brecciated and infilled by bright pink, rhodocrosite and ankerite. Trace blebby, pyrite also occurs within grd host. Dark, fine grained bands surround quartz vein zone (coloform bands(?). Vein breccia zone @ 193.85m runs ~ 80 degrees TCA. Sub-mm, fractures locally offset and crosscut through sub-mm, pyrite bearing veinlets(~ 40 degrees TCA). Rhodocrostite infilled vein at 174.75 runs about 55 degrees TCA). Vein contains small, irregular, brecciated calcite clasts within quartz-rhodocrosite vein zone. NOTE: purity of rhodocrosite continues to be observed in hole. So far is the only hole to contain such bright pink, pure (?) rhodocrosite. Vein at 195.16m contains both rhodocrosite and ankerite (rhodocrosite infilling quartz vein and then ankerite surrounds and brecciates rhodocrosite-quartz vein).							
						MD	BG		PRO	2I		
						LT	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
195.32	197.14	1.82	GRD	MG	moderately argillic granodiorite with local zones of trace potassic and trace propylitic alteration. A rubbly, gouged seam is observed @ 195.35m and contains disseminated pyrite. A 3 mm, quartz vein (45 degrees TCA) with carbonate inclusions contains brassy yellow, soft, chalcopyrite(?) and trace galena and is surrounded by a moderately propylitic alteration halo. Calcite infilling fracture surfaces is locally observed on interval.							
197.14	198.29	1.15	GRD	MG	trace potassic, weakly propylitic alteration overprinted by moderate argillic alteration in granodiorite. Rubbly, gouged zone is observed from 197.80-198m. A 70 degrees TCA , quartz vein containting calcite clasts and is crosscut by a calcite infilled fracture is observed @ 197.67-197.70m							
198.29	199.00	0.71	GRD	MG	moderate propylitic altered granodiorite overprinting moderate argillic alteration. 1 cm, quartz vein containing blebby pyrite (or chalco(?); brassy yellow, softer than pyrite,) and trace sphalerite . Trace, calcite and ankerite are observed within quartz vein but otherwise remains unaltered. Vein is ~ 40 degrees TCA. 1-2 mm, pyrite bearing bands , ~ 30 degrees TCA, occur along fracture plane in grd.							
						MD	GN					
						DK	GN		PRO	3I		
199.00	201.55	2.55	GRD	MG	moderate argillic granodiorite with local zones of weak potassic and trace propylitic alteration. Trace 1-2mm, dark grey, pyrite bearing veinlets (~ 60 degrees TCA) are locally observed. 1 mm, calcite infilled veinlets and calcite infilled fractures also occur throughout interval							
						MD	BG		ARG	3I	Py	2
						LT	PK					
						LT	GN					
201.55	203.20	1.65	GRD	MG	moderately argillic, weakly propylitic granodiorite interval with minor gouged, brecciated seams and containing 2-4 mm, carbonate infilled quartz veins sometimes containing trace disseminated pyrite. A 2 cm, quartz vein is observed at 202.16 (80 dedgrees tca). Vein contains dark grey, smoky and clear quartz.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BG		PRO	2I		
						LT	GN		ARG	3I		
203.20	203.44	0.24	VEN	MG	quartz vein zone in altered granodiorite. Dark grey, smoky quartz and clear quartz occur in vein zone with rhodocrosite infilling and brecciating quartz vein locally. Trace ankerite as partiall infill in vein is also observed. Disseminated pyrite and trace sphalerite mostly occurs within dark grey, vein zones (within smoky quartz). Dark grey smokey quartz brecciated clasts are also present within vein zone. (brecciated by clear quartz vein, and partially infilled by carbonates).							
						MD	GY		PRO	2I	Py	2
						DK	GY		ARG	3I	Sp	1
203.44	204.22	0.78	GRD	MG	moderately argillic, weakly potassic granodiorite interval.							
						MD	BG					
						MD	PK					
204.22	205.11	0.89	GRD	MG	trace potassic altered granodiorite overprinting tra							
205.11	207.56	2.45	GRD	MG	moderate argillic granodiorite with local zones of weak potassic and trace propylitic alteration. Trace 1- 4mm, pyrite bearing stringer veins (50 degrees TCA) are observed in more altered granodiorite zones. A 3 mm, rhodocrosite infilled, stringer vein running 80 degrees TCA, occurs @ 205.44. Calcite infilled, 1-2 mm fractures crosscut through stringer veins locally.							
						MD	BG		POT	2I		
						LT	GN		ARG	3I		
						LT	PK		PRO	2I	Py	2
207.56	207.65	0.09	VEN	MG	7 cm, vuggy vein (80 degrees TCA) within moderately argillic, trace propylitic granodiorite containting dark grey, smoky quartz,clear quartz and bright pink rhodocrosite partially infilling and locally brecciatd clear quartz vein. Trace disseminated pyrite is observed in grd host and within dark grey, smoky quartz vein. A 5 mm, light grey gouged, brecciated seam is observed at the contact between grd and vein zone.							
						MD	GY				Py	4
						MD	BG		PRO	2I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		ARG	3I	Rh	5
207.65	208.64	0.99	GRD	MG	moderately argillic granodiorite with local zones of weak to moderate potassic alteration. Trace 2-4mm, dark grey, pyrite bearing veins (~ 35 degrees TCA) are crosscut by 3 m, rhodocrosite infilled quartz veins(~ 80 degrees TCA). Trace pyrite is observed within grd host							
						MD	BG		ARG	3I	Py	2
						MD	PK		POT	2I	Py	2
											Rh	2
208.64	209.30	0.66	GRD	MG	moderate argillic, trace propylitic granodiorite interval containing 2-8mm, dark grey, pyrite bearing stringer quartz veins (80 degrees TCA). Minor calcite vein infill occurs within stringer veins. Blebby and disseminated pyrite is locally observed within host grd. Veins appear slightly deformed (irregular)(weakly sheared (?)). 1-2 m, light grey gouged seams are observed near stringer veins.							
						MD	BG		PRO	1I	Py	2
						LT	GN		ARG	3I	Py	3
											Rh	1
209.30	209.66	0.36	VEN	MG	Weakly silicified, vein breccia zone containing disseminated and blebby pyrite. Vein in breccia is 75 degrees TCA and contains rhodocrosite and ankerite that both infills and locally brecciates quartz veins. (rhodocrosite mainly infills and brecciates clear quartz vein							
209.66	211.16	1.50	GRD	MG	moderate argillic, trace propylitic granodiorite containting trace 3-5 mm, pyrite bearing, quartz stringer veins. Gouged, weakly sheared brecciated seas is observed at the lower vein breccia-grd contact. Stringer veins occur at 80 and 35 degrees TCA. (lower angled ones are partially infilled with calcite).							
						MD	BG		PRO	1I	Rh	4
						LT	GN		ARG	3I	Py	2
											Ak	2
211.16	212.87	1.71	GRD	MG	moderately argillic, weakly potassic granodiorite interval with local zones of trace propylitic alteration. Trace 2-4 m, carbonate vein locally brecciating host grd are observed. Veins run 80 degrees TCA.							
						MD	PK		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BG		POT	2I		
212.87	213.56	0.69	GRD	MG	trace potassic, trace argillic ,relatively unaltered granodiorite interval containing trace 1-2 mm, calcite infilled veinlets.							
213.56	216.41	2.85	GRD	MG	moderately argillic granodiorite with local zones of weak potassic and weak propylitic alteration. 2mm-2cm pyrite bearing stringer quartz veins (80 degrees TCA) are locally observed on interval. Veins are partially infilled by carbonates. Coloform bands are observed in vein at 214.97m (dark grey quartz, calcite ,hematite bands). Trace, sub-mm sphalerite is observed in some stringer veins.							
						MD	BG		POT	2I	Sp	1
						MD	PK		ARG	3I	Py	3
						LT	GN		PRO	2I		
216.41	216.94	0.53	GRD	MG	moderate propylitic alteration overprinting weak argillic alteration in granodiorite interval. Two 8mm, pyrite-bearing,stringer quartz veins (35 degrees TCA) , with partial carbonate infill are observed on interval.							
						MD	GN		PRO	3I	Py	2
						LT	BG		ARG	1I		
216.94	219.00	2.06	GRD	MG	fractured, trace potassic, trace propylitic granodiorite interval. Trace, 1m, pyrite bearing bands are observed on interval.							
219.00	221.34	2.34	GRD	MG	trace potassic, trace propylitic granodiorite interval with local zones of moderate argillic, propylitic and potassic alteration (as 1-4 cm, alteration halos near stringer veins). Stringer veins with propylitic altered halos are ` 35 degrees TCA. Veins with argillic alteration halos are 75-80 degrees TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
221.34	224.20	2.86	GRD	MG	moderately argillic, trace potassic granodiorite with intermitten zones of weak propylitic, trace potassic alteration. 3mm-10 cm quartz veins , sometimes containing trace pyrite are observed on interval. rhodocrosite, ankerite and calcite infilling and locally brecciating clear quartz veins are observed within vein zones. Larger veins form coloform bands with carbonates-quartz. Veins with coloform bands are ` 80 degrees TCA (222.62, 224m). A 2 cm, vein (25 degrees TCA) locally brecciated and infilled by rhodocrosite is observed @ 222.05m.							
224.20	226.40	2.20	GRD	MG	weakly potassic, trace propylitic granodioriteinterval containing trace 2-5 mm, pyrite bearing veins (30 degrees TCA) are locally observed. Interval is rubbly and fractured from 224.16 at vein contact between potassic/argilic granodiorite and weakly altered grd.							
226.40	229.00	2.60	GRD	MG	strongly argillic granodiorite interval overprinting local zones of trace potassic, propylitic alteration. Trace 2-5 mm stringer veins containting trace pyrite are locally observed (~40 degrees TCA).							
229.00	231.04	2.04	GRD	MG	strongly argillic granodiorite interval with increased pyrite bearing, quartz stringer veins. Veins are 40 degrees tca, contain trace pyrite blebs and sometimes brecciate host grd Trace rhodocrosite and ankerite partially infilling larger stringer veins are observed.							
						MD	BG		ARG	4I	Py	2
											Rh	1
											Ak	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
231.04	241.12	10.08	GRD	MG	strongly argillic granodiorite with local zones of weak potassic and propylitic alteration. 2mm-3 cm, pyrite bearing stringer veins ~ 40 degrees, sometimes infilled and brecciated by carbonates are locally observed throughout interval. Some dark grey, pyrite rich bands run about 70 degrees TCA. Some veins contain trace, sub-mm, sphalerite occuring within carbonitic infill in stringer vein zones is observed. Some stringer veins are ~ 80 degrees TCA(mostly largest and rhodocrosite containing veins). Some stringer veins in the lower portion of the interval containt milky quartz run ~ 30 degrees TCA.							
						MD	BG		ARG	4I		
						LT	PK		POT	2I		
						LT	GN		PRO	2I		
241.12	241.43	0.31	VEN	MG	irregular, slightly deformed, vein zone containing clear quartz, dark grey smoky quartz, blebby pyrite and partially infilled by rhodocrosite is observed in vein interval. Dark grey matrix appears to locally brecciate clear quartz vein sections and host grd. Trace, sub-mm, sphalerite crystals are observed within rhodocrosite infilled zones. Veins are ` 80 degrees TCA on interval.							
241.43	242.52	1.09	GRD	MG	strongly argillic granodiorite with local zones of trace potassic, propylitic alteration. Two, low angle (20 degrees TCA) quartz veins containing blebby pyrite are observed on interval.							
242.52	246.73	4.21	GRD	MG	Moderate argillic granodiorite with weakly potassic overprint. Trace, dirty quartz, low angle veins(25 degrees) , brecciating host grd are observed @ 243.45m. Trace 1-3 mm, pyrite bearing , stringer veins with coloform bands are observed in slightly propylitic, potassic zones.							
						MD	BG		ARG	3I	Py	2
						MD	PK		PRO	1I		
									POT	2I		
246.73	247.30	0.57	GRD	MG	trace potassic , trace propylitic granodiorite interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
247.30	247.61	0.31	GRD	MG	moderately propylitic, trace argillic granodiorite containing a 2 cm, 35 degrees TCA, quartz vein. Quartz vein host blebby pyrite in clear quartz and within dark grey, bands. Quartz vein contains light red,clasts (chert?). Calcite infill is also observed on vein.							
						MD	GN		PRO	3I	Py	2
									ARG	1I		
247.61	249.34	1.73	GRD	MG	trace potassic, trace propylitic granodiorite interval with trace 1-2 mm, pyrite-bearing, carbonate infilled veinlets (50 degrees TCA).							
249.34	250.44	1.10	GRD	MG	strongly argillic granodiorite overprinting trace potassic, propylitic altered zones. 1 cm, quartz vuggy veins infilled by carbonates are observed on interval(80 degrees TCA).							
250.44	250.70	0.26	VEN	MG	Brecciated, quartz veinin moderately propylitic granodiorite. Trace disseminated pyrite occurs in vein zone. Carbonates locally brecciates quartz veins and host grd. Light grey, chalcedony(?)) clasts are observed within brecciated vein zone.							
250.70	253.22	2.52	GRD	MG	strongly argillic granodiorite with local zones of trace potassic, trace propylitic alteration. 1-4mm, carbonate infilled, pyrite bearing , vuggy veins are observed throughout interval (65 degrees TCA).							
253.22	253.30	0.08	POR	MG	light grey, light brown, clay altered, weakly oxidized porphyry dyke interval							
253.30	253.53	0.23	POR	MG	dark purple, fractured ,porphyry dyke interval.							
253.53	253.93	0.40	POR	MG	light grey, fractured, rubbly , clay altered porphyry dyke with light brown oxidation near the dyke-grd contact							
253.93	258.10	4.17	GRD	MG	strongly argillic granodiorite overprinting trace potassic, propylitic local zones. Trace vuggy veinlets and vugs in grd occur @ 255m. 2-4 mm, quartz-carbonate veinlets sometimes hosting trace disseminated pyrite are observed (50 degrees TCA).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BG					
						LT	PK					
258.10	258.47	0.37	GRD	MG	strongly argillic granodiorite overprinted by moderate potassic alteration. Two, 4-5 mm, vuggy quartz veins containting dark green chlorite at veinlet boundaries are observed(40 degrees TCA). Trace 1-3 mm, carbonate-quartz veinlets (60 degrees TCA) also occur throughout interval.							
						MD	PK		ARG	4I		
						MD	BG		POT	3I		
258.47	260.93	2.46	GRD	MG	moderately argillic granodiorite with trace toweakly potassic overprint. Sub-mm quartz carbonate veinlets occur sporadically throughout interval.							
260.93	261.00	0.07	POR	MG	light grey, fine grained dyke intrusions proxiaml to vein zone within a moderately argillic, trace potassic granodiorite.							
261.00	261.15	0.15	VEN	MG	Polymetallic vein zone (55 degrees TCA) in moderate argillic, trace propylitic granodiorite. Polymetallic vein is 7 cm, contains blebby pyrite, trace arsenopyrite, trace sphalerite and possibly galena (sphalerite and galena observed near rhodocrosite zones. Dark grey,quartz hosts minerals and locally brecciates a clear quartz vein, and locally brecciates host grd host. Vein is offset 4 cm, by a light grey carbonitite,infilled fracture. Rhodocrosite surrounding vein displays a vuggy texture with acicular-like intrusions in contact with dark grey mineralized quartz. Coloform bands are also observed in rhodocrosite surrounding vein. Pyrite blebs surround smaller brecciated, quartz clasts within vein zone.							
						LT	PK				As	0.5
						DK	GY		ARG	3I	Sp	0.5
											Rh	3
											Py	2
											Gn	0.5
261.15	261.65	0.50	GRD	MG	strongly argillic, trace propylitic granodiorite interval overprinting trace potassic altered zones.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
261.65	266.28	4.63	GRD	MG	strongly argillic granodiorite with intermittent zones of moderate potassic and trace argillic alteration. 2-6 mm, carbonate infilled, 70 degrees TCA, stringer veins and local vuggy veinlets infilled by quartz crystals occur throughout interval. Some stringer veins have reddish,hematite infill and a few veinlets contain trace disseminated pyrite within dark grey, bands within veinlets. Coloform bands are also commonly observed in stringer veins on interval. Ankerite interstitially infilling and locally breccciating quartz vein occurs in lower section of interval at 265.47m. Calcite infilled fractures, locally crosscut through ankerite infilled vein.							
						MD	PK		ARG	4I	Py	1
						MD	BG		POT	2I	Ca	2
											Ak	2
266.28	266.79	0.51	VEN	MG	polymetallic vein zone within weak propylitic, trace potassic granodiorite overprinted by trace phyllic alteration (increased quartz clasts,basal cleavage muscovite(?) and disseminated pyrite locally observed in host grd). Interval is comprised of 2mm-2 cm, vuggy veins containing blebby pyrite, trace arsenopyrite , galena and sphalerite. Chalcedony, rhodocrosite and ankerite partially infill polymetallic veins . On fracture surface in light greyish chalcedony infilled vein, boytroidal, crystals are observed along fractured surface as well as euhedral calcite crystals. Coloform bands are commonly observed in vein zone. Veins range from 40-80 degrees TCA (steeper angled ones are thicker, ankerite-rhodochrosite rich veins. 40 degrees vein infilled by calcite where sphalerite and galena are located the the vein edges. Blebby pyrite occurs at vein boundaries and around quartz vein boundaries. In 80 degrees TCA, rhodocrosite infilled vein, trace galena and sphalerite are contained within rhodocrosite infill and within dark grey quartz matrix.							
						LT	PK		PHC	1I	As	0.5
						LT	GN		POT	2I	Gn	1
											Sp	2
									PRO	1I	Py	2
									ARG	3I	Rh	3
											Ak	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
266.79	267.59	0.80	GRD	MG	strongly argillic, trace propylitic, potassic granodiorite interval. trace, 1-3 mm, carbonate infilled, veinlets are locally observed on interval. Veinlets are 60 degrees TCA and are locally crosscut by a low angle (15 degrees Tca) calcite infilled veinlet.							
						MD	BG		POT	2I		
						LT	PK		ARG	4I		
						LT	GN		PRO	1I		
267.59	268.72	1.13	GRD	MG	interval comprised of trace potassic trace propylitic granodiorite and intermittent zones of weakly argillic, weakly to moderately potassic granodiorite and trace propylitic granodiorite. Trace, 2-3 mm, pyrite bearing veinlets sometimes containting carbonate infill are locally observed on interval. veinlets are 60-85 degrees TCA (most of them are 60 only vein at 268.35 run perpendicular to core axis.							
						MD	BG		ARG	2I		
						MD	PK		POT	2I		
						LT	GN		PRO	1I		
268.72	269.75	1.03	GRD	MG	moderately argillic , weak to moderate propylitic granodiorite containing 1-3 mm, pyrite bearing stringer quartz veins. Veins in mosre propylitic altered sections contain disseminated pyrite around veinlets and within grd host. Some veinlets contain carbonate infill and sometimes trace, sub-mm sphalerite is locally observed. Vein At 269.41m, contains light brown, carbonitic infill (ankerite(?)).							
						MD	BG		PRO	2I	Py	0.5
						LT	GN		ARG	3I	Sp	0.5
269.75	270.95	1.20	GRD	MG	weak to moderate potassic, moderate argillic, trace propylitic granodiorite interval. Trace 6-8mm, light grey carbonate infilled veinlets are observed on interval and locally crosscut through 1-2 mm, 80 degrees TCA, quartz-carbonate veinlets. At 270.61, medium green, pinkish, fine grained (dyke(?)) intrusion is observed on altered granodiorite interval.							
						MD	PK		POT	3I		
						LT	GN		PRO	1I		
									POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
270.95	272.34	1.39	GRD	MG	weakly potassic, argillic granodiorite with zones of weak to moderate propylitic alteration. 1mm-1 cm, 40 degrees TCA, vuggy veinlets are locally observed throughout granodiorite interval. vuggy veins contains light pink, rhodocrosite and calcite infill and blebby pyrite is hosted in dark grey bands within vein. Rhodocrosite infilled vuggy veins contain sub-mm, trace galena and sphalerite.							
						MD	PK		ARG	2I	Gn	0.5
						MD	GN		POT	2I	Sp	0.5
									PRO	2I	Py	0.5
272.34	272.90	0.56	GRD	MG	moderate argillic trace potassic granodiorite interval.							
272.90	273.08	0.18	GRD	MG	moderate propylitic granodiorite interval with light grey, gouged brecciated seam. A 3 mm, dark grey, slightly deformed veinlet is observed in propylitic altered interval. dark grey veinlet surround light beige, carbonate infill.							
						MD	GN		PRO	3I		
273.08	274.52	1.44	GRD	MG	trace potassic/trae propylitic granodiorite with local zones of moderate potassic, weak argillic alteration. Trace sub-mm, calcite infilled veinlets are observed (40 degrees TCA).							
						MD	PK		ARG	1I		
						LT	PK		PRO	1I		
									POT	2I		
274.52	275.53	1.01	GRD	MG	strongly argillic granodiorite with loca zones of weak potassic and weak propylitic alteration. Trace 1-2 mm, 50 degrees TCA, carbonate veinlets are observed on interval							
275.53	277.13	1.60	GRD	MG	trace potassic, propylitic granodiorite with trace1-3mm , dark grey,veinlets containting trace blebby pyrite (50 degrees TCA). Weak argillic, alteration halos are observed near veinlets bearing zones.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.13	278.29	1.16	GRD	MG	strongly argillic, trace potassic granodiorite with local zones of increased potassic and trace propylitic alteration. A 1 cm, carbonate infilled quartz vein (60 degrees TCA) containing trace pyrite blebs is observed @ 277.45m. A 2 mm, ankerite band surround a calcite infillef quartz vein. Pyrite is mostly hosted in dark grey, fine grey bands. A light grey/greenish, fine grained , dyke(?) intrusion occurs @ 277.90 (60 degrees Tca) and contains sub-angular quartz, feldspathic and black irregular clasts.							
278.29	280.07	1.78	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval with local zones of moderate potassic and weak argillic alteration. A 2 cm, light pink, fine grained aplite dyke intrusion is observed at 278.978m. 3mm-1 cm, carbonate infilled veinlets (65 degrees TCA) are observed within potassic/argillic altered grd. Larges veinlet contains ankerite which is crosscut by a 3 mm, calcite infilled quartz vein (i.e. 279.80m). A 4 cm,light pink aplite dyke intrusion occurs @ 279.92m (35 degrees TCA).							
280.07	282.65	2.58	GRD	MG	moderate to strongly argillic, trace potassic, propylitic granodiorite interval containing a 15cm, light grey, gouged, brecciated seam @ 280.66m and 2-5 mm, dark grey, rhodocrosite infilled, pyrite bearing veinlets which offset light pink, aplite intrusions. (Veinlets are 30 degrees TCA and appear to offset a 50 degree aplite dyke about 10 cm). Fractures locally offset sub-mm carbonate veinlets.							
282.65	283.52	0.87	GRD	MG	weakly propylitic, argillic granodiorite interval with local zones of weak potassic alteration (on lower interval section). 2mm-1 cm, carbonate infilled, quartz veinlets are locally observed (60 degrees TCA). Vein at 283 , contains light pink,rhodocrosite containing sub-mm, trace galena and sphalerite. Dark grey veinlets host trace, disseminated pyrite							
						MD	GN		PRO	2I	Rh	0.5
						LT	GN		POT	1I	Gn	0.25
						LT	PK		ARG	2I	Py	0.5
											Sp	0.25

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
283.52	285.06	1.54	GRD	MG	weakly argillic trace potassic granodiorite interval containing a 1 cm, ligh pink, fine grained aplite dyke intrusion (65 degrees TCA) which is locally crosscut by calcite infilled veinlets and fractures.							
285.06	286.00	0.94	GRD	MG	interval comprised of weakly potassic, granodiorite with weakly propylitic altered local zones. An ankerite, calcite infilled vein locally brecciating host grd is observed at 285.27 (70 degrees TCA). Sub-mm pyrite and sphalerite are observed in carbonate infilled vein. Vein locally offset and crosscut by fracturing. A 2 cm, light pink aplite dyke intrusion is observed at 285.95m (40 degrees TCA).							
286.00	286.86	0.86	GRD	MG	weakly propylitic, trace argillic granodiorite interval containing semi chaotic, 2-5mm, calcite infilled veinlets which locally brecciate host grd. Dark grey bands on veinlet zones locally host trace, disseminated pyrite. Carbonate veinlets brecciating host grd run 70 degrees TCA. Bright pink rhodocrosite partially infilling and locally brecciating quartz veinlet and hosting sub-mm, sphalerit is observed @ 286.80m.							
						MD	GN				Sp	0.25
						LT	GN		PRO	2I	Rh	1
											Py	0.5
286.86	288.22	1.36	GRD	MG	moderately argillic, weakly potassic granodiorite with local zones of weak to moderate propylitic alteration. 1-2 cm, carbonate infilled, veinlets forming coloform bands occur at 30 and 70 degrees TCA. 70 degree vein occurs @ 287.26 and contains red hematite, and ankerite-calcite-quartz coloform bands. Hematite appears to interstitially infill a dark, grey vein that microbrecciates quartz vein locally. Low angle vein observed @ 288m contains ankerite,calcite and light pink rhodocrosite which locally brecciate host grd (no significant mineralization observed in either vein). Fine grained, pink, aplite dyke intrusion (60 degrees TCA) also occur within altered grd interval and one dyke intrusion appears to be offset by irregular quartz clast.							
						MD	BG		ARG	3I		
						LT	BG		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
288.22	289.25	1.03	GRD	MG	weakly argillic, weakly potassic granodiorite with local zones of trace potassic , argillic alteration (mostly as alteration halos near pyrite bearing veinlets). Veinlets at 288.88, are 80 degrees TCA , contain blebby pyrite and are partially infilled by calcite. Veinlets crosscut through 3 cm, light pink, fine grained aplite dyke intrusion present at 289m (55 degrees TCA).							
						MD	BG		ARG	2I		
						LT	PK		PRO	1I		
						LT	GN		POT	2I		
289.25	290.60	1.35	GRD	MG	moderately argillic, weakly potassic, granodiorite interval displaying dark red, hematite alteration. Dark red alteration observed in 20 degrees TCA,1-2 mm, veinlets. 1-2 mm, calcite infilled fractures crosscut through hematite altereted veinlets.							
						MD	PK					
						MD	BG		ARG	3I		
						DK	RD		HEM	3I		
290.60	291.08	0.48	GRD	MG	moderately argillic, weakly potassic and trace propytic granodiorite interval. Trace, 1 mm, veinlets (80 degrees TCA) veinlets are locally observed throughout interval and sometimes contain trace, disseminated pyrite.							
291.08	291.72	0.64	GRD	MG	moderately argillic, weakly potassic, trace propylitic granodiorite interval containing light green, chlorite bearing inclusions and 1-4mm,ankerite infilled veinlets (50 degrees TCA). Ankerite infilled vein contains black, sub-mm bands which interstitially surround ankerite infilled veinlet.							
						MD	BG		POT	1I		
						LT	PK		ARG	3I		
						LT	GN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
291.72	292.05	0.33	VEN	MG	moderately propylitic, trace argillic granodiorite interval containting 2mm- 3 cm, carbonate infilled quartz veinlets which brecciate host grd . Trace, sub-mm, pyrite and sphalerite are observed within quartz vein and within dark grey, fine grained bands . Orange/brownish, carbonitic infill is also observed surronding aknerite infilled vein. Small fractures crosscut through vein zone. Veinlets are 80 degrees TCA. 103 mm, quartz vuggy veinlets are also observed at 292.02m.							
						MD	OR		PRO	3I		
						MD	GN					
292.05	293.00	0.95	GRD	MG	moderate argillic, trace potassic, trace propylitic granodiorite containing ankerite and calcite infilling fractures.							
						MD	BG					
						LT	GN					
293.00	293.24	0.24	VEN	MG	argillic, trace propylitic granodiorite with light grey, gouged brecciated seams and weakly sheared. 1-3mm, dark grey, clear and smoky quartz veinlets are observed in sheared interval. calcite and ankerite infilling and surrounding veinlets is observed on interval. Veinlets are deformed due to shearing and appear to be locally offset by fracturing and sheared texture. Trace disseminated pyrite hosted in dark grey, veinlets is observed on vein section. Veins are ~ 70 degrees TCA and shear fabric appears to be 40 degrees TCA.							
293.24	294.12	0.88	GRD	MG	moderate argillic,trace propylitic granodiorite interval containing a 1 cm, ankerite infilled quartz vein. Coloform bands are also observed in veinlet (80 degrees TCA). Ankerite appears to infill a milky quartz vein which partially repaces a dark grey, fine grained , pyrite hosting veinlet.							
						MD	PK					
						LT	BG					
294.12	294.34	0.22	GRD	MG	gouged, brecciated section of moderate argillic, trace propylitic granodiorite. Brecciated clasts include K-spar, chlorite and feldspathic granodiorite clasts.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
294.34	296.00	1.66	GRD	MG	weakly argillic, weakly potassic granodiorite interval exhibiting 1-4mm, light grey gouged seams occur near aplite dyke intrusion@ 295m. Aplite dyke intrusion is 30 degrees TCA.							
296.00	297.60	1.60	GRD	MG	moderately argillic, weakly potassic, trace propylitic granodiorite containing 3mm-1cm, carbonate infilled , quartz veinlets locally hosting trace disseminated pyrite (pyrite mostly within dark grey bands in veinlets). Ankerite coloform bands surrounding quartz vein are observed at 296.85m veinlets are ~ 60 degrees TCA.							
						MD	PK		PRO	1I		
						MD	BG		ARG	3I		
						LT	GN		POT	2I		
297.60	298.50	0.90	GRD	MG	weakly sheared, locally gouged brecciated, moderate argillic, trace propylitic granodiorite interval. sheared dark , fine grained bands appear to locally brecciate host grd as well. Sheare fabric appears to be 30 degrees TCA. Carbonate infilled , slightly deformed veinlets are locally observed on interval (~ 60 degrees TCA). Trace disseminated pyrite locally hosted on dark grey, fine grained bands is also observed throughout interval.							
						MD	BG	SH	ARG	3I	Py	0.5
						LT	GN		PRO	1I		
298.50	299.81	1.31	GRD	MG	moderately argillic, weakly potassic granodiorite with local zones of trace to weak propylitic alteration. 1-2 mm, dark grey bands (80 and 60 degrees Tca) locally hosting disseminated pyrite are observed throughout interval.							
						MD	BG		POT	2I		
						LT	GN		ARG	3I		
						LT	PK		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
299.81	301.13	1.32	GRD	MG	moderate propylitic , weakly argillic granodiorite ith local zone of moderate argillic, trace propylitic granodiorite. Propylitic altered sections contain 2-5mm, dark grey, fine grained veinlets locally hosting blebby and disseminated pyrite. Interstitial fine grained pyrite is observed on granodiorite proximal to veinlets. Small, stringer veins are 80 degrees TCA and largest veinlet @ 300.85 m appears vuggy , is 60 degrees Tca and is partially infilled by carbonates. Rhodocrosite infilled veinlets @ 301m, contain sub-mm sphalerite. Calcite infilled fractures, locally offset pyrite-hosting stringer veinlets.							
						MD	GN		PRO	3I	Py	1
						LT	BG		ARG	1I	Py	1
											Sp	0.5
											Rh	0.5
301.13	301.71	0.58	GRD	MG	moderate argillic, trace propylitic granodiorite interval containing trace 1-3mm, 80 degrees TCA quartz veinlets.							
301.71	302.36	0.65	GRD	MG	moderate argillic, trace potassic/propylitic granodiorite displaying gouged brecciation and calcite infilled , semi chaotic fracturing in lower interval zone (from 302m). Coloform carbonate-quartz veinlets perpendicular to core axis and dark grey, fine grained, slightly deformed, veinlets locally hosting pyriteare observed on interval. Fractures locally offset and crosscut through dark grey, carbonate infilled veinlets. Trace disseminated pyrite also occurs within granodiorite interval proximal to veins.							
302.36	303.80	1.44	GRD	MG	Moderate argillic, trace propylitic/potassic granodiorite interval ith local zones of weak proptliric alteration, containing 1-3 mm, quartz veins locally hosting pyrite (80 degrees TCA). Some clasts on interval display reddish/ light brown alteration (oxidation(?)). 1mm, dark grey veinlet containing trace pyrite are observed @ 40 degrees TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
303.80	304.00	0.20	GRD	MG	gouged, brecciated, moderate argillic, trace propylitic granodiorite. Dark grey, fine grained bands and clasts in gouged brecciated section locally host disseminated pyrite. Gouge brecciated seam runs ~ 15 degrees TCA.							
304.00	305.34	1.34	GRD	MG	strongly argillic, trace potassic/propylitic granodiorite ith local zone of increased potassic/proyplitic alteration (304-304.26- clasts are orange/reddish). Trace 1-2 mm, veinlets perpendicular to core axis , locally host , trace, disseminated pyrite. 2-4mm, low angle (30 degrees TCA) carbonate veinlets locally brecciating host granodiorite areobserved on interval as well							
305.34	307.87	2.53	GRD	MG	moderately argillic, trace propylitic, phyllic altered granodiorite interval locally hosting pyrite in dark grey, finegrained clasts within granodiorite and in dark grey, carbonate infilled veinlets. Bright pink rhodocrosite partially infills and brecciates clearquartz veinlets. Vein @ 305.50 is 80 degrees TCA, locally hosts pyrite in dark grey bands ithin vein zone and light pink rhodocrosite locally brecciated clear quartz vein. Sub-mm sphalerite hosted in rhodocrosite rich zones is locally observed throughout interval. A fine grained, tan, inclusion at 306 contains irregular,dark grey inclusions that locally host fine grained pyrite as well. Slightly deformed(weakly sheared) veinlets and smallgouged seams are observed at 306.47m. Rhodocrosite in vein at 207.40m, locally hosts sub-mm galena and sphalerite (mostly observed at the vein edges). Largest vein zone (60 degrees), observed at 307.65m, is comprised of 6 veinlets ranging from 1-8mm and some display vuggy texture , and display less carbonate infill than other veinlets on interval. (rhodocrosite and ankerite mostly observed intruding veinlets at the vein edges.							
						MD	BG					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
307.87	310.23	2.36	GRD	MG	moderate argillic, trace potassic, propylitic granodiorite with intermittent zones of moderate propylitic,trace potasic altearation. Vein @ 308.35m is vuggy, is infilled by light brown, tan ankerite and chalcedony(?) (60 degrees TCA). Light grey, carbonates infilling propylitic and potassic alteredzone near dyk contact occur as irregular inclusions in grd. Some clasts near grd-dyke contact are brownish-orange (oxidized or clay altered).							
						MD	BG		ARG	3I		
						MD	OR		PRO	1I		
						MD	GN					
310.23	311.19	0.96	QFP	MG	grey/brownish, clay altered quartz feldspar porphyry dyke interval containting 2-7mm, quartz veinlets that locally brecciate host dyke. Small, 1-2mm, gouged brecciated seams are alsoobserved on interval							
311.19	315.47	4.28	QFP	MG	dark purple, quartz feldspar porphyry dyke interval with local gouged brecciated and locally fractured zones. Quartz-carbonate veinlets sometimes locally brecciate host grd. Some gouge seams are 40 degrees TCA. Some gouged seams are 80 degrees tca. 1-2mm, calcite infilled fractures locally crossut through veinlets.							
315.47	315.77	0.30	QFP	MG	purple-light grey , gouged brecciated quartz feldspar porphyry dyke interval. contact between dyke and grd is gouged, brecciated(faulted contact(?)), Light grey, gouged-brecciated section is composed of grd fragments.							
315.77	316.11	0.34	GRD	MG	weakly sheared, moderately propylitic, argillic granodiorite interval near quartz feldspar porphyry dyke grd contact. (shear fabric ~ 30 degrees TCA).							
						MD	BG		ARG	3I		
						MD	GN		PRO	3I		
316.11	317.48	1.37	GRD	MG	moderate argillic, trace potassic granodiorite with local zones of moderate propylitic alteration . Fine grained,light green, purple inclusion is observed at 316.50 on granodiorite interval.							
						MD	BG		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		ARG	3I		
317.48	318.52	1.04	QFP	MG	medium grey, clay altered quartz feldspar porphyry dyke interval containing quartz-carbonate (80 degrees TCA) veinlets. Calcite infilling fracture surfaces is commonly occuring throughout interval.							
318.52	319.55	1.03	QFP	MG	light grey, clay altered, quartz feldspar porphyry dyke interval displaying vuggy texture on quartz-carbonate veinlets. Veinlets contain subhedral calcite inclusions within vuggy quartz veinlets. Euhedral quartz crystals occur within vugs.							
						LT	GY	VU	CLY	1I		
319.55	321.56	2.01	QFP	MG	light-medium grey , clay altered quartz feldspar porphyry dyke interval. lower portion of interval has soft, clayey gouged seas, is locally fractured and contains 1-2mm, carbonate veinlets (50 degrees TCA).							
						MD	GY					
						LT	GY					
321.56	323.67	2.11	QFP	MG	dark purple, unaltered, quartz feldspar porphyry dyke interval							
						DK	PU					
323.67	324.70	1.03	QFP	MG	dark purple, quartz feldspar porphyry dyke interval with local zones of light grey,clay alteration and soft, gouged, brecciate seams.							
324.70	325.50	0.80	QFP	MG	light-medium grey, clay altered, fractured, quartz feldspar porphyry dyke interval containing trace 1-2mm, slightly deformed,calcite veinlets (50 degrees TCA).							
325.50	326.88	1.38	QFP	MG	dark purple, fractured quartz feldspar porphyry dyke interval displaying minor gouge brecciation and containing trace 1-2 m, quartz-carbonate veinlets. Fracturing increases in lower interval section.							
326.88	327.84	0.96	QFP	MG	fractured, mlight-medium grey, clay altered quartz feldspar porphyry dyke interval containing trace, 1-2mm, quartz-carbonate vienlets are carbonate infilled fractures are observed.							
						MD	GY		CLY	2I		
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
327.84	328.49	0.65	GRD	MG	strongly argillic, moderately potassic granodiorite interval containing trace 1-2mm, carbonate-quartz veinlets (40 degrees TCA). Ankerite and calcite appear to infill and locally brecciate host grd.							
328.49	330.04	1.55	GRD	MG	strongly argillic granodiorite with intermittent zones of moderate propylitic and weak potassic alteration. 2-7 mm, quartz-carbonate veinlets (80 degrees TCA) are locally observed (carbonate infilling vein is light grey and slightly reactive to HCL). A low angle (30 degrees TCA) vuggy vein is observed at 328.90m where calcite and ankeirte partially infill and locally brecciate quartz vein. Veins at 328.49m exhibit vein restricted, calcite fractures perpendicular to vein direction. Vein zone appears weakl to moderately silicified and light brown/tan carbonate appears to surround quartz-carbonate vein zone. Carbonates locally brecciate host granodiorite in zone as well.							
						MD	BG	VU	PRO	3I		
						MD	GN		ARG	4I		
						LT	PK					
330.04	331.50	1.46	GRD	MG	moderately argillic, potassic granodiorite interval displaying fracturing and gouged brecciated seams in lower intervalsection proximal to grd-quartz feldspar porphyry dky contact. Trace 1-3mm, carbonate infilled veinlets (40 degrees TCA) are locally observed throughout interval.							
						MD	BG					
						MD	BG					
331.50	331.97	0.47	QFP	MG	light to medium grey, clay altered , gouged brecciated section of quartz feldspar porphyry dyke.							
331.97	332.25	0.28	QFP	MG	purple-grey, clay altered, fractured , quartz feldspar porphyry dyke interval.							
332.25	333.15	0.90	QFP	MG	purple-grey, clay altereted, gouge brecciated, quartz feldspar porphyry dyke interval							
333.15	333.52	0.37	FLT	MG	light to medium grey , rubbly, quartz feldspar porphyry dyke interval. faulted section proximal to quartz feldspar porphyry dyke-grd contact							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	RB	CLY	2I		
333.52	334.00	0.48	FLT	MG	light grey, faulted ,rubbly, argillic granodiorite interval. Trace , pyrite is locally hosted within dark grey, gouged seams in grd interval. (faulted contact between quartz feldspar porphyry dyke and grd).							
334.00	334.49	0.49	GRD	MG	faulted contact footwall comprised of strongly argillic, trace potassic/propylitic granodiorite. Feldspathic clasts near vein zone are light brown/orange altered (oxidation(?)). Trace 1-3mm, dark grey, veinlets (80 degrees TCA) are locally observed on interval							
334.49	334.79	0.30	VEN	MG	strongly argillic, trace propylitic granodiorite vein zone. Interval contains 2mm-1 cm, rhodocrosite infilled, quartz veins which locally host pyrite in dark grey , fine grained bands. Light pink, rhococrosit appears to locally brecciate host quartz vein. Sub-mm , sphalerite crystals are observed within rhodocrosite rich zones. Veins are 80 degrees TCA.							
334.79	338.33	3.54	GRD	MG	strongly argillic moderate potassic granodiorite with local zones of trace propylitic alteration (mostly as alteration halo near veinlets). Trace 1-5mm, quartz-carbonate veinlets are locally observed throughout interval , sometimes hosting trace, disseminated pyrite (veins are 80 degrees TCA).							
338.33	340.11	1.78	GRD	MG	moderate argillic interval with local zones of moderate potassic alteration. 5-8mm, quartz-carbonate veinlets (30 degrees TCA) are hosted in weakly propylitic granodiorite zones.							
						MD	BG					
						MD	PK					
						LT	GN					
340.11	340.57	0.46	GRD	MG	gouged brecciated, fractured, moderately argillic granodiorite containting 4-6mm, quartz-carbonate veinlets (60 degrees TCA). Dark grey, fine grained, veinlets locally ohsting trace pyrite are observed around quartz-carbonate vein. Quartz vein appears to locally brecciate host grd as well.							
						MD	BG		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	BX	ARG	3I		
340.57	342.00	1.43	GRD	MG	moderatelyargillic, weakly potassic altered granodiorite interval.							
342.00	342.68	0.68	GRD	MG	moderately argillic, trace propylitic granodiorite interval exhibiting gouged brecciated seams and weak shear fabric in dark grey, quartz vein zone @ 342.55m. Three , 3-4m stringer quartz-carbonate veinlets are observed proximal to gouge brecciated zone (50 degrees TCA) and locally host trace, disseminated pyrite. Veins in shear zone appear slightly deformed (shear fabric 40 degrees TCA(?) and locally host disseminated pyrite within dark gre, fine grained quartz veinlets. Veins appear to locally microbrecciate host grd. At 342.14m, a quartz-carbonate, discontinuous veinlet forming coloform bands is locally observed (80 degrees TCA0.							
						MD	BG		PRO	1I		
						LT	GY					
						DK	GY		ARG	3I		
342.68	343.05	0.37	GRD	MG	moderately argillic, weakly potassic granodiorite interval							
343.05	344.85	1.80	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval. a dark green, fine grained clasts inclusion is observed at the contact between unaltered and argillic granodiorite interval.							
						LT	GN					
						LT	PK					
344.85	345.50	0.65	GRD	MG	moderately potassic, weakly argillic, trace propylitic granodiorite interval. Trace, 1 mm, dark grey, veinlets (80degrees TCA) are sporadically observed on interval.							
345.50	349.37	3.87	GRD	MG	white/black, unaltere granodiorite interval with trace 2-5mm, quartz-carbonate veinlets (60 degrees TCA) within a moderate propylitic (2-4cm) alteration halo.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
349.37	351.33	1.96	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with local sections of moderately propylitic, potassic , trace phyllic alteration . 1-2 mm, dark grey, ,veinlets (80 degrees TCA) locally host trace disseminated pyrite. A 5 mm, quartz- carbonate veinlets observed at 349.65m , locally brecciates host grd. Within vein, carbonates appear to locally brecciated clear quartz vein as well. A 2 cm, (50 degrees TCA) quartz-carbonate vein is observed within a green/beige, fine grained inclusions within granodiorite interval (no significant mineralization is observed in vein zone).							
351.33	355.30	3.97	GRD	MG	white/black , unaltered granodiorite interval with sporadic, moderate propylitic alteration halos within 2-6 mm, quartz carbonate veinlets (60 degrees TCA). 5 mm, light pink, aplite dyke intrusion is observed at 40 degrees TCA and is locally crosscut by calcite infilled, discontinous veinlets and calcite infilled fractures.							
355.30	360.36	5.06	GRD	MG	white/black unaltered granodiorite with intermittent zones of trace potassic alteration. Trace, 2-4mm, quartz carbonate veinlets (60 degrees TCA) within 2-3 cm, propylitic alteration halos occur on interval.							
360.36	360.75	0.39	GRD	MG	moderately argillic, potassic, trace propylitic granodiorite interval. Semi chaotic, quartz-carbonate veins locally brecciating host granodiorite are observed at 360.36m. Carbonate vein appears to be replacing an existing clear quartz vein (clear quartz surrounded by calcite veining. 1-2 mm, quartz veinlets (70 degrees TCA) are locally crosscut by calcite vein breccia.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
360.75	361.00	0.25	VEN	MG	weakly sheared, gouged brecciated , moderately argillic trace propylitic granodiorite contianting a 3 cm, dark quartz vein within gouged, brecciated seams. Vein is 60 degrees TCA, dark grey/purple and contains blebby galena, sphalerite, trace arseno pyrite. A clear quartz vein appears to surround polymetallic vein. (clear quartz vein came in first then dark, polymetallic quartz vein infilled and replaced it(?)). Pyrite islocally hosted in dark grey, 1-2mm, fine grained bands within shear zone and within polymetallic vein zone.							
361.00	361.45	0.45	GRD	MG	beige , medium pink, fine grained moderately argillic , potassic granodiorite vein zone footwall. From 361.19-361.45m, potassic alteration increases and 1-2 mm,calcite veinlets are locally observed (60 degrees TCA). A 4mm, quartz-carbonate ,60 degrees TCA veinlet is observed in lighter beige section at 361.14m.							
361.45	362.44	0.99	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of moderate argillic, trace potassic and propylitic granodiorite. Two , 60 degrees TCA, quartz carbonate veinlets are locally observed at 361.70m. Calcite appears to infill fractures and locally brecciate host grd within vein zone.							
						MD	BG		POT	1I		
						LT	PK		ARG	2I		
									PRO	1I		
362.44	372.89	10.45	GRD	MG	black/white unaltered granodiorite interval containing trace 2-3 mm, 25-80 degrees TCA, quartz carbonate veinlets . Potassic, propylitic,2-3 cm, alteration halos are observed within veinlet zones . No significant mineralization observed in unaltered granodiorite interval							
						--	BK					
						--	WH					
372.89	374.84	1.95	GRD	MG	trace to weakly potassic granodiorite interval with local fractured zones and containing trace 1-2mm, veinlets locally hosting trace, disseminated pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
374.84	375.18	0.34	VEN	MG	moderate propylitic, trace argillic granodiorite interval containing, 4, 2-4mm, quartz-carbonate veinlets locally hosting pyrite, trace sphalerite and galena. Veinlets are 80 degrees TCA. Ankerite appears topartially infill nd replace existing calcite veinlet and quartz veinlets on interval. pyrite is locally hosted in dark grey, fine grained bands within vein zone. Trace disseminated pyrite is also hosted in altered granodiorite interval.							
						MD	GN				Gn	0.5
											Py	1
											Ak	2
											Sp	0.5
375.18	379.90	4.72	GRD	MG	trace potassic, relatively unaltered granodiorite interval with intermittent zones of weakly potassic, propylitic alteration and moderate propylitic altearation (mostly as alteration halo near veinlets). Trace 1-2 mm, quartz -carbonate veinlets occur sporadically throughout interval (60 degrees TCA).							
379.90	381.35	1.45	VEN	MG	moderate propylitic granodiorite interval containting a 2 cm, polymetallic vein at 25 degrees TCA. Darker section of quartz vein locally host blebby pyrite, galena, sphalerite and sub-mm arseno pyrite. Clear quartz located within dark grey, polymetalliz vein zone contains minor rhodocrosite, ankerite inclusions.							
381.35	382.00	0.65	GRD	MG	trace potassic , relatively unaltered granodiorite interval							
382.00	382.70	0.70	GRD	MG	weakly argillic, weakly potasssic granodiorite interval. a 40 degrees TAC, quartz-carbonate vein is observed at 282m							
382.70	384.57	1.87	GRD	MG	trace potassic, relatively unaltered granodiorite with local zones of weak propylitic, argillic alteration.							
384.57	385.18	0.61	GRD	MG	weakly propylitic, argillic, trace potassic granodiorite interval. 2-4 mm, quartz-carbonate veinlets are observed (60 degrees TCA).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
385.18	386.77	1.59	GRD	MG	trace potassic, propylitic , relatively unaltered granodiorite interval containing trace, 1-2mm, carbonate veinlets (45 degrees TCA)							
386.77	387.41	0.64	GRD	MG	moderately potassic, weakly argillic, trace propylitic granodiorite interval a 4 m, 50 degrees TCA, quartz carbonate vein. Trace , disseminated pyrite is locally hosted within 2 mm, dark grey bands within vein zone. Trace blackjack sphalerite is locally observed within carbonate replaced vein zone. Carbonates appear to locally brecciate vein.							
387.41	390.73	3.32	GRD	MG	trace potassic, relatively unaltered granodiorite interval. trace 1-2mm, carbonate veinlets occur sporadically thorughout interval (60 degrees TCA).							
390.73	391.51	0.78	GRD	MG	moderately potassic, argillic granodiorite interval.							
391.51	391.93	0.42	GRD	MG	weakly propylitic, argillic granodiorite interval containing 4 mm, dark grey, vuggy veinlets (35 degrees TCA).							
391.93	393.00	1.07	GRD	MG	trace potassic ,propylitic granodiorite interval.							
393.00	398.25	5.25	GRD	MG	strongly argillic, weakly potassic granodiorite interval containing local fractured zones (i.e. 286.80m) and trace 2-3mm, carbonate veinlets (40 degrees TCA).							
						MD	BG		ARG	4I		
						LT	PK		POT	2I		
398.25	400.21	1.96	GRD	MG	trace potassic, propylitic, mrelatively unaltered granodiorite with local zones of weak potassic,argillic alteration.							
400.21	401.73	1.52	GRD	MG	strongly argillic, moderately potassic granodiorite containing a low angle(20 degrees) reddish, carbonate veinlet.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
401.73	402.34	0.61	GRD	MG	moderately propylitic, weakly argillic granodiorite interval containting 1-2 cm, quartz - carbonate veins which locally brecciate host grd. Trace disseminated pyrite is locally hosted within dark grey veinlets. Vein zone is 80 degrees TCA.							
						MD	GN		POT	2I	Py	1
									PRO	3I		
									ARG	2I		
402.34	403.71	1.37	GRD	MG	weakly potassic granodiorite with intermittent zones of weak propylitic and weak argillic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.91	0.91	CAS	---	--	casing
0.91	3.04	2.13	OVB	---	--	ovb
3.04	6.63	3.59	GRD	GRD	MG	relatively unaltered (trace potassic, trace propylitic granodiorite) with local, light brown oxidation zones. A gouge clayey section is observed from 4.60-4.85m.
6.63	7.09	0.46	GRD	GRDA	MG	moderately arfillic, trace potassic, granodiorite interval with light brown, clay alteration and dark hematite oxidation observed along fracture surfaces.
7.09	8.38	1.29	BXA	GRDA	MG	weakly propylitic, clay altereted, pervasively oxidized granodiorite containing a polymictic , breccia zone from 7.33-8.05m. Alteration halos near brecciated zone are weakly propylitic with breccia footwall being pervasively oxidized. Breccia zone is weakly silicified and disseminated pyrite is locally observed within it.
8.38	11.00	2.62	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite with locally fractured, gouged, clay altered zones (limonite observed within fractured zone).
11.00	12.56	1.56	GRD	GRDA	MG	pervasively oxidized, clay rich, weakly argillic granodiorite interval . Limonite observed in argillic , fractured zones. Dark red hematite oxidation is observed along fracture/joint surfaces.
12.56	16.04	3.48	GRD	GRDA	MG	weakly propylitic granodiorite with with local zones of pervasive oxidation , limonite, and clay alteration. Dark brown, gouged clayey section is observed from 12.60-12.87m. Trace 3mm-1 cm, carbonate infilled, quartz veins are locally observed throughout interval, sometimes containting trace, disseinated pyrite. Largest vein at 14m, exhibits dark brown, carbonate, dentritic inclusions within quartz vein. Sub-mm, pyrite bearing, oxidized veinlets are observed from 13.80-14m. Veins are ~ 50 degrees TCA and are locally offset by calcite infilled fractured. A light pink, fine grained, aplite dyke intrusion(~ 20 degrees TCA) is observed @ 15.60m.
16.04	19.81	3.77	GRD	GRDA	MG	weakly argillic, trace potassic, pervasively oxidized, limonite infilled, granodiorite interval . Darh red hematite oxidation is observed along fractures/joint surfaces and within host grd. Trace 1-4 m, oxidized, carbonate infilled quartz veins are locally observed. Vein @ 17.27m, contains trace galena and sphalerite blebs. Light pink, fine grained aplite dyke intrusion occurs from 18-18.50m.
19.81	22.86	3.05	GRD	GRDA	MG	weakly argillic, trace potassic granodiorite with local zones of pervasive oxidation, clay rich zonesand limonite rich zones. 2 cm, aplite dyke intrusion is present at 21.96m (~45 degrees TCA).
22.86	25.40	2.54	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite intervalwith minor oxidation along fracture surfaces, and within 1-4mm, veins. Some veins are vuggy and are partially infilled by carbonates.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
25.40	28.16	2.76	GRD	GRDA	MG	weakly argillic granodiorite with intermittent zones of weak potassic and weak propylitic alteration. Pervasive oxidation is locally observed throughout interval. 1mm-1 cm, oxidized, cabonate infilled, sometimes vuggy, veins are locally observed as well. Oxidized veins appear to locally brecciate host grd and contain trace disseminated pyrite. Veins are perpendiculary crosscut by sub-mm, hematite infilled fractures. Veins on interval are ~ 35 degrees TCA.
28.16	30.10	1.94	GRD	GRDA	MG	trace potassic, trae propylitic granodiorite with intermitten zones of clay rich, weakly argillic altered grd. Dark grey, fine grained, polymictic intrusions containting oxidized alteration halos near 1-3 mm, carbonate infilled, veinlets.
30.10	31.14	1.04	GRD	GRDA	MG	pervasively limonite and oxidized, moderately argillic granodiorite interval containing gouge, brecciated ones. Reddish hematite oxidation is locally observed along fractures/joint surfaces. Proximal to gouge brecciated section, interval appears weakly sheared.
31.14	35.78	4.64	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with intermittent, oxidized, weakly to moderately argillic sections. Trace 1-2m, oxidized, carbonate infilled veinlets are locally observed throughout interval.
35.78	36.65	0.87	GRD	GRDA	MG	weakly argillic, trae propylitic, unoxidized , granodiorite interval.
36.65	40.16	3.51	GRD	GRDA	MG	light brown/dark brown, oxidized, weakly argillic granodiorite interval containin 1-2 mm, oxidized, carbonate infilled stringer veinlets. Veins are ~ 25 degrees TCA.
40.16	41.84	1.68	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval.yellowish, dark red oxidation is observed in fracture/joint surfaces.
41.84	42.67	0.83	GRD	GRDA	MG	weakly potassic, trace argillic granodiorite interval with light brown oxidation,limonite rich sections. 1-3m, quartz veins (~ 35 degrees TCA) containing trace blebby galena, pyrite and sphalerite occur throughout interval. A 1 cm, quartz vein containing trace pyrite is observed 42.48m
42.67	43.46	0.79	GRD	GRDA	MG	weakly potassic, propylitic granodiorite containing 5mm-1 cm polymetallic veins. Polymetallic veins contain disseminated pyrite, trace galena, sphalerite, arsenopyrite and are partially infilled by carbonates. Veins locally brecciate host grd. Veins are ~ 35 degrees TCA.
43.46	47.89	4.43	GRD	GRDA	MG	trace potassic,trace propylitic, relatively unaltered granodiorite containing light brown and dark red hematite oxidation on fractures and joint surfaces.
47.89	48.77	0.88	GRD	GRDA	MG	weakly oxidized, weakly argillic, trace potassic granodiorite interval. dark red, hematite oxidation is observed on fractures/joint surfaces.
48.77	49.19	0.42	VEN	GRDA	MG	moderately silicified, locally oxidized, polymetallic vein breccia zone. Light tan, feldspathic clasts and dark grey clasts are observed in vein breccia zone. Trace, disseminated pyrite, sphalerite and galena are hosted in vein breccia zone. Trace, interstitial ankerite occurs within vein zone and light grey, smoky quartz appears to interstitially infill vein breccia zone.
49.19	51.82	2.63	GRD	GRDA	MG	pervasively oxidized, weakly argillic, trace propylitic and local potassix granodiorite zones containting trace 1mm-1 cm, oxidized, carbonate infilled quartz veins containting trace disseminated pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
51.82	54.31	2.49	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval. light brown, clay oxidation and dark red hematite oxidation are observed.
54.31	56.58	2.27	GRD	GRDA	MG	weak propylitic, trace potassic altered granodiorite overprinted by weak argillic alteration. Trace, 1 mm, dark fine grained veinlets containing fine grained pyrite and 2-3mm, carbonate infilled quartz veinlets arelocally observed on interval. light brown oxidation occurs in more argillic altered sections.
56.58	64.77	8.19	GRD	GRDA	MG	trace potassic, propylitic, relatively unaltered granodiorite with intermitten zones of weak argillic, potassic alteration. Light brown oxidation and limonite is observed in argillic altered zones. Trace, 1mm, pyrite bearing bands are locally observed on interval
64.77	67.45	2.68	GRD	GRDA	MG	weak propyitic alteration oveprinting weak argillic trace potassic alteration in grd. Trace 1-2 mm, pyrite bearing veins are locally observed on interval. Weak, light brown oxidation occurs in some grd zones.
67.45	76.40	8.95	GRD	GRDA	MG	trace potassic, trace propyliltic granodiorite interval with intermitten zones of weak argillic, trace propylitic alteration. 1 cm, light pink, aplite dyke intrusion is observed at 7515m (~40 degrees tca). Oxidation along fractures and joint surfaces is locally observed.
76.40	77.60	1.20	GRD	GRDA	MG	weakly argillic grnodiorite with intermitten zon of weak propylitic alteration. Light pink, fine grained aplite dyke intrusions are locally observed on interval(~80 degrees TCA). A 2 mm, calcite veinlets crosscuts through aplite dyke intrusion at 76.90m
77.60	80.37	2.77	GRD	GRDA	MG	trace potassic, trae propylitic granodiorit interval displaying light brown and reddish oxidation along fracture and joint surfaces.
80.37	82.15	1.78	GRD	VEIN	MG	weakly propylitic granodiorite overprinting weak argillic alteration. Sheared, gouged brecciated zones are locally observed proximal to vein breccia zone. Ankerite infilled, quartz veins locally brecciate host granodiorite. Fractures locally offset quartz veins in interal. Trace disseminated pyrite occurs in dark grey, gouged seans, within granodiorite host and vein breccia zone. Vein breccia zone is weakly silicified, dark grey and contains feldspathic and quartz clasts. Chlorite clasts, trace pyrite and sphalerite also occuring in vein breccia zone.
82.15	86.68	4.53	GRD	GRDA	MG	moderate potassic, weakly argillic granodiorite interval with zones of dark red, hematite oxidation (oxidation observed in grd, fractures/joint and in quartz veins. Quartz veins contain trace pyrite , and contain dark red hematite inclusions . Veins are locally offset and crosscut by calcite infilled fractures. Trace 1-2 mm, pyrite bearing veinlets are present on interval as well.
86.68	96.15	9.47	GRD	GRD	MG	white/black, salt/pepper unaltered granodiorite interval with intermittent zones (no larger than 10cm) of weak potassic alteration. Trace 1mm, pyritebearing bands occur sporadically throughout interval.
96.15	98.35	2.20	GRD	GRDA	MG	trace potassic, relatively unatered granodiorite interval. trace 1-2mm, carbonate infilled, quartz veinlets are locally observed

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
98.35	99.64	1.29	GRD	GRDA	MG	trace potassic,trace propylitic altered granodiorite oveprinted by weak argillic alteration. 2-4mm, quartz veins sometimes containting trace disseminated pyrite occur on interval. calcite veinlets locally crosscut quartz veins. Interval exhibits increased veining compared to previous unaltered interval.
99.64	101.20	1.56	GRD	GRDA	MG	trace potassic, propylitic granodiorite interval containting 4mm-6mm, carbonate infilled quartz veins. Veins appear to locally brecciate host grd.
101.20	104.50	3.30	GRD	GRDA	MG	trace potassic granodiorite interval displaying yellowish, light brown oxidation along fractures/joint surfaces.
104.50	110.15	5.65	GRD	GRD	MG	black/white, unaltered granodiorite interval. 1-2cm, weakly propylitic alteration sections are observed.
110.15	112.00	1.85	GRD	GRD	MG	black/white, unaltered granodiorite with small, interittent sections of moderate propylitic alteration (as alteration halos near veins). Veins in propylitic alteration halos contain calcite, dark, fine grained, magnetite and trace disseminated pyrite. Veins range from 2-4mm and are ~ 60 degrees TCA. Trace, sub mm, sphalerite is also present in veins.
112.00	116.80	4.80	GRD	GRD	MG	black/white , unaltered granodiorite with trace potassic ,intermittent ones (as alteration halos near veins). Veins are 1-2mm, contain disseminated pyrite. Calcite infilling fracture surfaces in grd is locally observed. Red , hematite oxidation is present along joint surfaces. Propylitic alteration halos are no longer observed on interval.
116.80	121.41	4.61	GRD	GRD	MG	black/white, unaltered granodiorite with intermittent zones of trace propylitic, potassic alteration. Sub-mm, veinlets occur sporadically on interval (with small, potassic alteration halos). Calcite infilling fracture surfaces is locally observed. Dark red, hematite oxidation along joints is also observed on interval.
121.41	126.10	4.69	GRD	GRDA	MG	trace potassic, propylitic granodiorite interval with intermittent potassic altered, propylitic, weakly argillic sections (also as alteration halos near vein zones). Chaotic, sub-mm,calcite infilled fracturing is localy observed throughout granodiorite unit. Vein zone with propylitic alteration halo within a weakly argillic,potassic altered grd section is observed at 122.40m. Pyrite is hosted in smoky quartz veins which are partially infilled by calcite. Pyrite bearing veins in this section are ~ 50 degrees TCA. Least altered grd sections appear to be weakly silicified.
126.10	128.60	2.50	GRD	GRDA	MG	weakly potassic, propylitic altered granodiorite overprinted by argillic alteration. (more argillic and propylitic in vein zone). 4mm-3cm, (60 degrees TCA) smokey quartz veins , partially infilled by calcite and dark red, fine grained , hematite (?) are observed from 127-128m (in propylitic/argillic and potassic/argillic altered grd sections). Trace disseminated pyrite occurs within quartz veins. 1 mm, calcite infilled fractures locally crosscut through quartz veins.
128.60	133.60	5.00	GRD	GRDA	MG	trace to weakly potassic altered granodiorite overprinting trace propylitic alteration. Local fractured sections are pnserved on interval. trace 2mm-1cm, carbonated infilled, quartz veins containing trace disseminated pyirte are locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
133.60	136.75	3.15	GRD	GRDA	MG	trace propylitic alteration overprinted by trace to weak potassic granodiorite interval containting 4cm-14cm, light pink aplite dyke intrusions (~60 degrees TCA). Trace, 1-4mm, carbonate infilled, quartz veins, sometimes containting minor disseminated pyrite occur throughout interval.
136.75	140.10	3.35	GRD	GRDA	MG	weakly potassic, trace propylitic granodiorite with moderate argillic zones overprinting potassic altered sections. Alteration is more prominent on interval, in particular argillic alteration. 1-3 mm, stringer , quartz veins with partial carbonate infill(`45 degrees TCA) are more commonly observed in altered interval, are sometimes crosscut by 1-2 mm, calcite veinlets and contain trace disseminated pyrite.
140.10	146.19	6.09	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite interval with intermittent zones of weak to moderately potassic alteration overprinted by weak to moderate argillic alteration (argillic alteration more prominent near vein vein zone contact). 5 mm, light pink aplite dyke intrsution is observed @ 145.12m (~ 50 degrees TCA). 3-4mm, carbonate infilled, pyrite bearing veinlets in altered grd sections are observed.
146.19	146.40	0.21	VEN	GRDA	MG	moderately silicified, vein zone in argillic altered granodiorite. Blebby pyrite, disseminated pyrite, trace and sphalerite are observed in vein section. Vein zone appears brecciated, with argillic altered, brecciated clasts and carbonate infilled veins brecciating host grd being locally observed.
146.40	147.83	1.43	GRD	GRDA	MG	weakly propylitic, trace potassic altered granodiorite overprinted by moderate argillic alteration. From 146.70-147m, light pink (slightly paler due to alteration), aplite dyke intrusions (65 degrees TCA) are observed in altered grd . 2-5mm, dark grey, carbonate infilled, stringer veins occur from 147.30-147.60m where trace disseminated occurs within some stringer veins (~40 degrees TCA). Three, light pink, 3-5 mm, aplite dyke intrusions (40 degrees TCA) are observed from 147.60-147.83m.
147.83	150.58	2.75	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite with intermittent zones weak argillic alteration (as alteration halos near 1-3m, pyrite bearing veins) overprinting existing potassic, propylitic altered sections. Blebby and disseminated pyrite are observed in grey, quartz, carbonate infilled veins (~50 degrees TCA).
150.58	153.00	2.42	GRD	GRD	MG	trace potassic, granodiorite with intermittent moderate potassic, weakly propylitic and argillic/potassic altered zones. Trace 3m-5mm, ankerite infilled, pyrite bearing veinsare observed in propylitic/argillic altered zones(zone might have a trace phyllic overprint; disseminated pyrite, silicified and basal cleavage muscovite crystals observed). Trace 1-3mm, calcite infilled veinlets occur in potassic/argillic altered grd sections.
153.00	155.30	2.30	GRD	GRD	MG	weak to moderate argillic, weak potassic granodiorite and intermitten zones of trace potassic, trace propylitic alteration. Trace 1-2mm, carbonate infilled veins, sometimes containting disseminated pyrite are observed throughout altered interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
155.30	157.35	2.05	GRD	GRD	MG	Interval comprised of weakly argillic, trace potassic granodiorite with intermittent zones of moderately argillic, weakly propylitic, trace phyllic granodiorite. A fine grained, green,pink, propylitic, potassic altered granodiorite dyke intrusion is observed @ 155.63-156m. 2-4mm, stringerquartz veins partially infilled by ankerite and calcite , containting blebby pyrite are comonly observed, mostly in argillic/propylitic altered zones. Thinner, 1-2mm, dark grey, pyrite bearing veins crosscut through stringer veinsand are also locally offset by calcite infilled fractures. Trace disseminated pyrite also occurs within host grd in argillic/propylitic/phyllic altered zones.
157.35	161.15	3.80	GRD	GRD	MG	weak to moderate argillic granodiorite interval with intermittent sections of weakly potassic and weakly propylitic altered granodiorite. Trace 2-4 mm, pyrite bearing stringer veins occur in argillic/propylitic altered granodiorite zones. Pyrite in veins occurs within dark grey, fine grained bands and within quartz viens partially infilled by calcite and ankerite. Veins are ~ 50 degrees TCA.
161.15	164.34	3.19	GRD	GRDA	MG	weakly to moderate argillic granodiorite overprinted by weak propylitic alteration and intermittent zones of weak potassic alteration. 1-3mm, dark grey, fine grained, pyrite bearing bands are locally observed in argillic/propylitic altered zones. 2-4mm, quartz veins containting trace disseminated pyrite are also oserved in argillic/propylitic altered zones.
164.34	167.10	2.76	GRD	GRDA	MG	moderate potassic, moderate argillic granodiorite interval with trace potassic overprint zones (near 1-3mm, quartz veinlets). Veins are ~ 40 degrees TCA. Quartz veinlets contain trace amounts of disseminated pyrite.
167.10	168.13	1.03	GRD	GRDA	MG	moderate argillic, trace propylitic altered granodiorite overprinting trace potassic alteration. 2-5mm, calcite, ankerite infilled quartz veins containing disseminated pyrite are locally observed on interval. Trace pyrite blebs are also observed within altered grd host.
168.13	168.44	0.31	VEN	GRDA	MG	bright pink, rhodocrosite infilling quartz veins and brecciating weakly propylitic, trace argillic host granodiorite. Tan, ankerite occurs as inclusions within brecciated zone and appears topartially infill some quartz veins as well. Coloform bands are also observed within vein interva. No significant mineralization is present in vein zone, trace pyrite occurs sporadically within vein zone. What is notable about interval is the purity of the rhodocrosite (bright pink rhodocrosite only seen this pink on this hole).
168.44	170.74	2.30	GRD	GRDA	MG	moderate argillic, potassic granodiorie overprinting trace propylitic alteration. Light pink, fine grained, aplite dyke intrusions are oserved at 168.70 and 169.20 in altered grd interval. Aplite dyke intrusions are crosscut by sub-mm black fine grained veinlets and sub-mm calcite veinlets.
170.74	171.33	0.59	GRD	GRDA	MG	light green, weakly silicified, fine grained, weakly propylitic, argillic granodiorite interval containing pyrite blebs and sub-mm, black sphalerite. Veins @ 170.85 containt blebby pyrite within dark grey , veins which are infilled and brecciated by bright pink rhodocrosite. Rhodocrosite infills clear quartz veins and locally brecciates host granodiorite. Sub-mm sphalerite and possibly galena is appears to be restricted to rhodocrosite veins. Calcite infilled fractures appear to locally offset veins. Veins are ~ 30 degrees TCA.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
171.33	174.85	3.52	GRD	GRDA	MG	weak to moderate argillic, weak to trace potassic altered granodiorite with trace propylitic overprint. Trace 1-4 mm, carbonate infilled veinlets are locally observed on interval.
174.85	176.00	1.15	GRD	GRDA	MG	moderate propylitic alteration overprinted by weak argillic altered granodiorite. Interval contains 2-3mm, dark grey, pyrite bearing stringerveins (40 degrees TCA). Light grey, gouged seam in a 1cm quartz vein is observed at 175.05m. Trace disseminated pyrite is observed in vein zones and sometime within grd host. 2 cm, quartz vein at 175.44m contains red hematite bands and appears to microbrecciate host grd.
176.00	177.20	1.20	GRD	GRDA	MG	weak potassic alteration oveprinted by moderate argillic alteration in granodiorite. Interval is fractured from 176.85-177.10m.
177.20	178.55	1.35	GRD	GRDA	MG	moderate argillic, trace potassic granodiorite containing 2-5 mm, dark grey, pyrite bearing stringer quartz veins. Veins are ~ 40 degrees TCA and are partially infilled by carbonates (mostly calcite).
178.55	181.00	2.45	GRD	GRDA	MG	moderate potassic, argillic granodiorite intervalwith intermittent zones of trace propylitic granodiorite with trace 1-2mm, pyrite bearing, carbonate infilled veinlets. A 1 cm, 15 degree tca, clear quartz vein is observed @ 179.15m.
181.00	183.14	2.14	GRD	GRD	MG	trace potassic, trace propylitic granodiorite with local zonesof weak argillic overprint. 1-2 mm, calcite veinlets and calcite infilling joint surfaces from 181.45-182.30 are observed in granodiorite interval
183.14	184.00	0.86	GRD	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak argillic, trace potassic alteration. A 1 cm, dark grey, carbonate infilled vein containing bleby pyrite is observed @ 183.40m (in argillic/potassic altered grd section). Chlorite and calcite infilling fracture parallel to vein (~ 40 degrees tca) adjacent to vein is observed as well.
184.00	185.15	1.15	GRD	GRD	MG	weak to moderately argillic granodiorite with intermittent zones of weak propylitic alteration (as alteration halo in vein near veins) and weakly argillic/potassic alteration. Vein at 84.15m, contains bleby pyrite, is partially infilled by calcite and is ~ 70-75 degrees TCA). 2 mm, quartz vein with propylitic alteration halo is observed 184.30m (no mineralization observed in this vein). Alteration become increasingly argillic proximal to grd-dyke contact. 4 m, vein at 184.90m contains disseminated pyrite, black, fine grained clasts and is partially infilled by calcite.
185.15	185.83	0.68	POR	DYK	MG	light to medium grey porphyry dyke interval with trace clay alteration. From 185.15-185.30 contact grades frfom a light beige feldpathic rich zones, to a ligh-medium brown oxidized clast rich zone. Trace 1-3mm, calcite veinlets are found at 20 and 80 degrees TCA.
185.83	186.75	0.92	POR	DYK	MG	dark purple matrix, porphyry dyke with fracture zones occurring at 186.25-186.55m. Trace 3-4 mm, caronate infilled veins (40 degrees TCA) are observed). Calcite infilling fractures , sometimes micro brecciating porphyry dyke occur locally.
186.75	189.56	2.81	POR	DYK	MG	porphyry dyke exhibiting light red alteration (hematite or clay alteration(?)) and increased black, biotite . Veins are no longer observed on interval only trace, calcite infilled fractures.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
189.56	190.55	0.99	POR	DYK	MG	unaltered, porphry dyke with dark purple matric and local zone of light red alteration (near contact with grd). No veining is observed and biotite content also increases right at the contact with grd
190.55	191.40	0.85	GRD	GRDA	MG	trace potassic, weakly propylitic granodiorite interval.
191.40	192.77	1.37	GRD	GRDA	MG	moderately argillic granodiorite with local zones of moderate propylitic and weakly potassic alteration. Trace 1-2 mm, carbonate infilled veins are locally observed on interval (no significant mineralization observed). Small carbonitic veins are ~ 40 degrees TCA
192.77	193.80	1.03	GRD	GRDA	MG	moderate argillic , weakly propylitic granodiorite interval containing trace, 2-5 mm, dark grey, pyrite bearing veins (~ 40 degrees TCA). Quartz veins contain sub-mm, carbonitic rims. Sub-mm, pyrite bearing bands run ~ 80 degrees TCA. Trace pyrite blebs occur within argillic altered grd.
193.80	195.32	1.52	GRD	GRDA	MG	moderate argillic , weakly propylitic granodiorite containting 1-4 cm, pyrite bearing quartz veins, which locally brecciate host grd, are brecciated and infilled by bright pink, rhodocrosite and ankerite. Trace blebby, pyrite also occurs within grd host. Dark, fine grained bands surround quartz vein zone (coloform bands(?). Vein breccia zone @ 193.85m runs ~ 80 degrees TCA. Sub-mm, fractures locally offset and crosscut through sub-mm, pyrite bearing veinlets(~ 40 degrees TCA). Rhodocrostite infilled vein at 174.75 runs about 55 degrees TCA). Vein contains small, irregular, brecciated calcite clasts within quartz-rhodocrosite vein zone. NOTE: purity of rhodocrosite continues to be observed in hole. So far is the only hole to contain such bright pink, pure (?) rhodocrosite. Vein at 195.16m contains both rhodocrosite and ankerite (rhodocrosite infilling quartz vein and then ankerite surrounds and brecciates rhodocrosite-quartz vein).
195.32	197.14	1.82	GRD	GRDA	MG	moderately argillic granodiorite with local zones of trace potassic and trace propylitic alteration. A rubbly, gouged seam is observed @ 195.35m and contains disseminated pyrite. A 3 mm, quartz vein (45 degrees TCA) with carbonate inclusions contains brassy yellow, soft, chalcopyrite(?) and trace galena and is surrounded by a moderately propylitic alteration halo. Calcite infilling fracture surfaces is locally observed on interval.
197.14	198.29	1.15	GRD	GRDA	MG	trace potassic, weakly propylitic alteration overprinted by moderate argillic alteration in granodiorite. Rubbly, gouged zone is observed from 197.80-198m. A 70 degrees TCA , quartz vein containting calcite clasts and is crosscut by a calcite infilled fracture is observed @ 197.67-197.70m
198.29	199.00	0.71	GRD	GRDA	MG	moderate propylitic altered granodiorite overprinting moderate argillic alteration. 1 cm, quartz vein containing blebby pyrite (or chalco(?); brassy yellow, softer than pyrite,) and trace sphalerite . Trace, calcite and ankerite are observed within quartz vein but otherwise remains unaltered. Vein is ~ 40 degrees TCA. 1-2 mm, pyrite bearing bands , ~ 30 degrees TCA, occur along fracture plane in grd.
199.00	201.55	2.55	GRD	GRDA	MG	moderate argillic granodiorite with local zones of weak potassic and trace propylitic alteration. Trace 1-2mm, dark grey, pyrite bearing veinlets (~ 60 degrees TCA) are locally observed. 1 mm, calcite infilled veinlets and calcite infilled fractures also occur throughout interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
201.55	203.20	1.65	GRD	GRDA	MG	moderately argillic, weakly propylitic granodiorite interval with minor gouged, brecciated seams and containing 2-4 mm, carbonate infilled quartz veins sometimes containing trace disseminated pyrite. A 2 cm, quartz vein is observed at 202.16 (80 dedgrees tca). Vein contains dark grey, smoky and clear quartz.
203.20	203.44	0.24	VEN	GRDA	MG	quartz vein zone in altered granodiorite. Dark grey, smoky quartz and clear quartz occur in vein zone with rhodocrosite infilling and brecciating quartz vein locally. Trace ankerite as partiall infill in vein is also observed. Disseminated pyrite and trace sphalerite mostly occurs within dark grey, vein zones (within smoky quartz). Dark grey smokey quartz brecciated clasts are also present within vein zone. (brecciated by clear quartz vein, and partially infilled by carbonates).
203.44	204.22	0.78	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval.
204.22	205.11	0.89	GRD	GRDA	MG	trace potassic altered granodiorite overprinting tra
205.11	207.56	2.45	GRD	GRDA	MG	moderate argillic granodiorite with local zones of weak potassic and trace propylitic alteration. Trace 1- 4mm, pyrite bearing stringer veins (50 degrees TCA) are observed in more altered granodiorite zones. A 3 mm, rhodocrosite infilled, stringer vein running 80 degrees TCA, occurs @ 205.44. Calcite infilled, 1-2 mm fractures crosscut through stringer veins locally.
207.56	207.65	0.09	VEN	GRDA	MG	7 cm, vuggy vein (80 degrees TCA) within moderately argillic, trace propylitic granodiorite containting dark grey, smoky quartz,clear quartz and bright pink rhodocrosite partially infilling and locally brecciatd clear quartz vein. Trace disseminated pyrite is observed in grd host and within dark grey, smoky quartz vein. A 5 mm, light grey gouged, brecciated seam is observed at the contact between grd and vein zone.
207.65	208.64	0.99	GRD	GRDA	MG	moderately argillic granodiorite with local zones of weak to moderate potassic alteration. Trace 2-4mm, dark grey, pyrite bearing veins (~ 35 degrees TCA) are crosscut by 3 m, rhodocrosite infilled quartz veins(~ 80 degrees TCA). Trace pyrite is observed within grd host
208.64	209.30	0.66	GRD	GRDA	MG	moderate argillic, trace propylitic granodiorite interval containing 2-8mm, dark grey, pyrite bearing stringer quartz veins (80 degrees TCA). Minor calcite vein infill occurs within stringer veins. Blebby and disseminated pyrite is locally observed within host grd. Veins appear slightly deformed (irregular)(weakly sheared (?)). 1-2 m, light grey gouged seams are observed near stringer veins.
209.30	209.66	0.36	VEN	GRDA	MG	Weakly silicified, vein breccia zone containing disseminated and blebby pyrite. Vein in breccia is 75 degrees TCA and contains rhodocrosite and ankerite that both infills and locally brecciates quartz veins. (rhodocrosite mainly infills and brecciates clear quartz vein
209.66	211.16	1.50	GRD	GRDA	MG	moderate argillic, trace propylitic granodiorite containting trace 3-5 mm, pyrite bearing, quartz stringer veins. Gouged, weakly sheared brecciated seas is observed at the lower vein breccia-grd contact. Stringer veins occur at 80 and 35 degrees TCA. (lower angled ones are partially infilled with calcite).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
211.16	212.87	1.71	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval with local zones of trace propylitic alteration. Trace 2-4 m, carbonate vein locally brecciating host grd are observed. Veins run 80 degrees TCA.
212.87	213.56	0.69	GRD	GRDA	MG	trace potassic, trace argillic ,relatively unaltered granodiorite interval containing trace 1-2 mm, calcite infilled veinlets.
213.56	216.41	2.85	GRD	GRDA	MG	moderately argillic granodiorite with local zones of weak potassic and weak propylitic alteration. 2mm-2cm pyrite bearing stringer quartz veins (80 degrees TCA) are locally observed on interval. Veins are partially infilled by carbonates. Coloform bands are observed in vein at 214.97m (dark grey quartz, calcite ,hematite bands). Trace, sub-mm sphalerite is observed in some stringer veins.
216.41	216.94	0.53	GRD	GRDA	MG	moderate propylitic alteration overprinting weak argillic alteration in granodiorite interval. Two 8mm, pyrite-bearing,stringer quartz veins (35 degrees TCA) , with partial carbonate infill are observed on interval.
216.94	219.00	2.06	GRD	GRDA	MG	fractured, trace potassic, trace propylitic granodiorite interval. Trace, 1m, pyrite bearing bands are observed on interval.
219.00	221.34	2.34	GRD	GRDA	MG	trace potassic, trace propylitic granodiorite interval with local zones of moderate argillic, propylitic and potassic alteration (as 1-4 cm, alteration halos near stringer veins). Stringer veins with propylitic altered halos are ` 35 degrees TCA. Veins with argillic alteration halos are 75-80 degrees TCA.
221.34	224.20	2.86	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite with intermitten zones of weak propylitic, trace potassic alteration. 3mm-10 cm quartz veins , sometimes containing trace pyrite are observed on interval. rhodocrosite, ankerite and calcite infilling and locally brecciating clear quartz veins are observed within vein zones. Larger veins form coloform bands with carbonates-quartz. Veins with coloform bands are ` 80 degrees TCA (222.62, 224m). A 2 cm, vein (25 degrees TCA) locally brecciated and infilled by rhodocrosite is observed @ 222.05m.
224.20	226.40	2.20	GRD	GRDA	MG	weakly potassic, trace propylitic granodioriteinterval containing trace 2-5 mm, pyrite bearing veins (30 degrees TCA) are locally observed. Interval is rubbly and fractured from 224.16 at vein contact between potassic/argilic granodiorite and weakly altered grd.
226.40	229.00	2.60	GRD	GRDA	MG	strongly argillic granodiorite interval overprinting local zones of trace potassic, propylitic alteration. Trace 2-5 mm stringer veins containting trace pyrite are locally observed (~40 degrees TCA).
229.00	231.04	2.04	GRD	GRDA	MG	strongly argillic granodiorite interval with increased pyrite bearing, quartz stringer veins. Veins are 40 degrees tca, contain trace pyrite blebs and sometimes brecciate host grd Trace rhodocrosite and ankerite partially infilling larger stringer veins are observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
231.04	241.12	10.08	GRD	GRD	MG	strongly argillic granodiorite with local zones of weak potassic and propylitic alteration. 2mm-3 cm, pyrite bearing stringer veins ~ 40 degrees, sometimes infilled and brecciated by carbonates are locally observed throughout interval. Some dark grey, pyrite rich bands run about 70 degrees TCA. Some veins contain trace, sub-mm, sphalerite occuring within carbonitic infill in stringer vein zones is observed. Some stringer veins are ~ 80 degrees TCA(mostly largest and rhodocrosite containing veins). Some stringer veins in the lower portion of the interval containt milky quartz run ~ 30 degrees TCA.
241.12	241.43	0.31	VEN	GRD	MG	irregular, slightly deformed, vein zone containing clear quartz, dark grey smoky quartz, blebby pyrite and partially infilled by rhodocrosite is observed in vein interval. Dark grey matrix appears to locally brecciate clear quartz vein sections and host grd. Trace, sub-mm, sphalerite crystals are observed within rhodocrosite infilled zones. Veins are ` 80 degrees TCA on interval.
241.43	242.52	1.09	GRD	GRD	MG	strongly argillic granodiorite with local zones of trace potassic, propylitic alteration. Two, low angle (20 degrees TCA) quartz veins containing blebby pyrite are observed on interval.
242.52	246.73	4.21	GRD	GRD	MG	Moderate argillic granodiorite with weakly potassic overprint. Trace, dirty quartz, low angle veins(25 degrees) , brecciating host grd are observed @ 243.45m. Trace 1-3 mm, pyrite bearing , stringer veins with coloform bands are observed in slightly propylitic, potassic zones.
246.73	247.30	0.57	GRD	GRD	MG	trace potassic , trace propylitic granodiorite interval
247.30	247.61	0.31	GRD	GRD	MG	moderately propylitic, trace argillic granodiorite containing a 2 cm, 35 degrees TCA, quartz vein. Quartz vein host blebby pyrite in clear quartz and within dark grey, bands. Quartz vein contains light red,clasts (chert?). Calcite infill is also observed on vein.
247.61	249.34	1.73	GRD	GRD	MG	trace potassic, trace propylitic granodiorite interval with trace 1-2 mm, pyrite-bearing, carbonate infilled veinlets (50 degrees TCA).
249.34	250.44	1.10	GRD	GRDA	MG	strongly argillic granodiorite overprinting trace potassic, propylitic altered zones. 1 cm, quartz vuggy veins infilled by carbonates are observed on interval(80 degrees TCA).
250.44	250.70	0.26	VEN	GRDA	MG	Brecciated, quartz veinin moderately propylitic granodiorite. Trace disseminated pyrite occurs in vein zone. Carbonates locally brecciates quartz veins and host grd. Light grey, chalcedony(?)) clasts are observed within brecciated vein zone.
250.70	253.22	2.52	GRD	GRDA	MG	strongly argillic granodiorite with local zones of trace potassic, trace propylitic alteration. 1- 4mm, carbonate infilled, pyrite bearing , vuggy veins are observed throughout interval (65 degrees TCA).
253.22	253.30	0.08	POR	DYK	MG	light grey, light brown, clay altered, weakly oxidized porphyry dyke interval
253.30	253.53	0.23	POR	DYK	MG	dark purple, fractured ,porphyry dyke interval.
253.53	253.93	0.40	POR	DYK	MG	light grey, fractured, rubbly , clay altered porphyry dyke with light brown oxidation near the dyke-grd contact

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
253.93	258.10	4.17	GRD	GRDA	MG	strongly argillic granodiorite overprinting trace potassic, propylitic local zones. Trace vuggy veinlets and vugs in grd occur @ 255m. 2-4 mm, quartz-carbonate veinlets sometimes hosting trace disseminated pyrite are observed (50 degrees TCA).
258.10	258.47	0.37	GRD	GRDA	MG	strongly argillic granodiorite overprinted by moderate potassic alteration. Two, 4-5 mm, vuggy quartz veins containting dark green chlorite at veinlet boundaries are observed(40 degrees TCA). Trace 1-3 mm, carbonate-quartz veinlets (60 degrees TCA) also occur throughout interval.
258.47	260.93	2.46	GRD	GRDA	MG	moderately argillic granodiorite with trace toweakly potassic overprint. Sub-mm quartz carbonate veinlets occur sporadically throughout interval.
260.93	261.00	0.07	POR	VEIN	MG	light grey, fine grained dyke intrusions proxiaml to vein zone within a moderately argillic, trace potassic granodiorite.
261.00	261.15	0.15	VEN	VEIN	MG	Polymetallic vein zone (55 degrees TCA) in moderate argillic, trace propylitic granodiorite. Polymetallic vein is 7 cm, contains blebby pyrite, trace arsenopyrite, trace sphalerite and possibly galena (sphalerite and galena observed near rhodocrosite zones. Dark grey,quartz hosts minerals and locally brecciates a clear quartz vein, and locally brecciates host grd host. Vein is offset 4 cm, by a light grey carbonitite,infilled fracture. Rhodocrosite surrounding vein displays a vuggy texture with acicular-like intrusions in contact with dark grey mineralized quartz. Coloform bands are also observed in rhodocrosite surrounding vein. Pyrite blebs surround smaller brecciated, quartz clasts within vein zone.
261.15	261.65	0.50	GRD	GRDA	MG	strongly argillic, trace propylitic granodiorite interval overprinting trace potassic altered zones.
261.65	266.28	4.63	GRD	GRDA	MG	strongly argillic granodiorite with intermittent zones of moderate potassic and trace argillic alteration. 2-6 mm, carbonate infilled, 70 degrees TCA, stringer veins and local vuggy veinlets infilled by quartz crystals occur throughout interval. Some stringer veins have reddish,hematite infill and a few veinlets contain trace disseminated pyrite within dark grey, bands within veinlets. Coloform bands are also commonly observed in stringer veins on interval. Ankerite interstitially infilling and locally breccciating quartz vein occurs in lower section of interval at 265.47m. Calcite infilled fractures, locally crosscut through ankerite infilled vein.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
266.28	266.79	0.51	VEN	GRDA	MG	polymetallic vein zone within weak propylitic, trace potassic granodiorite overprinted by trace phyllic alteration (increased quartz clasts,basal cleavage muscovite(?) and disseminated pyrite locally observed in host grd). Interval is comprised of 2mm-2 cm, vuggy veins containing blebby pyrite, trace arsenopyrite , galena and sphalerite. Chalcedony, rhodocrosite and ankerite partially infill polymetallic veins . On fracture surface in light greyish chalcedony infilled vein, boytroidal, crystals are observed along fractured surface as well as euhedral calcite crystals. Coloform bands are commonly observed in vein zone. Veins range from 40-80 degrees TCA (steeper angled ones are thicker, ankerite-rhodochrosite rich veins. 40 degrees vein infilled by calcite where sphalerite and galena are located the the vein edges. Blebby pyrite occurs at vein boundaries and around quartz vein boundaries. In 80 degrees TCA, rhodocrosite infilled vein, trace galena and sphalerite are contained within rhodocrosite infill and within dark grey quartz matrix.
266.79	267.59	0.80	GRD	GRDA	MG	strongly argillic, trace propylitic, potassic granodiorite interval. trace, 1-3 mm, carbonate infilled, veinlets are locally observed on interval. Veinlets are 60 degrees TCA and are locally crosscut by a low angle (15 degrees Tca) calcite infilled veinlet.
267.59	268.72	1.13	GRD	GRDA	MG	interval comprised of trace potassic trace propylitic granodiorite and intermittent zones of weakly argillic, weakly to moderately potassic granodiorite and trace propylitic granodiorite. Trace, 2-3 mm, pyrite bearing veinlets sometimes containting carbonate infill are locally observed on interval. veinlets are 60-85 degrees TCA (most of them are 60 only vein at 268.35 run perpendicular to core axis.
268.72	269.75	1.03	GRD	GRDA	MG	moderately argillic , weak to moderate propylitic granodiorite containing 1-3 mm, pyrite bearing stringer quartz veins. Veins in mosre propylitic altered sections contain disseminated pyrite around veinlets and within grd host. Some veinlets contain carbonate infill and sometimes trace, sub-mm sphalerite is locally observed. Vein At 269.41m, contains light brown, carbonitic infill (ankerite(?)).
269.75	270.95	1.20	GRD	GRDA	MG	weak to moderate potassic, moderate argillic, trace propylitic granodiorite interval. Trace 6-8mm, light grey carbonate infilled veinlets are observed on interval and locally crosscut through 1-2 mm, 80 degrees TCA, quartz-carbonate veinlets. At 270.61, medium green, pinkish, fine grained (dyke(?)) intrusion is observed on altered granodiorite interval.
270.95	272.34	1.39	GRD	GRDA	MG	weakly potassic, argillic granodiorite with zones of weak to moderate propylitic alteration. 1mm-1 cm, 40 degrees TCA, vuggy veinlets are locally observed throughout granodiorite interval. vuggy veins contains light pink, rhodocrosite and calcite infill and blebby pyrite is hosted in dark grey bands within vein. Rhodocrosite infilled vuggy veins contain sub-mm, trace galena and sphalerite.
272.34	272.90	0.56	GRD	GRDA	MG	moderate argillic trace potassic granodiorite interval.
272.90	273.08	0.18	GRD	GRDA	MG	moderate propylitic granodiorite interval with light grey, gouged brecciated seam. A 3 mm, dark grey, slightly deformed veinlet is observed in propylitic altered interval. dark grey veinlet surround light beige, carbonate infill.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
273.08	274.52	1.44	GRD	GRDA	MG	trace potassic/trae propylitic granodiorite with local zones of moderate potassic, weak argillic alteration. Trace sub-mm, calcite infilled veinlets are observed (40 degrees TCA).
274.52	275.53	1.01	GRD	GRDA	MG	strongly argillic granodiorite with loca zones of weak potassic and weak propylitic alteration. Trace 1-2 mm, 50 degrees TCA, carbonate veinlets are observed on interval
275.53	277.13	1.60	GRD	GRDA	MG	trace potassic, propylitic granodiorite with trace1-3mm , dark grey,veinlets containting trace blebby pyrite (50 degrees TCA). Weak argillic, alteration halos are observed near veinlets bearing zones.
277.13	278.29	1.16	GRD	GRDA	MG	strongly argillic, trace potassic granodiorite with local zones of increased potassic and trace propylitic alteration. A 1 cm, carbonate infilled quartz vein (60 degrees TCA) containing trace pyrite blebs is observed @ 277.45m. A 2 mm, ankerite band surround a calcite infillef quartz vein. Pyrite is mostly hosted in dark grey, fine grey bands. A light grey/greenish, fine grained , dyke(?) intrusion occurs @ 277.90 (60 degrees Tca) and contains sub-angular quartz, feldspathic and black irregular clasts.
278.29	280.07	1.78	GRD	GRDA	MG	trace potassic, propylitic, relatively unaltered granodiorite interval with local zones of moderate potassic and weak argillic alteration. A 2 cm, light pink, fine grained aplite dyke intrusion is observed at 278.978m. 3mm-1 cm, carbonate infilled veinlets (65 degrees TCA) are observed within potassic/argillic altered grd. Larges veinlet contains ankerite which is crosscut by a 3 mm, calcite infilled quartz vein (i.e. 279.80m). A 4 cm,light pink aplite dyke intrusion occurs @ 279.92m (35 degrees TCA).
280.07	282.65	2.58	GRD	GRDA	MG	moderate to strongly argillic, trace potassic, propylitic granodiorite interval containing a 15cm, light grey, gouged, brecciated seam @ 280.66m and 2-5 mm, dark grey, rhodocrosite infilled, pyrite bearing veinlets which offset light pink, aplite intrusions. (Veinlets are 30 degrees TCA and appear to offset a 50 degree aplite dyke about 10 cm). Fractures locally offset sub-mm carbonate veinlets.
282.65	283.52	0.87	GRD	GRDA	MG	weakly propylitic, argillic granodiorite interval with local zones of weak potassic alteration (on lower interval section). 2mm-1 cm, carbonate infilled, quartz veinlets are locally observed (60 degrees TCA). Vein at 283 , contains light pink,rhodocrosite containing sub-mm, trace galena and sphalerite. Dark grey veinlets host trace, disseminated pyrite
283.52	285.06	1.54	GRD	GRDA	MG	weakly argillic trace potassic granodiorite interval containing a 1 cm, ligh pink, fine grained aplite dyke intrusion (65 degrees TCA) which is locally crosscut by calcite infilled veinlets and fractures.
285.06	286.00	0.94	GRD	GRDA	MG	interval comprised of weakly potassic, granodiorite with weakly propylitic altered local zones. An ankerite, calcite infilled vein locally brecciating host grd is observed at 285.27 (70 degrees TCA). Sub-mm pyrite and sphalerite are observed in carbonate infilled vein. Vein locally offset and crosscut by fracturing. A 2 cm, light pink aplite dyke intrusion is observed at 285.95m (40 degrees TCA).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
286.00	286.86	0.86	GRD	GRDA	MG	weakly propylitic, trace argillic granodiorite interval containing semi chaotic, 2-5mm, calcite infilled veinlets which locally brecciate host grd. Dark grey bands on veinlet zones locally host trace, disseminated pyrite. Carbonate veinlets brecciating host grd run 70 degrees TCA. Bright pink rhodocrosite partially infilling and locally brecciating quartz veinlet and hosting sub-mm, sphalerit is observed @ 286.80m.
286.86	288.22	1.36	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite with local zones of weak to moderate propylitic alteration. 1-2 cm, carbonate infilled, veinlets forming coloform bands occur at 30 and 70 degrees TCA. 70 degree vein occurs @ 287.26 and contains red hematite, and ankerite-calcite-quartz coloform bands. Hematite appears to interstitially infill a dark, grey vein that microbrecciates quartz vein locally. Low angle vein observed @ 288m contains ankerite,calcite and light pink rhodocrosite which locally brecciate host grd (no significant mineralization observed in either vein). Fine grained, pink, aplite dyke intrusion (60 degrees TCA) also occur within altered grd interval and one dyke intrusion appears to be offset by irregular quartz clast.
288.22	289.25	1.03	GRD	GRDA	MG	weakly argillic, weakly potassic granodiorite with local zones of trace potassic , argillic alteration (mostly as alteration halos near pyrite bearing veinlets). Veinlets at 288.88, are 80 degrees TCA , contain blebby pyrite and are partially infilled by calcite. Veinlets crosscut through 3 cm, light pink, fine grained aplite dyke intrusion present at 289m (55 degrees TCA).
289.25	290.60	1.35	GRD	GRDA	MG	moderately argillic, weakly potassic, granodiorite interval displaying dark red, hematite alteration. Dark red alteration observed in 20 degrees TCA,1-2 mm, veinlets. 1-2 mm, calcite infilled fractures crosscut through hematite altereted veinlets.
290.60	291.08	0.48	GRD	GRDA	MG	moderately argillic, weakly potassic and trace propytic granodiorite interval. Trace, 1 mm, veinlets (80 degrees TCA) veinlets are locally observed throughout interval and sometimes contain trace, disseminated pyrite.
291.08	291.72	0.64	GRD	GRDA	MG	moderately argillic, weakly potassic, trace propylitic granodiorite interval containing light green, chlorite bearing inclusions and 1-4mm,ankerite infilled veinlets (50 degrees TCA). Ankerite infilled vein contains black, sub-mm bands which interstitially surround ankerite infilled veinlet.
291.72	292.05	0.33	VEN	GRDA	MG	moderately propylitic, trace argillic granodiorite interval containting 2mm- 3 cm, carbonate infilled quartz veinlets which brecciate host grd . Trace, sub-mm, pyrite and sphalerite are observed within quartz vein and within dark grey, fine grained bands . Orange/brownish, carbonitic infill is also observed surronding aknerite infilled vein. Small fractures crosscut through vein zone. Veinlets are 80 degrees TCA. 103 mm, quartz vuggy veinlets are also observed at 292.02m.
292.05	293.00	0.95	GRD	GRDA	MG	moderate argillic, trace potassic, trace propylitic granodiorite containing ankerite and calcite infilling fractures.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
293.00	293.24	0.24	VEN	GRDA	MG	argillic, trace propylitic granodiorite with light grey, gouged brecciated seams and weakly sheared. 1-3mm, dark grey, clear and smoky quartz veinlets are observed in sheared interval. calcite and ankerite infilling and surrounding veinlets is observed on interval. Veinlets are deformed due to shearing and appear to be locally offset by fracturing and sheared texture. Trace disseminated pyrite hosted in dark grey, veinlets is observed on vein section. Veins are ~ 70 degrees TCA and shear fabric appears to be 40 degrees TCA.
293.24	294.12	0.88	GRD	GRDA	MG	moderate argillic,trace propylitic granodiorite interval containing a 1 cm, ankerite infilled quartz vein. Coloform bands are also observed in veinlet (80 degrees TCA). Ankerite appears to infill a milky quartz vein which partially repaces a dark grey, fine grained , pyrite hosting veinlet.
294.12	294.34	0.22	GRD	GRDA	MG	gouged, brecciated section of moderate argillic, trace propylitic granodiorite. Brecciated clasts include K-spar, chlorite and feldspathic granodiorite clasts.
294.34	296.00	1.66	GRD	GRDA	MG	weakly argillic, weakly potassic granodiorite interval exhibiting 1-4mm, light grey gouged seams occur near aplite dyke intrusion@ 295m. Aplite dyke intrusion is 30 degrees TCA.
296.00	297.60	1.60	GRD	GRDA	MG	moderately argillic, weakly potassic, trace propylitic granodiorite containing 3mm-1cm, carbonate infilled , quartz veinlets locally hosting trace disseminated pyrite (pyrite mostly within dark grey bands in veinlets). Ankerite coloform bands surrounding quartz vein are observed at 296.85m veinlets are ~ 60 degrees TCA.
297.60	298.50	0.90	GRD	GRDA	MG	weakly sheared, locally gouged brecciated, moderate argillic, trace propylitic granodiorite interval. sheared dark , fine grained bands appear to locally brecciate host grd as well. Sheare fabric appears to be 30 degrees TCA. Carbonate infilled , slightly deformed veinlets are locally observed on interval (~ 60 degrees TCA). Trace disseminated pyrite locally hosted on dark grey, fine grained bands is also observed throughout interval.
298.50	299.81	1.31	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite with local zones of trace to weak propylitic alteration. 1-2 mm, dark grey bands (80 and 60 degrees Tca) locally hosting disseminated pyrite are observed throughout interval.
299.81	301.13	1.32	GRD	GRDA	MG	moderate propylitic , weakly argillic granodiorite ith local zone of moderate argillic, trace propylitic granodiorite. Propylitic altered sections contain 2-5mm, dark grey, fine grained veinlets locally hosting blebby and disseminated pyrite. Interstitial fine grained pyrite is observed on granodiorite proximal to veinlets. Small, stringer veins are 80 degrees TCA and largest veinlet @ 300.85 m appears vuggy , is 60 degrees Tca and is partially infilled by carbonates. Rhodocrosite infilled veinlets @ 301m, contain sub-mm sphalerite. Calcite infilled fractures, locally offset pyrite-hosting stringer veinlets.
301.13	301.71	0.58	GRD	GRDA	MG	moderate argillic, trace propylitic granodiorite interval containing trace 1-3mm, 80 degrees TCA quartz veinlets.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
301.71	302.36	0.65	GRD	GRDA	MG	moderate argillic, trace potassic/propylitic granodiorite displaying gouged brecciation and calcite infilled , semi chaotic fracturing in lower interval zone (from 302m). Coloform carbonate-quartz veinlets perpendicular to core axis and dark grey, fine grained, slightly deformed, veinlets locally hosting pyriteare observed on interval. Fractures locally offset and crosscut through dark grey, carbonate infilled veinlets. Trace disseminated pyrite also occurs within granodiorite interval proximal to veins.
302.36	303.80	1.44	GRD	GRDA	MG	Moderate argillic, trace propylitic/potassic granodiorite interval ith local zones of weak proptliric alteration, containing 1-3 mm, quartz veins locally hosting pyrite (80 degrees TCA). Some clasts on interval display reddish/ light brown alteration (oxidation(?)). 1mm, dark grey veinlet containing trace pyrite are observed @ 40 degrees TCA.
303.80	304.00	0.20	GRD	GRDA	MG	gouged, brecciated, moderate argillic, trace propylitic granodiorite. Dark grey, fine grained bands and clasts in gouged brecciated section locally host disseminated pyrite. Gouge brecciated seam runs ~ 15 degrees TCA.
304.00	305.34	1.34	GRD	GRDA	MG	strongly argillic, trace potassic/propylitic granodiorite ith local zone of increased potassic/proyplitic alteration (304-304.26- clasts are orange/reddish). Trace 1-2 mm, veinlets perpendicular to core axis , locally host , trace, disseminated pyrite. 2-4mm, low angle (30 degrees TCA) carbonate veinlets locally brecciating host granodiorite areobserved on interval as well
305.34	307.87	2.53	GRD	GRDA	MG	moderately argillic, trace propylitic, phyllic altered granodiorite interval locally hosting pyrite in dark grey, finegrained clasts within granodiorite and in dark grey, carbonate infilled veinlets. Bright pink rhodocrosite partially infills and brecciates clearquartz veinlets. Vein @ 305.50 is 80 degrees TCA, locally hosts pyrite in dark grey bands ithin vein zone and light pink rhodocrosite locally brecciated clear quartz vein. Sub-mm sphalerite hosted in rhodocrosite rich zones is locally observed throughout interval. A fine grained, tan, inclusion at 306 contains irregular,dark grey inclusions that locally host fine grained pyrite as well. Slightly deformed(weakly sheared) veinlets and smallgouged seams are observed at 306.47m. Rhodocrosite in vein at 207.40m, locally hosts sub-mm galena and sphalerite (mostly observed at the vein edges). Largest vein zone (60 degrees), observed at 307.65m, is comprised of 6 veinlets ranging from 1-8mm and some display vuggy texture , and display less carbonate infill than other veinlets on interval. (rhodocrosite and ankerite mostly observed intruding veinlets at the vein edges.
307.87	310.23	2.36	GRD	GRDA	MG	moderate argillic, trace potassic, propylitic granodiorite with intermittent zones of moderate propylitic,trace potasic altearation. Vein @ 308.35m is vuggy, is infilled by light brown, tan ankerite and chalcedony(?) (60 degrees TCA). Light grey, carbonates infilling propylitic and potassic alteredzone near dyk contact occur as irregular inclusions in grd. Some clasts near grd-dyke contact are brownish-orange (oxidized or clay altered).
310.23	311.19	0.96	QFP	DYK	MG	grey/brownish, clay altered quartz feldspar porphyry dyke interval containting 2-7mm, quartz veinlets that locally brecciate host dyke. Small, 1-2mm, gouged brecciated seams are alsoobserved on interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
311.19	315.47	4.28	QFP	DYK	MG	dark purple, quartz feldspar porphyry dyke interval with local gouged brecciated and locally fractured zones. Quartz-carbonate veinlets sometimes locally brecciate host grd. Some gouge seams are 40 degrees TCA. Some gouged seams are 80 degrees tca. 1-2mm, calcite infilled fractures locally crossut through veinlets.
315.47	315.77	0.30	QFP	DYK	MG	purple-light grey , gouged brecciated quartz feldspar porphyry dyke interval. contact between dyke and grd is gouged, brecciated(faulted contact(?)), Light grey, gouged-brecciated section is composed of grd fragments.
315.77	316.11	0.34	GRD	GRDA	MG	weakly sheared, moderately propylitic, argillic granodiorite interval near quartz feldspar porphyry dyke grd contact. (shear fabric ~ 30 degrees TCA).
316.11	317.48	1.37	GRD	GRDA	MG	moderate argillic, trace potassic granodiorite with local zones of moderate propylitic alteration . Fine grained,light green, purple inclusion is observed at 316.50 on granodiorite interval.
317.48	318.52	1.04	QFP	DYK	MG	medium grey, clay altered quartz feldspar porphyry dyke interval containing quartz-carbonate (80 degrees TCA) veinlets. Calcite infilling fracture surfaces is commonly occuring throughout interval.
318.52	319.55	1.03	QFP	DYK	MG	light grey, clay altered, quartz feldspar porphyry dyke interval displaying vuggy texture on quartz-carbonate veinlets. Veinlets contain subhedral calcite inclusions within vuggy quartz veinlets. Euhedral quartz crystals occur within vugs.
319.55	321.56	2.01	QFP	DYK	MG	light-medium grey , clay altered quartz feldspar porphyry dyke interval. lower portion of interval has soft, clayey gouged seas, is locally fractured and contains 1-2mm, carbonate veinlets (50 degrees TCA).
321.56	323.67	2.11	QFP	DYK	MG	dark purple, unaltered, quartz feldspar porphyry dyke interval
323.67	324.70	1.03	QFP	DYK	MG	dark purple, quartz feldspar porphyry dyke interval with local zones of light grey,clay alteration and soft, gouged, brecciate seams.
324.70	325.50	0.80	QFP	DYK	MG	light-medium grey, clay altered, fractured, quartz feldspar porphyry dyke interval containing trace 1-2mm, slightly deformed,calcite veinlets (50 degrees TCA).
325.50	326.88	1.38	QFP	DYK	MG	dark purple, fractured quartz feldspar porphyry dyke interval displaying minor gouge brecciation and containing trace 1-2 m, quartz-carbonate veinlets. Fracturing increases in lower interval section.
326.88	327.84	0.96	QFP	DYK	MG	fractured, mlight-medium grey, clay altered quartz feldspar porphyry dyke interval containing trace, 1-2mm, quartz-carbonate vienlets are carbonate infilled fractures are observed.
327.84	328.49	0.65	GRD	GRD	MG	strongly argillic, moderately potassic granodiorite interval containing trace 1-2mm, carbonate-quartz veinlets (40 degrees TCA). Ankerite and calcite appear to infill and locally brecciate host grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
328.49	330.04	1.55	GRD	GRD	MG	strongly argillic granodiorite with intermittent zones of moderate propylitic and weak potassic alteration. 2-7 mm, quartz-carbonate veinlets (80 degrees TCA) are locally observed (carbonate infilling vein is light grey and slightly reactive to HCL). A low angle (30 degrees TCA) vuggy vein is observed at 328.90m where calcite and ankeirte partially infill and locally brecciate quartz vein. Veins at 328.49m exhibit vein restricted, calcite fractures perpendicular to vein direction. Vein zone appears weakl to moderately silicified and light brown/tan carbonate appears to surround quartz-carbonate vein zone. Carbonates locally brecciate host granodiorite in zone as well.
330.04	331.50	1.46	GRD	GRD	MG	moderately argillic, potassic granodiorite interval displaying fracturing and gouged brecciated seams in lower intervalsection proximal to grd-quartz feldspar porphyry dky contact. Trace 1-3mm, carbonate infilled veinlets (40 degrees TCA) are locally observed throughout interval.
331.50	331.97	0.47	QFP	DYK	MG	light to medium grey, clay altered , gouged brecciated section of quartz feldspar porphyry dyke.
331.97	332.25	0.28	QFP	DYK	MG	purple-grey, clay altered, fractured , quartz feldspar porphyry dyke interval.
332.25	333.15	0.90	QFP	DYK	MG	purple-grey, clay altereted, gouge brecciated, quartz feldspar porphyry dyke interval
333.15	333.52	0.37	FLT	DYK	MG	light to medium grey , rubbly, quartz feldspar porphyry dyke interval. faulted section proximal to quartz feldspar porphyry dyke-grd contact
333.52	334.00	0.48	FLT	GRDA	MG	light grey, faulted ,rubbly, argillic granodiorite interval. Trace , pyrite is locally hosted within dark grey, gouged seams in grd interval. (faulted contact between quartz feldspar porphyry dyke and grd).
334.00	334.49	0.49	GRD	GRDA	MG	faulted contact footwall comprised of strongly argillic, trace potassic/propylitic granodiorite. Feldspathic clasts near vein zone are light brown/orange altered (oxidation(?)). Trace 1-3mm, dark grey, veinlets (80 degrees TCA) are locally observed on interval
334.49	334.79	0.30	VEN	GRDA	MG	strongly argillic, trace propylitic granodiorite vein zone. Interval contains 2mm-1 cm, rhodocrosite infilled, quartz veins which locally host pyrite in dark grey , fine grained bands. Light pink, rhococrosit appears to locally brecciate host quartz vein. Sub-mm , sphalerite crystals are observed within rhodocrosite rich zones. Veins are 80 degrees TCA.
334.79	338.33	3.54	GRD	GRDA	MG	strongly argillic moderate potassic granodiorite with local zones of trace propylitic alteration (mostly as alteration halo near veinlets). Trace 1-5mm, quartz-carbonate veinlets are locally observed throughout interval , sometimes hosting trace, disseminated pyrite (veins are 80 degrees TCA).
338.33	340.11	1.78	GRD	GRDA	MG	moderate argillic interval with local zones of moderate potassic alteration. 5-8mm, quartz-carbonate veinlets (30 degrees TCA) are hosted in weakly propylitic granodiorite zones.
340.11	340.57	0.46	GRD	GRDA	MG	gouged brecciated, fractured, moderately argillic granodiorite containting 4-6mm, quartz-carbonate veinlets (60 degrees TCA). Dark grey, fine grained, veinlets locally ohsting trace pyrite are observed around quartz-carbonate vein. Quartz vein appears to locally brecciate host grd as well.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
340.57	342.00	1.43	GRD	GRDA	MG	moderatelyargillic, weakly potassic altered granodiorite interval.
342.00	342.68	0.68	GRD	GRDA	MG	moderately argillic, trace propylitic granodiorite interval exhibiting gouged brecciated seams and weak shear fabric in dark grey, quartz vein zone @ 342.55m. Three , 3-4m stringer quartz-carbonate veinlets are observed proximal to gouge brecciated zone (50 degrees TCA) and locally host trace, disseminated pyrite. Veins in shear zone appear slightly deformed (shear fabric 40 degrees TCA(?) and locally host disseminated pyrite within dark gre, fine grained quartz veinlets. Veins appear to locally microbrecciate host grd. At 342.14m, a quartz-carbonate, discontinuous veinlet forming coloform bands is locally observed (80 degrees TCA0.
342.68	343.05	0.37	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval
343.05	344.85	1.80	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval. a dark green, fine grained clasts inclusion is observed at the contact between unaltered and argillic granodiorite interval.
344.85	345.50	0.65	GRD	GRDA	MG	moderately potassic, weakly argillic, trace propylitic granodiorite interval. Trace, 1 mm, dark grey, veinlets (80degrees TCA) are sporadically observed on interval.
345.50	349.37	3.87	GRD	GRD	MG	white/black, unaltere granodiorite interval with trace 2-5mm, quartz-carbonate veinlets (60 degrees TCA) within a moderate propylitic (2-4cm) alteration halo.
349.37	351.33	1.96	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with local sections of moderately propylitic, potassic , trace phyllic alteration . 1-2 mm, dark grey, ,veinlets (80 degrees TCA) locally host trace disseminated pyrite. A 5 mm, quartz- carbonate veinlets observed at 349.65m , locally brecciates host grd. Within vein, carbonates appear to locally brecciated clear quartz vein as well. A 2 cm, (50 degrees TCA) quartz-carbonate vein is observed within a green/beige, fine grained inclusions within granodiorite interval (no significant mineralization is observed in vein zone).
351.33	355.30	3.97	GRD	GRD	MG	white/black , unaltered granodiorite interval with sporadic, moderate propylitic alteration halos within 2-6 mm, quartz carbonate veinlets (60 degrees TCA). 5 mm, light pink, aplite dyke intrusion is observed at 40 degrees TCA and is locally crosscut by calcite infilled, discontinous veinlets and calcite infilled fractures.
355.30	360.36	5.06	GRD	GRD	MG	white/black unaltered granodiorite with intermittent zones of trace potassic alteration. Trace, 2-4mm, quartz carbonate veinlets (60 degrees TCA) within 2-3 cm, propylitic alteration halos occur on interval.
360.36	360.75	0.39	GRD	GRD	MG	moderately argillic, potassic, trace propylitic granodiorite interval. Semi chaotic, quartz-carbonate veins locally brecciating host granodiorite are observed at 360.36m. Carbonate vein appears to be replacing an existing clear quartz vein (clear quartz surrounded by calcite veining. 1-2 mm, quartz veinlets (70 degrees TCA) are locally crosscut by calcite vein breccia.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
360.75	361.00	0.25	VEN	GRD	MG	weakly sheared, gouged brecciated , moderately argillic trace propylitic granodiorite contianting a 3 cm, dark quartz vein within gouged, brecciated seams. Vein is 60 degrees TCA, dark grey/purple and contains blebby galena, sphalerite, trace arseno pyrite. A clear quartz vein appears to surround polymetallic vein. (clear quartz vein came in first then dark, polymetallic quartz vein infilled and replaced it(?)). Pyrite islocally hosted in dark grey, 1-2mm, fine grained bands within shear zone and within polymetallic vein zone.
361.00	361.45	0.45	GRD	GRD	MG	beige , medium pink, fine grained moderately argillic , potassic granodiorite vein zone footwall. From 361.19-361.45m, potassic alteration increases and 1-2 mm,calcite veinlets are locally observed (60 degrees TCA). A 4mm, quartz-carbonate ,60 degrees TCA veinlet is observed in lighter beige section at 361.14m.
361.45	362.44	0.99	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of moderate argillic, trace potassic and propylitic granodiorite. Two , 60 degrees TCA, quartz carbonate veinlets are locally observed at 361.70m. Calcite appears to infill fractures and locally brecciate host grd within vein zone.
362.44	372.89	10.45	GRD	GRD	MG	black/white unaltered granodiorite interval containing trace 2-3 mm, 25-80 degrees TCA, quartz carbonate veinlets . Potassic, propylitic,2-3 cm, alteration halos are observed within veinlet zones . No significant mineralization observed in unaltered granodiorite interval
372.89	374.84	1.95	GRD	GRDA	MG	trace to weakly potassic granodiorite interval with local fractured zones and containing trace 1-2mm, veinlets locally hosting trace, disseminated pyrite.
374.84	375.18	0.34	VEN	GRDA	MG	moderate propylitic, trace argillic granodiorite interval containing, 4, 2-4mm, quartz-carbonate veinlets locally hosting pyrite, trace sphalerite and galena. Veinlets are 80 degrees TCA. Ankerite appears topartially infill nd replace existing calcite veinlet and quartz veinlets on interval. pyrite is locally hosted in dark grey, fine grained bands within vein zone. Trace disseminated pyrite is also hosted in altered granodiorite interval.
375.18	379.90	4.72	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite interval with intermittent zones of weakly potassic, propylitic alteration and moderate propylitic altearation (mostly as alteration halo near veinlets). Trace 1-2 mm, quartz - carbonate veinlets occur sporadically throughout interval (60 degrees TCA).
379.90	381.35	1.45	VEN	GRDA	MG	moderate propylitic granodiorite interval containting a 2 cm, polymetallic vein at 25 degrees TCA. Darker section of quartz vein locally host blebby pyrite, galena, sphalerite and sub-mm arseno pyrite. Clear quartz located within dark grey, polymetalliz vein zone contains minor rhodocrosite, ankerite inclusions.
381.35	382.00	0.65	GRD	GRDA	MG	trace potassic , relatively unaltered granodiorite interval
382.00	382.70	0.70	GRD	GRDA	MG	weakly argillic, weakly potasssic granodiorite interval. a 40 degrees TAC, quartz-carbonate vein is observed at 282m
382.70	384.57	1.87	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite with local zones of weak propylitic, argillic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
384.57	385.18	0.61	GRD	GRDA	MG	weakly propylitic, argillic, trace potassic granodiorite interval. 2-4 mm, quartz-carbonate veinlets are observed (60 degrees TCA).
385.18	386.77	1.59	GRD	GRDA	MG	trace potassic, propylitic , relatively unaltered granodiorite interval containing trace, 1-2mm, carbonate veinlets (45 degrees TCA)
386.77	387.41	0.64	GRD	GRDA	MG	moderately potassic, weakly argillic, trace propylitic granodiorite interval a 4 m, 50 degrees TCA, quartz carbonate vein. Trace , disseminated pyrite is locally hosted within 2 mm, dark grey bands within vein zone. Trace blackjack sphalerite is locally observed within carbonate replaced vein zone. Carbonates appear to locally brecciate vein.
387.41	390.73	3.32	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite interval. trace 1-2mm, carbonate veinlets occur sporadically thorughout interval (60 degrees TCA).
390.73	391.51	0.78	GRD	GRDA	MG	moderately potassic, argillic granodiorite interval.
391.51	391.93	0.42	GRD	GRDA	MG	weakly propylitic, argillic granodiorite interval containing 4 mm, dark grey, vuggy veinlets (35 degrees TCA).
391.93	393.00	1.07	GRD	GRDA	MG	trace potassic ,propylitic granodiorite interval.
393.00	398.25	5.25	GRD	GRDA	MG	strongly argillic, weakly potassic granodiorite interval containing local fractured zones (i.e. 286.80m) and trace 2-3mm, carbonate veinlets (40 degrees TCA).
398.25	400.21	1.96	GRD	GRDA	MG	trace potassic, propylitic, mrelatively unaltered granodiorite with local zones of weak potassic,argillic alteration.
400.21	401.73	1.52	GRD	GRDA	MG	strongly argillic, moderately potassic granodiorite containing a low angle(20 degrees) reddish, carbonate veinlet.
401.73	402.34	0.61	GRD	GRDA	MG	moderately propylitic, weakly argillic granodiorite interval containting 1-2 cm, quartz -carbonate veins which locally brecciate host grd. Trace disseminated pyrite is locally hosted within dark grey veinlets. Vein zone is 80 degrees TCA.
402.34	403.71	1.37	GRD	GRDA	MG	weakly potassic granodiorite with intermittent zones of weak propylitic and weak argillic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.91	0.91	CAS	--	casing							
0.91	3.04	2.13	OVB	--	ovb							
3.04	6.63	3.59	GRD	MG	relatively unaltered (trace potassic, trace propylitic granodiorite) with local, light brown oxidation zones. A gouge clayey section is observed from 4.60-4.85m.							
6.63	28.16	21.53	GRD	MG	interval comprised of weakly to moderately oxidized, weakly argillic, weakly propylitic and trace potassic granodiorite. Pervasive oxidation is locally observed wtihin granodiorite unit , particularly in argillic altered zones. A fractured zone is observed at 9.14m-9.30m. Oxidation occurs as light brow clay-rich oxidation and reddish hematitic oxidation. Light/dark brown, gouged clayey section occurs @ 12.60-12.87m. Polymictic, breccia zone is locally observed @ 7.62-8.05m. Trace, carbonate infilled, 1-4 m, pyrite bearing quartz veins are loally observed throughout clay altered/oxidized interval. Larges vein occurs @ 14.06m, where dark brown, oxidized carbonitic, dendritic inclusions intrude into carbonate infilled vein.							
						LT	BN		POT	1I	Py	1
						LT	GN					
						LT	BG		ARG	2I		
						DK	BN		PRO	2I		
28.16	80.37	52.21	GRD	MG	interval comprised of trace potassic, trace propylitic relatively unaltered granodiorite and intermittent zones of weakly to moderate argillic alteration, weakly propylitic and trace argillic alteration. Oxidation and clay alteration is less pervasive than previous unit ; local zones of weak oxidation are observed predominantly on altered grd zones. From 28.16-28.90m, a dark grey, fine grained, polymictic inclusions occurs in grd interval and is weakly oxidized near 1-2mm, veinlet zones. Gouged, brecciated seams are locally observed on interval. Pyrite-sphalerite bearing stringer vein zones, and vein breccia @ 49m also occur in interval.							
						LT	GN		ARG	2I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		OXI	2I		
						LT	BG		POT	1I		
						LT	PK		PRO	2I	Sp	2
80.37	82.15	1.78	GRD	MG	weakly propylitic granodiorite overprinting weak argillic alteration. Sheared, gouged brecciated zones are locally observed proximal to vein breccia zone. Ankerite infilled, quartz veins locally brecciate host granodiorite. Fractures locally offset quartz veins in interal. Trace disseminated pyrite occurs in dark grey, gouged seans, within granodiorite host and vein breccia zone. Vein breccia zone is weakly silicified, dark grey and contains feldspathic and quartz clasts. Chlorite clasts, trace pyrite and sphalerite also occuring in vein breccia zone.							
						LT	BG		ARG	2I		
						LT	GN		PRO	2I	Py	2
82.15	86.68	4.53	GRD	MG	moderate potassic, weakly argillic granodiorite interval with zones of dark red, hematite oxidation (oxidation observed in grd, fractures/joint and in quartz veins. Quartz veins contain trace pyrite , and contain dark red hematite inclusions . Veins are locally offset and crosscut by calcite infilled fractures. Trace 1-2 mm, pyrite bearing veinlets are present on interval as well.							
						LT	BG		HEM	2I		
						MD	PK		POT	3I		
						DK	RD		ARG	2I		
86.68	96.15	9.47	GRD	MG	white/black, salt/pepper unaltered granodiorite interval with intermittent zones (no larger than 10cm) of weak potassic alteration. Trace 1mm, pyritebearing bands occur sporadically throughout interval.							
						--	WH		POT	1I		
						--	BK					
96.15	104.50	8.35	GRD	MG	trace potassic, granodiorite with intermittent zones of weak potassic, argillic and propylitic alteration. 4mm-1 cm, calcite infilled, quartz veins occur predominantly in altered grd zones. Quartz vein appear to locally brecciate host grd.							
						LT	PK					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
104.50	121.41	16.91	GRD	MG	black/white, unaltered granodiorite with small, intermitttent zones of weak potassic, propylitic alteration (mostly as alteration halos near veins). Dark, red hematite occurs along fracture/joint surfaces.							
121.41	133.60	12.19	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weak propylitic, weak argillic and weakly potassic and argillic granodiorite. Altered zones host quartz veins that contain blebby pyrite and are sometimes infilled by carbonates. Calcite infilled, fractures locally crosscut through pyrite bearing veins in altered grd sections.							
						LT	GN		PRO	1I		
									POT	1I		
						LT	BG		PRO	2I		
									POT	2I		
						LT	PK		ARG	2I	Py	3
133.60	150.58	16.98	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of weakly to moderate argillic granodiorite overprint of trace potassic and propylitic altered sections. (alteration increases with depth). 4mm-14cm, light pink, aplite intrusions are observed in less altered grd sections. Vein setion is partially infilled by carbonates(calcite and light pink rhodocrosite) containting blebby pyrite and trace galena is observed at 148.19-148.40 in argillic grd. 2-4 mm, stringer vein zones with trace disseminated pyrite are commonly observed in more altered granodiorite sections.							
150.58	161.15	10.57	GRD	MG	interval is comprised of weakly to moderate argillic granodiorite with local overprints of weakl propylitic and trace potassic alteration. Overall interval contains more alteration with small, relatively unaltered granodiorite section displaying only trace potassic alteration. 2-5 mm, pyrite bearing veins mostly occur within argilli/propylitic alteration zones. Trace disseminated pyrite is locally observed within grd host a well. Carbonate infilled veins and calcite infilled fractures are commonly occuring in granodiorite interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
161.15	181.00	19.85	GRD	MG	altered granodiorite interval comprised of moderate argillic alteration overprinting local zones of weak potassic and weak to moderate propylitic alteration bright, pink rhodocrosite brecciating and partially infilling pyrite bearing veins is observed in argillic/propylitic altered zones. NOTE: rhodocrosite observed @ 168.30-171m is the purest (most pink, more Mn, higher temperature (?)) observed thus far in any of the exploration holes.							
						MD	GN		PRO	2I	Rh	5
						MD	BG		ARG	3I	Py	3
						LT	BG		POT	2I		
181.00	185.15	4.15	GRD	MG	trace potassic, trace propylitic granodiorite with intermittent zones of moderate potassic and weakly argillic alteration. Trace 1-3 mm, calcite infilled veinlets are commonly observed throughout interval. trace, dark, fine grained carbonitic veins containting blebby pyrite are obsered in argillic/propylitic and argillic/potassic altered zones (i.e. 183.28m, 184.20m). Pyrite bearing veins are ~ 40 degrees TCA.							
						LT	GN		PRO	2I		
						MD	BG		ARG	2I		
						LT	PK		POT	2I	Py	2
185.15	190.55	5.40	POR	MG	medium grey, porphyritic dyke containting mostly feldspathic lasts and dark, fine grained clasts. Gradational contact between altered granodiorite occurs as light beige, feldspathic rich matrix and grades into medium brown, clay-oxidized clast rich zone right at the dyke contact. At 187.75, dyke clasts and matrix become red (hematite oxidation (?)). Unaltered dyke interval has a purple fine grained matrix and light grey, black clasts are observed within dyke. Calcite locally infills fractures throughout dyke interval.							
						DK	PU					
						LT	GY		HEM	2I		
						LT	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
190.55	204.22	13.67	GRD	MG	interval is comprised of trace potassic, weakly propylitic granodiorite and moderate to strongly argillic granodiorite with intermittent zones of weakly to moderately propylitic and weakly potassic granodiorite. Argillic/propylitic sections contains mm to cm sized , pyrite bearing quartz veins containing ankerite and rhodocrostite as vein infill and brecciating quartz vein and host grd. Trace galena, and chalcopyrite(?) are observed in 4 mm vein, with strong propylitic alteration halo (i.e 195.85). (sulfide is brassy yellow, soft and non-magnetic). Pyrite bearing, 2-3 mm, black veinlets and carbonate infilled veins are ~ 40 degrees TCA except vein breccia zones (here veins are 80 degrees TCA).							
						LT	GN		PRO	2I	Gn	2
						MD	BG		POT	2I	Rh	6
						MD	GN		ARG	3I	Py	4
						LT	PK		POT	1I	Ch	1
204.22	226.40	22.18	GRD	MG	interval comprised of moderate to strongly argillic granodiorite with local zones of weak tooderate propylitlic and weak potassic alteration. Bright pink, rhodocrosite infilled, pyrite bearing quartz veins occur in argillic/ propylitic granodiorite zones (~ 80 degrees TCA;most rhodocrosite containing , brecciated veins). Trace 1mm-2cm pyrite bearing quartz veins , partially infilled by carbonates are locally observed throughout interval. Veins range from 40-50 degrees TCA.							
						LT	BG		POT	2I	Rh	5
						LT	PK		PRO	2I	Py	3
						MD	BG		ARG	3I	Ak	4
226.40	231.04	4.64	GRD	MG	fractured interval compotsed of moderate to strongly argillic granodiorite overprinting trace potssic and propylitic alteration zones locally. 2mm-1 cm stringer quartz veins occur throughout interval and sometimes contain trace pyrite blebs. Lower section of interval contains more and larger stringer veins which locally brecciate host grd. 1-4 mm,dark grey, gouged seams are observed on interval.							
						LT	PK					
						MD	BG					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
231.04	246.73	15.69	GRD	MG	strongly argillic granodiorite overprinting local zones of weak potassic and propylitic alteration. 2mm-3cm, pyrite bearing, stringer quartz veins , sometimes infilled and locally brecciated by carbonates are locally observed. Smaller, stringer veins are ~ 40 degrees TCA and largest, veins infilled and brecciated by rhodocrosite are `80 degrees TCA							
246.73	249.34	2.61	GRD	MG	trace potassic, trace propylitic granodiorite interval with local zone of moderately propylitic, trace argillic alteration. Vein at 247.50m, 35 degrees TCA, contains blebby pyrite, and light red infill within clear quartz vein. Pyrite is also hosted in dark grey, fine grained bands within vein zone.							
						LT	PK		PRO	1I	Py	2
						LT	GN		POT	1I		
249.34	253.22	3.88	GRD	MG	strongly argillic granodiorite with local zones of weak propylitic and trace potassic alteration. Quartz vuggy veins, carbonate infilled veins, and pyrite bearing veinlets are locally observed throughout interval. Veins on interval are ~ 80 degrees TCA. Largest vein one occurs in propylitic altered granodiorite section @ 250.44-250.70m. Vein contains trace, disseminated pyrite and is partially infilled and locally brecciatd by carbonates. (80 degrees TCA vein zone).							
						LT	PK					
						LT	GN		PRO	3I		
						MD	BG		ARG	4I		
253.22	253.93	0.71	POR	MG	light grey, to dark purple porphyry dyke interval. rubbly, fractured dyke interval occurs in light grey, clay altered dyke zones. Light brown, oxidation occurs near the grd-dyke contacts.							
						DK	PU					
						LT	GY					
253.93	260.93	7.00	GRD	MG	strongly argillic granodiorite with intermittent zones of weak to moderate potassic alteration and trace propylitic alteration. Trace vuggy quartz veinlets, light grey quartz and carbonate infilled veinlets are locally oserved throughout interval. Veinlets run about 40 degrees TCA. Trace, disseminated pyrite is oboserved within some veins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	PK					
						MD	BG					
260.93	261.15	0.22	GRD	MG	small, 7 cm,light grey, fine grained dyke intrusion proximal to quartz-rhodocrosite vuggy vein. Polymetallic vein is 7 cm, contains blebby pyrite, trace arsenopyrite, trace sphalerite and possibly galena (sphalerite and galena observed near rhodocrosite zones. Dark grey,quartz hosts minerals and locally brecciates a clear quartz vein, and locally brecciates host grd host. Vein is offset 4 cm, by a light grey carbonitite,infilled fracture. Rhodocrosite surrounding vein displays a vuggy texture with acicular-like intrusions in contact with dark grey mineralized quartz. Coloform bands are also observed in rhodocrosite surrounding vein. Pyrite blebs surround smaller brecciated, quartz clasts within vein zone.							
											Rh	3
						LT	GY				As	0.5
						LT	PK				Py	2
						DK	GY	VU	ARG	3I	Gn	0.5
											Sp	1
261.15	282.65	21.50	GRD	MG	interval comprised of strongly argillic granodiorite with local zones of weak to moderate potassic alteration and trace to weak propylitic alteration. Zones of trace potassic, trace propylitic , relatively unaltered granodiorite are observed as well containing propylitic, potassic alteration halos near stringer veins. Veins on interval range from 40 - 80 degrees TCA and contain blebby pyrite and local galena,arsenopyrite and sphalerite within rhodocrosite and ankerite infilled veins. A 2 cm, light red, aplite dyke intrusion (35 degrees TCA) is observed at 279m in trace potassic, propylitic granodiorite and a 5 cm, aplite dyke intrusions (35 degrees TCA) occurs within argillic/trace propylitic zone. Gouged, brecciated section occurs at 280.66-280.83m							
											Gn	1
											Rh	1
						LT	PK		PRO	2I	Sp	1
						MD	BG		POT	2I	Py	2
						LT	GN		ARG	4I	As	0.5
											Ak	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
282.65	310.23	27.58	GRD	MG	interval comprised of intermittent zones of weak to moderate propylitic, argillic, trace potassic granodiorite and weak to moderate potassic, moderate argillic granodiorite. Overall interval exhibits increased porpylitic alteration andincreased stringer veins. Veins locally host, blebby pyrite and trace, sub-mm, sphalerite , galena and arsenopyrite. Gouged , weakly sheared stringer vein interval also occur throughout interval.							
						LT	PK		ARG	4I	Gn	0.5
						MD	GN		PRO	3I	Py	1
						MD	BG		POT	2I	Sp	0.5
											As	0.5
310.23	315.77	5.54	POR	MG	grey/purple sections of quartz feldspar porphyry dyke .Vein apears clay altered proximal to grd-dyke contact. Gouged, brecciated sections are locally observed on dyke interval. 2-7mm, quarts veinlets locally brecciating host dyke unit are commonly oserved near grd-dyke contact and appear to locally brecciate host dyke unit.							
						MD	GY		CLY	2I		
						DK	PU					
315.77	317.48	1.71	GRD	MG	moderately argillic, trace potassic granodiorite with local zones of moderate propylitic granodiorite. Sheared fabric is observed in grd interval proximal to gouged brecciated contact. Trace 1-2 mm, quartz-carbonate veinletsn(70 degrees TCA) are observed on interval. Fine grained, greenish/purple inclusion is observed at 316.50m.							
						MD	BG		PRO	3I		
						DK	GN	SH	ARG	3I		
317.48	327.84	10.36	POR	MG	quartz feldspar porphyry dyke interval with local vuggy, clay altered, fractured and gouged brecciated zones. Euhedral quartz crystals are observed tihin vugs in quartz feldspar porphyry interval. carbonite-quartz veinlets(80 degrees tca) are locally observed in clay altered quartz feldspar porphyry dyke zone proximal to grd-dyke contact.							
						DK	PU	VU	CLY	2I		
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
327.84	331.50	3.66	GRD	MG	strongly argillic granodiorite with local zones of moderate propylitic and weak potassic alteration. 4-9 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed. A low angle,30 degrees TCA, quartz vein is partially infilled and brecciated by ankerite and calcite. Light grey, carbonate veinlet infill is observed in granodiorite interval as well. Thin, light-grey,soft gougy seams are observed in lower interval zone.							
331.50	333.52	2.02	POR	MG	grey/purple , quartz feldspar porphyry dyke interval with gouge brecciated , fractured, rubbly zones. (rubbly zone as faulted contact with granodiorite unit at 333.52m).							
333.52	342.00	8.48	GRD	MG	strongly argillic, weakly potassic granodiorite with intermittent zones of moderate potassic, trace propylitic alteration . From 334.49-334.79m, 3mm-2cm quartz veins occur in argillic/propylitic grd section. Dark grey, fine grained bands within vein zone locally host fine grained pyrite. Light pink, rhodocrosite , locally brecciates clear quartz vein. Trace sub-mm, sphalerite is spatially associated with rhodocrosite vein infill zones.							
						MD	PK		PRO	1I	Py	1
						MD	BG		POT	3I	Rh	2
						LT	GN		ARG	3I	Sp	0.25
342.00	345.50	3.50	GRD	MG	interval comprised of strongly argillic, trace propylitic granodiorite with intermittent zones of trace potassic,propylitic,relatively unaltered granodiorite and moderate argillic, weakly potassic granodiorite. 2mm-2cm, quartz-carbonate (60 degrees TCA) , veins are observed in altered granodiorite sections. Trace, blebby and disseminatedpyriteis locally hosted in dark, grey , fine grained veinlets within vein zones. Trace , sub-mm galena and sphalerite are locally observed in 70 degrees TCA, quartz vein at 344.70m, and contains light pink, rhodocrosite as thin inclusions, at the quartz vein boundaries. Minor, light grey, gouged brecciatedseams are also observed on interval. calcite infilling fractures is also comonly occurring throught interval,in particular, within altered grd zones.							
						MD	BG		POT	2I	Rh	1
						MD	PK		PRO	1I	Sp	0.25

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.25
						LT	GN		ARG	2I	Py	0.5
345.50	372.89	27.39	GRD	MG	black/white, unaltered granodiorite interval with intermittent zones of moderately argillic, potassic and moderate propylitic alteration (propylitic alteration zones occur mostly as alteration halos near 4-5mm, quartz-carbonate veinlets.							
372.89	393.00	20.11	GRD	MG	Interval comprised of relatively unaltered granodiorite and intermittent zones of moderate potassic,argillic and moderate propylitic, argillic alteration. Quartz-carbonate veins within propylitic altered granodiorite locally host bleby pyrite, trace galena and sphalerite. Veinlets at 375m, are 80 degrees TCA, contain blebby pyrite and sphalerite and sub-mm galena, and are partially infilled and locally brecciated by ankerite. Ankerite appears to replace calcite infilled veinlets as well. Trace disseminatd pyrite is also hosted within propylitic altered granodiorite. Vein at 380.20 is 30 degrees TCA, and locally hosts pyrite, galena, sphalerite and trace arseno pyrite within dark grey, quartz vein zone. Cleat quartz is observedwithin polymetallic vein and minor rhodocrosite and calcite infill is present in both veins.							
						MD	BG		POT	2I	Ak	1
						LT	PK		ARG	2I	Sp	1
						MD	GN		PRO	3I	As	0.25
											Py	2
											Gn	0.5
											Rh	0.5
393.00	403.71	10.71	GRD	MG	interval comprised of strongly argillic, weakly potassic granodiorite and intermittent zones of moderately propylitic,argillic granodiorite and trace potassic, relatively unaltered granodiorite. Quartz-carbonate veinlets are more prominent in propylitic altered granodiorite zones (i.e. 402m, 80 degrees TCA). A low angle veinlets is observed at 401 m in potassic altered granodiorite zone. (20 degrees TCA). Vein zone appears to locally brecciate host grd.							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.91	0.91	0	0	0.00	0	--	--	--	
0.91	1.52	0.61	0.61	100	0.00	0	--	--	--	OVB
1.52	3.04	1.52	1.3	86	0.67	44	--	4H	1W	OVB
3.04	4.57	1.53	1.33	87	1.10	72	--	4H	1W	
4.57	6.09	1.52	1.43	94	0.74	49	--	4H	2W	
6.09	7.62	1.53	1.53	100	1.25	82	--	3H	3W	
7.62	9.14	1.52	1.48	97	0.87	57	--	3H	3W	
9.14	10.67	1.53	1.52	99	1.04	68	--	4H	3W	
10.67	12.19	1.52	1.37	90	1.16	76	--	3H	2W	
12.19	13.72	1.53	1.53	100	1.15	75	--	3H	3W	
13.72	15.24	1.52	1.45	95	1.21	80	--	3H	2W	
15.24	16.76	1.52	1.52	100	1.17	77	--	3H	2W	
16.76	18.29	1.53	1.47	96	1.07	70	--	3H	2W	
18.29	19.81	1.52	1.49	98	1.44	95	--	3H	2W	
19.81	21.34	1.53	1.48	97	1.32	86	--	3H	2W	
21.34	22.86	1.52	1.49	98	1.24	82	--	3H	3W	
22.86	24.38	1.52	1.52	100	1.13	74	--	4H	1W	
24.38	25.91	1.53	1.53	100	1.13	74	--	4H	1W	
25.91	27.43	1.52	1.4	92	1.21	80	--	3H	1W	
27.43	28.96	1.53	1.52	99	1.27	83	--	3H	1W	
28.96	30.48	1.52	1.51	99	0.77	51	--	3H	1W	
30.48	32.00	1.52	1.52	100	1.14	75	--	3H	1W	
32.00	33.53	1.53	1.42	93	1.03	67	--	3H	1W	
33.53	35.05	1.52	1.51	99	1.34	88	--	3H	1W	
35.05	36.58	1.53	1.52	99	1.35	88	--	3H	1W	
36.58	39.62	3.04	2.86	94	2.73	90	--	3H	1W	
39.62	42.67	3.05	2.82	92	2.24	73	--	4H	1W	
42.67	45.72	3.05	2.88	94	2.48	81	--	4H	1W	
45.72	48.77	3.05	2.91	95	2.72	89	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
48.77	51.82	3.05	2.91	95	2.70	89	--	3H	2W	
51.82	53.34	1.52	1.42	93	0.98	64	--	3H	2W	
53.34	56.39	3.05	2.83	93	2.00	66	--	4H	2W	
56.39	57.91	1.52	1.35	89	0.92	61	--	3H	2W	
57.91	60.05	2.14	2.03	95	0.74	35	--	4H	1W	
60.05	61.87	1.82	1.78	98	1.01	55	--	3H	1W	
61.87	64.31	2.44	2.38	98	2.14	88	--	4H	1W	
64.31	65.84	1.53	1.52	99	0.97	63	--	4H	1W	
65.84	68.58	2.74	2.66	97	1.52	55	--	4H	1W	
68.58	70.41	1.83	1.83	100	1.39	76	--	3H	1W	
70.41	73.15	2.74	2.59	95	2.03	74	--	3H	1W	
73.15	74.27	1.12	1.1	98	0.70	63	--	4H	1W	
74.27	77.42	3.15	3.05	97	2.06	65	--	4H	2W	
77.42	79.70	2.28	2.13	93	1.21	53	--	4H	2W	
79.70	82.30	2.60	2.45	94	1.88	72	--	3H	1W	
82.30	84.88	2.58	2.55	99	1.86	72	--	3H	1W	
84.88	88.08	3.20	3.02	94	2.50	78	--	4H	1W	
88.08	90.32	2.24	2.14	96	1.51	67	--	4H	1W	
90.32	91.74	1.42	1.42	100	0.71	50	--	4H	1W	
91.74	94.18	2.44	2.34	96	1.69	69	--	4H	1W	
94.18	96.62	2.44	2.33	95	1.63	67	--	4H	1W	
96.62	99.06	2.44	2	82	2.00	82	--	4H	1W	
99.06	102.11	3.05	3	98	2.30	75	--	3H	1W	
102.11	103.63	1.52	1.42	93	0.97	64	--	4H	1W	
103.63	105.00	1.37	1.14	83	0.61	45	--	4H	1W	
105.00	106.38	1.38	0.69	50	0.33	24	--	4H	1W	
106.38	106.98	0.60	0.23	38	0.00	0	--	4H	1W	
106.98	109.73	2.75	2.75	100	2.46	89	--	4H	1W	
109.73	111.56	1.83	1.69	92	1.35	74	--	4H	1W	
111.56	114.30	2.74	2.61	95	1.87	68	--	4H	1W	
114.30	117.35	3.05	3.05	100	2.73	90	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
117.35	120.40	3.05	2.92	96	2.35	77	--	4H	1W	
120.40	123.44	3.04	2.84	93	2.45	81	--	4H	1W	
123.44	126.49	3.05	3.03	99	2.17	71	--	4H	1W	
126.49	128.47	1.98	1.61	81	1.19	60	--	3H	1W	
128.47	129.54	1.07	0.89	83	0.20	19	--	4H	1W	
129.54	132.59	3.05	2.64	87	1.72	56	--	4H	1W	
132.59	134.11	1.52	1.49	98	0.67	44	--	4H	1W	
134.11	137.16	3.05	2.88	94	2.55	84	--	4H	1W	
137.16	138.68	1.52	1.52	100	1.49	98	--	3H	1W	
138.68	141.73	3.05	2.89	95	2.26	74	--	3H	1W	
141.73	144.78	3.05	3.05	100	2.21	72	--	3H	1W	
144.78	147.83	3.05	3.05	100	2.62	86	--	3H	1W	
147.83	150.88	3.05	3.05	100	2.89	95	--	4H	1W	
150.88	153.92	3.04	3.02	99	2.83	93	--	3H	1W	
153.92	156.97	3.05	3.05	100	3.01	99	--	4H	1W	
156.97	160.02	3.05	3.05	100	2.39	78	--	3H	1W	
160.02	163.07	3.05	2.9	95	2.12	70	--	4H	1W	
163.07	164.59	1.52	1.52	100	0.83	55	--	3H	1W	
164.59	167.64	3.05	3	98	2.06	68	--	3H	1W	
167.64	170.69	3.05	3.02	99	2.62	86	--	3H	1W	
170.69	173.74	3.05	3.04	100	2.95	97	--	3H	1W	
173.74	176.78	3.04	3.04	100	2.70	89	--	3H	1W	
176.78	179.83	3.05	2.98	98	2.57	84	--	3H	1W	
179.83	182.88	3.05	3.03	99	2.16	71	--	3H	1W	
182.88	185.93	3.05	2.98	98	2.43	80	--	3H	1W	
185.93	188.98	3.05	3.01	99	2.12	70	--	3H	1W	
188.98	192.02	3.04	3.03	100	2.80	92	--	3H	1W	
192.02	195.07	3.05	2.94	96	2.88	94	--	3H	1W	
195.07	198.12	3.05	2.99	98	2.37	78	--	3H	1W	
198.12	201.17	3.05	3.02	99	2.26	74	--	3H	1W	
201.17	204.22	3.05	3.02	99	2.49	82	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
204.22	207.26	3.04	3.01	99	2.58	85	--	3H	1W	
207.26	210.31	3.05	3.01	99	2.68	88	--	3H	1W	
210.31	213.36	3.05	3.02	99	2.94	96	--	3H	1W	
213.36	216.41	3.05	3.05	100	2.73	90	--	3H	1W	
216.41	219.00	2.59	2.42	93	1.21	47	--	4H	1W	
219.00	222.05	3.05	3.05	100	2.89	95	--	4H	1W	
222.05	224.94	2.89	2.87	99	2.01	70	--	3H	1W	
224.94	227.53	2.59	2.36	91	1.20	46	--	4H	1W	
227.53	230.12	2.59	2.52	97	1.58	61	--	3H	1W	
230.12	233.17	3.05	2.87	94	2.20	72	--	3H	1W	
233.17	236.22	3.05	3.05	100	2.90	95	--	3H	1W	
236.22	239.27	3.05	3.05	100	3.00	98	--	3H	1W	
239.27	242.32	3.05	2.99	98	2.82	92	--	3H	1W	
242.32	245.36	3.04	3.03	100	2.96	97	--	3H	1W	
245.36	248.41	3.05	2.96	97	2.43	80	--	4H	1W	
248.41	251.46	3.05	3.05	100	2.31	76	--	3H	1W	
251.46	254.51	3.05	3.03	99	2.20	72	--	3H	1W	
254.51	257.56	3.05	3.05	100	2.24	73	--	3H	1W	
257.56	260.60	3.04	3.01	99	2.82	93	--	3H	1W	
260.60	263.65	3.05	3.05	100	2.67	88	--	3H	1W	
263.65	266.70	3.05	3.02	99	2.60	85	--	3H	1W	
266.70	269.75	3.05	3.05	100	3.01	99	--	3H	1W	
269.75	272.80	3.05	3.05	100	2.93	96	--	3H	1W	
272.80	275.84	3.04	3.02	99	2.87	94	--	3H	1W	
275.84	278.89	3.05	3.01	99	2.91	95	--	4H	1W	
278.89	281.94	3.05	2.92	96	2.79	91	--	3H	1W	
281.94	284.99	3.05	3.05	100	3.05	100	--	4H	1W	
284.99	288.04	3.05	3.05	100	2.23	73	--	3H	1W	
288.04	291.08	3.04	2.98	98	2.83	93	--	3H	1W	
291.08	294.43	3.35	3.01	90	2.87	86	--	3H	1W	
294.43	297.18	2.75	2.75	100	2.19	80	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
297.18	300.23	3.05	3.03	99	2.61	86	--	3H	1W	
300.23	303.26	3.03	3.03	100	2.96	98	--	3H	1W	
303.26	306.32	3.06	3.02	99	2.91	95	--	3H	1W	
306.32	309.37	3.05	3.05	100	2.88	94	--	3H	1W	
309.37	312.42	3.05	2.9	95	2.49	82	--	3H	1W	
312.42	315.47	3.05	2.97	97	2.04	67	--	3H	1W	
315.47	318.52	3.05	3.05	100	2.71	89	--	3H	1W	
318.52	320.95	2.43	2.41	99	1.96	81	--	3H	1W	
320.95	321.56	0.61	0.57	93	0.32	52	--	4H	1W	
321.56	324.61	3.05	2.97	97	1.56	51	--	4H	1W	
324.61	326.44	1.83	1.8	98	0.97	53	--	3H	1W	
326.44	329.18	2.74	2.67	97	1.44	53	--	3H	1W	
329.18	332.23	3.05	2.96	97	1.61	53	--	3H	1W	
332.23	333.15	0.92	0.92	100	0.67	73	--	3H	1W	
333.15	336.19	3.04	2.88	95	1.87	62	--	3H	1W	
336.19	338.33	2.14	2.04	95	1.95	91	--	3H	1W	
338.33	341.38	3.05	2.98	98	2.53	83	--	3H	1W	
341.38	344.42	3.04	3.04	100	2.89	95	--	3H	1W	
344.42	347.47	3.05	3.01	99	2.81	92	--	4H	1W	
347.47	350.52	3.05	3.05	100	2.91	95	--	4H	1W	
350.52	353.26	2.74	2.66	97	2.49	91	--	4H	1W	
353.26	356.31	3.05	3.05	100	2.65	87	--	4H	1W	
356.31	359.36	3.05	3.05	100	2.70	89	--	4H	1W	
359.36	361.19	1.83	1.65	90	1.08	59	--	4H	1W	
361.19	364.24	3.05	3.05	100	2.70	89	--	4H	1W	
364.24	367.28	3.04	3.04	100	3.04	100	--	4H	1W	
367.28	370.33	3.05	2.91	95	2.80	92	--	4H	1W	
370.33	373.38	3.05	2.9	95	2.74	90	--	4H	1W	
373.38	376.43	3.05	2.76	90	1.89	62	--	4H	1W	
376.43	379.48	3.05	3.05	100	2.87	94	--	3H	1W	
379.48	382.52	3.04	2.94	97	2.58	85	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
382.52	385.57	3.05	3.01	99	2.70	89	--	4H	1W	
385.57	388.62	3.05	3.05	100	2.80	92	--	4H	1W	
388.62	391.67	3.05	3.05	100	2.74	90	--	4H	1W	
391.67	394.72	3.05	2.99	98	2.74	90	--	3H	1W	
394.72	397.76	3.04	2.9	95	2.07	68	--	3H	1W	
397.76	400.81	3.05	3.05	100	2.34	77	--	3H	1W	
400.81	402.34	1.53	1.53	100	1.25	82	--	3H	1W	
402.34	403.71	1.37	1.37	100	1.28	93	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0.469	OVB	OVB
2	16.69	OVB	
3	20.54	OVB	
4	19.35	GRD	
5	18.08	GRD	
6	17.31	GRD	
7	0.25	GRD	
8	0.27	GRD	
9	16.07	GRD	
10	14.96	GRD	
11	0.322	GRD	
12	0.364	GRD	
13	0.155	GRD	
14	0.205	GRD	
15	0.213	GRD	
16	0.334	GRD	
17	0.331	GRD	
18	0.286	GRD	
19	0.189	GRD	
20	0.266	GRD	
21	1.138	GRD	
22	1.096	GRD	
23	7.285	GRD	
24	9.993	GRD	
25	0.277	GRD	
26	0.256	GRD	
27	0.17	GRD	
28	11.3	GRD	
29	4.338	GRD	
30	0.266	GRD	
31	7.924	GRD	
32	1.553	GRD	
33	16.69	GRD	
34	12.57	GRD	
35	17.16	GRD	
36	0.537	GRD	
37	0.362	GRD	
38	1.908	GRD	
39	0.312	GRD	
40	6.984	GRD	
41	16.33	GRD	
42	0.449	GRD	
43	0.358	GRD	
44	9.858	GRD	
45	10.59	GRD	
46	3.432	GRD	
47	8.926	GRD	
48	0.45	GRD	
49	0.322	GRD	
50	0.448	GRD	
51	0.317	GRD	
52	7.954	GRD	
53	14.37	GRD	
54	0.351	GRD	
55	0.348	GRD	
56	8.251	GRD	
57	0.409	GRD	
58	7.51	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	13.79	GRD	
60	0.916	GRD	
61	16.46	GRD	
62	5.683	GRD	
63	7.405	GRD	
64	8.598	GRD	
65	1.231	GRD	
66	0.422	GRD	
67	3.231	GRD	
68	8.046	GRD	
69	11.77	GRD	
70	6.583	GRD	
71	1.221	GRD	
72	4.728	GRD	
73	0.6	GRD	
74	1.002	GRD	
75	7.832	GRD	
76	8.779	GRD	
77	0.982	GRD	
78	7.187	GRD	
79	11.42	GRD	
80	6.165	GRD	
81	0.111	GRD	
82	0.462	GRD	
83	0.296	GRD	
84	0.279	GRD	
85	3.928	GRD	
86	11.18	GRD	
87	10.21	GRD	
88	11.45	GRD	
89	10.2	GRD	
90	14.7	GRD	
91	13.64	GRD	
92	12.16	GRD	
93	10.01	GRD	
94	19.48	GRD	
95	9.948	GRD	
96	18.58	GRD	
97	3.317	GRD	
98	1.741	GRD	
99	0.355	GRD	
100	0.31	GRD	
101	13.8	GRD	
102	10.97	GRD	
103	11.97	GRD	
104	12.44	GRD	
105	9.26	GRD	
106	10.33	GRD	
107	18.56	GRD	
108	15.43	GRD	
109	11.93	GRD	
110	12.23	GRD	
111	11.71	GRD	
112	18.04	GRD	
113	16.46	GRD	
114	8.31	GRD	
115	10.21	GRD	
116	8.999	GRD	
117	9.042	GRD	
118	14.52	GRD	
119	11.12	GRD	
120	10.58	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	15.07	GRD	
122	0.63	GRD	
123	17.37	GRD	
124	10.94	GRD	
125	10.34	GRD	
126	0.376	GRD	
127	0.443	GRD	
128	14.08	GRD	
129	8.845	GRD	
130	10.07	GRD	
131	9.532	GRD	
132	0.753	GRD	
133	14.08	GRD	
134	1.945	GRD	
135	3.361	GRD	
136	7.51	GRD	
137	0.61	GRD	
138	0.471	GRD	
139	6.417	GRD	
140	16.86	GRD	
141	9.53	GRD	
142	7.661	GRD	
143	0.552	GRD	
144	0.424	GRD	
145	1.374	GRD	
146	0.21	GRD	
147	0.187	GRD	
148	0.489	GRD	
149	8.946	GRD	
150	0.301	GRD	
151	9.024	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
152	0.653	GRD	
153	0.397	GRD	
154	8.034	GRD	
155	0.186	GRD	
156	0.23	GRD	
157	3.451	GRD	
158	6.499	GRD	
159	0.493	GRD	
160	5.152	GRD	
161	0.301	GRD	
162	0.232	GRD	
163	0.209	GRD	
164	0.457	GRD	
165	0.273	GRD	
166	0.671	GRD	
167	0.187	GRD	
168	0.761	GRD	
169	0.282	GRD	
170	0.458	GRD	
171	0.606	GRD	
172	0.239	GRD	
173	0.631	GRD	
174	0.291	GRD	
175	0.441	GRD	
176	0.217	GRD	
177	0.157	GRD	
178	0.308	GRD	
179	0.264	GRD	
180	0.227	GRD	
181	1.622	GRD	
181	1.622	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
182	14.44	GRD	
183	6.658	GRD	
184	0.356	GRD	
185	0.142	GRD	
186	0.104	POR	
187	0.146	POR	
188	0.244	POR	
189	0.246	POR	
190	0.386	POR	
191	0.262	GRD	
192	0.581	GRD	
193	0.358	GRD	
194	0.298	GRD	
195	0.354	GRD	
196	2.372	GRD	
197	0.505	GRD	
198	0.233	GRD	
199	0.606	GRD	
200	0.303	GRD	
201	0.225	GRD	
202	0.249	GRD	
203	0.523	GRD	
204	5.333	GRD	
205	0.499	GRD	
206	0.48	GRD	
207	0.21	GRD	
208	0.313	GRD	
209	0.179	GRD	
210	0.308	GRD	
211	0.35	GRD	
212	0.407	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
213	4.106	GRD	
214	0.728	GRD	
215	0.214	GRD	
216	0.682	GRD	
217	0.221	GRD	
218	4.285	GRD	
219	6.205	GRD	
220	4.556	GRD	
221	5.25	GRD	
222	0.305	GRD	
223	0.413	GRD	
224	2.657	GRD	
225	8.936	GRD	
226	14.47	GRD	
227	0.516	GRD	
228	0.28	GRD	
229	0.151	GRD	
230	0.152	GRD	
231	0.183	GRD	
232	0.203	GRD	
233	0.254	GRD	
234	0.404	GRD	
235	0.563	GRD	
236	0.239	GRD	
237	0.202	GRD	
238	0.268	GRD	
239	0.198	GRD	
240	0.263	GRD	
241	0.153	GRD	
242	0.396	GRD	
243	0.194	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
244	0.359	GRD	
245	0.47	GRD	
246	0.339	GRD	
247	4.497	GRD	
248	11.11	GRD	
249	5.434	GRD	
250	0.294	GRD	
251	0.336	GRD	
252	0.388	GRD	
253	0.355	GRD	
254	0.222	GRD	
255	0.191	GRD	
256	0.436	GRD	
257	0.413	GRD	
258	0.114	GRD	
259	0.521	GRD	
260	0.165	GRD	
261	0.25	GRD	
262	0.665	GRD	
263	0.22	GRD	
264	0.324	GRD	
265	0.377	GRD	
266	0.161	GRD	
267	3.558	GRD	
268	0.279	GRD	
269	0.355	GRD	
270	0.194	GRD	
271	0.138	GRD	
272	0.298	GRD	
273	0.14	GRD	
274	0.244	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
275	0.2	GRD	
276	2.123	GRD	
277	0.262	GRD	
278	0.633	GRD	
279	0.292	GRD	
280	0.305	GRD	
281	0.152	GRD	
282	0.17	GRD	
283	0.211	GRD	
284	1.685	GRD	
285	0.444	GRD	
286	0.236	GRD	
287	0.414	GRD	
288	0.783	GRD	
289	0.248	GRD	
290	0.21	GRD	
291	0.296	GRD	
292	0.201	GRD	
293	0.239	GRD	
294	0.274	GRD	
295	2.289	GRD	
296	0.367	GRD	
297	0.468	GRD	
298	0.146	GRD	
299	0.205	GRD	
300	0.384	GRD	
301	0.177	GRD	
302	0.235	GRD	
303	0.212	GRD	
304	0.324	GRD	
305	0.346	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
306	0.144	GRD	
307	0.63	GRD	
308	0.2	GRD	
309	0.233	GRD	
310	0.144	GRD	
311	0.151	POR	
312	0.23	POR	
313	0.364	POR	
314	0.234	POR	
315	0.112	POR	
316	0.431	GRD	
317	0.16	GRD	
318	0.121	POR	
319	0.144	POR	
320	0.117	POR	
321	0.199	POR	
322	0.242	POR	
323	0.137	POR	
324	0.485	POR	
325	0.128	POR	
326	0.159	POR	
327	0.224	POR	
328	0.329	GRD	
329	0.509	GRD	
330	0.205	GRD	
331	0.164	GRD	
332	0.154	POR	
333	0.39	POR	
334	0.249	GRD	
335	0.306	GRD	
336	0.594	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
337	0.408	GRD	
338	0.199	GRD	
339	0.258	GRD	
340	0.143	GRD	
341	0.387	GRD	
342	0.293	GRD	
342	0.293	GRD	
343	7.089	GRD	
344	0.55	GRD	
345	9.133	GRD	
346	18.49	GRD	
347	9.573	GRD	
348	6.806	GRD	
349	11.12	GRD	
350	14.95	GRD	
351	14.18	GRD	
352	7.473	GRD	
353	13.39	GRD	
354	10.96	GRD	
355	14.98	GRD	
356	14.16	GRD	
357	6.901	GRD	
358	10.05	GRD	
359	11.04	GRD	
360	0.363	GRD	
361	5.525	GRD	
362	11.48	GRD	
363	14.6	GRD	
364	12.13	GRD	
365	8.338	GRD	
366	9.385	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
367	4.269	GRD	
368	13.23	GRD	
369	18.13	GRD	
370	11.16	GRD	
371	16.27	GRD	
372	13.9	GRD	
373	11.37	GRD	
374	13.13	GRD	
375	8.252	GRD	
376	11.28	GRD	
377	5.402	GRD	
378	12.12	GRD	
379	8.188	GRD	
380	9.133	GRD	
381	9.649	GRD	
382	16.58	GRD	
383	14.01	GRD	
384	19.36	GRD	
385	6.338	GRD	
386	2.137	GRD	
387	0.493	GRD	
388	14.08	GRD	
389	9.974	GRD	
390	8.256	GRD	
391	0.625	GRD	
392	14.33	GRD	
393	0.614	GRD	
393	0.614	GRD	
394	0.214	GRD	
395	0.249	GRD	
396	0.273	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
397	0.56	GRD	
398	0.823	GRD	
399	9.045	GRD	
400	0.472	GRD	
401	0.386	GRD	
402	0.28	GRD	
403	0.313	GRD	EOH

KL -19-455

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593853	☐	19-074	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W603596	☐	19-055	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593904	☐	19-077	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593656	☐	19-059	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593861	☐	19-074	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593850	☐	19-073	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593838	☐	19-073	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593822	☐	19-073	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593795	☐	19-067	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593785	☐	19-067	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593771	☐	19-064	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593752	☐	19-064	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593744	☐	19-064	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593719	☐	19-060	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593886	☐	19-074	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593713	☐	19-060	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593706	☐	19-060	low grade	ME-6	☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593679	☐	19-059	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593672	☐	19-059	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593778	☐	19-067	low grade	KL-STD6	☐	☐	☐
6.61	7.31	0.70	GRD	0.70	100	W603595	☐	19-055	low grade		☐	☐	☐
7.31	8.23	0.92	GRD	0.45	49	W603597	☐	19-055	low grade		☐	☐	☐
8.23	8.87	0.64	GRD	0.59	92	W603598	☐	19-055	low grade		☐	☐	☐
8.87	10.67	1.80	GRD	1.80	100	W603599	☐	19-055	low grade		☐	☐	☐
10.67	12.39	1.72	GRD	1.59	92	W603600	☐	19-055	low grade		☐	☐	☐
12.39	12.87	0.48	GRD	0.48	100	W593651	☐	19-055	low grade		☐	☐	☐
12.87	13.80	0.93	GRD	0.93	100	W593652	☐	19-059	low grade		☐	☐	☐
13.80	14.50	0.70	GRD	0.69	99	W593653	☐	19-059	low grade		☐	☐	☐
14.50	16.00	1.50	GRD	1.50	100	W593654	☐	19-059	low grade		☐	☐	☐
16.00	17.50	1.50	GRD	1.50	100	W593655	☐	19-059	low grade		☐	☐	☐
17.50	18.60	1.10	GRD	1.06	96	W593657	☐	19-059	low grade		☐	☐	☐
18.60	19.84	1.24	GRD	1.24	100	W593658	☐	19-059	low grade		☐	☐	☐
19.84	21.34	1.50	GRD	1.37	91	W593659	☐	19-059	low grade		☐	☐	☐
21.34	22.86	1.52	GRD	1.52	100	W593660	☐	19-059	low grade		☐	☐	☐
22.86	25.40	2.54	GRD	2.52	99	W593661	☐	19-059	low grade		☐	☐	☐
25.40	26.85	1.45	GRD	1.35	93	W593662	☐	19-059	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
25.40	26.85	1.45	GRD	1.35	93	W593663	☐	19-059	low grade		☐	☐	☑
26.85	27.93	1.08	GRD	1.08	100	W593664	☐	19-059	low grade		☐	☐	☐
27.93	30.12	2.19	GRD	2.19	100	W593665	☐	19-059	low grade		☐	☐	☐
30.12	31.12	1.00	GRD	1.00	100	W593666	☐	19-059	low grade		☐	☐	☐
37.00	38.88	1.88	GRD	1.79	95	W593667	☐	19-059	low grade		☐	☐	☐
38.88	39.90	1.02	GRD	1.02	100	W593668	☐	19-059	low grade		☐	☐	☐
39.90	41.84	1.94	GRD	1.94	100	W593669	☐	19-059	low grade		☐	☐	☐
41.84	42.38	0.54	GRD	0.52	96	W593670	☐	19-059	low grade		☐	☐	☐
42.38	43.46	1.08	GRD	1.06	98	W593671	☐	19-059	low grade		☐	☐	☐
43.46	44.88	1.42	GRD	1.36	96	W593673	☐	19-059	low grade		☐	☐	☐
47.43	48.77	1.34	GRD	1.25	93	W593674	☐	19-059	low grade		☐	☐	☐
48.77	49.19	0.42	GRD	0.42	100	W593675	☐	19-059	low grade		☐	☐	☐
49.19	50.67	1.48	GRD	1.36	92	W593676	☐	19-059	low grade		☐	☐	☐
50.67	53.34	2.67	GRD	2.65	99	W593677	☐	19-059	low grade		☐	☐	☐
53.34	54.31	0.97	GRD	0.97	100	W593678	☐	19-059	low grade		☐	☐	☐
54.31	54.94	0.63	GRD	0.63	100	W593680	☐	19-059	low grade		☐	☐	☐
54.94	55.84	0.90	GRD	0.90	100	W593681	☐	19-059	low grade		☐	☐	☐
55.84	56.58	0.74	GRD	0.74	100	W593682	☐	19-059	low grade		☐	☐	☐
56.58	57.60	1.02	GRD	1.02	100	W593683	☐	19-059	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
63.80	64.77	0.97	GRD	0.97	100	W593684	☐	19-059	low grade		☐	☐	☐
64.77	65.84	1.07	GRD	1.05	98	W593685	☐	19-059	low grade		☐	☐	☐
64.77	65.84	1.07	GRD	1.05	98	W593686	☐	19-059	low grade		☐	☑	☐
65.84	67.45	1.61	GRD	1.57	98	W593687	☐	19-059	low grade		☐	☐	☐
67.45	68.58	1.13	GRD	1.07	95	W593688	☐	19-059	low grade		☐	☐	☐
79.00	80.37	1.37	GRD	1.33	97	W593689	☐	19-059	low grade		☐	☐	☐
80.37	81.12	0.75	GRD, GRD	0.75	100	W593690	☐	19-059	low grade		☐	☐	☐
81.12	82.00	0.88	GRD	0.88	100	W593691	☐	19-059	low grade		☐	☐	☐
82.00	82.93	0.93	GRD	0.93	100	W593692	☐	19-060	low grade		☐	☐	☐
82.93	84.31	1.38	GRD	1.38	100	W593693	☐	19-060	low grade		☐	☐	☐
84.31	85.53	1.22	GRD	1.21	99	W593694	☐	19-060	low grade		☐	☐	☐
99.64	100.80	1.16	GRD	1.16	100	W593695	☐	19-060	low grade		☐	☐	☐
121.48	124.48	3.00	GRD	2.66	89	W593696	☐	19-060	low grade		☐	☐	☐
124.48	126.00	1.52	GRD	1.51	99	W593697	☐	19-060	low grade		☐	☐	☐
124.48	126.00	1.52	GRD	1.51	99	W593698	☐	19-060	low grade		☐	☑	☐
126.00	126.95	0.95	GRD	0.89	94	W593699	☐	19-060	low grade		☐	☐	☐
126.95	127.37	0.42	GRD	0.40	95	W593700	☐	19-060	low grade		☐	☐	☐
127.37	128.47	1.10	GRD	0.82	75	W593701	☐	19-060	low grade		☐	☐	☐
128.47	130.47	2.00	GRD	1.77	89	W593702	☐	19-060	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
130.47	131.80	1.33	GRD	1.11	83	W593703	☐	19-060	low grade		☐	☐	☐
131.80	133.99	2.19	GRD	2.15	98	W593704	☐	19-060	low grade		☐	☐	☐
133.99	136.87	2.88	GRD	2.72	94	W593705	☐	19-060	low grade		☐	☐	☐
136.87	139.22	2.35	GRD	2.34	100	W593707	☐	19-060	low grade		☐	☐	☐
139.22	140.30	1.08	GRD	1.02	94	W593708	☐	19-060	low grade		☐	☐	☐
140.30	143.30	3.00	GRD	2.88	96	W593709	☐	19-060	low grade		☐	☐	☐
143.30	144.55	1.25	GRD	1.24	99	W593710	☐	19-060	low grade		☐	☐	☐
144.55	146.07	1.52	GRD	1.52	100	W593711	☐	19-060	low grade		☐	☐	☐
146.07	146.46	0.39	GRD	0.36	92	W593712	☐	19-060	low grade		☐	☐	☐
146.46	147.24	0.78	GRD	0.76	97	W593714	☐	19-060	low grade		☐	☐	☐
147.24	147.55	0.31	GRD	0.30	97	W593715	☐	19-060	low grade		☐	☐	☐
147.55	150.55	3.00	GRD	3.00	100	W593716	☐	19-060	low grade		☐	☐	☐
150.55	151.90	1.35	GRD	1.30	96	W593717	☐	19-060	low grade		☐	☐	☐
151.90	152.68	0.78	GRD	0.73	94	W593718	☐	19-060	low grade		☐	☐	☐
152.68	155.63	2.95	GRD	2.95	100	W593720	☐	19-060	low grade		☐	☐	☐
155.63	157.35	1.72	GRD	1.69	98	W593721	☐	19-060	low grade		☐	☐	☐
157.35	158.73	1.38	GRD	1.38	100	W593722	☐	19-060	low grade		☐	☐	☐
158.73	159.19	0.46	GRD	0.45	98	W593723	☐	19-060	low grade		☐	☐	☐
159.19	161.22	2.03	GRD	2.03	100	W593724	☐	19-060	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
161.22	162.34	1.12	GRD	1.02	91	W593725	☐	19-060	low grade		☐	☐	☐
162.34	164.34	2.00	GRD	1.96	98	W593726	☐	19-060	low grade		☐	☐	☐
162.34	164.34	2.00	GRD	1.96	98	W593727	☐	19-060	low grade		☐	☐	☑
164.34	166.53	2.19	GRD	2.18	100	W593728	☐	19-060	low grade		☐	☐	☐
166.53	168.15	1.62	GRD	1.62	100	W593729	☐	19-060	low grade		☐	☐	☐
168.15	168.45	0.30	GRD	0.30	100	W593730	☐	19-060	low grade		☐	☐	☐
168.45	169.57	1.12	GRD	1.02	91	W593731	☐	19-060	low grade		☐	☐	☐
169.57	170.90	1.33	GRD	1.33	100	W593732	☐	19-064	low grade		☐	☐	☐
170.90	171.33	0.43	GRD	0.42	98	W593733	☐	19-064	low grade		☐	☐	☐
171.33	172.88	1.55	GRD	1.44	93	W593734	☐	19-064	low grade		☐	☐	☐
172.88	174.89	2.01	GRD	2.01	100	W593735	☐	19-064	low grade		☐	☐	☐
174.89	175.77	0.88	GRD	0.87	99	W593736	☐	19-064	low grade		☐	☐	☐
175.77	177.48	1.71	GRD	1.70	99	W593737	☐	19-064	low grade		☐	☐	☐
175.77	177.48	1.71	GRD	1.70	99	W593738	☐	19-064	low grade		☐	☑	☐
177.48	178.29	0.81	GRD	0.80	99	W593739	☐	19-064	low grade		☐	☐	☐
190.55	192.02	1.47	GRD, POR	1.45	99	W593740	☐	19-064	low grade		☐	☐	☐
192.02	193.80	1.78	GRD	1.14	64	W593741	☐	19-064	low grade		☐	☐	☐
193.80	194.11	0.31	GRD	0.30	97	W593742	☐	19-064	low grade		☐	☐	☐
194.11	194.66	0.55	GRD	0.52	95	W593743	☐	19-064	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
194.66	195.28	0.62	GRD	0.59	95	W593745	☐	19-064	low grade		☐	☐	☐
195.28	197.39	2.11	GRD	2.07	98	W593746	☐	19-064	low grade		☐	☐	☐
197.39	198.12	0.73	GRD	0.69	95	W593747	☐	19-064	low grade		☐	☐	☐
198.12	199.00	0.88	GRD	0.83	94	W593748	☐	19-064	low grade		☐	☐	☐
199.00	200.00	1.00	GRD	1.00	100	W593749	☐	19-064	low grade		☐	☐	☐
200.00	201.66	1.66	GRD	1.65	99	W593750	☐	19-064	low grade		☐	☐	☐
201.66	202.16	0.50	GRD	0.46	92	W593751	☐	19-064	low grade		☐	☐	☐
202.16	202.78	0.62	GRD	0.61	98	W593753	☐	19-064	low grade		☐	☐	☐
202.78	203.14	0.36	GRD	0.34	94	W593754	☐	19-064	low grade		☐	☐	☐
203.14	203.44	0.30	GRD	0.30	100	W593755	☐	19-064	low grade		☐	☐	☐
203.44	204.22	0.78	GRD	0.77	99	W593756	☐	19-064	low grade		☐	☐	☐
204.22	205.11	0.89	GRD, GRD	0.82	92	W593807	☐	19-067	low grade		☐	☐	☐
205.11	207.56	2.45	GRD	1.35	55	W593757	☐	19-064	low grade		☐	☐	☐
207.56	207.90	0.34	GRD	0.31	91	W593758	☐	19-064	low grade		☐	☐	☐
207.90	208.64	0.74	GRD	0.70	95	W593759	☐	19-064	low grade		☐	☐	☐
208.64	209.14	0.50	GRD	0.48	96	W593760	☐	19-064	low grade		☐	☐	☐
209.14	209.74	0.60	GRD	0.56	93	W593761	☐	19-064	low grade		☐	☐	☐
209.14	209.74	0.60	GRD	0.56	93	W593762	☐	19-064	low grade		☐	☐	☑
209.74	211.16	1.42	GRD	1.37	96	W593763	☐	19-064	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
211.16	212.87	1.71	GRD	1.64	96	W593764	☐	19-064	low grade		☐	☐	☐
212.87	213.56	0.69	GRD	0.68	99	W593765	☐	19-064	low grade		☐	☐	☐
213.56	214.03	0.47	GRD	0.44	94	W593766	☐	19-064	low grade		☐	☐	☐
214.03	215.26	1.23	GRD	1.23	100	W593767	☐	19-064	low grade		☐	☐	☐
215.26	216.41	1.15	GRD	1.12	97	W593768	☐	19-064	low grade		☐	☐	☐
216.41	216.94	0.53	GRD	0.52	98	W593769	☐	19-064	low grade		☐	☐	☐
216.94	219.94	3.00	GRD	2.95	98	W593770	☐	19-064	low grade		☐	☐	☐
219.94	221.34	1.40	GRD	1.36	97	W593772	☐	19-067	low grade		☐	☐	☐
221.34	222.05	0.71	GRD	0.70	99	W593773	☐	19-067	low grade		☐	☐	☐
222.05	223.58	1.53	GRD	1.45	95	W593774	☐	19-067	low grade		☐	☐	☐
223.58	224.14	0.56	GRD	0.56	100	W593775	☐	19-067	low grade		☐	☐	☐
224.14	226.25	2.11	GRD	2.08	99	W593776	☐	19-067	low grade		☐	☐	☐
226.25	229.00	2.75	GRD	2.56	93	W593777	☐	19-067	low grade		☐	☐	☐
229.00	229.89	0.89	GRD	0.87	98	W593779	☐	19-067	low grade		☐	☐	☐
229.89	231.01	1.12	GRD	0.94	84	W593780	☐	19-067	low grade		☐	☐	☐
231.01	232.28	1.27	GRD	1.24	98	W593781	☐	19-067	low grade		☐	☐	☐
232.28	233.71	1.43	GRD	1.43	100	W593782	☐	19-067	low grade		☐	☐	☐
233.71	235.94	2.23	GRD	2.22	100	W593783	☐	19-067	low grade		☐	☐	☐
235.94	238.94	3.00	GRD	3.00	100	W593784	☐	19-067	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
238.94	241.12	2.18	GRD	2.13	98	W593786	☐	19-067	low grade		☐	☐	☐
241.12	241.43	0.31	GRD	0.30	97	W593787	☐	19-067	low grade		☐	☐	☐
241.43	242.52	1.09	GRD	1.05	96	W593788	☐	19-067	low grade		☐	☐	☐
241.43	242.52	1.09	GRD	1.05	96	W593789	☐	19-067	low grade		☐	☑	☐
242.52	244.38	1.86	GRD	1.86	100	W593790	☐	19-067	low grade		☐	☐	☐
244.38	245.36	0.98	GRD	0.95	97	W593791	☐	19-067	low grade		☐	☐	☐
245.36	246.73	1.37	GRD	1.27	93	W593792	☐	19-067	low grade		☐	☐	☐
246.73	247.30	0.57	GRD, GRD	0.49	86	W593793	☐	19-067	low grade		☐	☐	☐
247.30	247.61	0.31	GRD	0.30	97	W593794	☐	19-067	low grade		☐	☐	☐
247.61	249.34	1.73	GRD	1.73	100	W593796	☐	19-067	low grade		☐	☐	☐
249.34	250.44	1.10	GRD, GRD	1.10	100	W593797	☐	19-067	low grade		☐	☐	☐
250.44	250.88	0.44	GRD	0.42	95	W593798	☐	19-067	low grade		☐	☐	☐
250.88	251.81	0.93	GRD	0.93	100	W593799	☐	19-067	low grade		☐	☐	☐
251.81	253.20	1.39	GRD	1.39	100	W593800	☐	19-067	low grade		☐	☐	☐
253.20	253.93	0.73	GRD	0.63	86	W593801	☐	19-067	low grade		☐	☐	☐
253.93	256.93	3.00	POR, GRD	3.00	100	W593802	☐	19-067	low grade		☐	☐	☐
256.93	258.47	1.54	GRD	1.50	97	W593803	☐	19-067	low grade		☐	☐	☐
258.47	260.57	2.10	GRD	2.00	95	W593804	☐	19-067	low grade		☐	☐	☐
258.47	260.57	2.10	GRD	2.00	95	W593805	☐	19-067	low grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
260.57	260.93	0.36	GRD	0.30	83	W593806	☐	19-067	low grade		☐	☐	☐
260.93	261.24	0.31	GRD, GRD	0.31	100	W593808	☐	19-067	low grade		☐	☐	☐
261.24	263.35	2.11	GRD	2.10	100	W593809	☐	19-067	low grade		☐	☐	☐
263.35	265.07	1.72	GRD	1.40	81	W593810	☐	19-067	low grade		☐	☐	☐
265.07	266.28	1.21	GRD	1.20	99	W593811	☐	19-067	low grade		☐	☐	☐
266.28	266.79	0.51	GRD	0.51	100	W599215	☐	19-049	high grade		☐	☐	☐
266.79	267.59	0.80	GRD	0.78	98	W593812	☐	19-073	low grade		☐	☐	☐
267.59	268.72	1.13	GRD	1.12	99	W593813	☐	19-073	low grade		☐	☐	☐
268.72	269.75	1.03	GRD	1.02	99	W593814	☐	19-073	low grade		☐	☐	☐
268.72	269.75	1.03	GRD	1.02	99	W593815	☐	19-073	low grade		☐	☐	☑
269.75	271.48	1.73	GRD	1.73	100	W593816	☐	19-073	low grade		☐	☐	☐
271.48	272.28	0.80	GRD	0.78	98	W593817	☐	19-073	low grade		☐	☐	☐
272.28	273.09	0.81	GRD	0.80	99	W593818	☐	19-073	low grade		☐	☐	☐
273.09	274.52	1.43	GRD	1.40	98	W593819	☐	19-073	low grade		☐	☐	☐
274.52	275.52	1.00	GRD	1.00	100	W593820	☐	19-073	low grade		☐	☐	☐
275.52	277.12	1.60	GRD	1.58	99	W593821	☐	19-073	low grade		☐	☐	☐
277.12	278.66	1.54	GRD	1.53	99	W593823	☐	19-073	low grade		☐	☐	☐
278.66	279.57	0.91	GRD	0.90	99	W593824	☐	19-073	low grade		☐	☐	☐
279.57	280.66	1.09	GRD	1.07	98	W593825	☐	19-073	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
280.66	282.65	1.99	GRD	1.96	98	W593826	☐	19-073	low grade		☐	☐	☐
282.65	283.72	1.07	GRD, GRD	1.07	100	W593827	☐	19-073	low grade		☐	☐	☐
283.72	285.06	1.34	GRD	1.30	97	W593828	☐	19-073	low grade		☐	☐	☐
285.06	286.16	1.10	GRD	1.09	99	W593829	☐	19-073	low grade		☐	☐	☐
286.16	288.22	2.06	GRD	1.36	66	W593830	☐	19-073	low grade		☐	☐	☐
286.16	288.22	2.06	GRD	1.36	66	W593831	☐	19-073	low grade		☐	☑	☐
288.22	290.56	2.34	GRD	2.21	94	W593832	☐	19-073	low grade		☐	☐	☐
290.56	291.73	1.17	GRD	1.15	98	W593833	☐	19-073	low grade		☐	☐	☐
291.73	292.06	0.33	GRD	0.33	100	W593834	☐	19-073	low grade		☐	☐	☐
292.06	293.00	0.94	GRD	0.83	88	W593835	☐	19-073	low grade		☐	☐	☐
293.00	293.31	0.31	GRD	0.30	97	W593836	☐	19-073	low grade		☐	☐	☐
293.31	294.34	1.03	GRD	0.98	95	W593837	☐	19-073	low grade		☐	☐	☐
294.34	296.81	2.47	GRD	2.35	95	W593839	☐	19-073	low grade		☐	☐	☐
296.81	297.62	0.81	GRD	0.79	98	W593840	☐	19-073	low grade		☐	☐	☐
297.62	298.19	0.57	GRD	0.54	95	W593841	☐	19-073	low grade		☐	☐	☐
298.19	298.70	0.51	GRD	0.49	96	W593842	☐	19-073	low grade		☐	☐	☐
298.70	299.81	1.11	GRD	1.07	96	W593843	☐	19-073	low grade		☐	☐	☐
299.81	300.72	0.91	GRD	0.90	99	W593844	☐	19-073	low grade		☐	☐	☐
300.72	301.13	0.41	GRD	0.41	100	W593845	☐	19-073	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
301.13	301.71	0.58	GRD	0.58	100	W593846	☐	19-073	low grade		☐	☐	☐
301.71	302.36	0.65	GRD	0.64	98	W593847	☐	19-073	low grade		☐	☐	☐
302.36	303.80	1.44	GRD	1.40	97	W593848	☐	19-073	low grade		☐	☐	☐
303.80	304.26	0.46	GRD	0.42	91	W593849	☐	19-073	low grade		☐	☐	☐
304.26	305.34	1.08	GRD	1.06	98	W593851	☐	19-073	low grade		☐	☐	☐
305.34	305.76	0.42	GRD	0.42	100	W593852	☐	19-074	low grade		☐	☐	☐
305.76	306.47	0.71	GRD	0.70	99	W593854	☐	19-074	low grade		☐	☐	☐
306.47	307.16	0.69	GRD	0.69	100	W593855	☐	19-074	low grade		☐	☐	☐
307.16	307.87	0.71	GRD	0.70	99	W593856	☐	19-074	low grade		☐	☐	☐
307.87	308.57	0.70	GRD	0.68	97	W593857	☐	19-074	low grade		☐	☐	☐
308.57	310.19	1.62	GRD	1.60	99	W593858	☐	19-074	low grade		☐	☐	☐
314.78	315.78	1.00	POR	1.00	100	W593859	☐	19-074	low grade		☐	☐	☐
315.78	316.11	0.33	GRD	0.30	91	W593860	☐	19-074	low grade		☐	☐	☐
316.11	317.52	1.41	GRD	1.39	99	W593862	☐	19-074	low grade		☐	☐	☐
317.52	318.52	1.00	POR	1.00	100	W593863	☐	19-074	low grade		☐	☐	☐
318.52	319.55	1.03	POR	1.00	97	W593864	☐	19-074	low grade		☐	☐	☐
325.85	327.85	2.00	POR	1.83	92	W593865	☐	19-074	low grade		☐	☐	☐
327.85	328.49	0.64	GRD	0.55	86	W593866	☐	19-074	low grade		☐	☐	☐
328.49	329.18	0.69	GRD	0.68	99	W593867	☐	19-074	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
329.18	330.04	0.86	GRD	0.84	98	W593868	☐	19-074	low grade		☐	☐	☐
330.04	331.51	1.47	GRD	1.45	99	W593869	☐	19-074	low grade		☐	☐	☐
331.51	331.93	0.42	POR	0.42	100	W593870	☐	19-074	low grade		☐	☐	☐
331.93	333.53	1.60	POR	1.60	100	W593871	☐	19-074	low grade		☐	☐	☐
333.53	334.00	0.47	GRD	0.47	100	W593872	☐	19-074	low grade		☐	☐	☐
333.53	334.00	0.47	GRD	0.47	100	W593873	☐	19-074	low grade		☐	☐	☑
334.00	334.49	0.49	GRD	0.46	94	W593874	☐	19-074	low grade		☐	☐	☐
334.49	334.79	0.30	GRD	0.30	100	W593875	☐	19-074	low grade		☐	☐	☐
334.79	336.87	2.08	GRD	2.04	98	W593876	☐	19-074	low grade		☐	☐	☐
336.87	338.33	1.46	GRD	1.35	92	W593877	☐	19-074	low grade		☐	☐	☐
336.87	338.33	1.46	GRD	1.35	92	W593878	☐	19-074	low grade		☐	☑	☐
338.33	340.11	1.78	GRD	1.67	94	W593879	☐	19-074	low grade		☐	☐	☐
340.11	340.57	0.46	GRD	0.43	93	W593880	☐	19-074	low grade		☐	☐	☐
340.57	342.05	1.48	GRD	1.40	95	W593881	☐	19-074	low grade		☐	☐	☐
342.05	342.76	0.71	GRD	0.71	100	W593882	☐	19-074	low grade		☐	☐	☐
342.76	344.24	1.48	GRD	1.48	100	W593883	☐	19-074	low grade		☐	☐	☐
344.24	344.92	0.68	GRD	0.68	100	W593884	☐	19-074	low grade		☐	☐	☐
344.92	346.06	1.14	GRD	1.14	100	W593885	☐	19-074	low grade		☐	☐	☐
359.36	360.36	1.00	GRD	1.00	100	W593887	☐	19-074	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
360.36	361.00	0.64	GRD	0.52	81	W593888	☐	19-074	low grade		☐	☐	☐
361.00	361.83	0.83	GRD	0.83	100	W593889	☐	19-074	low grade		☐	☐	☐
361.83	363.00	1.17	GRD	1.12	96	W593890	☐	19-074	low grade		☐	☐	☐
374.83	375.24	0.41	GRD	0.41	100	W593891	☐	19-074	low grade		☐	☐	☐
379.00	380.00	1.00	GRD	1.00	100	W593892	☐	19-077	low grade		☐	☐	☐
380.00	381.33	1.33	GRD	0.33	25	W593893	☐	19-077	low grade		☐	☐	☐
381.33	383.00	1.67	GRD	1.50	90	W593894	☐	19-077	low grade		☐	☐	☐
383.00	384.57	1.57	GRD	1.50	96	W593895	☐	19-077	low grade		☐	☐	☐
383.00	384.57	1.57	GRD	1.50	96	W593896	☐	19-077	low grade		☐	☑	☐
384.57	385.18	0.61	GRD	0.61	100	W593897	☐	19-077	low grade		☐	☐	☐
385.18	386.77	1.59	GRD	1.57	99	W593898	☐	19-077	low grade		☐	☐	☐
386.77	387.41	0.64	GRD	0.64	100	W593899	☐	19-077	low grade		☐	☐	☐
387.41	390.00	2.59	GRD	2.59	100	W593900	☐	19-077	low grade		☐	☐	☐
390.00	391.25	1.25	GRD	1.25	100	W593901	☐	19-077	low grade		☐	☐	☐
391.25	391.93	0.68	GRD	0.68	100	W593902	☐	19-077	low grade		☐	☐	☐
391.93	393.00	1.07	GRD	1.07	100	W593903	☐	19-077	low grade		☐	☐	☐
399.54	400.60	1.06	GRD	1.06	100	W593905	☐	19-077	low grade		☐	☐	☐
400.60	401.73	1.13	GRD	1.13	100	W593906	☐	19-077	low grade		☐	☐	☐
401.73	402.23	0.50	GRD	0.48	96	W593907	☐	19-077	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
402.23	403.71	1.48	GRD	1.48	100	W593908	☐	19-077	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	6.61			☐	☐	☐	☐	
19-060	W593706	0.00	0.00	0.27	560	☐	☐	☐	☑ ME-6	STD ME 6
19-060	W593713	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-060	W593719	0.00	0.00	1.75	930	☐	☐	☐	☑ KL-STD6	STD kl 6
19-074	W593853	0.00	0.00	1.76	1080	☐	☐	☐	☑ KL-STD6	STD KL 6
19-074	W593861	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-074	W593886	0.00	0.00	0.27	400	☐	☐	☐	☑ ME-6	STD ME 6
19-067	W593778	0.00	0.00	1.65	180	☐	☐	☐	☑ KL-STD6	KL 6 STD
19-067	W593785	0.00	0.00	0.01	20	☐	☐	☑	☐	blank
19-067	W593795	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	STD ME 6
19-059	W593656	0.00	0.00	1.79	330	☐	☐	☐	☑ KL-STD6	
19-059	W593672	0.00	0.00	0.00	40	☐	☐	☑	☐	
19-059	W593679	0.00	0.00	0.28	610	☐	☐	☐	☑ ME-6	
19-055	W603596	0.00	0.00	0.00	20	☐	☐	☑	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-077	W593904	0.00	0.00	1.84	920	☐	☐	☐	☑ KL-STD6	std KL 6
19-064	W593744	0.00	0.00	0.00	70	☐	☐	☑	☐	blank
19-064	W593752	0.00	0.00	1.71	1390	☐	☐	☐	☑ KL-STD6	STD KL 6
19-064	W593771	0.00	0.00	0.29	620	☐	☐	☐	☑ ME-6	STD ME 6
19-073	W593822	0.00	0.00	1.62	300	☐	☐	☐	☑ KL-STD6	STD KL 6
19-073	W593838	0.00	0.00	0.00	50	☐	☐	☑	☐	blank
19-073	W593850	0.00	0.00	0.27	620	☐	☐	☐	☑ ME-6	STD ME 6
19-055	W603595	6.61	7.31	0.01	2260	☐	☐	☐	☐	
19-055	W603597	7.31	8.23	0.02	1020	☐	☐	☐	☐	
19-055	W603598	8.23	8.87	0.01	2410	☐	☐	☐	☐	
19-055	W603599	8.87	10.67	0.00	2410	☐	☐	☐	☐	
19-055	W603600	10.67	12.39	0.00	2070	☐	☐	☐	☐	
19-055	W593651	12.39	12.87	0.04	2770	☐	☐	☐	☐	
19-059	W593652	12.87	13.80	0.02	2810	☐	☐	☐	☐	
19-059	W593653	13.80	14.50	0.01	2650	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-059	W593654	14.50	16.00	0.00	1850	☐	☐	☐	☐	
19-059	W593655	16.00	17.50	0.00	2370	☐	☐	☐	☐	
19-059	W593657	17.50	18.60	0.00	2390	☐	☐	☐	☐	
19-059	W593658	18.60	19.84	0.00	1300	☐	☐	☐	☐	
19-059	W593659	19.84	21.34	0.00	2060	☐	☐	☐	☐	
19-059	W593660	21.34	22.86	0.00	2080	☐	☐	☐	☐	
19-059	W593661	22.86	25.40	0.00	2290	☐	☐	☐	☐	
19-059	W593662	25.40	26.85	0.00	2320	☐	☐	☐	☐	
19-059	W593663	25.40	26.85	0.00	2450	☐	☑	☐	☐	
19-059	W593664	26.85	27.93	0.01	1570	☐	☐	☐	☐	
19-059	W593665	27.93	30.12	0.00	2510	☐	☐	☐	☐	
19-059	W593666	30.12	31.12	0.00	2670	☐	☐	☐	☐	
		31.12	37.00			☐	☐	☐	☐	
19-059	W593667	37.00	38.88	0.00	2340	☐	☐	☐	☐	
19-059	W593668	38.88	39.90	0.00	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-059	W593669	39.90	41.84	0.00	2220	☐	☐	☐	☐	
19-059	W593670	41.84	42.38	0.00	2130	☐	☐	☐	☐	
19-059	W593671	42.38	43.46	0.00	1950	☐	☐	☐	☐	
19-059	W593673	43.46	44.88	0.00	2440	☐	☐	☐	☐	
		44.88	47.43			☐	☐	☐	☐	
19-059	W593674	47.43	48.77	0.00	2280	☐	☐	☐	☐	
19-059	W593675	48.77	49.19	0.46	450	☐	☐	☐	☐	
19-059	W593676	49.19	50.67	0.00	2260	☐	☐	☐	☐	
19-059	W593677	50.67	53.34	0.00	2480	☐	☐	☐	☐	
19-059	W593678	53.34	54.31	0.00	2280	☐	☐	☐	☐	
19-059	W593680	54.31	54.94	0.22	1900	☐	☐	☐	☐	
19-059	W593681	54.94	55.84	0.03	2190	☐	☐	☐	☐	
19-059	W593682	55.84	56.58	0.04	2530	☐	☐	☐	☐	
19-059	W593683	56.58	57.60	0.00	2270	☐	☐	☐	☐	
		57.60	63.80			☐	☐	☐	☐	
19-059	W593684	63.80	64.77	0.00	2520	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-059	W593685	64.77	65.84	0.00	1960	☐	☐	☐	☐	
19-059	W593686	64.77	65.84	0.00	1790	☑	☐	☐	☐	
19-059	W593687	65.84	67.45	0.00	1480	☐	☐	☐	☐	
19-059	W593688	67.45	68.58	0.00	2130	☐	☐	☐	☐	
		68.58	79.00			☐	☐	☐	☐	
19-059	W593689	79.00	80.37	0.00	2330	☐	☐	☐	☐	
19-059	W593690	80.37	81.12	0.02	1690	☐	☐	☐	☐	
19-059	W593691	81.12	82.00	0.09	660	☐	☐	☐	☐	
19-060	W593692	82.00	82.93	0.01	2220	☐	☐	☐	☐	
19-060	W593693	82.93	84.31	0.00	2450	☐	☐	☐	☐	
19-060	W593694	84.31	85.53	0.00	2710	☐	☐	☐	☐	
		85.53	99.64			☐	☐	☐	☐	
19-060	W593695	99.64	100.80	0.00	1540	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-060	W593696	121.48	124.48	0.01	2070	☐	☐	☐	☐	
19-060	W593697	124.48	126.00	0.00	2280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-060	W593698	124.48	126.00	0.00	2360	☑	☐	☐	☐	1/4 dup
19-060	W593699	126.00	126.95	0.00	1900	☐	☐	☐	☐	
19-060	W593700	126.95	127.37	0.00	2370	☐	☐	☐	☐	
19-060	W593701	127.37	128.47	0.00	2040	☐	☐	☐	☐	
19-060	W593702	128.47	130.47	0.00	2380	☐	☐	☐	☐	
19-060	W593703	130.47	131.80	0.00	2320	☐	☐	☐	☐	
19-060	W593704	131.80	133.99	0.00	2280	☐	☐	☐	☐	
19-060	W593705	133.99	136.87	0.00	2120	☐	☐	☐	☐	
19-060	W593707	136.87	139.22	0.00	1950	☐	☐	☐	☐	
19-060	W593708	139.22	140.30	0.00	2430	☐	☐	☐	☐	
19-060	W593709	140.30	143.30	0.00	2270	☐	☐	☐	☐	
19-060	W593710	143.30	144.55	0.00	2190	☐	☐	☐	☐	
19-060	W593711	144.55	146.07	0.00	2060	☐	☐	☐	☐	
19-060	W593712	146.07	146.46	0.59	700	☐	☐	☐	☐	
19-060	W593714	146.46	147.24	0.06	820	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-060	W593715	147.24	147.55	0.17	1400	☐	☐	☐	☐	
19-060	W593716	147.55	150.55	0.04	2260	☐	☐	☐	☐	
19-060	W593717	150.55	151.90	0.01	1900	☐	☐	☐	☐	
19-060	W593718	151.90	152.68	0.04	1340	☐	☐	☐	☐	
19-060	W593720	152.68	155.63	0.00	2390	☐	☐	☐	☐	
19-060	W593721	155.63	157.35	0.04	2230	☐	☐	☐	☐	
19-060	W593722	157.35	158.73	0.01	2130	☐	☐	☐	☐	
19-060	W593723	158.73	159.19	0.68	1290	☐	☐	☐	☐	
19-060	W593724	159.19	161.22	0.03	1990	☐	☐	☐	☐	
19-060	W593725	161.22	162.34	0.02	1250	☐	☐	☐	☐	
19-060	W593726	162.34	164.34	0.38	1400	☐	☐	☐	☐	
19-060	W593727	162.34	164.34	0.37	1430	☐	☑	☐	☐	coarse dup
19-060	W593728	164.34	166.53	0.00	2020	☐	☐	☐	☐	
19-060	W593729	166.53	168.15	0.01	1780	☐	☐	☐	☐	
19-060	W593730	168.15	168.45	0.14	1460	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-060	W593731	168.45	169.57	0.00	1940	☐	☐	☐	☐	
19-064	W593732	169.57	170.90	0.00	2420	☐	☐	☐	☐	
19-064	W593733	170.90	171.33	0.16	3380	☐	☐	☐	☐	
19-064	W593734	171.33	172.88	0.00	1770	☐	☐	☐	☐	
19-064	W593735	172.88	174.89	0.00	2440	☐	☐	☐	☐	
19-064	W593736	174.89	175.77	0.06	1380	☐	☐	☐	☐	
19-064	W593737	175.77	177.48	0.03	2570	☐	☐	☐	☐	
19-064	W593738	175.77	177.48	0.16	2200	☑	☐	☐	☐	1/4 dup
19-064	W593739	177.48	178.29	0.21	2160	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-064	W593740	190.55	192.02	0.00	2730	☐	☐	☐	☐	
19-064	W593741	192.02	193.80	0.05	2270	☐	☐	☐	☐	
19-064	W593742	193.80	194.11	0.32	3430	☐	☐	☐	☐	
19-064	W593743	194.11	194.66	0.04	2240	☐	☐	☐	☐	
19-064	W593745	194.66	195.28	0.66	1240	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-064	W593746	195.28	197.39	0.07	2170	☐	☐	☐	☐	
19-064	W593747	197.39	198.12	0.00	10001	☐	☐	☐	☐	
19-064	W593748	198.12	199.00	0.01	1950	☐	☐	☐	☐	
19-064	W593749	199.00	200.00	0.00	1960	☐	☐	☐	☐	
19-064	W593750	200.00	201.66	0.01	1440	☐	☐	☐	☐	
19-064	W593751	201.66	202.16	0.16	1120	☐	☐	☐	☐	
19-064	W593753	202.16	202.78	0.20	2170	☐	☐	☐	☐	
19-064	W593754	202.78	203.14	0.02	2110	☐	☐	☐	☐	
19-064	W593755	203.14	203.44	2.65	700	☐	☐	☐	☐	
19-064	W593756	203.44	204.22	0.12	2400	☐	☐	☐	☐	
19-067	W593807	204.22	205.11	0.00	2280	☐	☐	☐	☐	
19-064	W593757	205.11	207.56	0.02	2280	☐	☐	☐	☐	
19-064	W593758	207.56	207.90	1.67	1210	☐	☐	☐	☐	
19-064	W593759	207.90	208.64	0.05	2080	☐	☐	☐	☐	
19-064	W593760	208.64	209.14	0.44	960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-064	W593761	209.14	209.74	0.52	450	☐	☐	☐	☐	
19-064	W593762	209.14	209.74	0.51	470	☐	☑	☐	☐	coarse dup
19-064	W593763	209.74	211.16	0.15	2040	☐	☐	☐	☐	
19-064	W593764	211.16	212.87	0.01	1920	☐	☐	☐	☐	
19-064	W593765	212.87	213.56	0.00	2320	☐	☐	☐	☐	
19-064	W593766	213.56	214.03	0.00	2250	☐	☐	☐	☐	
19-064	W593767	214.03	215.26	0.11	3210	☐	☐	☐	☐	
19-064	W593768	215.26	216.41	0.00	2450	☐	☐	☐	☐	
19-064	W593769	216.41	216.94	0.01	3430	☐	☐	☐	☐	
19-064	W593770	216.94	219.94	0.00	2450	☐	☐	☐	☐	
19-067	W593772	219.94	221.34	0.01	2270	☐	☐	☐	☐	
19-067	W593773	221.34	222.05	0.36	2140	☐	☐	☐	☐	
19-067	W593774	222.05	223.58	0.00	2170	☐	☐	☐	☐	
19-067	W593775	223.58	224.14	0.15	1720	☐	☐	☐	☐	
19-067	W593776	224.14	226.25	0.00	2170	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-067	W593777	226.25	229.00	0.02	1990	☐	☐	☐	☐	
19-067	W593779	229.00	229.89	0.67	1260	☐	☐	☐	☐	
19-067	W593780	229.89	231.01	0.17	1380	☐	☐	☐	☐	
19-067	W593781	231.01	232.28	0.11	2000	☐	☐	☐	☐	
19-067	W593782	232.28	233.71	0.17	1770	☐	☐	☐	☐	
19-067	W593783	233.71	235.94	0.08	1880	☐	☐	☐	☐	
19-067	W593784	235.94	238.94	0.00	1810	☐	☐	☐	☐	
19-067	W593786	238.94	241.12	0.01	1420	☐	☐	☐	☐	
19-067	W593787	241.12	241.43	0.15	1490	☐	☐	☐	☐	
19-067	W593788	241.43	242.52	0.00	1750	☐	☐	☐	☐	
19-067	W593789	241.43	242.52	0.00	1750	☑	☐	☐	☐	1/4 dup
19-067	W593790	242.52	244.38	0.00	2200	☐	☐	☐	☐	
19-067	W593791	244.38	245.36	0.00	2720	☐	☐	☐	☐	
19-067	W593792	245.36	246.73	0.13	1900	☐	☐	☐	☐	
19-067	W593793	246.73	247.30	0.00	2160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-067	W593794	247.30	247.61	0.24	1490	☐	☐	☐	☐	
19-067	W593796	247.61	249.34	0.00	2280	☐	☐	☐	☐	
19-067	W593797	249.34	250.44	0.00	1890	☐	☐	☐	☐	
19-067	W593798	250.44	250.88	0.48	760	☐	☐	☐	☐	
19-067	W593799	250.88	251.81	0.02	1930	☐	☐	☐	☐	
19-067	W593800	251.81	253.20	0.08	1650	☐	☐	☐	☐	
19-067	W593801	253.20	253.93	0.11	1130	☐	☐	☐	☐	
19-067	W593802	253.93	256.93	0.00	1240	☐	☐	☐	☐	
19-067	W593803	256.93	258.47	0.00	1590	☐	☐	☐	☐	
19-067	W593804	258.47	260.57	0.47	2430	☐	☐	☐	☐	
19-067	W593805	258.47	260.57	0.41	2840	☐	☑	☐	☐	coarse dup
19-067	W593806	260.57	260.93	0.19	750	☐	☐	☐	☐	
19-067	W593808	260.93	261.24	7.97	930	☐	☐	☐	☐	
19-067	W593809	261.24	263.35	0.00	2000	☐	☐	☐	☐	
19-067	W593810	263.35	265.07	0.01	2040	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-067	W593811	265.07	266.28	0.08	1870	☐	☐	☐	☐	
19-049	W599215	266.28	266.79	1.77	400	☐	☐	☐	☐	
19-073	W593812	266.79	267.59	0.11	840	☐	☐	☐	☐	
19-073	W593813	267.59	268.72	0.05	1940	☐	☐	☐	☐	
19-073	W593814	268.72	269.75	0.15	1570	☐	☐	☐	☐	
19-073	W593815	268.72	269.75	0.14	1500	☐	☑	☐	☐	coarse dup
19-073	W593816	269.75	271.48	0.05	2000	☐	☐	☐	☐	
19-073	W593817	271.48	272.28	0.03	3060	☐	☐	☐	☐	
19-073	W593818	272.28	273.09	0.00	1550	☐	☐	☐	☐	
19-073	W593819	273.09	274.52	0.01	2410	☐	☐	☐	☐	
19-073	W593820	274.52	275.52	0.00	2090	☐	☐	☐	☐	
19-073	W593821	275.52	277.12	0.03	2460	☐	☐	☐	☐	
19-073	W593823	277.12	278.66	0.03	1810	☐	☐	☐	☐	
19-073	W593824	278.66	279.57	0.00	2130	☐	☐	☐	☐	
19-073	W593825	279.57	280.66	0.00	1510	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-073	W593826	280.66	282.65	0.00	2060	☐	☐	☐	☐	
19-073	W593827	282.65	283.72	0.08	1860	☐	☐	☐	☐	
19-073	W593828	283.72	285.06	0.00	2200	☐	☐	☐	☐	
19-073	W593829	285.06	286.16	0.00	1820	☐	☐	☐	☐	
19-073	W593830	286.16	288.22	0.14	1730	☐	☐	☐	☐	
19-073	W593831	286.16	288.22	0.00	3110	☑	☐	☐	☐	1/4 dup
19-073	W593832	288.22	290.56	0.00	2180	☐	☐	☐	☐	
19-073	W593833	290.56	291.73	0.00	2220	☐	☐	☐	☐	
19-073	W593834	291.73	292.06	0.13	1770	☐	☐	☐	☐	
19-073	W593835	292.06	293.00	0.00	1280	☐	☐	☐	☐	
19-073	W593836	293.00	293.31	0.24	550	☐	☐	☐	☐	
19-073	W593837	293.31	294.34	0.05	1590	☐	☐	☐	☐	
19-073	W593839	294.34	296.81	0.00	2230	☐	☐	☐	☐	
19-073	W593840	296.81	297.62	0.06	1850	☐	☐	☐	☐	
19-073	W593841	297.62	298.19	0.38	1160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-073	W593842	298.19	298.70	0.04	1870	☐	☐	☐	☐	
19-073	W593843	298.70	299.81	0.10	2070	☐	☐	☐	☐	
19-073	W593844	299.81	300.72	0.11	1040	☐	☐	☐	☐	
19-073	W593845	300.72	301.13	0.11	1200	☐	☐	☐	☐	
19-073	W593846	301.13	301.71	0.00	1200	☐	☐	☐	☐	
19-073	W593847	301.71	302.36	0.03	1850	☐	☐	☐	☐	
19-073	W593848	302.36	303.80	0.00	1530	☐	☐	☐	☐	
19-073	W593849	303.80	304.26	0.03	670	☐	☐	☐	☐	
19-073	W593851	304.26	305.34	0.02	2430	☐	☐	☐	☐	
19-074	W593852	305.34	305.76	0.12	920	☐	☐	☐	☐	
19-074	W593854	305.76	306.47	0.11	930	☐	☐	☐	☐	
19-074	W593855	306.47	307.16	0.38	800	☐	☐	☐	☐	
19-074	W593856	307.16	307.87	0.50	690	☐	☐	☐	☐	
19-074	W593857	307.87	308.57	0.03	940	☐	☐	☐	☐	
19-074	W593858	308.57	310.19	0.01	2120	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		######	######			☐	☐	☐	☐	
19-074	W593859	314.78	315.78	0.00	1460	☐	☐	☐	☐	
19-074	W593860	315.78	316.11	0.02	1020	☐	☐	☐	☐	
19-074	W593862	316.11	317.52	0.00	1770	☐	☐	☐	☐	
19-074	W593863	317.52	318.52	0.00	1030	☐	☐	☐	☐	
19-074	W593864	318.52	319.55	0.00	6590	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-074	W593865	325.85	327.85	0.00	3470	☐	☐	☐	☐	
19-074	W593866	327.85	328.49	0.00	970	☐	☐	☐	☐	
19-074	W593867	328.49	329.18	0.00	2360	☐	☐	☐	☐	
19-074	W593868	329.18	330.04	0.00	1260	☐	☐	☐	☐	
19-074	W593869	330.04	331.51	0.00	1240	☐	☐	☐	☐	
19-074	W593870	331.51	331.93	0.10	8160	☐	☐	☐	☐	
19-074	W593871	331.93	333.53	0.01	1610	☐	☐	☐	☐	
19-074	W593872	333.53	334.00	7.92	430	☐	☐	☐	☐	
19-074	W593873	333.53	334.00	7.94	480	☐	☑	☐	☐	coarse dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-074	W593874	334.00	334.49	0.51	670	☐	☐	☐	☐	
19-074	W593875	334.49	334.79	0.56	400	☐	☐	☐	☐	
19-074	W593876	334.79	336.87	0.01	1960	☐	☐	☐	☐	
19-074	W593877	336.87	338.33	0.01	1950	☐	☐	☐	☐	
19-074	W593878	336.87	338.33	0.00	2010	☑	☐	☐	☐	1/4 dup
19-074	W593879	338.33	340.11	0.00	1860	☐	☐	☐	☐	
19-074	W593880	340.11	340.57	0.08	1690	☐	☐	☐	☐	
19-074	W593881	340.57	342.05	0.00	1990	☐	☐	☐	☐	
19-074	W593882	342.05	342.76	0.43	1570	☐	☐	☐	☐	
19-074	W593883	342.76	344.24	0.01	2160	☐	☐	☐	☐	
19-074	W593884	344.24	344.92	1.03	740	☐	☐	☐	☐	
19-074	W593885	344.92	346.06	0.04	2330	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-074	W593887	359.36	360.36	0.00	2270	☐	☐	☐	☐	
19-074	W593888	360.36	361.00	0.36	1840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-074	W593889	361.00	361.83	0.03	2720	☐	☐	☐	☐	
19-074	W593890	361.83	363.00	0.00	2340	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-074	W593891	374.83	375.24	0.09	1670	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-077	W593892	379.00	380.00	0.00	2380	☐	☐	☐	☐	
19-077	W593893	380.00	381.33	0.00	2080	☐	☐	☐	☐	
19-077	W593894	381.33	383.00	0.00	2330	☐	☐	☐	☐	
19-077	W593895	383.00	384.57	0.00	2350	☐	☐	☐	☐	
19-077	W593896	383.00	384.57	0.00	2320	☑	☐	☐	☐	1/4 dup
19-077	W593897	384.57	385.18	0.00	1700	☐	☐	☐	☐	
19-077	W593898	385.18	386.77	0.00	2320	☐	☐	☐	☐	
19-077	W593899	386.77	387.41	0.00	2280	☐	☐	☐	☐	
19-077	W593900	387.41	390.00	0.00	2430	☐	☐	☐	☐	
19-077	W593901	390.00	391.25	0.00	2110	☐	☐	☐	☐	
19-077	W593902	391.25	391.93	0.00	4380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-077	W59390 3	391.9 3	393.0 0	0.00	2380	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-077	W59390 5	399.5 4	400.6 0	0.00	1950	☐	☐	☐	☐	
19-077	W59390 6	400.6 0	401.7 3	0.00	1840	☐	☐	☐	☐	
19-077	W59390 7	401.7 3	402.2 3	0.00	1980	☐	☐	☐	☐	
19-077	W59390 8	402.2 3	403.7 1	0.00	1810	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.31	8.13	VB	37	50	NUL	1	Smokey breccia cutting weathered and oxidized granodiorite near top of hole. Granodiorite clasts are anglular and cobble sized within breccia matrix. Minor pyrite (disseminated) hosted within.			
								Py	3	DI
12.64	12.87	FT	42	70	NUL	1	Orange to grey clay gouge zone that represent fault gouge within weathered granodiorite.			
14.00	14.08	VN	37	70	NUL	1	quartz carbonate vein cutting weathered granodiorite. Vein hosts unidentifiable weathered sulphides (disseminated, minor).			
								Un	3	DI
16.00	16.03	VB	37	70	NUL	1	Carbonate vein			
25.40	28.00	VT	37	50	NUL	17	Orange weathered granodiorite with minor dull granodiorite periods. Hosts an array of narrow carbonate/quartz stringers and veinlets that all follow the same orientation set. One larger carbonate vein zone is present within, with minor stringers eminating from it (4cm). Limonitic alteration is present along all stringers.			
								Li	5	BN
31.00	31.11	FT	42	70	NUL	1	orange to beige clay altered fault gouge. Hosted within decaying argillic/oxidized/weathered granodirite.			
38.88	39.60	VN	37	40	NUL	7	1-2 mm, oxidized, pyrite bearing stringer veinlets in oxidized, weakly argillic granodiorite.			
42.67	43.46	VN	37	40	NUL	9	quartz stringer veins containing disseminated pyrite,trace sphalerite and galena within propylitic, potassic granodiorite. Some stringer veins appear to locally brecciate host grd.			
48.77	49.19	BX	34	-	NUL	1	moderately silicified, oxidized, breccia vein zone containting trace disseminated pyrite. An oxidized, carbonitic vein appears to brecciate clasts within breccia zone. Ankerite occurs as partiall infill in veins and as brecciated clasts in vein zone.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
58.30	58.33	DY	37	80	NUL	1	2 cm light pink aplite dyke intrusion crosscutting a potassic altered grd section			
64.77	65.00	VN	37	40	NUL	4	2-4 mm, quartz vein containting trace hematite, pyrite in weakly propylitic, argillic grd			
67.00	67.50	VN	37	35	NUL	3	2-4 mm, pyrite bearing veinlets in weakly propylitic grd			
75.12	74.20	DY	37	45	NUL	1	6mm, light pink aplite dyke intrusion in altered grd.			
77.30	77.50	DY	37	80	NUL	2	4 cm, light pink, aplite dyke intrusion in grd			
80.37	80.70	GO	34	-	NUL	1	gouged brcciation in weakly propylitic granodiorite			
81.70	81.90	BX	34	-	NUL	1	weakly silicified, vein breccia containting feldspathic, quartz, chlorite clasts, disseminated pyrite, trace sphalerite. Ankerite and calcite occurs as brecciated clasts and interstitially infill breccia zone			
83.00	84.31	VN	37	45	NUL	6	2mm-1 cm, quartz veins, offset and crosscut by calcite infilled fractures and veinlets. Dark red, hematite inclusions are observed within vein			
100.00	101.00	VN	37	65	NUL	3	calcite infilled, quartz veins in weakly propylitic, argillic granodiorite.			
110.00	112.00	VN	37	60	NUL	3	2-6mm, magnetite-quartz veins with moderate propylitic alteration halo in unaltered granodiorite			
122.36	122.44	VN	37	40	NUL	4	2-5 mm, calcite, ankerite infilled, pyrite bearing vein intrace potassic , argillic granodiorite			
126.95	127.37	VN	37	50	NUL	6	2mm-3 cm, pyrite bearing quartz veins with carbonate infill			
133.68	134.70	DY	37	65	NUL	2	4-14cm, light pink aplite dyke intrusion in trace potassic, trace propylitic granodiorite.			
135.00	136.87	VN	37	50	NUL	7	1-4 mm, carbonate infilled quartz veins in grd			
139.70	140.00	VN	37	55	NUL	5	1-3mm, quartz stringer veins containing trace disseminate pyrite in altered grd			
141.15	141.25	VN	37	40	NUL	1	4 mm, calcite-quartz pyrite bearing vein in grd			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
144.55	144.78	VN	37	60	NUL	3	2-4 mm, quartz veins containting hematite and trace disseminated pyrite.			
144.74	144.85	VN	37	85	NUL	2	Banded rodhocrosite veins (1 cm) with minor quartz, carbonate and smokey quartz hosted in propylitic altered granodiorite. One vein have a centimeter offset from joint, and both are bare of mineralization.			
145.12	145.16	DY	37	60	NUL	1	6 mm, light pink, aplite dyke intrusion in grd			
145.17	145.24	VN	37	65	NUL	1	3cm banded carbonate vein at 65TAC with interstitial quartz and carbonate clast hosted in weak propylitic and phyllic altered granodiorite. Dissemnated pyrite in 8 cm of altered GRD at vein footwall.			
145.29	145.45	VN	37	20	NUL	1	4mm, quartz vein in potassic/argillic grd			
146.07	146.45	VN	37	40	NUL	1	silicified, carbonate infilled, vein breccia zone containting blebby pyrite. Quartz locally brecciates clasts within breccia zone			
146.70	147.24	DY	37	75	NUL	3	4mm-10 cm, pale pink, aplite dyke intrusion in argillic/propylitic granodiorite.			
147.24	147.55	VN	37	40	NUL	7	3-7 mm, pyrite bearing, quartz veins with minor calcite infill, locally brecciating host grd			
147.55	147.83	DY	37	45	NUL	3	4-5 mm, light pink, aplite dyke intrusions in argillic/potassic granodiorite			
156.00	157.40	VN	37	45	NUL	4	1-4mm, pyrite bearing, dark grey veins within propylitic, argillic altered grd.			
158.78	159.19	VN	37	40	NUL	3	4-6mm, pyrite bearing , carbonate infilled quartz veins in argillic/propylitic granodiorite			
161.22	162.34	VN	37	45	NUL	3	2-4 m, pyrite bearing, quartz veins in propylitic/argillic granodiorite.			
163.20	163.52	VB	37	40	NUL	4	1-5 mm, dark grey and clear quartz veinlets.			
168.15	138.45	VN	37	55	NUL	4	quartz veins, infilled and brecciated by bright pink, rhodocrosite and trace ankerite infill.			
169.25	169.35	DY	37	60	NUL	1	1 cm, pink, fine grained, aplite dyke intrusion in grd.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
171.90	171.33	VN	37	35	NUL	6	2-5 mm, quartz vein zone infilled and brecciated by bright pink rhodocrosite. Rhodocrosite hosts sub-mm sphalerite and possibly galena. Blebby pyrite occurs within dark grey quartz vein. Rhodocrosite vein appears to brecciate host grd as well			
174.89	175.77	VN	37	40	NUL	5	2-4 mm, dark grey, pryrite bearing quartz veins in propylitic granodiorite			
177.48	178.29	VN	37	40	NUL	5	2-6 mm, quartz stringer veins containing trace disseminated pyrite.			
183.27	183.29	VT	37	53	NUL	1	1.5cm quartz-smokey quartz-carbonate veinlet cutting propyitic to weakly potassic altered granodiorite. Veinlet is barren of sulphide.			
184.17	184.20	ST		70	NUL	1	quartz-smokey quartz-carbonate stringer zone cutting propylitic altered granodiorite. Weak potassic alteration present. Trace disseminated pyrite found within.			
								Py	0.5	DI
184.90	194.91	ST		56	NUL	1	quartz carbonate stringer cutting granodiorite along GRD-QFP contact.			
192.40	193.50	ST		50	NUL	6	Strongly propylitic altered granodiorite hosting multiple quartz-smokey quartz stringers with minor carbonate. Stringers host disseminated pyrite locally. Stringers average 50TCA.			
								Py	1	DI
193.60	194.96	VN	37	85	NUL	1	Banded quartz-carbonate vein with lesser smokey quartz hosted within phyllic to propylitic altered granodiorite. Light pink rhodochrosite is present as bands that envelop quartz and as weakly brecciated clasts. Vein hosts disseminated pyrite.			
								Py	1	BN
								Py	1	DI
202.16	202.20	VN	37	85	NUL	1	quartz vein cutting phyllic altered granodiorite found along the footwall edge of a minor mm-scale clay shear (90TCA). Vein and associated softer gouge hosts disseminated pyrite within.			
								Py	2	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
203.23	203.39	VB	37	80	NUL	1	16 cm wide quartz-smokey quartz-carbonate breccia vein hosted within phyllic altered granodiorite (hanging wall) and argillic/potassic altered footwall granodiorite. Black breccia is present within quartz veining. Ankerite and rhodochrosite is present along selvedges of quartz breccia veining, but no carbonate breccia clasts are present. Disseminated pyrite, honey brown sphalerite and asrsenopyrite is hosted throughout breccia.			
								Sp	2	DI
								Py	2	DI
								As	2	DI
205.24	206.20	ST		75	NUL	3	Quartz carbonate stringers cutting argillic to propylitic altered granodiorite. Stringers are up to 0.5cm wide. 3cm sinistral offset found along joint planes that crosscut stringers.			
214.14	214.15	VT	37	60	NUL	1	1cm quartz carbonate vein hosted within moderately propylitic altered granodiorite. Veinlet has a centre-line of carbonate with quartz along outer selvedges.			
214.97	215.00	VN	37	80	NUL	1	Banded quartz-smokey quartz-carbonate vein cutting propylitic to phyllic altered granodiorite. Vein has a mm-scale band of red hematite(?) and disseminated blebs of fine grained pyrite within.			
								Py	4	BL
								He	1	BN
216.38	216.69	VT	37	70	NUL	2	smokey quartz-quartz vein cutting propylitic altered granodiorite. Vein has bands of smokey quartz within.			
221.42	221.43	VT	37	68	NUL	1	smokey quartz-carbonate veinlet cutting unaltred to weakly propylitic/argillic altered granodiorite.			
221.94	221.97	VN	37	43	NUL	1	2.5cm intermixed and interstitially developed quartz carbonate vein. Minor net texture present within quartz-carbonate veining.			
223.96	224.10	VN	37	90	NUL	1	Banded quartz carbonate vein hosted in ewawkly propylitic altered granodiorite. Carbonate (ankerite) is found interstitially around quartz veining and takes on a colloform texture.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Ak	5	BN
229.00	229.04	VT	37	60	NUL	1	quartz vein hosted within argillic/propylitic altered granodiorite.			
229.33	229.37	VB	37	70	NUL	1	Banded quartz-carbonate vein with weakly brecciated textures hosted within weakly argillic/propylitic altered granodiorite. Minor colloform/net textures are present.			
229.75	229.82	VN	37	70	NUL	1	quartz-smokey quartz-carbonate (ankerite) breccia vein. Weakly disseminated pyrite hosted within.			
								Py	2	DI
230.88	235.00	VT	37	65	NUL	15	Quartz carbonate stringers and veinlets, up to 1m wide cutting argillic/weakl potassic altered granodiorite. Stringers host locally disseminated pyrite. Black smokey bands present within. Vein angles range from 60 to 30, but generally trend 60 TCA. Local offsets along low angle, rehealed joints are present.			
								Py	5	DI
235.70	235.86	VT	37	60	NUL	2	Two 3cm quartz carbonate (narrow rhodochrosite bands?) veinlets cutting argillic altered granodiorite.			
238.98	239.00	VT	37	40	NUL	1	quartz carbonate veinlet hosted in argillic altered granodiorite.			
239.90	239.92	VT	37	90	NUL	1	banded quartz-smokey quartz-carbonate veinlet cutting propylitic/weakly argillic altered granodiorite. Veinlet hosts trace disseminated pyrte.			
								Py	0.1	DI
241.12	241.43	VB	37	80	NUL	2	Zone of two quartz-smokey quartz-carbonate breccia veins (12 cm, 6cm) hosted within propylitic/argillic altered granodiorite. Breccia veins host disseminated pyrite throughout.			
								Py	6	DI
243.39	243.43	VN	37	60	NUL	1	opaque, light grey chalcedony vein with brecciated fragments of altered granodiorite within. Minor ankerite stringer found along FW selvedge.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
247.40	247.50	VN	37	35	NUL	1	1.5 cm, quartz vein comprised of dark grey quartz, clear quartz infilled by light red/pink clasts and calcite infill surrounding vein zone. Dark grey bands in vein locally brecciate host grd. Trace disseminatd pyrite is observed withindark grey bands in vein and within host grd.			
249.74	249.92	VN	37	60	NUL	3	5-8 mm, vuggy quartz-carbonate veinlets within argillic/potassic altered grd. Euhedral clear quartz crystals are observed within vein vugs			
250.60	250.07	VN	37	80	NUL	1	quartz, smokey quartz vein locally brecciating host propylitic granodiorite. Carbonates partially infill , brecciate quartz vein and host grd. Trace, disseminatd pyrite is observed within dark grey, smoky quartz veins.			
								Py	1	DI
252.07	252.14	VN	37	60	NUL	1	4 mm, quartz-carbonate vuggy vein containing fine grained euhedral calcite within vein vugs			
252.27	252.35	VN	37	70	NUL	2	Broken rock, gouge with fragmented rock and brecciated clast along 1 meter throughout the core axis. The contact between the gouge and the footwall of strongly propylitic altered granodiorite begins at 334.10m. Grey and black clay (smeared sulphides) gouge with quartz and carbonate and minor pyrite.			
258.05	258.14	VN	37	40	NUL	2	4-6 mm, quartz veinlets containing dark green, chlorite at venlet boundaries			
260.76	260.88	ST		60	NUL	1	3cm of dark grey stringers zone hosted in strong argilic/weak propylitic/potassic altered granodiorite proximal to hanging wall contact with a centimeter scale light green altered clay dyke. Smokey-quartz/chlorite/dark clay with minor carbonate stringers are millimeter width at 60TAC. No trace of mineralization.			
266.42	266.79	VN	37	70	NUL	4	Banded stringer and vein zone with minor colloform and vuggy textured quartz/carbonate. Hosted in argilic altered granodiorite. Quartz/smokey-quartz/carbonate (up to 4 cm) vein coupled with millimeter black stringers at 40TAC to 70TAC. Banded sphalerite and pyrite are along the border of the veinlets and form banded like stringers.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	BL
								Sp	2	BN
								Py	2	BN
268.32	269.74	ST		75	NUL	15	Smokey-quartz/ankerite stringers with minor milky quartz (75TCA) hosted in strong argilic/propylitic altered granodiorite. Mostly banded quartz/carbonate, with carbonate at the borders of stringers and veinlet. Between 268.30-268.50m banded smokey-quartz/carbonate/pyrite stringers, with pyrite in the center. Disseminated pyrite locally at 268.80m.			
								Py	1	DI
								Py	1	BN
276.03	276.08	VT	37	65	NUL	2	5 mm, quartz veinlets with minor banded carbonate/smokey-quartz hosted in weak propylitic altered granodiorite. Fine border of carbonate along the quartz veinlets with some smokey-quartz/ankerite stringers-like locally. Blebby pyrite disseminated along the veinlets.			
								Py	1	BL
277.90	278.00	DY	37	50	NUL	1	4cm, light green altered clay dyke hosted in strong argilic/weak propylitic altered granodiorite. Fine grained dyke with 5% (less than a millimeter) quartz clasts and minor smokey-quartz/carbonate clasts. No mineralization.			
278.98	279.08	DY	37	50	NUL	1	3 cm, redish brown very fine grained, aplite dyke crosscutting through unaltered granodiorite. No mineralization.			
279.57	279.93	VT	37	60	NUL	5	5-15 mm, quartz/light-beige carbonate veinlets hosted in moderate to strong argilic altered granodiorite. Minor breccia veinlet texture and locally one quartz veinlet crosscuts 1cm beige carbonate veinlet. Minor banded texture of quartz and carbonate. No mineralization.			
282.94	283.16	VT	37	60	NUL	4	7 mm quartz-carbonbate veinlets and 2 mm stringers hosted in strong propylitic altered granodiorite. One veinlet has banded pinkish-beige carbonate at the border and quartz in the centre (60TAC). One brownish-beige carbonate/quartz at 50TAC. Two banded smokey-quartz/carbonate stringers. Blebby pyrite along one stringer's border.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	BN
284.07	284.20	DY	37	50	NUL	6	One centimeter redish-brown, aplite dyke cutting strong argilic altered granodiorite. Carbonate/quartz stringers (2 mm) crosscutting the dyke. One smokey-quartz stringer (3mm) has an offset from those carbonate/quartz stringers. No mineralization.			
286.44	286.86	VT	37	70	NUL	6	5mm, quartz/carbonate veinlets and smokey-quartz/carbonate stringers hosted in strong popylitic altered granodiorite. Veinlets have minor brecciated and banded veinlet texture (70TAC), they are offset by a joint, and crosscuts by stringers that are at opposite angle to the veinlets. Blebby pyrite associated with the stringers.			
								Py	1	BL
287.24	287.29	VT	37	75	NUL	1	7 mm, banded carbonate/smokey-quartz veinlet (75TAC) hosted in argilic/propylitic altered granodiorite. Colloform texture and minor milky-quartz. Disseminated pyrite with 'iron stain' along the smokey-quartz layer.			
								Py	1	DI
287.35	287.48	DY	37	50	NUL	2	5 mm, redish-brown aplite dykes cutting argilic/propylitic altered granodiorite. Discontinuity in the dykes and carbonate infilled joints crosscut the dyke. No mineralization.			
291.84	292.02	VN	37	80	NUL	7	3 cm, carbonate vein breccia and carbonate veinlets (80TAC) hosted in strong propylitic altered granodiorite. Medium-beige carbonate vein breccia with millimiter quartz clasts, banded with smokey-quartz vein and light-beige carbonate vein. Dark-beige carbonate veinlets with minor smokey-quartz. Colloform and vuggy texture locally. Trace of disseminated pyrite.			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
293.00	293.26	VN	37	65	NUL	8	2-10 mm, banded carbonate/quartz/smokey-quartz veinlets, and two gouge veins (10 mm) hosted in strong propylitic/argilic altered granodiorite. The veinlets have multiple offsets (scale-like). The gouge vein consists in 60% light-grey clay, 30% quartz clast (<1 mm), 10% host rock clast (<1-3mm) and minor smeared sulphides (black clay). Trace of disseminated pyrite.			
								Py	1	DI
295.00	295.27	DY	37	30	NUL	1	28 cm, redish-brown aplite dyke (30TAC) cutting through strong argilic altered granodiorite. Dyke is crosscut by low angle (30TCA) joints with clay gouge, and subparallel carbonate veinlets. Minor fragments of argillic altered granodiorite found within. No mineralization.			
297.85	298.19	VN	37	30	NUL	1	gouged, brecciated, weakly sheared, argillic-propylitic granodiorite interval. Dark grey, veinlets appear deformed and locally host trace disseminated pyrite. Dark grey, sheared bands appear to interstitiallysurround brecciated clasts.			
299.85	300.01	VN	37	80	NUL	2	2-4mm, dark grey, pyrite bearing , veinlets, locally infilled by carbonates and surrounding a thinner 1-2mm, quartz veinlet. Pyrite is locally hosted in dark grey, veinlets. Veinlet at 300m is locally offset a parallel Tca fracture.			
300.60	300.65	VN	37	75	NUL	1	4 mm, dark grey veinlet locally hosting trace pyrite and locally offset by a a 1 mm, carbonate infilled fracture at oblique angle from pyrite bearing vein.			
300.85	300.92	VN	37	40	NUL	2	2mm-1 cm,dark grey, veinlets locally hosting disseminated pyrite and locally brecciating host grd. Minor carbonate infill is locally observed in vein interval.			
301.71	301.80	VN	37	90	NUL	1	4 mm, quartz-carbonate vein , perpendicular to core axis in moderately argillic granodiorite. 1-3mm, dark grey, bands locally hosting trace disseminated pyrite are observed within interval			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
302.00	302.36	VN	37	60	NUL	2	4-6mm, quartz-carbonate veinlet in gouge brecciated, fractured infilled granodiorite interval. disseminated pyrite is locally hosted within dark grey, bands within vein zone.			
303.80	304.00	GO	34	30	NUL	1	gouge, brecciated seam in altered granodiorite. Dark grey, slightly deformed veinlets locally host trace disseminated pyrite			
305.40	305.50	VN	37	75	NUL	3	3mm-2 cm, quartz veinlets with rhodocrosite and calcite infilling and surrounding quartz veins. Fractures locally offset vein on interval. Disseminated pyrite is locally hosted in dark grey bands within vein zone. Sub-mm, sphalerite is observed in rhodocrosite ricih zones			
307.67	307.87	VN	37	80	NUL	2	4 cm banded quartz/carbonate vein (80TAC) crosscut by a 4cm gouge vein at opposite direction (50TAC) hosted in argilic/propylitic altered granodiorite. Quartz, rodhocrosite, ankerite and minor smokey-quartz banded with minor vuggy texture, and bare of mineralization. Clay gouge with host rock fragments and a 2 mm dark clay (smeared sulphides) at hanging wall of the vein. Trace of disseminated pyrite in the gouge vein.			
								Py	0.2	DI
308.31	308.37	VN	37	60	NUL	1	1-2 cm, carbonate/quartz vein (60TAC) hosted in propylitic altered granodiorite. Banded and locally colloform texture, with minor smokey-quartz and 'iron stain'. No mineralization.			
315.55	315.71	FT	42	70	NUL	1	16 cm fault gouge with quartz and feldspar clasts in a white clay matrix. Forms a sharp contact with silicifed quartz feldspars porphyry at the footwall and moderately argyllic altered quartz feldspar porphyry at the hanging wall.			
315.77	315.84	VT	37	35	NUL	1	7 cm banded smokey quartz carbonate veinlets hosted in moderately propyllitic aterared granodiorite, strongly chloritized along vein contact. Veinlets are slightly offset along a joint set at 5 TAC. Minor pyrite mineralization along quartz veinlets.			
								Py	0.1	IN

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
323.56	323.74	VT	37	60	NUL	1	10 cm, banded brecciated smokey-quartz veinlet and milky-quartz veinlet with minor carbonate stringers section hosted in stongly propylitic/moderate potassic altered granodiorite. Bare of sulphide.			
323.84	323.95	VT	37	25	NUL	1	1 cm, carbonate breccia-veinlet with smokey-quartz clast and vuggy texture hosted in strongly propylitic altered granodiorite with weak potassic overprinting. Trace of disseminated pyrite at the edge of the veinlet.			
								Py	0.1	DI
330.68	330.97	VT	37	65	NUL	4	3-5 mm, banded carbonate and quartz (greyish) veinlet of two distinct zone hosted in strongly argilic/propylitic altered granodiorite. The carbonate veinlets are slightly brecciated and show trace of vuggy texture. The quartz veinlets cut those of carbonate in some places. Trace of disseminated pyrite in the host rock.			
								Py	0.5	DI
331.58	331.85	FT	42	40	NUL	1	20 cm section of gouge in contact at 30TAC with 8cm brecciated quartz vein at hanging wall and brecciated/weakly propylitic altered porphyric dyke at footwall. 50-70% of host rock fragment, 50-30% banded clay from light grey to black. No mineralization.			
333.15	334.10	FT	42	5	NUL	1	Broken rock, gouge with fragmented rock and brecciated clast along 1 meter throughout the core axis. The contact between the gouge and the footwall of strongly propylitic altered granodiorite begins at 334.10m. Grey and black clay (smeared sulphides) gouge with quartz and carbonate and minor pyrite.			
334.50	334.73	ST		65	NUL	3	2mm to one centimeter of brecciated quartz-ankerite stringers with minor smokey-quartz hosted in strongly propylitic altered granodiorite. The stringers are offset from a joint at 5TAC. Disseminated pyrite throughout, and rimming pyrite around some chloritized hornblend and quartz grains.			
								Py	1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
338.21	338.27	VT	37	75	NUL	1	1 cm, quartz-carbonate veinlet hosted in argillic/weakly propyllic altered granodiorite. The veinlet is banded with couple of mineralized smokey-quartz carbonate stringers. Disseminated pyrite associated with stringers and the footwall of the host rock.			
								Py	1	DI
340.13	340.27	VT	37	75	NUL	2	1 cm, banded smokey-quartz carbonate veinlet hosted in strong propyllic/weak phyllic altered granodiorite. One of the veinlets has a millimeter offset from a joint. Smokey quartz at the edge of the veinlet walls and ankerite in the centre with minor interstitial quartz. Disseminated pyrite associated with smokey-quartz, throughout the footwall of host rock.			
								Py	2	DI
342.46	342.76	VN	37	50	NUL	3	6 cm smokey quartz vein with minor carbonate, adjacent to a 6cm carbonate gauge at 50 TAC. Hosted in a strongly argyllic/weakly propyllitic altered granodiorite. 3 smokey quartz veinlets (3mm-15mm) in the hanging wall of the host rock. Trace of blebby pyrite (<1%) associated to the smokey quartz.			
								Py	0.5	BL
344.90	344.93	VN	37	60	NUL	1	quartz vein with partiall rhodocrosite and calcite infill. Vein hosts pyrite, and trace galena and sphalerite are observed in quartz and within rhodocrosite.			
348.57	348.58	VN	37	60	NUL	1	3mm, quartz-carbonate veinletwithin unaltered granodiorite. A sall 2 cm, propylitic alteration halo is observed within veinlet .			
350.80	350.85	VN	37	40	NUL	1	2 cm, quartz-carbonate vein within weakly potassic, propylitic granodiorite interval vein appears to crosscut through light gree, orange, fine grained intrusion within granodiorite interval.			
353.97	353.99	DY	37	40	NUL	2	3 mm, light pink aplite dyke intrusion in unaltered granodiorite			
358.00	358.02	VN	37	60	NUL	1	2mm, dark grey, fine grained, vein locally hosting trace, dissemianted pyrite in propylitic altered halo.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
360.36	360.40	VN	37	60	NUL	1	quartz-carbonate , semi chaotic, vein locally brecciating host grd. Ankerite and calcite appear toinfill and brecciate an exsisting quartz vein. Quartz-carbonate breccia crosscuts through 2-3mm, stringer veinlets locally hosting, trace disseminated pyrite			
360.75	361.00	VN	37	55	NUL	1	3 cm, dark purple, polymetallic vein in gouged, brecciated granodiorite interval. Vein locally hosts trace galena, pyrite, sphalerite and trace sub mm arseno pyrite Clear quartz and calcite surround vein. Shear brecciation zone is present at vein contact where 1-2mm, dark grey fine grained, deformed veinlets locally host disseminated pyrite.			
374.96	375.00	VN	37	80	NUL	4	quartz vein partially infilled by calcite and ankerite. Pyrite is hosted in dark grey, fine grained bands within vein zone. Ankerite appears to infill quartz and calcite infilled veinlet			
380.20	380.33	VN	37	30	NUL	1	1 cm, polymetallic quartz vein containing blebby pyrite, blebby galena, sphalerite and trace sub-mm arseno pyrite. Most minerals are hosted within dark purplish , quartz vein. Darker quartz vein appears to infill an already existing clear quartz vein. Pyrite is locally hosted within dark grey, 1-2mm, bands in grd.			
382.00	382.05	VN	37	30	NUL	1	4 mm, quartz-carbonate veinlets in weakly argillic, potassic granodiorite (no significant mineralization observed in veinlet)			
382.72	382.78	VN	37	30	NUL	1	4mm, quartz-carbonate veinlet in trace potassic granodiorite			
384.71	384.75	VN	37	60	NUL	2	2-3 mm, quartz-carbonate slightly deformed veinlets in propylitic altered granodiorite			
387.06	387.10	VN	37	50	NUL	1	3 cm, quartz-carbonate vein. Ankerite and calcite locally infill and brecciate quartz vein. Trace sub-mm, sphalerite is present within quartz vein. Trace, disseminated pyrite is locally hosted within 1-2mm,dark grey bands within vein section			
391.63	391.71	VT	37	50	NUL	2	Two narrow euhedral quartz veins that are vuggy (dissolution). Veins cut propylitic altered granodiorite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
394.34	394.35	ST		70	NUL	1	narrow (1cm) yellow to beige coloured chalcedony veinlet cutting argillic/propylitic altered granodiorite.			
396.50	396.54	VN	37	75	NUL	1	light grey chalcedony vein with brecciated clasts of argillic altered granodiorite within.			
397.70	398.50	ST		60	NUL	7	narrow light grey chalcedony stringers cutting argillic/potassic(?) altered granodiorite.			
401.73	402.18	VB	37	75	NUL	2	two quartz carbonate breccia veins cutting strongly propylitic to phyllic altered granodiorite. Black breccia present ith quartz and carbonate clasts, along with minor disseminated pyrite.			
								Py	1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383021	6889080	1440.844	129.54

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-456

CLAIM: YC37992

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 4.57m, Out

Drilling Dates: Sep 23 - Sep 24, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
9	35.56	-50.4	Reflex
129	36.96	-49.9	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1	1	OVB
1	4.1	3.1	GRD
4.1	8	3.9	GRD
8	9	1	GRD
9	10.67	1.67	GRD
10.67	13.72	3.05	GRD
13.72	16.76	3.04	GRD
16.76	17.5	0.74	GRD
17.5	18.5	1	GRD
18.5	19.89	1.39	GRD
19.89	20.5	0.61	GRD
20.5	21.34	0.84	GRD
21.34	22.66	1.32	GRD
22.66	24.38	1.72	GRD
24.38	25.91	1.53	GRD
25.91	26.66	0.75	GRD

SAMPLES	
Numbers:	K295740 to K295854
Total:	115
Batch:	090, 091, 093, 094
Certificates:	WH19254152, WH19254158, WH19254169, WH19254205

COMMENTS

26.66	27.13	0.47	QFP
27.13	27.5	0.37	GRD
27.5	28.64	1.14	GRD
28.64	33.5	4.86	GRD
33.5	34.65	1.15	GRD
34.65	37.61	2.96	GRD
37.61	38.9	1.29	GRD
38.9	39.1	0.2	GRD
39.1	40.1	1	GRD
40.1	40.3	0.2	GRD
40.3	41	0.7	GRD
41	41.48	0.48	GRD
41.48	42.6	1.12	GRD
42.6	44	1.4	GRD
44	50	6	GRD
50	52.5	2.5	GRD
52.5	53.5	1	GRD
53.5	55	1.5	GRD
55	57.9	2.9	GRD
57.9	58.9	1	GRD
58.9	61.9	3	GRD
61.9	63	1.1	GRD
63	64.7	1.7	GRD
64.7	72	7.3	GRD
72	72.3	0.3	GRD
72.3	75.22	2.92	QFP
75.22	82.6	7.38	GRD
82.6	84.2	1.6	GRD
84.2	85	0.8	GRD
85	86	1	GRD
86	89	3	GRD
89	92.5	3.5	GRD

92.5	97.5	5	GRD
97.5	99.2	1.7	GRD
99.2	105.2	6	GRD
105.2	107	1.8	GRD
107	113.1	6.1	GRD
113.1	114.7	1.6	GRD
114.7	117.35	2.65	GRD
117.35	118.9	1.55	GRD
118.9	119.05	0.15	APL
119.05	121.2	2.15	GRD
121.2	122.09	0.89	GRD
122.09	122.19	0.1	VEN
122.19	125.5	3.31	GRD
125.5	126.18	0.68	GRD
126.18	126.49	0.31	GRD
126.49	129.54	3.05	GRD

Box Log

KL -19-456

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1	5.56
2	5.56	9.23
3	9.23	13.16
4	13.16	16.76
5	16.76	20.66
6	20.66	24.62
7	24.62	28.64
8	28.64	33.09
9	33.09	37.2
10	37.2	41.48
11	41.48	45.82
12	45.82	50.23
13	50.23	54.52
14	54.52	58.77
15	58.77	62.76
16	62.76	67.2
17	67.2	71.48
18	71.48	75.11
19	75.11	79.2
20	79.2	83.35
21	83.35	87.11
22	87.11	91.44
23	91.44	95.36
24	95.36	99.5
25	99.5	103.95
26	103.95	108.4
27	108.4	112.89
28	112.89	117.35
29	117.35	121.66
30	121.66	125.93
31	125.93	129.54

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.00	1.00	OVB	--	overburden							
1.00	4.10	3.10	GRD	--	mixture of 40% GRD fragments and 60 % overburden							
						MD	BF					
4.10	8.00	3.90	GRD	MG	heavily fratured, weakly argillic altered granodiorte; bleached and oxidized and fragmental.							
						MD	GY		ARG	2I		
						MD	BN		OXI	4I		
						LT	WH		BLE	3I		
8.00	9.00	1.00	GRD	MG	heavily fractured, gouged granodiorite ; potentially related to faulting							
						MD	BN		CLY	5I		
						LT	BN					
9.00	10.67	1.67	GRD	MG	moderately argillic altered, heaviy oxidized and bleached, fractured, fragmental granodioirte; potentially faulted							
						MD	GY		ARG	2I		
						MD	BN		OXI	3I		
						LT	WH		BLE	3I		
10.67	13.72	3.05	GRD	MG	bleached and oxidized, semi-competent argillically alterered granodiorite; with patchy pervasive oxidative staining aroud fractures							
						MD	GY		ARG	2I		
						LT	BN		BLE	3I		
						LT	GY		OXI	3I		
13.72	16.76	3.04	GRD	MG	heavily fractured and rubbly light brown, gouged granodiorite; likely completely faulted. No solid upper or lower contacts, though							
						MD	BN		CLY	5I		
						LT	BN					
16.76	17.50	0.74	GRD	MG	rubbly, gravelly, faulte granodorite with pyrite rich fragments found throughout. Medium brown to brownish grey							
						MD	GY					
						MD	BN		CLY	5I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
17.50	18.50	1.00	GRD	MG	weak to moderately argillic altered granodiorite, heavily oxidized and bleached with weak oxidative staining along hairline fractures							
						MD	BN		OXI	4I		
						LT	GY		CLY	3I		
						LT	BN		BLE	4I		
18.50	19.89	1.39	GRD	MG	fualted, rubbly granodiorite, bleached and oxidized, likely related to faulting. 30 cm interval in centre of interval has pyrite bearing granodiorite fragments							
						MD	BN		OXI	3I	Py	1
						MD	GY		BLE	3I		
									CLY	2I		
19.89	20.50	0.61	GRD	MG	oxidized and bleached, weakly argillic altered granodiorite with no visible sulfides							
						MD	GY		ARG	1I		
						LT	BN					
20.50	21.34	0.84	GRD	MG	weakly clay and argillic altered granodiorite with two low angle TCA pyrite bearing veinelts that are 3 mm wide (trend 25 tCA							
						MD	BN		CLY	3I	Py	1
						LT	BN		OXI	3I		
									BLE	3I		
21.34	22.66	1.32	GRD	MG	modeately clay altered and weakly bleached & oxidized granodiorite with weak oxidative staining around hairline fractures that trend 70 TCA							
						MD	BN		CLY	2I		
						LT	BN		OXI	4I		
									BLE	4I		
22.66	24.38	1.72	GRD	MG	moderately clay altered, heavily oxidized and strongly bleached granodioirte with weak pyrite bearing 30 TCA quartz veinlets (three in interval).							
						MD	BN		OXI	4I		
						LT	BN		CLY	2I	Py	1
									BLE	4I		
24.38	25.91	1.53	GRD	MG	heavily fractured, heavliy oxidized and clay altered granodiorite with sections of light grey gouge, and weak pyrite disseminated throughout. Likely related to faulting, and contais mienralized fault goue and pyrite bearing granodiorite fragment							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		BLE	2I	Py	1
						LT	GY		PRO	2I		
						LT	BN		CLY	5I		
									OXI	3I		
25.91	26.66	0.75	GRD	MG	fracuted, clay altered, granodiorite with a low angle pyrite bearing fracture trending 0-10 TCA, and one set of repeating 1 cm wide stepped pyrite veinlets that are 1 cm wide and trend 45 TCA.							
						LT	WH		CLY	4I	Py	2
						LT	GY		ARG	3I		
						LT	BN					
26.66	27.13	0.47	QFP	MG	bleached light brownish grey qfp dyke with a sharp upper and lower contact that trends 80 TCA							
						LT	BN		BLE	3I		
						LT	GY		OXI	3I		
									CLY	2I		
27.13	27.50	0.37	GRD	MG	bleached, strongly argillic altered granodiorite withdissemianted pyrite in groundmass							
						MD	GY		PRO	2I		
						LT	GY		ARG	3I	Py	0.5
27.50	28.64	1.14	GRD	MG	bleached, oxidized granodiorite with set of 10 small hairline fractures with weak vuggy textures, and weak pyrite mineralixataion within them							
						MD	BN		OXI	3I	Py	1
						LT	GY		CLY	3I		
						LT	BN		BLE	3I		
28.64	33.50	4.86	GRD	MG	patchily oxidized, weakly propylitic and trace patchily silicified granodiorite, with weak oxidative staining on and around fractures. No sulfide bearing stringers							
						MD	GY		PRO	1I		
						LT	GN		SIL	1I		
33.50	34.65	1.15	GRD	MG	heavily clay alterd, gouged and fractured granodiorite							
						MD	BN		CLY	3I		
						LT	BN					
34.65	37.61	2.96	GRD	MG	weakly propylitic and weakly oxdiative stained along frcatured medium grey granodioirte							
						MD	BN		OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		BLE	3I		
									PRO	1I		
37.61	38.90	1.29	GRD	MG	weakly clay altered granodiorite							
						MD	BN		CLY	1I		
38.90	39.10	0.20	GRD	MG	set of 3 low angle (30 TCA) pyrite bearing quartz veinlets in strongly clay altered granodioirte							
						MD	GY		CLY	4I	Py	5
						MD	BN					
39.10	40.10	1.00	GRD	MG	moderately clay altered granodiorite and weakly argillic altered granodioirte							
						LT	GY		OXI	2I		
						LT	WH		BLE	2I		
									ARG	2I		
40.10	40.30	0.20	GRD	MG	one 30 TCA pyrite bearing quartz veinlet 1 cm wide in clay altered granodioirte							
						MD	GY					
						LT	BN		CLY	4I	Py	0.5
40.30	41.00	0.70	GRD	MG	unaltered granodioirte							
						MD	GY					
41.00	41.48	0.48	GRD	MG	weak oxidative stianing on fractures and weak argillic alteration							
						MD	BN		ARG	1I		
						LT	BN					
41.48	42.60	1.12	GRD	MG	weakly propylitic stained and altered granodiorite with weak pryite stringers trening ~20 TCA							
						MD	GY		PRO	2I	Py	1
						MD	GN					
42.60	44.00	1.40	GRD	MG	trace propylitic altered grano							
44.00	50.00	6.00	GRD	MG	weakl argillic and propylitic altered granodiorite with evenly spaecd, low ange to parallel to core axis, 1 cm wide pyrite veinlets in competent core. Very interesting, these pyrite veinlets paralleling core could be the feeder veinlets for the polymetallic veins that cut 70/80 TCA observed in this hole/other holes. These parallel pyrite bearing veinlets cut + - 10 TCA over 1 m + of core.							
						MD	GY		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		ARG	2I	Py	1
50.00	52.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
52.50	53.50	1.00	GRD	MG	bleached and oxidized, weakly argillli caltered granodiorite							
						MD	BN		BLE	2I		
						LT	BN		CLY	3I		
									OXI	2I		
									ARG	3I		
53.50	55.00	1.50	GRD	MG	unaltered granodioirte							
55.00	57.90	2.90	GRD	MG	medium grained, patchily propylitic and argillic altered granodiorite with oxidative staining on fractures and dark grey siliceous alteration haloes on pyrite bearing quartz stringers trending 60 TCA.							
						MD	GY		BLE	2I		
						MD	BN		PRO	2I		
						LT	BN		SIL	1I		
									ARG	2I		
									OXI	2I		
57.90	58.90	1.00	GRD	MG	clay altered, weakly gouged, granodiorite with three pyrite bearing quartz veinlets trending 70 TCA							
						MD	GY		ARG	3I		
						LT	BN		CLY	4I	Py	1
						LT	GY					
58.90	61.90	3.00	GRD	MG	clay altered, oxidized, light brown to grey granodiorite with weak argillic alteration an rare pyrite stringers							
						MD	BN		SIL	1I	Py	1
						MD	GY		PRO	1I		
									CLY	1I		
61.90	63.00	1.10	GRD	MG	clay altered, weakly gouged, granodiorite with one pyrite bearing quartz veinlet trending 10 TCA							
						MD	BN		CLY	2I		
						DK	GY		OXI	2I	Py	1
									ARG	2I		
63.00	64.70	1.70	GRD	MG	clay altered, bleached and oxidized granoiorite, light grey to brown							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		OXI	2I		
						LT	BN		CLY	4I		
						LT	GY		BLE	2I		
64.70	72.00	7.30	GRD	MG	patchy argillic and propylitic altered granodiorite with `patchy striner veinlets dispersed throughout, trending 30-40 TCA an with trace disseminted pyrite.							
						MD	GY		PRO	2I	Py	0.1
						LT	GY		CLY	3I		
						LT	BN		ARG	2I		
72.00	72.30	0.30	GRD	MG	faulte clay altered granodiorite							
						MD	GY		CLY	4I		
						LT	GY					
72.30	75.22	2.92	QFP	MG	fractured, light grey qfp dyke with patchy oxidative staining, sharp upper and lower contact trends 70 TCA							
						MD	GY		OXI	2I		
75.22	82.60	7.38	GRD	MG	patchy propylitic and argillic altered granodiorite with weak haieline stringers trending 60 TCA with trace pyrite							
						MD	GY		PRO	2I	Py	0.1
						MD	GN		ARG	2I		
						LT	BN					
82.60	84.20	1.60	GRD	MG	frcutred, rubbly clay altered granodiortie							
						MD	GY		CLY	3I		
						LT	GY					
84.20	85.00	0.80	GRD	MG	gouged, light greysih brown granodioirte, strongly argillic altered							
						LT	GY		CLY	5I		
						LT	BN					
85.00	86.00	1.00	GRD	MG	moderately pro altered grd with weak dissem py thorghout							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	2I		
86.00	89.00	3.00	GRD	MG	unaltered granodiorite							
89.00	92.50	3.50	GRD	MG	moderately propylitic an argillic altered granodioirte with weak pyrite bearing qvs 1 cm wide trending 30 TCA							
						LT	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		ARG	3I		
92.50	97.50	5.00	GRD	MG	unaltered granodioirte							
						MD	GY					
97.50	99.20	1.70	GRD	MG	moderately propylitic and argillic altered granodiorite with weak pyrite bearing veinelts 70 TCA							
						LT	GY		ARG	3I		
						LT	GN		PRO	3I		
99.20	105.20	6.00	GRD	MG	unaltered granodiorite							
						MD	GY					
105.20	107.00	1.80	GRD	MG	weakly propylitic altered grd with 3 30 TCA pyrite stringers							
						MD	GY		PRO	1I	Py	0.5
107.00	113.10	6.10	GRD	MG	unaltered granodiorite							
						MD	GY					
113.10	114.70	1.60	GRD	MG	moderately propyltiic altered granodiorite with 4 pyrite beraing quartz stringers trending 70 TCA							
									PRO	2I	Py	0.5
114.70	117.35	2.65	GRD	MG	unaltered granodiorite							
						MD	GY					
117.35	118.90	1.55	GRD	MG	weakly propylitic altered granodiorite with4 barren 30 TCA veinlets							
						MD	GY					
						LT	GN					
						LT	GY		PRO	1I		
118.90	119.05	0.15	APL	FG	finegrained aplit yke trending 70 TCA, sharp upper and lower contact							
						LT	BN					
						LT	PK					
119.05	121.20	2.15	GRD	MG	unaltered granoioite							
						MD	GY					
121.20	122.09	0.89	GRD	MG	clay altered, moderately propylitic altered grd with sporadic clay alteration, likely a lower faulted contact with a 7 cm wide quartz vein, trending 70 TCA							
						MD	GY		CLY	4I	Py	0.5
						LT	GN		PRO	3I		
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.09	122.19	0.10	VEN	MG	banded dark grey to white quartz vein with banded pyrite and fine=grained galena sharp upper and lower ctct trending 70 TCA							
						MD	GY					
						LT	WH		SIL	5I	Gn	0.5
						DK	GY				Py	5
122.19	125.50	3.31	GRD	MG	moderately propylitic and argillic altered granoirote with sporadic 70 and 30 TCA veinlets barren of sulfides							
						MD	GY		ARG	2I		
						MD	GY					
						LT	GY		PRO	2I		
125.50	126.18	0.68	GRD	MG	unaltered granodioirte							
						MD	GY					
126.18	126.49	0.31	GRD	MG	silicified, stronlgy propylitic altered granodiorite with one 5 cm pyrite bearing quartz veinlet with weak fine-grained galena.							
						MD	GY		SIL	2I		
						LT	GN		PRO	3I		
						DK	GY					
126.49	129.54	3.05	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.00	1.00	OVB	OVB	--	overburden
1.00	4.10	3.10	GRD	OVB	--	mixture of 40% GRD fragments and 60 % overburden
4.10	8.00	3.90	GRD	GRDA	MG	heavily fratured, weakly argillic altered granodiorte; bleached and oxidized and fragmental.
8.00	9.00	1.00	GRD	GRDF	MG	heavily fractured, gouged granodiorite ; potentially related to faulting
9.00	10.67	1.67	GRD	GRDA	MG	moderately argillic altered, heaviy oxidized and bleached, fractured, fragmental granodioirte; potentially faulted
10.67	13.72	3.05	GRD	GRDA	MG	bleached and oxidized, semi-competent argillically alterered granodiorite; with patchy pervasive oxidative staining aroud fractures
13.72	16.76	3.04	GRD	GRDF	MG	heavily fractured and rubbly light brown, gouged granodiorite; likely completely faulted. No solid upper or lower contacts, though
16.76	17.50	0.74	GRD	FLTM	MG	rubbly, gravelly, faulte granodorite with pyrite rich fragments found throughout. Medium brown to brownish grey
17.50	18.50	1.00	GRD	GRDA	MG	weak to moderately argillic altered granodiorite, heavily oxidized and bleached with weak oxidative staining along hairline fractures
18.50	19.89	1.39	GRD	GRDF	MG	fualted, rubbly granodiorite, bleached and oxidized, likely related to faulting. 30 cm interval in centre of interval has pyrite bearing granodiorite fragments
19.89	20.50	0.61	GRD	GRDA	MG	oxidized and bleached, weakly argillic altered granodiorite with no visible sulfides
20.50	21.34	0.84	GRD	GRDM	MG	weakly clay and argillic altered granodiorite with two low angle TCA pyrite bearing veinelts that are 3 mm wide (trend 25 tCA
21.34	22.66	1.32	GRD	GRDA	MG	modeately clay altered and weakly bleached & oxidized granodiorite with weak oxidative staining around hairline fractures that trend 70 TCA
22.66	24.38	1.72	GRD	GRDM	MG	moderately clay altered, heavily oxidized and strongly bleached granodioirte with weak pyrite bearing 30 TCA quartz veinlets (three in interval).
24.38	25.91	1.53	GRD	FLTM	MG	heavily fractured, heavliy oxidized and clay altered granodiorite with sections of light grey gouge, and weak pyrite disseminated throughout. Likely related to faulting, and contais mienralized fault goue and pyrite bearing granodiorite fragment
25.91	26.66	0.75	GRD	GRDM	MG	fracuted, clay altered, granodiorite with a low angle pyrite bearing fracture trending 0-10 TCA, and one set of repeating 1 cm wide stepped pyrite veinlets that are 1 cm wide and trend 45 TCA.
26.66	27.13	0.47	QFP	DYK	MG	bleached light brownish grey qfp dyke with a sharp upper and lower contact that trends 80 TCA
27.13	27.50	0.37	GRD	GRDM	MG	bleached, strongly argillic altered granodiorite withdissemianted pyrite in groundmass
27.50	28.64	1.14	GRD	GRDA	MG	bleached, oxidized granodiorite with set of 10 small hairline fractures with weak vuggy textures, and weak pyrite mineralixataion within them

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
28.64	33.50	4.86	GRD	GRDA	MG	patchily oxidized, weakly propylitic and trace patchily silicified granodiorite, with weak oxidative staining on and around fractures. No sulfide bearing stringers
33.50	34.65	1.15	GRD	GRDF	MG	heavily clay alterd, gouged and fractured granodiorite
34.65	37.61	2.96	GRD	GRDA	MG	weakly propylitic and weakly oxdiative stained along frcatured medium grey granodioirte
37.61	38.90	1.29	GRD	GRD	MG	weakly clay altered granodiorite
38.90	39.10	0.20	GRD	GRDM	MG	set of 3 low angle (30 TCA) pyrite bearing quartz veinlets in strongly clay altered granodioirte
39.10	40.10	1.00	GRD	GRDA	MG	moderately clay altered granodiorite and weakly argillic altered granodioirte
40.10	40.30	0.20	GRD	GRDM	MG	one 30 TCA pyrite bearing quartz veinlet 1 cm wide in clay altered granodioirte
40.30	41.00	0.70	GRD	GRD	MG	unaltered granodioirte
41.00	41.48	0.48	GRD	GRDA	MG	weak oxidative stianing on fractures and weak argillic alteration
41.48	42.60	1.12	GRD	GRDM	MG	weakly propylitic stained and altered granodiorite with weak pryite stringers trening ~20 TCA
42.60	44.00	1.40	GRD	GRDA	MG	trace propylitic altered grano
44.00	50.00	6.00	GRD	GRDM	MG	weakl argillic and propylitic altered granodiorite with evenly spaecd, low ange to parallel to core axis, 1 cm wide pyrite veinlets in competent core. Very interesting, these pyrite veinlets paralleling core could be the feeder veinlets for the polymetallic veins that cut 70/80 TCA observed in this hole/other holes. These parallel pyrite bearing veinlets cut + - 10 TCA over 1 m + of core.
50.00	52.50	2.50	GRD	GRD	MG	unaltered granodiorite
52.50	53.50	1.00	GRD	GRDA	MG	bleached and oxidized, weakly argillli caltered granodiorite
53.50	55.00	1.50	GRD	GRD	MG	unaltered granodioirte
55.00	57.90	2.90	GRD	GRDA	MG	medium grained, patchily propylitic and argillic altered granodiorite with oxidative staining on fractures and dark grey siliceous alteration haloes on pyrite bearing quartz stringers trending 60 TCA.
57.90	58.90	1.00	GRD	GRDM	MG	clay altered, weakly gouged, granodiorite with three pyrite bearing quartz veinlets trending 70 TCA
58.90	61.90	3.00	GRD	GRDA	MG	clay altered, oxidized, light brown to grey granodiorite with weak argillic alteration an rare pyrite stringers
61.90	63.00	1.10	GRD	GRDM	MG	clay altered, weakly gouged, granodiorite with one pyrite bearing quartz veinlet trending 10 TCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
63.00	64.70	1.70	GRD	GRDA	MG	clay altered, bleached and oxidized granoiorite, light grey to brown
64.70	72.00	7.30	GRD	GRDA	MG	patchy argillic and propylitic altered granodiorite with `patchy striner veinlets dispersed throughout, trending 30-40 TCA an with trace disseminted pyrite.
72.00	72.30	0.30	GRD	GRDF	MG	faulte clay altered granodiorite
72.30	75.22	2.92	QFP	DYK	MG	fractured, light grey qfp dyke with patchy oxidative staining, sharp upper and lower contact trends 70 TCA
75.22	82.60	7.38	GRD	GRDA	MG	patchy propylitic and argillic altered granodiorite with weak haieline stringers trending 60 TCA with trace pyrite
82.60	84.20	1.60	GRD	GRDF	MG	frcutred, rubbly clay altered granodiortie
84.20	85.00	0.80	GRD	GRDF	MG	gouged, light greysih brown granodioirte, strongly argillic altered
85.00	86.00	1.00	GRD	GRDM	MG	moderately pro altered grd with weak dissem py thorghout
86.00	89.00	3.00	GRD	GRD	MG	unaltered granodiorite
89.00	92.50	3.50	GRD	GRDA	MG	moderately propylitic an argillic altered granodioirte with weak pyrite bearing qvs 1 cm wide trending 30 TCA
92.50	97.50	5.00	GRD	GRD	MG	unaltered granodioirte
97.50	99.20	1.70	GRD	GRDA	MG	moderately propylitic and argillic altered granodiorite with weak pyrite bearing veinelts 70 TCA
99.20	105.20	6.00	GRD	GRD	MG	unaltered granodiorite
105.20	107.00	1.80	GRD	GRDA	MG	weakly propylitic altered grd with 3 30 TCA pyrite stringers
107.00	113.10	6.10	GRD	GRD	MG	unaltered granodiorite
113.10	114.70	1.60	GRD	GRDA	MG	moderately propyltiic altered granodiorite with 4 pyrite beraing quartz stringers trending 70 TCA
114.70	117.35	2.65	GRD	GRD	MG	unaltered granodiorite
117.35	118.90	1.55	GRD	GRDA	MG	weakly propylitic altered granodiorite with4 barren 30 TCA veinlets
118.90	119.05	0.15	APL	DYK	FG	finegrained aplit yke trending 70 TCA, sharp upper and lower contact
119.05	121.20	2.15	GRD	GRD	MG	unaltered granoioite
121.20	122.09	0.89	GRD	GRDF	MG	clay altered, moderately propylitic altered grd with sporadic clay alteration, likely a lower faulted contact with a 7 cm wide quartz vein, trending 70 TCA
122.09	122.19	0.10	VEN	VEIN	MG	banded dark grey to white quartz vein with banded pyrite and fine=grained galena sharp upper and lower ctct trending 70 TCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
122.19	125.50	3.31	GRD	GRDA	MG	moderately propylitic and argillic altered granoirote with sporadic 70 and 30 TCA veinlets barren of sulfides
125.50	126.18	0.68	GRD	GRD	MG	unaltered granodioirte
126.18	126.49	0.31	GRD	GRDM	MG	silicified, stronlgy propylitic altered granodiorite with one 5 cm pyrite bearing quartz veinlet with weak fine-grained galena.
126.49	129.54	3.05	GRD	GRD	MG	unaltered granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.00	1.00	OVB	--	overburden							
1.00	4.10	3.10	GRD	--	mixture of 40% GRD fragments and 60 % overburden							
						MD	BF					
4.10	8.00	3.90	GRD	MG	heavily fratured, weakly argillic altered granodiorte; bleached and oxidized and fragmental.							
						MD	GY		ARG	2I		
						MD	BN		BLE	3I		
						LT	WH		OXI	4I		
8.00	9.00	1.00	GRD	MG	heavily fractured, gouged granodiorite ; potentially related to faulting							
						LT	BN		CLY	5I		
						MD	BN					
9.00	10.67	1.67	GRD	MG	moderately argillic altered, heaviy oxidized and bleached, fractured, fragmental granodioirte; potentially faulted							
						LT	WH		BLE	3I		
						MD	BN		OXI	3I		
						MD	GY		ARG	2I		
10.67	13.72	3.05	GRD	MG	bleached and oxidized, semi-competent argillically alterered granodiorite; with patchy pervasive oxidative staining aroud fractures							
						LT	GY		BLE	3I		
						MD	GY		ARG	2I		
						LT	BN		OXI	3I		
13.72	16.76	3.04	GRD	MG	heavily fractured and rubbly light brown, gouged granodiorite; likely completely faulted. No solid upper or lower contacts, though							
						MD	BN					
						LT	BN		CLY	5I		
16.76	17.50	0.74	GRD	MG	rubbly, gravelly, faulte granodorite with pyrite rich fragments found throughout. Medium brown to brownish grey							
						MD	GY					
						MD	BN		CLY	5I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
17.50	18.50	1.00	GRD	MG	weak to moderately argillic altered granodiorite, heavily oxidized and bleached with weak oxidative staining along hairline fractures							
						LT	BN		OXI	4I		
						LT	GY		BLE	4I		
						MD	BN		CLY	3I		
18.50	19.89	1.39	GRD	MG	fualted, rubbly granodiorite, bleached and oxidized, likely related to faulting. 30 cm interval in centre of interval has pyrite bearing granodiorite fragments							
									OXI	3I		
						MD	GY		CLY	2I	Py	1
						MD	BN		BLE	3I		
19.89	20.50	0.61	GRD	MG	oxidized and bleached, weakly argillic altered granodiorite with no visible sulfides							
						MD	GY					
						LT	BN		ARG	1I		
20.50	21.34	0.84	GRD	MG	weakly clay and argillic altered granodiorite with two low angle TCA pyrite bearing veinelts that are 3 mm wide (trend 25 tCA							
						LT	BN		CLY	3I	Py	1
									OXI	3I		
						MD	BN		BLE	3I		
21.34	22.66	1.32	GRD	MG	modeately clay altered and weakly bleached & oxidized granodiorite with weak oxidative staining around hairline fractures that trend 70 TCA							
						MD	BN		OXI	4I		
									BLE	4I		
						LT	BN		CLY	2I		
22.66	24.38	1.72	GRD	MG	moderately clay altered, heavily oxidized and strongly bleached granodioirte with weak pyrite bearing 30 TCA quartz veinlets (three in interval).							
						LT	BN		CLY	2I	Py	1
									OXI	4I		
						MD	BN		BLE	4I		
24.38	25.91	1.53	GRD	MG	heavily fractured, heavliy oxidized and clay altered granodiorite with sections of light grey gouge, and weak pyrite disseminated throughout. Likely related to faulting, and contais mienralized fault goue and pyrite bearing granodiorite fragment							
						MD	BN		BLE	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		OXI	3I		
						LT	BN		CLY	5I		
									PRO	2I		
25.91	26.66	0.75	GRD	MG	fracuted, clay altered, granodiorite with a low angle pyrite bearing fracture trending 0-10 TCA, and one set of repeating 1 cm wide stepped pyrite veinlets that are 1 cm wide and trend 45 TCA.							
						LT	WH		ARG	3I	Py	2
						LT	GY		CLY	4I		
						LT	BN					
26.66	27.13	0.47	QFP	MG	bleached light brownish grey qfp dyke with a sharp upper and lower contact that trends 80 TCA							
						LT	BN		OXI	3I		
									BLE	3I		
						LT	GY		CLY	2I		
27.13	27.50	0.37	GRD	MG	bleached, strongly argillic altered granodiorite withdissemianted pyrite in groundmass							
						MD	GY		PRO	2I		
						LT	GY		ARG	3I	Py	0.5
27.50	28.64	1.14	GRD	MG	bleached, oxidized granodiorite with set of 10 small hairline fractures with weak vuggy textures, and weak pyrite mineralixataion within them							
						MD	BN		CLY	3I	Py	1
						LT	GY		OXI	3I		
						LT	BN		BLE	3I		
28.64	33.50	4.86	GRD	MG	patchily oxidized, weakly propylitic and trace patchily silicified granodiorite, with weak oxidative staining on and around fractures. No sulfide bearing stringers							
						MD	GY		PRO	1I		
						LT	GN		SIL	1I		
33.50	34.65	1.15	GRD	MG	heavily clay alterd, gouged and fractured granodiorite							
						MD	BN		CLY	3I		
						LT	BN					
34.65	37.61	2.96	GRD	MG	weakly propylitic and weakly oxdiative stained along frcatured medium grey granodioirte							
									OXI	3I		
						MD	BN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		BLE	3I		
37.61	38.90	1.29	GRD	MG	weakly clay altered granodiorite							
						MD	BN		CLY	1I		
38.90	39.10	0.20	GRD	MG	set of 3 low angle (30 TCA) pyrite bearing quartz veinlets in strongly clay altered granodioirte							
						MD	BN					
						MD	GY		CLY	4I	Py	5
39.10	40.10	1.00	GRD	MG	moderately clay altered granodiorite and weakly argillic altered granodioirte							
									ARG	2I		
						LT	WH		BLE	2I		
						LT	GY		OXI	2I		
40.10	40.30	0.20	GRD	MG	one 30 TCA pyrite bearing quartz veinlet 1 cm wide in clay altered granodioirte							
						MD	GY		CLY	4I	Py	0.5
						LT	BN					
40.30	41.00	0.70	GRD	MG	unaltered granodioirte							
						MD	GY					
41.00	41.48	0.48	GRD	MG	weak oxidative stianing on fractures and weak argillic alteration							
						LT	BN					
						MD	BN		ARG	1I		
41.48	42.60	1.12	GRD	MG	weakly propylitic stained and altered granodiorite with weak pryite stringers trening ~20 TCA							
						MD	GN		PRO	2I	Py	1
						MD	GY					
42.60	44.00	1.40	GRD	MG	trace propylitic altered grano							
44.00	50.00	6.00	GRD	MG	weakl argillic and propylitic altered granodiorite with evenly spaecd, low ange to parallel to core axis, 1 cm wide pyrite veinlets in competent core. Very interesting, these pyrite veinlets paralleling core could be the feeder veinlets for the polymetallic veins that cut 70/80 TCA observed in this hole/other holes. These parallel pyrite bearing veinlets cut + - 10 TCA over 1 m + of core.							
						LT	GY		PRO	1I		
						MD	GY		ARG	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
50.00	52.50	2.50	GRD	MG	unaltered granodiorite							
						MD	GY					
52.50	53.50	1.00	GRD	MG	bleached and oxidized, weakly argillli caltered granodiorite							
						MD	BN		OXI	2I		
						LT	BN		BLE	2I		
									ARG	3I		
									CLY	3I		
53.50	55.00	1.50	GRD	MG	unaltered granodioirte							
55.00	57.90	2.90	GRD	MG	medium grained, patchily propylitic and argillic altered granodiorite with oxidative staining on fractures and dark grey siliceous alteration haloes on pyrite bearing quartz stringers trending 60 TCA.							
						LT	BN		PRO	2I		
						MD	BN		ARG	2I		
									BLE	2I		
									SIL	1I		
						MD	GY		OXI	2I		
57.90	58.90	1.00	GRD	MG	clay altered, weakly gouged, granodiorite with three pyrite bearing quartz veinlets trending 70 TCA							
						LT	BN		CLY	4I	Py	1
						LT	GY		ARG	3I		
						MD	GY					
58.90	61.90	3.00	GRD	MG	clay altered, oxidized, light brown to grey granodiorite with weak argillic alteration an rare pyrite stringers							
						MD	BN		PRO	1I		
									CLY	1I		
						MD	GY		SIL	1I	Py	1
61.90	63.00	1.10	GRD	MG	clay altered, weakly gouged, granodiorite with one pyrite bearing quartz veinlet trending 10 TCA							
									ARG	2I		
						MD	BN		OXI	2I		
						DK	GY		CLY	2I	Py	1
63.00	64.70	1.70	GRD	MG	clay altered, bleached and oxidized granoiorite, light grey to brown							
						LT	BN		CLY	4I		
						LT	GY		BLE	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		OXI	2I		
64.70	72.00	7.30	GRD	MG	patchy argillic and propylitic altered granodiorite with `patchy striner veinlets dispersed throughout, trending 30-40 TCA an with trace disseminted pyrite.							
						MD	GY		CLY	3I		
						LT	GY		ARG	2I		
						LT	BN		PRO	2I	Py	0.1
72.00	72.30	0.30	GRD	MG	faulte clay altered granodiorite							
						LT	GY		CLY	4I		
						MD	GY					
72.30	75.22	2.92	QFP	MG	fractured, light grey qfp dyke with patchy oxidative staining, sharp upper and lower contact trends 70 TCA							
						MD	GY		OXI	2I		
75.22	82.60	7.38	GRD	MG	patchy propylitic and argillic altered granodiorite with weak haieline stringers trending 60 TCA with trace pyrite							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I	Py	0.1
						LT	BN					
82.60	84.20	1.60	GRD	MG	frcutred, rubbly clay altered granodiortie							
						LT	GY		CLY	3I		
						MD	GY					
84.20	85.00	0.80	GRD	MG	gouged, light greysih brown granodioirte, strongly argillic altered							
						LT	GY					
						LT	BN		CLY	5I		
85.00	86.00	1.00	GRD	MG	moderately pro altered grd with weak dissem py thorghout							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	2I		
86.00	89.00	3.00	GRD	MG	unaltered granodiorite							
89.00	92.50	3.50	GRD	MG	moderately propylitic an argillic altered granodioirte with weak pyrite bearing qvs 1 cm wide trending 30 TCA							
						LT	GY		ARG	3I		
						LT	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
92.50	97.50	5.00	GRD	MG	unaltered granodioirte							
						MD	GY					
97.50	99.20	1.70	GRD	MG	moderately propylitic and argillic altered granodiorite with weak pyrite bearing veinelts 70 TCA							
						LT	GY		PRO	3I		
						LT	GN		ARG	3I		
99.20	105.20	6.00	GRD	MG	unaltered granodiorite							
						MD	GY					
105.20	107.00	1.80	GRD	MG	weakly propylitic altered grd with 3 30 TCA pyrite stringers							
						MD	GY		PRO	1I	Py	0.5
107.00	113.10	6.10	GRD	MG	unaltered granodiorite							
						MD	GY					
113.10	114.70	1.60	GRD	MG	moderately propyltiic altered granodiorite with 4 pyrite beraing quartz stringers trending 70 TCA							
									PRO	2I	Py	0.5
114.70	117.35	2.65	GRD	MG	unaltered granodiorite							
						MD	GY					
117.35	118.90	1.55	GRD	MG	weakly propylitic altered granodiorite with4 barren 30 TCA veinlets							
						LT	GN					
						MD	GY		PRO	1I		
						LT	GY					
118.90	119.05	0.15	APL	FG	finegrained aplit yke trending 70 TCA, sharp upper and lower contact							
						LT	BN					
						LT	PK					
119.05	121.20	2.15	GRD	MG	unaltered granoioite							
						MD	GY					
121.20	122.09	0.89	GRD	MG	clay altered, moderately propylitic altered grd with sporadic clay alteration, likely a lower faulted contact with a 7 cm wide quartz vein, trending 70 TCA							
						MD	GY		PRO	3I	Py	0.5
						LT	GY					
						LT	GN		CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.09	122.19	0.10	VEN	MG	banded dark grey to white quartz vein with banded pyrite and fine=grained galena sharp upper and lower ctct trending 70 TCA							
						LT	WH				Gn	0.5
						DK	GY					
						MD	GY		SIL	5I	Py	5
122.19	125.50	3.31	GRD	MG	moderately propylitic and argillic altered granoirote with sporadic 70 and 30 TCA veinlets barren of sulfides							
						LT	GY					
						MD	GY		ARG	2I		
						MD	GY		PRO	2I		
125.50	126.18	0.68	GRD	MG	unaltered granodioirte							
						MD	GY					
126.18	126.49	0.31	GRD	MG	silicified, stronlgy propylitic altered granodiorite with one 5 cm pyrite bearing quartz veinlet with weak fine-grained galena.							
						MD	GY					
						DK	GY		PRO	3I		
						LT	GN		SIL	2I		
126.49	129.54	3.05	GRD	MG	unaltered granodiorite							
						MD	GY					

KL -19-456

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.52	34	0.00	0	--	1H	6W	
1.52	3.05	1.53	0.79	52	0.00	0	--	1H	5W	
3.05	4.57	1.52	1.02	67	0.00	0	--	2H	5W	
4.57	6.10	1.53	1.16	76	0.60	39	--	3H	3W	
6.10	7.62	1.52	1.36	89	0.00	0	--	3H	3W	
7.62	9.14	1.52	1.2	79	0.00	0	--	3H	3W	
9.14	10.67	1.53	1.1	72	0.32	21	--	3H	3W	
10.67	13.72	3.05	2.91	95	1.54	50	--	2H	3W	
13.72	16.76	3.04	3.04	100	0.00	0	--	2H	4W	
16.76	18.29	1.53	1.45	95	0.34	22	--	2H	4W	
18.29	21.34	3.05	2.66	87	1.13	37	--	2H	3W	
21.34	24.38	3.04	3	99	1.36	45	--	3H	2W	
24.38	25.91	1.53	1.31	86	0.00	0	--	2H	3W	
25.91	28.96	3.05	2.98	98	0.89	29	--	3H	2W	
28.96	32.00	3.04	3.04	100	1.80	59	--	4H	2W	
32.00	35.05	3.05	2.91	95	1.89	62	--	3H	2W	
35.05	38.10	3.05	2.98	98	2.01	66	--	3H	2W	
38.10	41.15	3.05	3.02	99	2.03	67	--	3H	2W	
41.15	44.20	3.05	3.05	100	2.06	68	--	4H	2W	
44.20	47.24	3.04	3.03	100	2.92	96	--	4H	2W	
47.24	50.29	3.05	3.05	100	2.66	87	--	4H	2W	
50.29	53.34	3.05	3.05	100	2.67	88	--	4H	2W	
53.34	56.39	3.05	3.05	100	2.14	70	--	3H	3W	
56.39	59.44	3.05	3.02	99	1.07	35	--	3H	3W	
59.44	62.48	3.04	2.89	95	0.51	17	--	2H	3W	
62.48	65.53	3.05	3	98	1.41	46	--	3H	2W	
65.53	68.58	3.05	3.05	100	2.31	76	--	3H	3W	
68.58	71.63	3.05	3.05	100	1.92	63	--	3H	3W	
71.63	74.68	3.05	2.93	96	0.71	23	--	3H	3W	highly fractured

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
74.68	77.72	3.04	3.01	99	1.50	49	--	2H	2W	to section highly fractured
77.72	80.77	3.05	3.02	99	0.95	31	--	3H	3W	
80.77	83.82	3.05	2.88	94	1.75	57	--	3H	2W	highly friable section near bottom
83.82	86.26	2.44	2.42	99	0.43	18	--	2H	2W	highly friable section in middle to of section
86.26	88.39	2.13	2.12	100	1.25	59	--	3H	1W	
88.39	91.44	3.05	3.02	99	2.21	72	--	3H	1W	
91.44	94.49	3.05	3.02	99	2.21	72	--	3H	1W	
94.49	97.54	3.05	3.05	100	1.94	64	--	4H	1W	
97.54	100.58	3.04	3.04	100	2.83	93	--	4H	1W	
100.58	103.63	3.05	2.97	97	2.55	84	--	4H	1W	
103.63	106.68	3.05	2.68	88	1.89	62	--	4H	1W	
106.68	108.20	1.52	1.51	99	1.32	87	--	4H	1W	
108.20	111.25	3.05	3.02	99	2.63	86	--	4H	1W	
111.25	114.30	3.05	2.96	97	2.67	88	--	3H	1W	
114.30	117.35	3.05	3.04	100	2.84	93	--	3H	1W	
117.35	120.40	3.05	2.94	96	2.38	78	--	3H	1W	
120.40	122.83	2.43	2.39	98	1.22	50	--	3H	1W	
122.83	124.97	2.14	2.02	94	1.05	49	--	3H	1W	
124.97	126.49	1.52	1.43	94	0.51	34	--	3H	1W	
126.49	129.54	3.05	3.05	100	1.65	54	--	3H	1W	EOH

KL -19-456

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
3	18.57	GRD	
4	2.954	GRD	
5	3.386	GRD	
6	6.525	GRD	
7	8.095	GRD	
8	0.213	GRD	
8	0.213	GRD	
9	0.234	GRD	
9	0.234	GRD	
10	3.586	GRD	
11	0.298	GRD	
12	0.717	GRD	
13	12.28	GRD	
14	0.507	GRD	
15	0.128	GRD	
16	0.256	GRD	
17	0.176	GRD	
18	0.206	GRD	
19	0.344	GRD	
20	7.145	GRD	
21	0.54	GRD	
22	3.404	GRD	
23	0.318	GRD	
24	0.286	GRD	
25	0.208	GRD	
26	0.272	GRD	
27	0.467	QFP	
28	0.775	GRD	
29	0.342	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.688	GRD	
31	7.144	GRD	
32	14	GRD	
33	0.868	GRD	
34	0.357	GRD	
35	2.989	GRD	
36	0.48	GRD	
37	0.605	GRD	
38	11.6	GRD	
39	0.196	GRD	
40	0.38	GRD	
41	5.701	GRD	
41	5.701	GRD	
42	16.68	GRD	
43	18.11	GRD	
44	0.343	GRD	
44	0.343	GRD	
45	0.514	GRD	
46	0.228	GRD	
47	1.62	GRD	
48	0.836	GRD	
49	0.596	GRD	
50	15.49	GRD	
50	15.49	GRD	
51	6.055	GRD	
52	14.22	GRD	
53	0.69	GRD	
54	12.61	GRD	
55	1.263	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	1.263	GRD	
56	9.786	GRD	
57	3.913	GRD	
58	0.498	GRD	
59	0.284	GRD	
60	0.855	GRD	
61	0.068	GRD	
62	0.28	GRD	
63	0.408	GRD	
63	0.408	GRD	
64	0.192	GRD	
65	1.786	GRD	
66	0.657	GRD	
67	0.63	GRD	
68	0.369	GRD	
69	0.387	GRD	
70	0.377	GRD	
71	0.502	GRD	
72	0.417	GRD	
72	0.417	GRD	
73	0.488	QFP	
74	0.292	QFP	
75	0.267	QFP	
76	0.449	GRD	
77	0.614	GRD	
78	0.17	GRD	
79	0.491	GRD	
80	0.32	GRD	
81	0.362	GRD	
82	1.576	GRD	
83	11.32	GRD	
84	14.11	GRD	
85	0.63	GRD	
85	0.63	GRD	
86	0.481	GRD	
86	0.481	GRD	
87	0.426	GRD	
88	16.83	GRD	
89	0.365	GRD	
89	0.365	GRD	
90	0.389	GRD	
91	0.748	GRD	
92	0.721	GRD	
93	18.37	GRD	
94	1.295	GRD	
95	4.163	GRD	
96	22.17	GRD	
97	11.78	GRD	
98	4.405	GRD	
99	0.514	GRD	
100	19.15	GRD	
101	3.76	GRD	
102	10.19	GRD	
103	6.939	GRD	
104	18.24	GRD	
105	0.477	GRD	
106	7.329	GRD	
107	1.727	GRD	
107	1.727	GRD	
108	18.64	GRD	
109	12.89	GRD	
110	18.68	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
111	19.389	GRD	
112	17.05	GRD	
113	22.3	GRD	
114	0.701	GRD	
115	10.94	GRD	
116	7.599	GRD	
117	0.222	GRD	
118	0.459	GRD	
119	2.507	APL	
120	21.81	GRD	
121	17.99	GRD	
122	0.236	GRD	
123	0.543	GRD	
124	0.719	GRD	
125	1.126	GRD	
126	18.16	GRD	
127	3.756	GRD	
128	24.48	GRD	
129	20.08	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-456

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295773	☐	19-091	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295789	☐	19-091	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295796	☐	19-091	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295807	☐	19-093	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295819	☐	19-093	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295827	☐	19-093	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295746	☐	19-090	low grade	ME-6	☐	☐	☐
3.00	4.50	1.50	GRD	1.30	87	K295740	☐	19-090	low grade		☐	☐	☐
4.50	6.00	1.50	GRD	1.33	89	K295741	☐	19-090	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.34	89	K295742	☐	19-090	low grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.25	83	K295743	☐	19-090	low grade		☐	☐	☐
9.00	10.50	1.50	GRD, GRD	1.40	93	K295744	☐	19-090	low grade		☐	☐	☐
10.50	12.00	1.50	GRD	1.36	91	K295745	☐	19-090	low grade		☐	☐	☐
12.00	13.50	1.50	GRD	1.49	99	K295747	☐	19-090	low grade		☐	☐	☐
13.50	15.00	1.50	GRD	1.20	80	K295748	☐	19-090	low grade		☐	☐	☐
15.00	16.50	1.50	GRD	1.50	100	K295749	☐	19-090	low grade		☐	☐	☐
16.50	17.66	1.16	GRD	1.13	97	K295750	☐	19-090	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
17.66	19.15	1.49	GRD	1.34	90	K295751	☐	19-090	low grade		☐	☐	☐
17.66	19.15	1.49	GRD	1.34	90	K295752	☐	19-090	low grade		☐	☑	☐
19.15	20.27	1.12	GRD	0.98	88	K295753	☐	19-090	low grade		☐	☐	☐
20.27	21.25	0.98	GRD	0.98	100	K295754	☐	19-090	low grade		☐	☐	☐
21.25	22.20	0.95	GRD	0.89	94	K295755	☐	19-090	low grade		☐	☐	☐
22.20	23.70	1.50	GRD	1.50	100	K295756	☐	19-090	low grade		☐	☐	☐
23.70	24.90	1.20	GRD	1.05	88	K295757	☐	19-090	low grade		☐	☐	☐
24.90	26.00	1.10	GRD	1.10	100	K295758	☐	19-090	low grade		☐	☐	☐
24.90	26.00	1.10	GRD	1.10	100	K295759	☐	19-090	low grade		☐	☐	☑
26.00	26.66	0.66	GRD	0.66	100	K295760	☐	19-090	low grade		☐	☐	☐
26.66	27.92	1.26	GRD, QFP	1.10	87	K295761	☐	19-091	low grade		☐	☐	☐
27.92	28.64	0.72	GRD	0.70	97	K295762	☐	19-091	low grade		☐	☐	☐
28.64	30.05	1.41	GRD, GRD	1.39	99	K295763	☐	19-091	low grade		☐	☐	☐
30.05	31.45	1.40	GRD	1.40	100	K295764	☐	19-091	low grade		☐	☐	☐
31.45	32.95	1.50	GRD	1.45	97	K295765	☐	19-091	low grade		☐	☐	☐
31.45	32.95	1.50	GRD	1.45	97	K295766	☐	19-091	low grade		☐	☐	☑
32.95	34.45	1.50	GRD	1.50	100	K295767	☐	19-091	low grade		☐	☐	☐
34.45	35.75	1.30	GRD	1.30	100	K295768	☐	19-091	low grade		☐	☐	☐
35.75	36.30	0.55	GRD	0.55	100	K295769	☐	19-091	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
36.30	37.35	1.05	GRD	1.05	100	K295770	☐	19-091	low grade		☐	☐	☐
37.35	38.70	1.35	GRD	1.35	100	K295771	☐	19-091	low grade		☐	☐	☐
38.70	39.30	0.60	GRD	0.60	100	K295772	☐	19-091	low grade		☐	☐	☐
39.30	40.35	1.05	GRD	1.05	100	K295774	☐	19-091	low grade		☐	☐	☐
40.35	41.50	1.15	GRD	1.15	100	K295775	☐	19-091	low grade		☐	☐	☐
41.50	43.00	1.50	GRD	1.50	100	K295776	☐	19-091	low grade		☐	☐	☐
43.00	44.00	1.00	GRD	1.00	100	K295777	☐	19-091	low grade		☐	☐	☐
44.00	45.00	1.00	GRD, GRD	0.97	97	K295778	☐	19-091	low grade		☐	☐	☐
45.00	46.00	1.00	GRD	1.00	100	K295779	☐	19-091	low grade		☐	☐	☐
46.00	47.00	1.00	GRD	1.00	100	K295780	☐	19-091	low grade		☐	☐	☐
46.00	47.00	1.00	GRD	1.00	100	K295781	☐	19-091	low grade		☐	☑	☐
47.00	48.00	1.00	GRD	1.00	100	K295782	☐	19-091	low grade		☐	☐	☐
48.00	49.00	1.00	GRD	1.00	100	K295783	☐	19-091	low grade		☐	☐	☐
49.00	50.00	1.00	GRD	1.00	100	K295784	☐	19-091	low grade		☐	☐	☐
50.00	51.50	1.50	GRD, GRD	1.48	99	K295785	☐	19-091	low grade		☐	☐	☐
51.50	53.00	1.50	GRD	1.47	98	K295786	☐	19-091	low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.46	97	K295787	☐	19-091	low grade		☐	☐	☐
54.50	56.00	1.50	GRD	1.50	100	K295788	☐	19-091	low grade		☐	☐	☐
56.00	57.50	1.50	GRD	1.50	100	K295790	☐	19-091	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
57.50	58.35	0.85	GRD	0.85	100	K295791	☐	19-091	low grade		☐	☐	☐
58.35	58.90	0.55	GRD	0.55	100	K295792	☐	19-091	low grade		☐	☐	☐
58.90	60.40	1.50	GRD, GRD	1.50	100	K295793	☐	19-091	low grade		☐	☐	☐
60.40	61.90	1.50	GRD	1.48	99	K295794	☐	19-091	low grade		☐	☐	☐
61.90	63.00	1.10	GRD, GRD	1.08	98	K295795	☐	19-091	low grade		☐	☐	☐
63.00	64.50	1.50	GRD, GRD	1.50	100	K295797	☐	19-091	low grade		☐	☐	☐
64.50	66.00	1.50	GRD	1.50	100	K295798	☐	19-091	low grade		☐	☐	☐
66.00	67.50	1.50	GRD	1.47	98	K295799	☐	19-091	low grade		☐	☐	☐
67.50	69.00	1.50	GRD	1.49	99	K295800	☐	19-091	low grade		☐	☐	☐
69.00	70.50	1.50	GRD	1.50	100	K295801	☐	19-093	low grade		☐	☐	☐
70.50	71.15	0.65	GRD	0.65	100	K295802	☐	19-093	low grade		☐	☐	☐
71.15	72.20	1.05	GRD	1.03	98	K295803	☐	19-093	low grade		☐	☐	☐
72.20	73.80	1.60	GRD	1.48	93	K295804	☐	19-093	low grade		☐	☐	☐
73.80	74.98	1.18	QFP	1.12	95	K295805	☐	19-093	low grade		☐	☐	☐
74.98	75.30	0.32	QFP	0.30	94	K295806	☐	19-093	low grade		☐	☐	☐
75.30	76.80	1.50	GRD	1.48	99	K295808	☐	19-093	low grade		☐	☐	☐
76.80	78.30	1.50	GRD	1.50	100	K295809	☐	19-093	low grade		☐	☐	☐
78.30	79.80	1.50	GRD	1.50	100	K295810	☐	19-093	low grade		☐	☐	☐
79.80	81.30	1.50	GRD	1.48	99	K295811	☐	19-093	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
81.30	82.80	1.50	GRD	1.41	94	K295812	☐	19-093	low grade		☐	☐	☐
81.30	82.80	1.50	GRD	1.41	94	K295813	☐	19-093	low grade		☐	☐	☑
82.80	84.10	1.30	GRD	1.20	92	K295814	☐	19-093	low grade		☐	☐	☐
84.10	85.00	0.90	GRD	0.88	98	K295815	☐	19-093	low grade		☐	☐	☐
85.00	86.25	1.25	GRD, GRD	1.20	96	K295816	☐	19-093	low grade		☐	☐	☐
86.25	87.75	1.50	GRD	1.50	100	K295817	☐	19-093	low grade		☐	☐	☐
87.75	89.25	1.50	GRD	1.47	98	K295818	☐	19-093	low grade		☐	☐	☐
89.25	90.75	1.50	GRD	1.50	100	K295820	☐	19-093	low grade		☐	☐	☐
90.75	92.25	1.50	GRD	1.48	99	K295821	☐	19-093	low grade		☐	☐	☐
92.25	93.75	1.50	GRD	1.50	100	K295822	☐	19-093	low grade		☐	☐	☐
93.75	95.25	1.50	GRD	1.49	99	K295823	☐	19-093	low grade		☐	☐	☐
95.25	96.75	1.50	GRD	1.50	100	K295824	☐	19-093	low grade		☐	☐	☐
96.75	98.00	1.25	GRD	1.25	100	K295825	☐	19-093	low grade		☐	☐	☐
98.00	99.50	1.50	GRD	1.47	98	K295826	☐	19-093	low grade		☐	☐	☐
99.50	101.00	1.50	GRD	1.50	100	K295828	☐	19-093	low grade		☐	☐	☐
101.00	102.50	1.50	GRD	1.47	98	K295829	☐	19-093	low grade		☐	☐	☐
102.50	104.00	1.50	GRD	1.45	97	K295830	☐	19-093	low grade		☐	☐	☐
104.00	105.20	1.20	GRD	1.20	100	K295831	☐	19-093	low grade		☐	☐	☐
105.20	105.75	0.55	GRD, GRD	0.50	91	K295832	☐	19-093	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
105.75	107.00	1.25	GRD	1.23	98	K295833	☐	19-093	low grade		☐	☐	☐
107.00	108.50	1.50	GRD, GRD	1.50	100	K295834	☐	19-093	low grade		☐	☐	☐
107.00	108.50	1.50	GRD, GRD	1.50	100	K295835	☐	19-093	low grade		☐	☑	☐
108.50	110.00	1.50	GRD	1.45	97	K295836	☐	19-093	low grade		☐	☐	☐
110.00	111.50	1.50	GRD	1.50	100	K295837	☐	19-093	low grade		☐	☐	☐
111.50	113.00	1.50	GRD	1.50	100	K295838	☐	19-093	low grade		☐	☐	☐
113.00	113.75	0.75	GRD	0.74	99	K295839	☐	19-093	low grade		☐	☐	☐
113.75	114.60	0.85	GRD	0.80	94	K295840	☐	19-093	low grade		☐	☐	☐
114.60	116.00	1.40	GRD	1.40	100	K295841	☐	19-094	low grade		☐	☐	☐
116.00	117.50	1.50	GRD	1.50	100	K295842	☐	19-094	low grade		☐	☐	☐
117.50	119.00	1.50	GRD	1.48	99	K295843	☐	19-094	low grade		☐	☐	☐
119.00	120.50	1.50	APL	1.50	100	K295844	☐	19-094	low grade		☐	☐	☐
120.50	121.40	0.90	GRD	0.88	98	K295845	☐	19-094	low grade		☐	☐	☐
121.40	122.30	0.90	GRD	0.88	98	K295846	☐	19-094	low grade		☐	☐	☐
121.40	122.30	0.90	GRD	0.88	98	K295847	☐	19-094	low grade		☐	☐	☑
122.30	123.50	1.20	GRD	1.15	96	K295848	☐	19-094	low grade		☐	☐	☐
123.50	124.60	1.10	GRD	1.05	95	K295849	☐	19-094	low grade		☐	☐	☐
124.60	125.00	0.40	GRD	0.40	100	K295850	☐	19-094	low grade		☐	☐	☐
125.00	126.25	1.25	GRD	1.20	96	K295851	☐	19-094	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
126.25	126.55	0.30	GRD	0.30	100	K295852	☐	19-094	low grade		☐	☐	☐
126.55	128.00	1.45	GRD	1.40	97	K295853	☐	19-094	low grade		☐	☐	☐
128.00	129.54	1.54	GRD	1.51	98	K295854	☐	19-094	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-090	K295746	0.00	0.00	0.28	610	☐	☐	☐	☑ ME-6	STD ME-6
19-091	K295773	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-091	K295789	0.00	0.00	0.29	590	☐	☐	☐	☑ ME-6	ME-6
19-091	K295796	0.00	0.00	0.27	600	☐	☐	☐	☑ ME-6	ME-6
19-093	K295807	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-093	K295819	0.00	0.00	0.31	600	☐	☐	☐	☑ ME-6	ME-6
19-093	K295827	0.00	0.00	0.27	590	☐	☐	☐	☑ ME-6	ME-6
19-090	K295740	3.00	4.50	0.03	2170	☐	☐	☐	☐	
19-090	K295741	4.50	6.00	0.01	2900	☐	☐	☐	☐	
19-090	K295742	6.00	7.50	0.01	2340	☐	☐	☐	☐	
19-090	K295743	7.50	9.00	0.01	1850	☐	☐	☐	☐	
19-090	K295744	9.00	10.50	0.01	1920	☐	☐	☐	☐	
19-090	K295745	10.50	12.00	0.01	1700	☐	☐	☐	☐	
19-090	K295747	12.00	13.50	0.00	2280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-090	K295748	13.50	15.00	0.00	1480	☐	☐	☐	☐	
19-090	K295749	15.00	16.50	0.02	2080	☐	☐	☐	☐	
19-090	K295750	16.50	17.66	0.02	600	☐	☐	☐	☐	
19-090	K295751	17.66	19.15	0.02	1920	☐	☐	☐	☐	
19-090	K295752	17.66	19.15	0.02	1670	☑	☐	☐	☐	1/4 dup
19-090	K295753	19.15	20.27	0.02	600	☐	☐	☐	☐	
19-090	K295754	20.27	21.25	0.02	380	☐	☐	☐	☐	
19-090	K295755	21.25	22.20	0.01	2520	☐	☐	☐	☐	
19-090	K295756	22.20	23.70	0.01	1250	☐	☐	☐	☐	
19-090	K295757	23.70	24.90	0.05	1220	☐	☐	☐	☐	
19-090	K295758	24.90	26.00	0.09	210	☐	☐	☐	☐	
19-090	K295759	24.90	26.00	0.07	190	☐	☑	☐	☐	coarse reject du
19-090	K295760	26.00	26.66	0.07	140	☐	☐	☐	☐	
19-091	K295761	26.66	27.92	0.04	780	☐	☐	☐	☐	
19-091	K295762	27.92	28.64	0.01	1920	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-091	K295763	28.64	30.05	0.02	2070	☐	☐	☐	☐	
19-091	K295764	30.05	31.45	0.01	2230	☐	☐	☐	☐	
19-091	K295765	31.45	32.95	0.03	2610	☐	☐	☐	☐	
19-091	K295766	31.45	32.95	0.03	2610	☐	☑	☐	☐	coarse dup
19-091	K295767	32.95	34.45	0.02	1970	☐	☐	☐	☐	
19-091	K295768	34.45	35.75	0.01	2580	☐	☐	☐	☐	
19-091	K295769	35.75	36.30	0.01	270	☐	☐	☐	☐	
19-091	K295770	36.30	37.35	0.01	2920	☐	☐	☐	☐	
19-091	K295771	37.35	38.70	0.04	1760	☐	☐	☐	☐	
19-091	K295772	38.70	39.30	0.60	490	☐	☐	☐	☐	
19-091	K295774	39.30	40.35	0.43	610	☐	☐	☐	☐	
19-091	K295775	40.35	41.50	0.01	2360	☐	☐	☐	☐	
19-091	K295776	41.50	43.00	0.02	1840	☐	☐	☐	☐	
19-091	K295777	43.00	44.00	0.00	2450	☐	☐	☐	☐	
19-091	K295778	44.00	45.00	0.03	370	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-091	K295779	45.00	46.00	0.03	290	☐	☐	☐	☐	
19-091	K295780	46.00	47.00	0.02	930	☐	☐	☐	☐	
19-091	K295781	46.00	47.00	0.02	290	☑	☐	☐	☐	1/4 dup
19-091	K295782	47.00	48.00	0.05	180	☐	☐	☐	☐	
19-091	K295783	48.00	49.00	0.09	200	☐	☐	☐	☐	
19-091	K295784	49.00	50.00	0.02	240	☐	☐	☐	☐	
19-091	K295785	50.00	51.50	0.05	2340	☐	☐	☐	☐	
19-091	K295786	51.50	53.00	0.01	2020	☐	☐	☐	☐	
19-091	K295787	53.00	54.50	0.02	1980	☐	☐	☐	☐	
19-091	K295788	54.50	56.00	0.03	1740	☐	☐	☐	☐	
19-091	K295790	56.00	57.50	0.03	2180	☐	☐	☐	☐	
19-091	K295791	57.50	58.35	0.03	1320	☐	☐	☐	☐	
19-091	K295792	58.35	58.90	0.17	180	☐	☐	☐	☐	
19-091	K295793	58.90	60.40	0.10	1500	☐	☐	☐	☐	
19-091	K295794	60.40	61.90	0.06	1260	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-091	K295795	61.90	63.00	0.04	570	☐	☐	☐	☐	
19-091	K295797	63.00	64.50	0.03	1150	☐	☐	☐	☐	
19-091	K295798	64.50	66.00	0.05	1790	☐	☐	☐	☐	
19-091	K295799	66.00	67.50	0.09	970	☐	☐	☐	☐	
19-091	K295800	67.50	69.00	0.04	1660	☐	☐	☐	☐	
19-093	K295801	69.00	70.50	0.13	1510	☐	☐	☐	☐	
19-093	K295802	70.50	71.15	0.38	880	☐	☐	☐	☐	
19-093	K295803	71.15	72.20	0.31	990	☐	☐	☐	☐	
19-093	K295804	72.20	73.80	0.08	630	☐	☐	☐	☐	interval extened due to poor recovery
19-093	K295805	73.80	74.98	0.05	700	☐	☐	☐	☐	
19-093	K295806	74.98	75.30	0.07	770	☐	☐	☐	☐	
19-093	K295808	75.30	76.80	0.03	1280	☐	☐	☐	☐	
19-093	K295809	76.80	78.30	0.12	1740	☐	☐	☐	☐	
19-093	K295810	78.30	79.80	0.09	1550	☐	☐	☐	☐	
19-093	K295811	79.80	81.30	0.04	820	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-093	K295812	81.30	82.80	0.02	2320	☐	☐	☐	☐	
19-093	K295813	81.30	82.80	0.02	2240	☐	☑	☐	☐	coarse fup
19-093	K295814	82.80	84.10	0.05	2070	☐	☐	☐	☐	
19-093	K295815	84.10	85.00	0.01	2490	☐	☐	☐	☐	
19-093	K295816	85.00	86.25	0.16	1190	☐	☐	☐	☐	
19-093	K295817	86.25	87.75	0.15	1970	☐	☐	☐	☐	
19-093	K295818	87.75	89.25	0.01	2210	☐	☐	☐	☐	
19-093	K295820	89.25	90.75	0.06	2260	☐	☐	☐	☐	
19-093	K295821	90.75	92.25	0.02	1920	☐	☐	☐	☐	
19-093	K295822	92.25	93.75	0.01	2320	☐	☐	☐	☐	
19-093	K295823	93.75	95.25	0.07	2100	☐	☐	☐	☐	
19-093	K295824	95.25	96.75	0.03	1830	☐	☐	☐	☐	
19-093	K295825	96.75	98.00	0.02	1960	☐	☐	☐	☐	
19-093	K295826	98.00	99.50	0.04	1930	☐	☐	☐	☐	
19-093	K295828	99.50	101.00	0.08	2190	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-093	K295829	101.00	102.50	0.04	2250	☐	☐	☐	☐	
19-093	K295830	102.50	104.00	0.01	2190	☐	☐	☐	☐	
19-093	K295831	104.00	105.20	0.02	2160	☐	☐	☐	☐	
19-093	K295832	105.20	105.75	0.05	2310	☐	☐	☐	☐	
19-093	K295833	105.75	107.00	0.03	2800	☐	☐	☐	☐	
19-093	K295834	107.00	108.50	0.01	2320	☐	☐	☐	☐	
19-093	K295835	107.00	108.50	0.00	2310	☑	☐	☐	☐	1/4 dupe
19-093	K295836	108.50	110.00	0.03	2220	☐	☐	☐	☐	
19-093	K295837	110.00	111.50	0.01	2270	☐	☐	☐	☐	
19-093	K295838	111.50	113.00	0.02	2320	☐	☐	☐	☐	
19-093	K295839	113.00	113.75	0.02	1750	☐	☐	☐	☐	
19-093	K295840	113.75	114.60	2.21	570	☐	☐	☐	☐	
19-094	K295841	114.60	116.00	0.06	2210	☐	☐	☐	☐	
19-094	K295842	116.00	117.50	0.04	2090	☐	☐	☐	☐	
19-094	K295843	117.50	119.00	0.04	1950	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-094	K295844	119.00	120.50	0.03	2190	☐	☐	☐	☐	
19-094	K295845	120.50	121.40	0.01	2210	☐	☐	☐	☐	
19-094	K295846	121.40	122.30	1.35	220	☐	☐	☐	☐	
19-094	K295847	121.40	122.30	1.50	300	☐	☑	☐	☐	coarse dup
19-094	K295848	122.30	123.50	0.00	1730	☐	☐	☐	☐	
19-094	K295849	123.50	124.60	0.03	1580	☐	☐	☐	☐	
19-094	K295850	124.60	125.00	0.26	1110	☐	☐	☐	☐	
19-094	K295851	125.00	126.25	0.00	2050	☐	☐	☐	☐	
19-094	K295852	126.25	126.55	0.93	140	☐	☐	☐	☐	
19-094	K295853	126.55	128.00	0.01	1930	☐	☐	☐	☐	
19-094	K295854	128.00	129.54	0.01	1980	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
13.72	16.30	GO	34	--	NUL	1	gouged faulted fractured granodiorite			
20.45	21.00	ST		30	NUL	2	pyrite bearing quartz veinlets			
26.30	26.50	ST		10	NUL	1	pyrite bearing quartz veinlets			
26.50	26.66	ST		30	NUL	2	chaotically spaced, stepped quartz veinlnets with pyrite			
								Py	1	DI
26.66	27.13	DY	37	80	NUL	1	qfp dyke			
27.13	27.50	ST		80	NUL	3	pyrite bearing quartz veinlets			
27.60	28.60	ST		80	NUL	14	set of small hairline fractures with weak open-space vuggy textured openings ~1mm wide in competent bleached oxidized granodiorte			
36.05	36.07	ST		40	NUL	1	pyrite bearing quartz veinlets			
								Py	1	DI
36.50	37.00	ST		80	NUL	3	pyrite bearing quartz stringers			
								Py	0.5	DI
38.90	39.08	ST		40	NUL	3	pyrite bearing quartz veinlets			
								Py	3	BN
41.50	42.60	ST		20	NUL	2	pyrit ebearing quartz stringers			
45.00	46.50	ST		20	NUL	2	pyrite bearing quartz stringers			
47.00	50.00	ST		15	NUL	3	pyrite bearing quartz veinlets essentially running parallel to core axis.			
51.50	51.51	VT	37	70	NUL	1	pyrite bearing quartz veinlet			
56.45	57.00	ST		60	NUL	2	pyrite bearing quartz veinlets			
58.60	58.70	VN	37	70	NUL	1	pyrite and fine grained galena veinlet			
65.60	66.00	VT	37	30	NUL	1	low angle quartz veinlet with pyrite on margin			
68.00	68.10	VT	37	30	NUL	1	low angle qv with pyrite on margin			
70.70	71.00	ST		50	NUL	2	two quartz veinlets with pyrite on margin			
72.00	72.30	FT	42	70	NUL	1	brecciate fault gouged zone preceding contact with qfp dyke. Potentially trending 70 TCA			
72.30	75.25	DY	37	70	NUL	1	qfp dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
82.75	83.82	FT	42	70	NUL	1	faulted rubbly granodiorite			
84.00	85.00	GO	34	--	NUL	1	gouged light greyish brown grd			
87.12	87.14	VT	37	80	NUL	1	pyrite beraing qv 80 TCA			
91.50	92.10	ST		40	NUL	4	two veinlets 40 TCA without sulfide an two 80 TCA veinlets with trace pyrite			
97.70	97.72	VT	37	70	NUL	1	one pyrite bering qv			
100.60	100.70	ST		80	NUL	2	pyrite bearing quartz veinlets			
105.30	105.60	ST		50	NUL	2	pyrite bearing quartz veinlets			
113.70	114.50	ST		80	NUL	3	three pyrite bearing quartz veinlets, one is 3 cm wide.			
118.90	119.50	DY	37	70	NUL	1	aplite dyke			
121.30	121.60	ST		80	NUL	6	pyrite bearing stringers			
122.09	122.19	VN	37	80	NUL	1	pyrite +- finegrained galena vein			
123.20	125.00	ST		70	NUL	11	set of 70-80 TCA strigners with trace pyrite			
								Py	0.1	DI
126.41	126.49	VN	37	80	NUL	1	pyrite veinlet			
								Py	5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383087	6889035	1426.817	126.8

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-457

CLAIM: YC37992

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 24 - Sep 25, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
6	35.26	-49.1	Reflex
126	39.46	-48.7	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.2	1.2	OVB
1.2	2.1	0.9	OVB
2.1	5.22	3.12	GRD
5.22	8.2	2.98	GRD
8.2	9.75	1.55	GRD
9.75	10.45	0.7	GRD
10.45	11.05	0.6	GRD
11.05	11.8	0.75	GRD
11.8	13.27	1.47	GRD
13.27	13.4	0.13	APL
13.4	14.34	0.94	GRD
14.34	17.25	2.91	GRD
17.25	17.3	0.05	VEN
17.3	19.23	1.93	GRD
19.23	20.45	1.22	GRD
20.45	21	0.55	GRD

SAMPLES	
Numbers:	K295855 to K295981, W599240 to W599248, W599257
Total:	137
Batch:	085, 094, 095, 096, 098
Certificates:	WH19254205, WH19254213, WH19254215, WH19254218, WH19255767, WH19300068

COMMENTS

21	23.8	2.8	GRD
23.8	25.47	1.67	GRD
25.47	25.96	0.49	BXA
25.96	26.55	0.59	GRD
26.55	28.12	1.57	GRD
28.12	29.57	1.45	GRD
29.57	30.48	0.91	GRD
30.48	31.3	0.82	GRD
31.3	31.65	0.35	GRD
31.65	33.12	1.47	GRD
33.12	35.55	2.43	GRD
35.55	36.1	0.55	GRD
36.1	36.35	0.25	GRD
36.35	38.26	1.91	GRD
38.26	38.9	0.64	GRD
38.9	40.7	1.8	GRD
40.7	42	1.3	GRD
42	45.15	3.15	GRD
45.15	47.4	2.25	GRD
47.4	48.9	1.5	GRD
48.9	51	2.1	GRD
51	53	2	GRD
53	54	1	GRD
54	55.4	1.4	GRD
55.4	57	1.6	GRD
57	59	2	GRD
59	61.15	2.15	GRD
61.15	63.52	2.37	GRD
63.52	63.75	0.23	GRD
63.75	64.12	0.37	QFP
64.12	65.95	1.83	GRD
65.95	70.2	4.25	GRD

70.2	70.34	0.14	GRD
70.34	72	1.66	GRD
72	74.25	2.25	GRD
74.25	77	2.75	GRD
77	77.6	0.6	GRD
77.6	79.25	1.65	GRD
79.25	80.5	1.25	GRD
80.5	80.95	0.45	BXA
80.95	84.15	3.2	QFP
84.15	85.08	0.93	GRD
85.08	85.57	0.49	BXA
85.57	86.9	1.33	GRD
86.9	87.1	0.2	APL
87.1	91.9	4.8	GRD
91.9	93.45	1.55	GRD
93.45	93.87	0.42	GRD
93.87	95.27	1.4	GRD
95.27	96.13	0.86	GRD
96.13	97	0.87	GRD
97	100	3	GRD
100	101	1	GRD
101	103.75	2.75	GRD
103.75	103.9	0.15	VEN
103.9	105.8	1.9	GRD
105.8	108.6	2.8	GRD
108.6	109.2	0.6	GRD
109.2	113.8	4.6	GRD
113.8	114.3	0.5	GRD
114.3	122	7.7	GRD
122	123.5	1.5	GRD
123.5	126.8	3.3	GRD

Box Log

KL -19-457

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.2	5.75
2	5.75	9.95
3	9.95	14.34
4	14.34	18.79
5	18.79	22.7
6	22.7	26.55
7	26.55	30.48
8	30.48	34.55
9	34.55	38.48
10	38.48	42.67
11	42.67	46.88
12	46.88	50.98
13	50.98	55.35
14	55.35	59.69
15	59.69	64.15
16	64.15	68.72
17	68.72	73.1
18	73.1	77.33
19	77.33	81.59
20	81.59	86.05
21	86.05	90.66
22	90.66	95.1
23	95.1	99.39
24	99.39	103.67
25	103.67	107.87
26	107.87	112.17
27	112.17	116.69
28	116.69	121.28
29	121.28	125.72
30	125.72	126.8

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-457									
	27.32	11	NTW	GRD	640.4	412.8	2.06	2.8	Weak argillic altered diorite
	45.17	8.5	NTW	GRD	598.2	406.2	2.49	3.1	Chalcedony / quartz vein material, ~1% Py, small FeOx veinlets throughout.
	56.01	15	NTW	GRD	973.8	635.1	2.3	2.9	Propylitically altered and silicified diorite, ~2%Py

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	OVB	--	overburden							
1.20	2.10	0.90	OVB	--	overbudren with 10% grd fragments							
2.10	5.22	3.12	GRD	MG	unaltered granodiorite							
5.22	8.20	2.98	GRD	MG	moderately silicified and propylitic altered, heavily oxidized granodioirte with intense ocidation on fracture surfaces and pervasive throughout interval. Weak brecciated/silicified zone from 5.8-6.1m, rest of interval is weakly clay altered and bleached, moderately propylitic and silicified							
						MD	BN		OXI	4I	Py	0.5
						MD	GY		CLY	2I		
									PRO	3I		
									BLE	2I		
									SIL	1I		
8.20	9.75	1.55	GRD	MG	moderate to strongly clay altered, oxidizzed granodiorite - heavily fractured, possibly related to faulting							
						LT	GY		OXI	4I		
						LT	BN		CLY	4I		
									BLE	4I		
9.75	10.45	0.70	GRD	MG	heavily oxidized, faulted with minor gouge, granodioirte with weak patch malachite staining							
						MD	BN		CLY	5I		
						MD	GY		OXI	4I	--	0.5
						LT	GN		BLE	4I		
10.45	11.05	0.60	GRD	MG	unaltered granodiorite							
						MD	GY					
11.05	11.80	0.75	GRD	MG	oxidized, bleached, and weakly mineralized granodiorite with two 70 TCA pyrite beraing quartz veinlets with tweak vuggy textrures							
						MD	BN		OXI	3I		
						LT	BN		CLY	4I	Py	2
									BLE	3I		
11.80	13.27	1.47	GRD	MG	weakly propylitic and arigllic altered granodiortie							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		ARG	2I		
						LT	GN		PRO	2I		
						LT	GY					
13.27	13.40	0.13	APL	FG	finegrained pinkish brown aplite dyke trending 80 TCA sharp upper and lower ctct							
						LT	PK					
						LT	BN					
13.40	14.34	0.94	GRD	MG	weak argillic overprinted by mod prop alteration with 9 small pyrite bearing quartz stringer veins trending 70 TCA							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I	Py	0.5
14.34	17.25	2.91	GRD	MG	weakly to moderate patchy argillic and propylitically altered granodiorite with sparse quartz stringers trending 70 TCA (3, all <1m; trace pyrite)							
						MD	GY		PRO	3I		
						MD	GN		ARG	2I		
						LT	WH					
17.25	17.30	0.05	VEN	MG	semimassive sulfide vein, trending 70 TCA, with disseminated banded pyrite and banded massive sphalerite.							
						MD	BN		SIL	5I	Sp	30
						LT	WH				Py	10
17.30	19.23	1.93	GRD	MG	moderately propylitic and argillic altered granodiorite with patchy silicified zones containing small pyrite bearing quartz stringers (18.29-18.79m), trending 80 TCA.							
						MD	GY		PRO	4I		
						LT	GN		ARG	1I	Py	0.5
						DK	GY		SIL	2I		
19.23	20.45	1.22	GRD	MG	faulted, gouged granodiorite; heavily silicified granodiorite and rubbly/fragmental pieces with dissemianted pyrite throughout							
						MD	GY		CLY	5I	Py	0.5
						LT	BN					
						LT	GY					
20.45	21.00	0.55	GRD	MG	faulted, fractured granodioirte							
						MD	GY		CLY	1I		
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.00	23.80	2.80	GRD	MG	moderate to strongly argillic altered granodioirte with a weak propylitic overprint.							
						MD	GN		PRO	2I		
						MD	GY		ARG	4I		
23.80	25.47	1.67	GRD	MG	heavily blaeached and oidized, fracuted, strongly clay altered granodioirte with pervasive oxidative staining							
						MD	BN		CLY	3I		
						LT	GY		BLE	3I		
						LT	BN		OXI	3I		
25.47	25.96	0.49	BXA	MG	brecciated, pyrite bearing faulted granodiorite, with a stockwork of fractures throughout, and weak disseminated pyrite throughout.							
						MD	GY		OXI	3I		
						LT	BN		BLE	4I	Py	0.5
						LT	GN		CLY	2I		
									SIL	1I		
25.96	26.55	0.59	GRD	MG	gouged, heavily clay altered and bleached granodiorite							
						LT	GY					
						LT	BN		CLY	5I		
26.55	28.12	1.57	GRD	MG	moderately propylitic and argillically altered granodiorite, with one40 TCA quartz carbonate veinlet 1 cm wide with no sulfide							
						MD	GN		PRO	3I		
						MD	GY		SIL	2I		
									ARG	2I		
28.12	29.57	1.45	GRD	MG	faulted, fractured, moderate to strongly clay altered granodioirte with weak patchy silicification							
						MD	GY					
						LT	BN		CLY	4I		
						DK	GY					
29.57	30.48	0.91	GRD	MG	moderately propylitic altered granodioirte with patchy oxidative staining and weak bleaching, with sparse 80 TCA trending stringer veinelts barren of sulfides. Lower 40 cm is fractured and clay altered, possibly related to faulting							
						MD	BN		PRO	2I		
						MD	GY		CLY	3I		
30.48	31.30	0.82	GRD	MG	faulted, silicified, oxidized, and bleached granodiorite with strong clay alteration, grading into gouge in the last 40 cm							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		CLY	3I		
						LT	BN		OXI	2I		
31.30	31.65	0.35	GRD	MG	mineralized fualt gouge within a faulted interval of granodiorite. This interval contains a 3 cm wide pyrite bearing quartz vein 70 TCA, and pyrite thorughout gouge.							
						LT	BN		SIL	1I		
						LT	WH					
						LT	GY		CLY	5I	Py	10
31.65	33.12	1.47	GRD	MG	fracutred, patchily oxidized and weakly propylitic and argilicaly altered granodioirte							
						MD	GY		PRO	2I		
						MD	GN		CLY	2I		
						LT	BN		ARG	2I		
33.12	35.55	2.43	GRD	MG	patchy, moderatly propylitic altered granodiorite with propylitic alteration envelopes extending 10 cm on either side of small pyrite bearing quartz stringers; typically trending 70 TCA							
						MD	GN		PRO	3I	Py	0.5
						MD	GY		SIL	1I		
35.55	36.10	0.55	GRD	MG	strongly argillic altered granodioirte, patchy white to light grey							
						LT	GY		ARG	4I		
						LT	WH					
36.10	36.35	0.25	GRD	MG	silicified interval of faulted granodiorite with a sharp upper and lower contact trending 70 TCA. Contains gouged material and disseminated pyrite throguhot							
						MD	GY		CLY	4I	Py	1
						LT	WH					
						LT	BN		SIL	3I		
36.35	38.26	1.91	GRD	MG	rubbly to gravelly, moderately argillic altered granodiorite with small fragments within a larger rubbly interval. Possibly related to faulting							
						MD	GY		ARG	2I		
						LT	WH		CLY	3I		
38.26	38.90	0.64	GRD	MG	unaltered granodiorite							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.90	40.70	1.80	GRD	MG	patchily propylitically altered intervals within a broader interval of unaltered granodioirte. Two small 80 TCA trending quartz carbonate veins 2 cm wide, with propylitic alteration haloes extending 5 cm on either side within this interval.							
						MD	GY					
						LT	GN		PRO	2I		
						DK	GY					
40.70	42.00	1.30	GRD	MG	strongly propylitic altered granodiorite with patchy oxidative staining on fracture surfaces. Heavily fractured interval with weak pyrite bearing stringers trending 80 TCA							
						MD	GY		PRO	4I		
						LT	GN					
						LT	BN					
42.00	45.15	3.15	GRD	MG	patchy, weakly propylitic altered granodiorite with patchy weak zones of argillic alteration. Zone sof alteration coincide with small pyrite baring quartz veinlets trending 80 TCA. One small veinlet contains trace sphalerite.							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	2I	Sp	0.1
									SIL	1I		
45.15	47.40	2.25	GRD	MG	weak to moderate argillic altered granoioirte with weak propylitic alteration. Two 80 TCA pyrite bearing veinlets ~2 cm wide within interval. Patchy oxdiation along fracture surfaces throughout interval							
						MD	BN		OXI	2I		
						MD	GY		ARG	3I		
						LT	BN		BLE	2I		
									CLY	2I		
									PRO	1I		
47.40	48.90	1.50	GRD	MG	heavily oxidized and clay altered, weakly gouged, bleached and strongly clay altered granodioirte. Likely related to faulting; this interval contains many fragmental pieces of granodiorite and is oxidized.							
						MD	BN		BLE	2I		
						LT	BN		CLY	4I		
									OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
48.90	51.00	2.10	GRD	MG	moderately argillic and propyliitic altered granodioirte with patchy blebby pyrite alteration along low angle quartz veinlets trending 40 TCA, and along two small pyrte bearing stringers trending 60 TCA.							
						MD	GY		ARG	3I		
						MD	GN		PRO	3I	Py	0.5
						LT	BN		SIL	1I		
51.00	53.00	2.00	GRD	MG	moderatley propylitic and weakly silicified granodiorite with trace pyrite bearig stringers trening 70 TCA							
						MD	GN		SIL	1I		
						MD	GY		PRO	3I		
53.00	54.00	1.00	GRD	MG	strongly propylitic altered granodioirte with 5 pyrite beaginr quartz stringers trending 70 TCA							
						MD	GN		SIL	1I		
						MD	GY		PRO	4I		
54.00	55.40	1.40	GRD	MG	moderately propylitic altered granodiorite with two pryite bearing quartz stringers trending 70 TCA							
						MD	GY		PRO	3I		
						DK	GN		SIL	1I		
55.40	57.00	1.60	GRD	MG	strongly silicified and propylitic altered granodiorite with set of 14 pyrite bearing quartz stringer veinlets from 1-3 m in size; generally trending 70 TCA, with 3 trending 50 TCA.							
						MD	GN		PRO	4I	Py	0.5
						MD	GY		SIL	3I		
57.00	59.00	2.00	GRD	MG	unaltered granodioirte with one clay altered interval 5 cm wide trending30 TCA (possible fault?)							
						MD	GY					
59.00	61.15	2.15	GRD	MG	moerately propylitic altered granodiorite with weak pyrite bearing stringers, trending 70 TCA.							
						MD	GN		SIL	2I		
						MD	GY		PRO	3I		
61.15	63.52	2.37	GRD	MG	moderately propylitic and argillic altered granodioirte with weak clay alteration along fractures, with weak pyrite mineralization within more densely fractured intervals.							
						MD	GY		ARG	2I		
						LT	GY		CLY	2I		
						LT	GN		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.52	63.75	0.23	GRD	MG	heavily clay altered, gouged granodiorite preceding upper contact with qfp dyke. Blebby pyrite thorughout							
						MD	GY		CLY	5I	Py	1
						LT	GY					
63.75	64.12	0.37	QFP	MG	chloritized and clay alterd qfp dyke with sharp uppar and lower contact trending 70 TCA.							
									CLY	1I		
									CHL	1I		
64.12	65.95	1.83	GRD	MG	heavily clay altered, very soft & weak, light greenish grey granodiorite. Intense argillic alteration and weak propylitic alteration. Four semi-rhythmic 30 TCA black seams run throughout clay altered interval, likely related to sulfides (fine-grained pyrite?_) along the clay altered interval							
						LT	GY		PRO	1I	Py	0.1
						LT	GN		ARG	5I		
									CLY	4I		
65.95	70.20	4.25	GRD	MG	moderately argillic and propylitic altered granodiorite with series of pyrite bearing quartz veinlets develop throuhout interval, trending between 30-70 TCA. Minior sphalerite is associated with a few of the veinlets, and there is a lot of sporadic hairline fractures running throughout interval, likely related to faulting.							
						MD	GY		PRO	2I	Py	1
						LT	GN		SIL	1I	Sp	0.1
									ARG	3I		
70.20	70.34	0.14	GRD	MG	gouged, light greyish green granodiorite with intense clay alteration, weak argillic alteration, and weak propylitic alteration							
						MD	GY		ARG	1I		
						LT	GN		PRO	1I		
						LT	GY		CLY	5I		
70.34	72.00	1.66	GRD	MG	moerately propylitic altered and weakly argillic altered granodiorite with 30 TCA quartz veinlets with trace pyrite							
						MD	GN		SIL	1I	Py	0.5
						MD	GY		PRO	3I		
									ARG	1I		
72.00	74.25	2.25	GRD	MG	moderately propylitic altered granodioirite overpinting weakargillic lteration. Medium greenish grey to whitish grey,							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
74.25	77.00	2.75	GRD	MG	moderately propylitic and weakly argillic altered granodioirte with two sets of pyrite bearing veinlets (one set trends ~10-15 TCA; other set trends ~40 TCA) developed throughout interval, typically coinciding with more intense propylitic alteration. Low angle fractures have clay alteration along their seams, likely related to faulting.							
						MD	GY		ARG	2I		
						MD	GN		PRO	3I	Py	1.5
									SIL	1I		
77.00	77.60	0.60	GRD	MG	faulted, fractured granodiorite with clay alteration, fractures trend 10-20 TCA and are likely a source of the intense ffragmenting of granodioirte in this interval.							
						MD	GY					
						DK	GN		CLY	2I	Py	0.5
77.60	79.25	1.65	GRD	MG	strongly propylitic and weakly argillic altered granodioirte with three 30 TCA pyrite baring quartz veinles 5 mm wide. Weak disseminated pyrite in groundmass							
						MD	GY		ARG	1I	Py	1.5
						MD	GN		PRO	4I		
									SIL	1I		
79.25	80.50	1.25	GRD	MG	strongly silicified, moderately argillic altered granodiorite with strong pervasive silicification throughout. Not a true quartz vein, but very strongly silicified. Siliceous granodiorite hosts patchy blebby pyrite and strginer zones of pyrite bearing quartz veinlets sporadically dispersed throughout. 80.1 to 80.13 is a carboane vein trending 80TCA. Pyrite veinlets trend 40 TCA and 80 TCA.							
						MD	GY		SER	1I	Py	5
						LT	GY		SIL	4I		
						DK	GY		ARG	2I		
80.50	80.95	0.45	BXA	MG	silicified pyritic granodiorite breccia with a 5 cm fragment of QFP dyke within. Breccia contains class of pyrite and granodiorite; subangular, with pachy pyrite within a black fault matrix. Possibly trace fine-graine arsenopyrite - difficult to properly ID.							
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	1I	Py	4
						DK	GY		SIL	3I		
80.95	84.15	3.20	QFP	MG	light greenish grey, weakly clay feldspar porphyry dyke, with weak chloritization of groundmass and clay alteration of feldspar grains. Sharp upper and lower contcat trending 70 TCA..							
						MD	GY		CLY	1I		
						MD	GN		CHL	1I		
84.15	85.08	0.93	GRD	MG	strongly silicified with dissemianted blebby pyrite, moderately propylitic altered grandiorite with two 80 TCA pyrite bearing veinlets 1 cm wide.							
						MD	GY		SIL	5I		
						LT	GY		PRO	2I	Py	1
85.08	85.57	0.49	BXA	MG	brecciated, veined, disseminated pyrite bearing, banded sooty grey to medium grey to white, quartz carbonate vein, with disseminated patchy pyrite and lesser patchy sphalerite and galena. Upper 30 cm of vein is brecciated, and lower 20 cm of vein is banded and semi-competent (i.e weakly brecciated). Cemented together by a fine-grained black material.							
						MD	GY				Sp	1
						LT	WH		SIL	4I	Gn	1
						DK	GY				Py	2
85.57	86.90	1.33	GRD	MG	patchy moderate argillic and propylitically altered granodiorite with disseminated pyrite throughout.							
						MD	GY		ARG	2I		
						LT	WH		PRO	2I	Py	0.5
86.90	87.10	0.20	APL	FG	set of three small finegrained aplite dykes; pinkish brown, trending 80 TCA							
						LT	BN					
						LT	PK					
87.10	91.90	4.80	GRD	MG	moderately propylitic and argillic altered granodioirte with series of quartz veinlets trending 70 TCA that are 1-2 cm wide and contain pyrite. One vein has trace sphalerite rimming pyrite.							
						MD	GY		ARG	3I	Py	2
						LT	GN		PRO	3I	Sp	0.5
									SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
91.90	93.45	1.55	GRD	MG	moderately propylitic altered granodioirite with weak argillic alteration, no visible sulfie stringers							
						MD	GN		ARG	2I		
						MD	GY		PRO	1I		
93.45	93.87	0.42	GRD	MG	disseminated sulfide stringers within propylitic altered granodiortie							
						MD	GN		PRO	3I	Py	1
93.87	95.27	1.40	GRD	MG	weakly argillic altered granodiorite with weak propylitic alteraion							
						MD	GY		PRO	1I		
						MD	GN		ARG	1I		
95.27	96.13	0.86	GRD	MG	moderately propyltiic altered granodiorite with two 70 TCA pyrite bearing quartz veinlets							
						MD	GN		ARG	1I	Py	1
						MD	GY		PRO	3I		
96.13	97.00	0.87	GRD	MG	weakly propylitic altered granodioirte							
						MD	GY		PRO	2I		
						MD	GN					
97.00	100.00	3.00	GRD	MG	moderately propylitically altered granodiorite with three 70 TCA pyrite stringers							
						MD	GY					
						LT	GN		PRO	1I	Py	0.5
						DK	GY					
100.00	101.00	1.00	GRD	MG	weakly proylitic and argillic altered granodiorte devoid of sulfied							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
101.00	103.75	2.75	GRD	MG	moderately silicified and porpylitcally altered granodioirte with pyrite bearing quartz stringers trending 70-80 TCA (1 to 15 mm wide) and disseminated pyrite in groundmass when strongly silicified (dark grey granodioirte)							
						MD	GN		SIL	3I	Py	1
						MD	GY					
						DK	GY		PRO	3I		
103.75	103.90	0.15	VEN	MG	70 TCA semimassive pyrite vein with mionr quartz and carbonate. Banded, with one small band of sphalerite on lower margin 1 mm wide.							
						MD	BF		SIL	5I	Py	50
						MD	GY					
						LT	WH				Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
103.90	105.80	1.90	GRD	MG	moderately argillic and propylitic altered granodiorite with trace pyrite bearing quartz stringers trending 80 TCA							
						MD	GY		ARG	2I		
						MD	GN		SIL	1I	Py	0.5
									PRO	3I		
105.80	108.60	2.80	GRD	MG	moderately argillic and porpylitic altered granodioirte with weak hairline pyrite stringers (one or two).							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I	Py	0.1
108.60	109.20	0.60	GRD	MG	faulted, clay altered granodiorite with clay alteration along fractues, with minor pyrite along fracutes as well as disseminated pyrite throughout interval							
						MD	BN		CLY	3I	Py	0.5
						MD	GY		SER	1I		
109.20	113.80	4.60	GRD	MG	unaltered granodiorite							
						MD	GY					
113.80	114.30	0.50	GRD	MG	propylitic altered granodiorite with teo quartz veinlnets 70 TCA without sulfide							
						MD	GY					
						MD	GN					
114.30	122.00	7.70	GRD	MG	unaltered granodioirte							
						MD	GY					
122.00	123.50	1.50	GRD	MG	weakly argillic and propylitic altered granoidoirte with weak quartz stringers 70 TCA with trace pyrite							
						MD	GN		PRO	3I	Py	0.1
						MD	GY					
123.50	126.80	3.30	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.20	1.20	OVB	OVB	--	overburden
1.20	2.10	0.90	OVB	OVB	--	overbudren with 10% grd fragments
2.10	5.22	3.12	GRD	GRD	MG	unaltered granodiorite
5.22	8.20	2.98	GRD	GRDA	MG	moderately silicified and propylitic altered, heavily oxidized granodioirte with intense ocidation on fracture surfaces and pervasive throughout interval. Weak brecciated/silicified zone from 5.8-6.1m, rest of interval is weakly clay altered and bleached, moderately propylitic and silicified
8.20	9.75	1.55	GRD	GRDF	MG	moderate to strongly clay altered, oxidizzed granodiorite - heavily fractured, possibly related to faulting
9.75	10.45	0.70	GRD	GRDM	MG	heavily oxidized, faulted with minor gouge, granodioirte with weak patch malachite staining
10.45	11.05	0.60	GRD	GRD	MG	unaltered granodiorite
11.05	11.80	0.75	GRD	GRDM	MG	oxidized, bleached, and weakly mineralized granodiorite with two 70 TCA pyrite beraing quartz veinlets with tweak vuggy textrures
11.80	13.27	1.47	GRD	GRDA	MG	weakly propylitic and arigllic altered granodiortie
13.27	13.40	0.13	APL	DYK	FG	finegrained pinkish brown aplite dyke trending 80 TCA sharp upper and lower ctct
13.40	14.34	0.94	GRD	GRDM	MG	weak argillic overprinted by mod prop alteration with 9 small pyrite bearing quartz stringer veins trending 70 TCA
14.34	17.25	2.91	GRD	GRDA	MG	weakly to moderate patchy argillic and propylitically altered granodiorite with sparse quartz stringers trending 70 TCA (3, all <1m; trace pyrite)
17.25	17.30	0.05	VEN	VEIN	MG	semimassive sulfide vein, trending 70 TCA, with disseminated banded pyrite and banded massive sphalerite.
17.30	19.23	1.93	GRD	GRDA	MG	moderately propylitic and argillic altered granodiorite with patchy silicified zones containing small pyrite bearing quartz stringers (18.29-18.79m), trending 80 TCA.
19.23	20.45	1.22	GRD	FLTM	MG	faulted, gouged granodiorite; heavily silicified granodiorite and rubbly/fragmental pieces with dissemianted pyrite throughout
20.45	21.00	0.55	GRD	GRDF	MG	faulted, fractured granodioirte
21.00	23.80	2.80	GRD	GRDA	MG	moderate to strongly argillic altered granodioirte with a weak propylitic overprint.
23.80	25.47	1.67	GRD	GRDF	MG	heavily blaeached and oidized, fracuted, strongly clay altered granodioirte with pervasive oxidative staining
25.47	25.96	0.49	BXA	GRDF	MG	brecciated, pyrite bearing faulted granodiorite, with a stockwork of fractures throughout, and weak disseminated pyrite throughout.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
25.96	26.55	0.59	GRD	GRDF	MG	gouged, heavily clay altered and bleached granodiorite
26.55	28.12	1.57	GRD	GRDA	MG	moderately propylitic and argillically altered granodiorite, with one40 TCA quartz carbonate veinlet 1 cm wide with no sulfide
28.12	29.57	1.45	GRD	GRDF	MG	faulted, fractured, moderate to strongly clay altered granodioirte with weak patchy silicification
29.57	30.48	0.91	GRD	GRDA	MG	moderately propylitic altered granodioirte with patchy oxidative staining and weak bleaching, with sparse 80 TCA trending stringer veinelts barren of sulfides. Lower 40 cm is fractured and clay altered, possibly related to faulting
30.48	31.30	0.82	GRD	GRDF	MG	faulted, silicified, oxidized, and bleached granodiorite with strong clay alteration, grading into gouge in the last 40 cm
31.30	31.65	0.35	GRD	FLTM	MG	mineralized fualt gouge within a faulted interval of granodiorite. This interval contains a 3 cm wide pyrite bearing quartz vein 70 TCA, and pyrite thorughout gouge.
31.65	33.12	1.47	GRD	GRDA	MG	fracutred, patchily oxidized and weakly propylitic and argilicaly altered granodioirte
33.12	35.55	2.43	GRD	GRDA	MG	patchy, moderatly propylitic altered granodiorite with propylitic alteration envelopes extending 10 cm on either side of small pyrite bearing quartz stringers; typically trending 70 TCA
35.55	36.10	0.55	GRD	GRDA	MG	strongly argillic altered granodioirte, patchy white to light grey
36.10	36.35	0.25	GRD	GRDF	MG	silicified interval of faulted granodiorite with a sharp upper and lower contact trending 70 TCA. Contains gouged material and disseminated pyrite throguhot
36.35	38.26	1.91	GRD	GRDF	MG	rubbly to gravelly, moderately argillic altered granodiorite with small fragments within a larger rubbly interval. Possibly related to faulting
38.26	38.90	0.64	GRD	GRD	MG	unaltered granodiorite
38.90	40.70	1.80	GRD	GRDA	MG	patchily propylitically altered intervals within a broader interval of unaltered granodioirte. Two small 80 TCA trending quartz carbonate veins 2 cm wide, with propylitic alteration haloes extending 5 cm on either side within this interval.
40.70	42.00	1.30	GRD	GRDA	MG	strongly propylitic altered granodiorite with patchy oxidative staining on fracture surfaces. Heavily fractured interval with weak pyrite bearing stringers trending 80 TCA
42.00	45.15	3.15	GRD	GRDA	MG	patchy, weakly propylitic altered granodiorite with patchy weak zones of argillic alteration. Zone sof alteration coincide with small pyrite baring quartz veinlets trending 80 TCA. One small veinlet contains trace sphalerite.
45.15	47.40	2.25	GRD	GRDA	MG	weak to moderate argillic altered granoioirte with weak propylitic alteration. Two 80 TCA pyrite bearing veinlets ~2 cm wide within interval. Patchy oxdiation along fracture surfaces throughout interval
47.40	48.90	1.50	GRD	GRDF	MG	heavily oxidized and clay altered, weakly gouged, bleached and strongly clay altered granodioirte. Likely related to faulting; this interval contains many fragmental pieces of granodiorite and is oxidized.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
48.90	51.00	2.10	GRD	GRDM	MG	moderately argillic and propyliitic altered granodioirte with patchy blebby pyrite alteration along low angle quartz veinlets trending 40 TCA, and along two small pyrte bearing stringers trending 60 TCA.
51.00	53.00	2.00	GRD	GRDA	MG	moderatley propylitic and weakly silicified granodiorite with trace pyrite bearig stringers trening 70 TCA
53.00	54.00	1.00	GRD	GRDM	MG	strongly propylitic altered granodioirte with 5 pyrite beaginr quartz stringers trending 70 TCA
54.00	55.40	1.40	GRD	GRDA	MG	moderately propylitic altered granodiorite with two pryite bearing quartz stringers trending 70 TCA
55.40	57.00	1.60	GRD	GRDM	MG	strongly silicified and propylitic altered granodiorite with set of 14 pyrite bearing quartz stringer veinlets from 1-3 m in size; generally trending 70 TCA, with 3 trending 50 TCA.
57.00	59.00	2.00	GRD	GRD	MG	unaltered granodioirte with one clay altered interval 5 cm wide trending30 TCA (possible fault?)
59.00	61.15	2.15	GRD	GRDA	MG	moerately propylitic altered granodiorite with weak pyrite bearing stringers, trending 70 TCA.
61.15	63.52	2.37	GRD	GRDA	MG	moderately propylitic and argillic altered granodioirte with weak clay alteration along fractures, with weak pyrite mineralization within more densely fractured intervals.
63.52	63.75	0.23	GRD	FLTM	MG	heavily clay altered, gouged granodiorite preceding upper contact with qfp dyke. Blebby pyrite thorughout
63.75	64.12	0.37	QFP	DYK	MG	chloritized and clay alterd qfp dyke with sharp uppar and lower contact trending 70 TCA.
64.12	65.95	1.83	GRD	FLTM	MG	heavily clay altered, very soft & weak, light greenish grey granodiorite. Intense argillic alteration and weak propylitic alteration. Four semi-rhythmic 30 TCA black seams run throughout clay altered interval, likely related to sulfides (fine-grained pyrite?_) along the clay altered interval
65.95	70.20	4.25	GRD	GRDM	MG	moderately argillic and propylitic altered granodiorite with series of pyrite bearing quartz veinlets develop throuhout interval, trending between 30-70 TCA. Minior sphalerite is associated with a few of the veinlets, and there is a lot of sporadic hairline fractures running throughout interval, likely related to faulting.
70.20	70.34	0.14	GRD	FLTM	MG	gouged, light greyish green granodiorite with intense clay alteration, weak argillic alteration, and weak propylitic alteration
70.34	72.00	1.66	GRD	GRDM	MG	moerately propylitic altered and weakly argillic altered granodiorite with 30 TCA quartz veinlets with trace pyrite
72.00	74.25	2.25	GRD	GRDA	MG	moderately propylitic altered granodioirite overpinting weakargillic lteration. Medium greenish grey to whitish grey,
74.25	77.00	2.75	GRD	GRDM	MG	moderately propylitic and weakly argillic altered granodioirte with two sets of pyrite bearing veinlets (one set trends ~10-15 TCA; other set trends ~40 TCA) developed throughout interval, typically coinciding with more intense propylitic alteration. Low angle fractures have clay alteration along their seams, likely related to faulting.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
77.00	77.60	0.60	GRD	FLTM	MG	faulted, fractured granodiorite with clay alteration, fractures trend 10-20 TCA and are likely a source of the intense ffragmenting of granodioirte in this interval.
77.60	79.25	1.65	GRD	GRDM	MG	strongly propylitic and weakly argillic altered granodioirte with three 30 TCA pyrite baring quartz veinles 5 mm wide. Weak disseminated pyrite in groundmass
79.25	80.50	1.25	GRD	GRDM	MG	strongly silicified, moderately argillic altered granodiorite with strong pervasive silicification throughout. Not a true quartz vein, but very strongly silicified. Siliceous granodiorite hosts patchy blebby pyrite and strginer zones of pyrite bearing quartz veinlets sporadically dispersed throughout. 80.1 to 80.13 is a carboane vein trending 80TCA. Pyrite veinlets trend 40 TCA and 80 TCA.
80.50	80.95	0.45	BXA	GRDM	MG	silicified pyritic granodiorite breccia with a 5 cm fragment of QFP dyke within. Breccia contains class of pyrite and granodiorite; subangular, with pachy pyrite within a black fault matrix. Possibly trace fine-graine arsenopyrite - difficult to properly ID.
80.95	84.15	3.20	QFP	DYK	MG	light greenish grey, weakly clay feldspar porphyry dyke, with weak chloritization of groundmass and clay alteration of feldspar grains. Sharp upper and lower contcat trending 70 TCA..
84.15	85.08	0.93	GRD	GRDM	MG	strongly silicified with dissemianted blebby pyrite, moderately propylitic altered grandiorite with two 80 TCA pyrite bearing veinlets 1 cm wide.
85.08	85.57	0.49	BXA	GRDM	MG	brecciated, veined, disseminated pyrite bearing, banded sooty grey to medium grey to white, quartz carbonate vein, with disseminated patchy pyrite and lesser patchy sphalerite and galena. Upper 30 cm of vein is brecciated, and lower 20 cm of vein is banded and semi-competent (i.e weakly brecciated). Cemented together by a fine-grained black material.
85.57	86.90	1.33	GRD	GRDM	MG	patchy moderate argillic and propylitically altered granodiorite with disseminated pyrite throughout.
86.90	87.10	0.20	APL	DYK	FG	set of three small finegrained aplite dykes; pinkish brown, trending 80 TCA
87.10	91.90	4.80	GRD	GRDM	MG	moderately propylitic and argillic altered granodioirte with series of quartz veinlets trending 70 TCA that are 1-2 cm wide and contain pyrite. One vein has trace sphalerite rimming pyrite.
91.90	93.45	1.55	GRD	GRDA	MG	moderately propylitic altered granodioirite with weak argillic alteration, no visible sulfie stringers
93.45	93.87	0.42	GRD	GRDM	MG	disseminated sulfide stringers within propylitic altered granodiortie
93.87	95.27	1.40	GRD	GRDA	MG	weakly argillic altered granodiorite with weak propylitic alteraion
95.27	96.13	0.86	GRD	GRDM	MG	moderately propyltiic altered granodiorite with two 70 TCA pyrite bearing quartz veinlets
96.13	97.00	0.87	GRD	GRDA	MG	weakly propylitic altered granodioirte
97.00	100.00	3.00	GRD	GRDM	MG	moderately propylitically altered granodiorite with three 70 TCA pyrite stringers

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
100.00	101.00	1.00	GRD	GRDA	MG	weakly proylitic and argillic altered granodiorte devoid of sulfied
101.00	103.75	2.75	GRD	GRDM	MG	moderately silicified and porpylitcally altered granodioirte with pyrite bearing quartz stringers trending 70-80 TCA (1 to 15 mm wide) and disseminated pyrite in groundmass when strongly silicified (dark grey granodioirte)
103.75	103.90	0.15	VEN	VEIN	MG	70 TCA semimassive pyrite vein with mionr quartz and carbonate. Banded, with one small band of sphalerite on lower margin 1 mm wide.
103.90	105.80	1.90	GRD	GRDM	MG	moderately argillic and propylitic altered granodiorite with trace pyrite bearing quartz stringers trending 80 TCA
105.80	108.60	2.80	GRD	GRDA	MG	moderately argillic and porpylitic altered granodioirte with weak hairline pyrite stringers (one or two).
108.60	109.20	0.60	GRD	FLTM	MG	faulted, clay altered granodiorite with clay alteration along fractues, with minor pyrite along fracutes as well as disseminated pyrite throughout interval
109.20	113.80	4.60	GRD	GRD	MG	unaltered granodiorite
113.80	114.30	0.50	GRD	GRDA	MG	propylitic altered granodiorite with teo quartz veinlnets 70 TCA without sulfide
114.30	122.00	7.70	GRD	GRD	MG	unaltered granodioirte
122.00	123.50	1.50	GRD	GRDA	MG	weakly argillic and propylitic altered granoidoirte with weak quartz stringers 70 TCA with trace pyrite
123.50	126.80	3.30	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	OVB	--	overburden							
1.20	2.10	0.90	OVB	--	overbudren with 10% grd fragments							
2.10	5.22	3.12	GRD	MG	unaltered granodiorite							
5.22	8.20	2.98	GRD	MG	moderately silicified and propylitic altered, heavily oxidized granodioirte with intense ocidation on fracture surfaces and pervasive throughout interval. Weak brecciated/silicified zone from 5.8-6.1m, rest of interval is weakly clay altered and bleached, moderately propylitic and silicified							
						MD	GY		SIL	1I	Py	0.5
									PRO	3I		
									BLE	2I		
						MD	BN		CLY	2I		
									OXI	4I		
8.20	9.75	1.55	GRD	MG	moderate to strongly clay altered, oxidizzed granodiorite - heavily fractured, possibly related to faulting							
						LT	GY		CLY	4I		
									OXI	4I		
						LT	BN		BLE	4I		
9.75	10.45	0.70	GRD	MG	heavily oxidized, faulted with minor gouge, granodioirte with weak patch malachite staining							
						MD	BN		OXI	4I		
						MD	GY		CLY	5I		
						LT	GN		BLE	4I	--	0.5
10.45	11.05	0.60	GRD	MG	unaltered granodiorite							
						MD	GY					
11.05	11.80	0.75	GRD	MG	oxidized, bleached, and weakly mineralized granodiorite with two 70 TCA pyrite beraing quartz veinlets with tweak vuggy textrures							
									OXI	3I		
						MD	BN		BLE	3I		
						LT	BN		CLY	4I	Py	2
11.80	13.27	1.47	GRD	MG	weakly propylitic and arigllic altered granodiortie							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	2I		
						LT	GN					
						LT	GY		ARG	2I		
13.27	13.40	0.13	APL	FG	finegrained pinkish brown aplite dyke trending 80 TCA sharp upper and lower ctct							
						LT	BN					
						LT	PK					
13.40	14.34	0.94	GRD	MG	weak argillic overprinted by mod prop alteration with 9 small pyrite bearing quartz stringer veins trending 70 TCA							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I	Py	0.5
14.34	17.25	2.91	GRD	MG	weakly to moderate patchy argillic and propylitically altered granodiorite with sparse quartz stringers trending 70 TCA (3, all <1m; trace pyrite)							
						MD	GN		PRO	3I		
						MD	GY					
						LT	WH		ARG	2I		
17.25	17.30	0.05	VEN	MG	semimassive sulfide vein, trending 70 TCA, with disseminated banded pyrite and banded massive sphalerite.							
						LT	WH		SIL	5I	Py	10
						MD	BN				Sp	30
17.30	19.23	1.93	GRD	MG	moderately propylitic and argillic altered granodiorite with patchy silicified zones containing small pyrite bearing quartz stringers (18.29-18.79m), trending 80 TCA.							
						LT	GN		PRO	4I		
						MD	GY		ARG	1I		
						DK	GY		SIL	2I	Py	0.5
19.23	20.45	1.22	GRD	MG	faulted, gouged granodiorite; heavily silicified granodiorite and rubbly/fragmental pieces with dissemianted pyrite throughout							
						LT	GY					
						LT	BN		CLY	5I	Py	0.5
						MD	GY					
20.45	21.00	0.55	GRD	MG	faulted, fractured granodioirte							
						MD	GY					
						LT	BN		CLY	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
21.00	23.80	2.80	GRD	MG	moderate to strongly argillic altered granodioirte with a weak propylitic overprint. Moderately fractured and weak carbonate strigers 80 TCA without sulfie							
						MD	GN		PRO	2I		
						MD	GY		ARG	4I		
23.80	25.47	1.67	GRD	MG	heavily blaeached and oidized, fracuted, strongly clay altered granodioirte with pervasive oxidative staining							
						MD	BN		OXI	3I		
						LT	GY		BLE	3I		
						LT	BN		CLY	3I		
25.47	25.96	0.49	BXA	MG	brecciated, pyrite bearing faulted granodiorite, with a stockwork of fractures throughout, and weak disseminated pyrite throughout.							
									BLE	4I		
						LT	BN		OXI	3I		
						LT	GN		SIL	1I	Py	0.5
						MD	GY		CLY	2I		
25.96	26.55	0.59	GRD	MG	gouged, heavily clay altered and bleached granodiorite							
						LT	BN		CLY	5I		
						LT	GY					
26.55	28.12	1.57	GRD	MG	moderately propylitic and argillically altered granodiorite, with one40 TCA quartz carbonate veinlet 1 cm wide with no sulfide							
						MD	GY		SIL	2I		
									ARG	2I		
						MD	GN		PRO	3I		
28.12	29.57	1.45	GRD	MG	faulted, fractured, moderate to strongly clay altered granodioirte with weak patchy silicification							
						LT	BN					
						DK	GY					
						MD	GY		CLY	4I		
29.57	30.48	0.91	GRD	MG	moderately propylitic altered granodioirte with patchy oxidative staining and weak bleaching, with sparse 80 TCA trending stringer veinelts barren of sulfides. Lower 40 cm is fractured and clay altered, possibly related to faulting							
						MD	BN		PRO	2I		
						MD	GY		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
30.48	31.30	0.82	GRD	MG	faulted, silicified, oxidized, and bleached granodiorite with strong clay alteration, grading into gouge in the last 40 cm							
						LT	BN		CLY	3I		
						MD	BN		OXI	2I		
31.30	31.65	0.35	GRD	MG	mineralized fualt gouge within a faulted interval of granodiorite. This interval contains a 3 cm wide pyrite bearing quartz vein 70 TCA, and pyrite thorughout gouge.							
						LT	WH					
						LT	BN		CLY	5I		
						LT	GY		SIL	1I	Py	10
31.65	33.12	1.47	GRD	MG	fracutred, patchily oxidized and weakly propylitic and argilicaly altered granodioirte							
						MD	GN		CLY	2I		
						MD	GY		PRO	2I		
						LT	BN		ARG	2I		
33.12	35.55	2.43	GRD	MG	patchy, moderatly propylitic altered granodiorite with propylitic alteration envelopes extending 10 cm on either side of small pyrite bearing quartz stringers; typically trending 70 TCA							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I	Py	0.5
35.55	36.10	0.55	GRD	MG	strongly argillic altered granodioirte, patchy white to light grey							
						LT	GY					
						LT	WH		ARG	4I		
36.10	36.35	0.25	GRD	MG	silicified interval of faulted granodiorite with a sharp upper and lower contact trending 70 TCA. Contains gouged material and disseminated pyrite throguhot							
						LT	WH					
						LT	BN		SIL	3I	Py	1
						MD	GY		CLY	4I		
36.35	38.26	1.91	GRD	MG	rubbly to gravelly, moderately argillic altered granodiorite with small fragments within a larger rubbly interval. Possibly related to faulting							
						MD	GY		ARG	2I		
						LT	WH		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.26	38.90	0.64	GRD	MG	unaltered granodiorite							
						MD	GY					
38.90	40.70	1.80	GRD	MG	patchily propylitically altered intervals within a broader interval of unaltered granodioirte. Two small 80 TCA trending quartz carbonate veins 2 cm wide, with propylitic alteration haloes extending 5 cm on either side within this interval.							
						DK	GY		PRO	2I		
						LT	GN					
						MD	GY					
40.70	42.00	1.30	GRD	MG	strongly propylitic altered granodiorite with patchy oxidative staining on fracture surfaces. Heavily fractured interval with weak pyrite bearing stringers trending 80 TCA							
						LT	GN					
						MD	GY		PRO	4I		
						LT	BN					
42.00	45.15	3.15	GRD	MG	patchy, weakly propylitic altered granodiorite with patchy weak zones of argillic alteration. Zone sof alteration coincide with small pyrite baring quartz veinlets trending 80 TCA. One small veinlet contains trace sphalerite.							
									ARG	1I		
						MD	GN		PRO	2I	Sp	0.1
						MD	GY		SIL	1I	Py	0.5
45.15	47.40	2.25	GRD	MG	weak to moderate argillic altered granoioirte with weak propylitic alteration. Two 80 TCA pyrite bearing veinlets ~2 cm wide within interval. Patchy oxdiation along fracture surfaces throughout interval							
									BLE	2I		
									CLY	2I		
						MD	GY		ARG	3I		
						LT	BN		PRO	1I		
						MD	BN		OXI	2I		
47.40	48.90	1.50	GRD	MG	heavily oxidized and clay altered, weakly gouged, bleached and strongly clay altered granodioirte. Likely related to faulting; this interval contains many fragmental pieces of granodiorite and is oxidized.							
									CLY	4I		
						MD	BN		BLE	2I		
						LT	BN		OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
48.90	51.00	2.10	GRD	MG	moderately argillic and propyliitic altered granodioirte with patchy blebby pyrite alteration along low angle quartz veinlets trending 40 TCA, and along two small pyrte bearing stringers trending 60 TCA.							
						MD	GY		ARG	3I	Py	0.5
						MD	GN		PRO	3I		
						LT	BN		SIL	1I		
51.00	53.00	2.00	GRD	MG	moderatley propylitic and weakly silicified granodiorite with trace pyrite bearig stringers trening 70 TCA							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I		
53.00	54.00	1.00	GRD	MG	strongly propylitic altered granodioirte with 5 pyrite beaginr quartz stringers trending 70 TCA							
						MD	GN		SIL	1I		
						MD	GY		PRO	4I		
54.00	55.40	1.40	GRD	MG	moderately propylitic altered granodiorite with two pryite bearing quartz stringers trending 70 TCA							
						MD	GY		SIL	1I		
						DK	GN		PRO	3I		
55.40	57.00	1.60	GRD	MG	strongly silicified and propylitic altered granodiorite with set of 14 pyrite bearing quartz stringer veinlets from 1-3 m in size; generally trending 70 TCA, with 3 trending 50 TCA.							
						MD	GY		PRO	4I	Py	0.5
						MD	GN		SIL	3I		
57.00	59.00	2.00	GRD	MG	unaltered granodioirte with one clay altered interval 5 cm wide trending30 TCA (possible fault?)							
						MD	GY					
59.00	61.15	2.15	GRD	MG	moerately propylitic altered granodiorite with weak pyrite bearing stringers, trending 70 TCA.							
						MD	GN		PRO	3I		
						MD	GY		SIL	2I		
61.15	63.52	2.37	GRD	MG	moderately propylitic and argillic altered granodioirte with weak clay alteration along fractures, with weak pyrite mineralization within more densely fractured intervals.							
						LT	GN		CLY	2I		
						MD	GY		PRO	3I	Py	0.5
						LT	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.52	63.75	0.23	GRD	MG	heavily clay altered, gouged granodiorite preceding upper contact with qfp dyke. Blebby pyrite thorughout							
						LT	GY					
						MD	GY		CLY	5I	Py	1
63.75	64.12	0.37	QFP	MG	chloritized and clay alterd qfp dyke with sharp uppar and lower contact trending 70 TCA.							
									CLY	1I		
									CHL	1I		
64.12	65.95	1.83	GRD	MG	heavily clay altered, fault gouged, very soft & weak, light greenish grey granodiorite. Moderate argillic alteration and weak propylitic alteration throughout. Four semi-rhythmic 30 TCA black seams run throughout clay altered interval, likely related to sulfides (fine-grained pyrite?) along the clay altered interval. Realted to a large fault running through this interval.							
						LT	GY		CLY	4I	Py	0.5
									ARG	3I		
						LT	GN		PRO	1I		
65.95	70.20	4.25	GRD	MG	moderately argillic and propylitic altered granodiorite with series of pyrite bearing quartz veinlets develop throuhout interval, trending between 30-70 TCA. Minior sphalerite is associated with a few of the veinlets, and there is a lot of sporadic hairline fractures running throughout interval, likely related to faulting.							
						MD	GY		PRO	2I	Py	1
									SIL	1I		
						LT	GN		ARG	3I	Sp	0.1
70.20	70.34	0.14	GRD	MG	gouged, light greyish green granodiorite with intense clay alteration, weak argillic alteration, and weak propylitic alteration							
						LT	GN		ARG	1I		
						MD	GY		CLY	5I		
						LT	GY		PRO	1I		
70.34	72.00	1.66	GRD	MG	moerately propylitic altered and weakly argillic altered granodiorite with 30 TCA quartz veinlets with trace pyrite							
						MD	GY		SIL	1I	Py	0.5
									ARG	1I		
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
72.00	74.25	2.25	GRD	MG	moderately propylitic altered granodioirite overpinting weakargillic lteration. Medium greenish grey to whitish grey,							
						MD	GY		PRO	3I		
						MD	GN		ARG	3I		
74.25	77.00	2.75	GRD	MG	moderately propylitic and weakly argillic altered granodioirte with two sets of pyrite bearing veinlets (one set trends ~10-15 TCA; other set trends ~40 TCA) developed throughout interval, typically coinciding with more intense propylitic alteration. Low angle fractures have clay alteration along their seams, likely related to faulting.							
						MD	GN		SIL	1I		
						MD	GY		PRO	3I	Py	1.5
									ARG	2I		
77.00	77.60	0.60	GRD	MG	faulted, fractured granodiorite with clay alteration, fractures trend 10-20 TCA and are likely a source of the intense ffragmenting of granodioirte in this interval.							
						MD	GY		CLY	2I	Py	0.5
						DK	GN					
77.60	79.25	1.65	GRD	MG	strongly propylitic and weakly argillic altered granodioirte with three 30 TCA pyrite baring quartz veinles 5 mm wide. Weak disseminated pyrite in groundmass							
						MD	GN		PRO	4I	Py	1.5
						MD	GY		SIL	1I		
									ARG	1I		
79.25	80.50	1.25	GRD	MG	strongly silicified, moderately argillic altered granodiorite with strong pervasive silicification throughout. Not a true quartz vein, but very strongly silicified. Siliceous granodiorite hosts patchy blebby pyrite and strginer zones of pyrite bearing quartz veinlets sporadically dispersed throughout. 80.1 to 80.13 is a carboane vein trending 80TCA. Pyrite veinlets trend 40 TCA and 80 TCA.							
						DK	GY		SER	1I		
						MD	GY		ARG	2I	Py	5
						LT	GY		SIL	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.50	80.95	0.45	BXA	MG	silicified pyritic granodiorite breccia with a 5 cm fragment of QFP dyke within. Breccia contains class of pyrite and granodiorite; subangular, with pachy pyrite within a black fault matrix. Possibly trace fine-graine arsenopyrite - difficult to properly ID.							
						MD	GN		SIL	3I	Py	4
						MD	GY		PRO	1I		
						DK	GY					
80.95	84.15	3.20	QFP	MG	light greenish grey, weakly clay feldspar porphyry dyke, with weak chloritization of groundmass and clay alteration of feldspar grains. Sharp upper and lower contcat trending 70 TCA..							
						MD	GN		CLY	1I		
						MD	GY		CHL	1I		
84.15	85.08	0.93	GRD	MG	strongly silicified with dissemianted blebby pyrite, moderately propylitic altered grandiorite with two 80 TCA pyrite bearing veinlets 1 cm wide.							
						LT	GY		PRO	2I	Py	1
						MD	GY		SIL	5I		
85.08	85.57	0.49	BXA	MG	brecciated, veined, disseminated pyrite bearing, banded sooty grey to medium grey to white, quartz carbonate vein, with disseminated patchy pyrite and lesser patchy sphalerite and galena. Upper 30 cm of vein is brecciated, and lower 20 cm of vein is banded and semi-competent (i.e weakly brecciated). Cemented together by a fine-grained black material. Upper and lower contact is sharp and trends 70 TCA							
						MD	GY				Gn	1
						LT	WH		SIL	4I	Py	2
						DK	GY				Sp	1
85.57	86.90	1.33	GRD	MG	patchy moderate argillic and propylitically altered granodiorite with disseminated pyrite throughout.							
						LT	WH		PRO	2I	Py	0.5
						MD	GY		ARG	2I		
86.90	87.10	0.20	APL	FG	set of three small finegrained aplite dykes; pinkish brown, trending 80 TCA							
						LT	PK					
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
87.10	91.90	4.80	GRD	MG	moderately propylitic and argillic altered granodioirte with series of quartz veinlets trending 70 TCA that are 1-2 cm wide and contain pyrite. One vein has trace sphalerite rimming pyrite.							
									PRO	3I		
						LT	GN		SIL	1I	Sp	0.5
						MD	GY		ARG	3I	Py	2
91.90	93.45	1.55	GRD	MG	moderately propylitic altered granodioirite with weak argillic alteration, no visible sulfie stringers							
						MD	GN		PRO	1I		
						MD	GY		ARG	2I		
93.45	93.87	0.42	GRD	MG	disseminated sulfide stringers within propylitic altered granodiortie							
						MD	GN		PRO	3I	Py	1
93.87	95.27	1.40	GRD	MG	weakly argillic altered granodiorite with weak propylitic alteraion							
						MD	GN		ARG	1I		
						MD	GY		PRO	1I		
95.27	96.13	0.86	GRD	MG	moderately propyltiic altered granodiorite with two 70 TCA pyrite bearing quartz veinlets							
						MD	GY		PRO	3I		
						MD	GN		ARG	1I	Py	1
96.13	97.00	0.87	GRD	MG	weakly propylitic altered granodioirte							
						MD	GY		PRO	2I		
						MD	GN					
97.00	100.00	3.00	GRD	MG	moderately propylitically altered granodiorite with three 70 TCA pyrite stringers							
						MD	GY					
						DK	GY					
						LT	GN		PRO	1I	Py	0.5
100.00	101.00	1.00	GRD	MG	weakly proylitic and argillic altered granodiorte devoid of sulfied							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
101.00	103.75	2.75	GRD	MG	moderately silicified and porpylitcally altered granodioirte with pyrite bearing quartz stringers trending 70-80 TCA (1 to 15 mm wide) and disseminated pyrite in groundmass when strongly silicified (dark grey granodioirte)							
						DK	GY		SIL	3I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I	Py	1
103.75	103.90	0.15	VEN	MG	70 TCA semimassive pyrite vein with mionr quartz and carbonate. Banded, with one small band of sphalerite on lower margin 1 mm wide.							
						MD	GY		SIL	5I	Sp	1
						MD	BF					
						LT	WH				Py	50
103.90	105.80	1.90	GRD	MG	moderately argillic and propylitic altered granodiorite with trace pyrite bearing quartz stringers trending 80 TCA							
						MD	GN		ARG	2I	Py	0.5
									SIL	1I		
						MD	GY		PRO	3I		
105.80	108.60	2.80	GRD	MG	moderately argillic and porpylitic altered granodioirte with weak hairline pyrite stringers (one or two).							
						MD	GN		ARG	2I		
						MD	GY		PRO	2I	Py	0.1
108.60	109.20	0.60	GRD	MG	faulted, clay altered granodiorite with clay alteration along fractues, with minor pyrite along fracutes as well as disseminated pyrite throughout interval							
						MD	BN		SER	1I	Py	0.5
						MD	GY		CLY	3I		
109.20	113.80	4.60	GRD	MG	unaltered granodiorite							
						MD	GY					
113.80	114.30	0.50	GRD	MG	propylitic altered granodiorite with teo quartz veinlnets 70 TCA without sulfide							
						MD	GY					
						MD	GN					
114.30	122.00	7.70	GRD	MG	unaltered granodioirte							
						MD	GY					
122.00	123.50	1.50	GRD	MG	weakly argillic and propylitic altered granoidoirte with weak quartz stringers 70 TCA with trace pyrite							
						MD	GY					
						MD	GN		PRO	3I	Py	0.1
123.50	126.80	3.30	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.32	21	0.00	0	--	1H	6W	Overburden
1.52	3.05	1.53	1.02	67	0.32	21	--	4H	3W	Overburden and fractured rock
3.05	4.57	1.52	1.34	88	0.77	51	--	4H	3W	Oxidized fractures
4.57	7.62	3.05	2.88	94	1.27	42	--	3H	4W	Oxidized fractures
7.62	10.67	3.05	2.75	90	0.90	30	--	3H	3W	Oxidized fractures and sections
10.67	12.19	1.52	1.5	99	1.08	71	--	4H	3W	Oxidized fractures
12.19	15.24	3.05	3.05	100	2.43	80	--	4H	2W	Some oxidized fractures
15.24	18.29	3.05	3.02	99	1.59	52	--	4H	3W	Oxidized fractures
18.29	21.34	3.05	2.95	97	0.67	22	--	3H	3W	Oxidized fractures, fractured thoughout.
21.34	22.86	1.52	1.49	98	0.54	36	--	3H	3W	Oxidized fractures
22.86	25.91	3.05	3.03	99	0.13	4	--	3H	4W	Oxidized fractures, fractured throughout.
25.91	27.43	1.52	1.52	100	0.41	27	--	3H	2W	Oxidized fractures, fractures concentrated at top of section.
27.43	30.48	3.05	2.93	96	0.75	25	--	3H	3W	Oxidized fractures, fractured throughout. 30cm of FBX/GOU at 23m.
30.48	32.00	1.52	1.51	99	0.00	0	--	2H	3W	Oxidized fractures, fractured throughout. FBX/GOU/fractured zone between 31m and 31.75m.
32.00	35.05	3.05	3.05	100	1.37	45	--	4H	3W	Oxidized fractures near top of section.
35.05	38.10	3.05	3.05	100	0.81	27	--	3H	1W	Oxidized fractures near top of section. Friable FBX(?) around 37m and very fractured through to ~38m
38.10	41.15	3.05	3.05	100	1.15	38	--	3H	1W	
41.15	42.67	1.52	1.51	99	0.41	27	--	3H	2W	Oxidized fractures
42.67	44.20	1.53	1.53	100	0.88	58	--	3H	2W	
44.20	47.24	3.04	3.04	100	1.62	53	--	3H	2W	Oxidized fractures
47.24	50.29	3.05	2.91	95	0.54	18	--	3H	3W	Oxidized fractures, fbx/gou between 47.65-48.00m
50.29	51.82	1.53	1.52	99	1.52	99	--	4H	2W	Oxidized fractures
51.82	54.86	3.04	3.04	100	2.87	94	--	4H	2W	Some Oxidized fractures
54.86	57.91	3.05	3.01	99	1.93	63	--	4H	2W	Some Oxidized fractures
57.91	60.96	3.05	3.05	100	0.92	30	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
60.96	64.01	3.05	3.05	100	2.68	88	--	3H	1W	
64.01	67.06	3.05	3.05	100	0.00	0	--	3H	1W	Fault Gouge (mineralized), for most of the run. Highly fractured.
67.06	70.10	3.04	2.96	97	2.82	93	--	3H	1W	
70.10	73.15	3.05	2.93	96	2.44	80	--	3H	1W	
73.15	76.20	3.05	3.05	100	2.74	90	--	3H	1W	
76.20	79.25	3.05	3	98	2.22	73	--	3H	1W	
79.25	82.30	3.05	3.03	99	1.78	58	--	3H	1W	
82.30	85.34	3.04	3.04	100	1.29	42	--	2H	1W	
85.34	88.39	3.05	3.05	100	2.87	94	--	3H	1W	
88.39	91.44	3.05	3.05	100	2.79	91	--	3H	1W	
91.44	94.49	3.05	3.05	100	2.98	98	--	3H	1W	
94.49	97.54	3.05	2.94	96	2.62	86	--	3H	1W	
97.54	100.58	3.04	3.04	100	2.13	70	--	3H	1W	
100.58	103.63	3.05	3.05	100	2.24	73	--	3H	2W	Minor oxidation on some fracture surfaces
103.63	106.68	3.05	3.05	100	1.52	50	--	3H	2W	Minor oxidation on some fracture surfaces. Small ~5cm FBX/minFBX/GOU at 105.8m
106.68	109.73	3.05	2.96	97	1.54	50	--	3H	2W	Minor oxidation on some fracture surfaces. Minor GOUon some fracture surfaces, minor fractured section with some GOU between 108.9m - 109.15m
109.73	112.78	3.05	3.05	100	2.86	94	--	4H	1W	
112.78	115.82	3.04	3.04	100	2.95	97	--	4H	1W	
115.82	118.87	3.05	3.05	100	3.00	98	--	4H	1W	
118.87	121.92	3.05	3.05	100	2.76	90	--	4H	1W	
121.92	124.97	3.05	3.05	100	2.42	79	--	4H	1W	
124.97	126.80	1.83	1.82	99	1.72	94	--	4H	1W	EOH

Magnetic Suscepatibility

KL -19-457

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	highly fractured
2	20.2	OVB	
3	25.71	GRD	
4	23.67	GRD	
5	5.812	GRD	
6	0.217	GRD	
7	0.203	GRD	
8	0.233	GRD	
9	0.402	GRD	
10	14.85	GRD	
11	5.603	GRD	
12	1.124	GRD	
13	2.518	GRD	
14	1.812	GRD	
15	0.251	GRD	
16	0.492	GRD	
17	8.066	GRD	
18	0.352	GRD	
19	0.442	GRD	
20	0.336	GRD	
21	0.331	GRD	
21	0.331	GRD	
22	0.59	GRD	
23	0.736	GRD	
24	0.195	GRD	
25	0.647	GRD	
26	0.319	GRD	
27	0.444	GRD	
28	0.346	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.313	GRD	
30	0.434	GRD	
31	0.417	GRD	
32	0.432	GRD	
33	1.485	GRD	
34	13.32	GRD	
35	16.78	GRD	
36	0.731	GRD	
37	9.612	GRD	
38	2.916	GRD	
39	0.642	GRD	
40	9.291	GRD	
41	0.511	GRD	
42	0.745	GRD	
42	0.745	GRD	
43	0.285	GRD	
44	0.408	GRD	
45	4.35	GRD	
46	0.344	GRD	
47	0.538	GRD	
48	0.412	GRD	
49	0.346	GRD	
50	0.399	GRD	
51	0.994	GRD	
51	0.994	GRD	
52	0.415	GRD	
53	0.741	GRD	
53	0.741	GRD	
54	0.748	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
54	0.748	GRD	
55	0.4	GRD	
56	0.375	GRD	
57	0.37	GRD	
57	0.37	GRD	
58	1.674	GRD	
59	1.426	GRD	
59	1.426	GRD	
60	0.397	GRD	
61	0.234	GRD	
62	0.219	GRD	
63	0.438	GRD	
64	0.197	QFP	
65	0.242	GRD	
66	0.393	GRD	
67	0.455	GRD	
68	0.253	GRD	
69	0.599	GRD	
70	0.411	GRD	
71	0.894	GRD	
72	0.28	GRD	
72	0.28	GRD	
73	0.525	GRD	
74	0.677	GRD	
75	0.388	GRD	
76	0.196	GRD	
77	0.88	GRD	
77	0.88	GRD	
78	0.514	GRD	
79	1.085	GRD	
80	0.676	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
81	0.24	QFP	
82	0.195	QFP	
83	0.26	QFP	
84	0.149	QFP	
85	0.48	GRD	
86	0.173	GRD	
87	0.082	APL	
88	0.234	GRD	
89	0.344	GRD	
90	0.601	GRD	
91	0.461	GRD	
92	0.462	GRD	
93	0.484	GRD	
94	0.151	GRD	
95	0.509	GRD	
96	0.288	GRD	
97	4.28	GRD	
97	4.28	GRD	
98	1.854	GRD	
99	0.337	GRD	
100	0.214	GRD	
100	0.214	GRD	
101	0.252	GRD	
101	0.252	GRD	
102	0.173	GRD	
103	0.149	GRD	
104	0.143	GRD	
105	0.402	GRD	
106	0.446	GRD	
107	0.501	GRD	
108	0.894	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
109	0.267	GRD	
110	0.898	GRD	
111	5.043	GRD	
112	10.59	GRD	
113	26.6	GRD	
114	0.746	GRD	
115	4.1	GRD	
116	8.817	GRD	
117	22.93	GRD	
118	1.16	GRD	
119	9.117	GRD	
120	29.47	GRD	
121	7.798	GRD	
122	9.657	GRD	
122	9.657	GRD	
123	0.699	GRD	
124	24.13	GRD	
125	32.37	GRD	
126	29.56	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-457

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K295940	☐	19-096	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599245	☐	19-085	high grade	ME-1402	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295980	☐	19-098	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295856	☐	19-094	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295954	☐	19-096	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295933	☐	19-096	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295910	☐	19-095	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295903	☐	19-095	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295888	☐	19-095	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295875	☐	19-094	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295865	☐	19-094	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295966	☐	19-098	low grade		☑	☐	☐
2.10	3.50	1.40	OVB, GRD	1.03	74	K295855	☐	19-094	low grade		☐	☐	☐
3.50	5.00	1.50	GRD	1.32	88	K295857	☐	19-094	low grade		☐	☐	☐
5.00	6.40	1.40	GRD	1.28	91	K295858	☐	19-094	low grade		☐	☐	☐
6.40	7.35	0.95	GRD	0.90	95	K295859	☐	19-094	low grade		☐	☐	☐
7.35	8.00	0.65	GRD	0.65	100	K295860	☐	19-094	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
8.00	8.95	0.95	GRD	0.95	100	K295861	☐	19-094	low grade		☐	☐	☐
8.95	10.00	1.05	GRD	1.03	98	K295862	☐	19-094	low grade		☐	☐	☐
10.00	11.25	1.25	GRD	1.20	96	K295863	☐	19-094	low grade		☐	☐	☐
11.25	11.90	0.65	GRD	0.60	92	K295864	☐	19-094	low grade		☐	☐	☐
11.90	13.40	1.50	GRD	1.50	100	K295866	☐	19-094	low grade		☐	☐	☐
13.40	14.90	1.50	GRD, APL	1.50	100	K295867	☐	19-094	low grade		☐	☐	☐
13.40	14.90	1.50	GRD, APL	1.50	100	K295868	☐	19-094	low grade		☐	☑	☐
14.90	16.10	1.20	GRD	1.20	100	K295869	☐	19-094	low grade		☐	☐	☐
16.10	17.10	1.00	GRD	1.00	100	K295870	☐	19-094	low grade		☐	☐	☐
17.10	17.40	0.30	GRD	0.30	100	W599240	☐	19-085	high grade		☐	☐	☐
17.40	18.40	1.00	GRD	0.99	99	K295871	☐	19-094	low grade		☐	☐	☐
18.40	19.90	1.50	GRD	1.40	93	K295872	☐	19-094	low grade		☐	☐	☐
19.90	20.90	1.00	GRD	1.00	100	K295873	☐	19-094	low grade		☐	☐	☐
20.90	21.20	0.30	GRD	0.30	100	W599241	☐	19-085	high grade		☐	☐	☐
21.20	22.20	1.00	GRD	1.00	100	K295874	☐	19-094	low grade		☐	☐	☐
22.20	23.70	1.50	GRD	1.30	87	K295876	☐	19-094	low grade		☐	☐	☐
23.70	24.40	0.70	GRD	0.70	100	K295877	☐	19-094	low grade		☐	☐	☐
24.40	25.40	1.00	GRD	1.00	100	K295878	☐	19-094	low grade		☐	☐	☐
25.40	26.20	0.80	GRD	0.80	100	K295879	☐	19-094	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
26.20	26.90	0.70	GRD	0.70	100	K295880	☐	19-094	low grade		☐	☐	☐
26.90	28.50	1.60	GRD	1.50	94	K295881	☐	19-095	low grade		☐	☐	☐
28.50	30.00	1.50	GRD	1.29	86	K295882	☐	19-095	low grade		☐	☐	☐
30.00	31.25	1.25	GRD	1.16	93	K295883	☐	19-095	low grade		☐	☐	☐
31.25	32.00	0.75	GRD	0.70	93	K295884	☐	19-095	low grade		☐	☐	☐
32.00	32.70	0.70	GRD	0.70	100	K295885	☐	19-095	low grade		☐	☐	☐
32.70	33.65	0.95	GRD	0.90	95	K295886	☐	19-095	low grade		☐	☐	☐
33.65	35.05	1.40	GRD	1.40	100	K295887	☐	19-095	low grade		☐	☐	☐
35.05	35.97	0.92	GRD	0.90	98	K295889	☐	19-095	low grade		☐	☐	☐
35.97	36.50	0.53	GRD	0.50	94	K295890	☐	19-095	low grade		☐	☐	☐
36.50	38.00	1.50	GRD	1.30	87	K295891	☐	19-095	low grade		☐	☐	☐
38.00	39.00	1.00	GRD	1.00	100	K295892	☐	19-095	low grade		☐	☐	☐
39.00	39.90	0.90	GRD	0.80	89	K295893	☐	19-095	low grade		☐	☐	☐
39.00	39.90	0.90	GRD	0.80	89	K295894	☐	19-095	low grade		☐	☑	☐
39.90	40.93	1.03	GRD	1.00	97	K295895	☐	19-095	low grade		☐	☐	☐
40.93	42.00	1.07	GRD	1.00	93	K295896	☐	19-095	low grade		☐	☐	☐
42.00	43.50	1.50	GRD, GRD	1.50	100	K295897	☐	19-095	low grade		☐	☐	☐
43.50	45.00	1.50	GRD	1.50	100	K295898	☐	19-095	low grade		☐	☐	☐
45.00	46.33	1.33	GRD	1.30	98	K295899	☐	19-095	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
46.33	46.88	0.55	GRD	0.50	91	K295900	☐	19-095	low grade		☐	☐	☐
46.88	47.40	0.52	GRD	0.50	96	K295901	☐	19-095	low grade		☐	☐	☐
47.40	48.70	1.30	GRD, GRD	1.25	96	K295902	☐	19-095	low grade		☐	☐	☐
48.70	49.40	0.70	GRD	0.70	100	K295904	☐	19-095	low grade		☐	☐	☐
49.40	50.40	1.00	GRD	1.00	100	K295905	☐	19-095	low grade		☐	☐	☐
50.40	50.98	0.58	GRD	0.45	78	K295906	☐	19-095	low grade		☐	☐	☐
50.98	52.30	1.32	GRD	1.30	98	K295907	☐	19-095	low grade		☐	☐	☐
52.30	53.60	1.30	GRD	1.30	100	K295908	☐	19-095	low grade		☐	☐	☐
53.60	53.90	0.30	GRD	0.30	100	W599242	☐	19-085	high grade		☐	☐	☐
53.90	55.20	1.30	GRD	1.30	100	K295909	☐	19-095	low grade		☐	☐	☐
55.20	56.40	1.20	GRD	1.20	100	K295911	☐	19-095	low grade		☐	☐	☐
56.40	57.90	1.50	GRD	1.45	97	K295912	☐	19-095	low grade		☐	☐	☐
57.90	59.40	1.50	GRD	1.50	100	K295913	☐	19-095	low grade		☐	☐	☐
59.40	60.50	1.10	GRD	1.10	100	K295914	☐	19-095	low grade		☐	☐	☐
59.40	60.50	1.10	GRD	1.10	100	K295915	☐	19-095	low grade		☐	☐	☑
60.50	61.50	1.00	GRD	1.00	100	K295916	☐	19-095	low grade		☐	☐	☐
61.50	62.50	1.00	GRD	1.00	100	K295917	☐	19-095	low grade		☐	☐	☐
62.50	63.33	0.83	GRD	0.80	96	K295918	☐	19-095	low grade		☐	☐	☐
63.33	63.75	0.42	GRD	0.40	95	K295919	☐	19-095	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
63.75	64.10	0.35	QFP, GRD	0.35	100	K295920	☐	19-095	low grade		☐	☐	☐
64.10	65.90	1.80	QFP	1.70	94	K295921	☐	19-096	low grade		☐	☐	☐
65.90	67.00	1.10	GRD	1.10	100	K295922	☐	19-096	low grade		☐	☐	☐
67.00	67.92	0.92	GRD	0.90	98	K295923	☐	19-096	low grade		☐	☐	☐
67.92	69.20	1.28	GRD	1.28	100	K295924	☐	19-096	low grade		☐	☐	☐
69.20	70.35	1.15	GRD	1.15	100	K295925	☐	19-096	low grade		☐	☐	☐
70.35	71.65	1.30	GRD	1.30	100	K295926	☐	19-096	low grade		☐	☐	☐
71.65	71.95	0.30	GRD	0.30	100	K295927	☐	19-096	low grade		☐	☐	☐
71.65	71.95	0.30	GRD	0.30	100	K295928	☐	19-096	low grade		☐	☐	☑
71.95	73.10	1.15	GRD	1.10	96	K295929	☐	19-096	low grade		☐	☐	☐
73.10	74.28	1.18	GRD	1.15	97	K295930	☐	19-096	low grade		☐	☐	☐
74.28	75.00	0.72	GRD	0.72	100	K295931	☐	19-096	low grade		☐	☐	☐
75.00	75.90	0.90	GRD	0.88	98	K295932	☐	19-096	low grade		☐	☐	☐
75.90	76.70	0.80	GRD	0.80	100	K295934	☐	19-096	low grade		☐	☐	☐
76.70	78.00	1.30	GRD	1.25	96	K295935	☐	19-096	low grade		☐	☐	☐
78.00	79.25	1.25	GRD	1.20	96	K295936	☐	19-096	low grade		☐	☐	☐
79.25	80.20	0.95	GRD, GRD	0.93	98	W599243	☐	19-085	high grade		☐	☐	☐
79.25	80.20	0.95	GRD, GRD	0.93	98	W599257	☐	19-085	high grade		☐	☐	☑
80.20	80.95	0.75	GRD	0.75	100	W599244	☐	19-085	high grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
80.95	81.95	1.00	QFP, BXA	1.00	100	K295937	☐	19-096	low grade		☐	☐	☐
81.95	83.15	1.20	QFP	1.20	100	K295938	☐	19-096	low grade		☐	☐	☐
83.15	84.15	1.00	QFP	1.00	100	K295939	☐	19-096	low grade		☐	☐	☐
84.15	85.00	0.85	QFP, GRD	0.80	94	W599246	☐	19-085	high grade		☐	☐	☐
85.00	85.57	0.57	GRD	0.55	96	W599247	☐	19-085	high grade		☐	☐	☐
85.57	86.26	0.69	BXA, GRD	0.68	99	W599248	☐	19-085	high grade		☐	☐	☐
86.26	87.31	1.05	GRD	1.04	99	K295941	☐	19-096	low grade		☐	☐	☐
87.31	88.18	0.87	GRD	0.80	92	K295942	☐	19-096	low grade		☐	☐	☐
88.18	89.22	1.04	GRD	1.00	96	K295943	☐	19-096	low grade		☐	☐	☐
89.22	90.42	1.20	GRD	1.15	96	K295944	☐	19-096	low grade		☐	☐	☐
90.42	91.78	1.36	GRD	1.30	96	K295945	☐	19-096	low grade		☐	☐	☐
91.78	92.45	0.67	GRD	0.65	97	K295946	☐	19-096	low grade		☐	☐	☐
91.78	92.45	0.67	GRD	0.65	97	K295947	☐	19-096	low grade		☐	☑	☐
92.45	93.45	1.00	GRD	1.00	100	K295948	☐	19-096	low grade		☐	☐	☐
93.45	93.87	0.42	GRD, GRD	0.40	95	K295949	☐	19-096	low grade		☐	☐	☐
93.87	95.27	1.40	GRD, GRD	1.40	100	K295950	☐	19-096	low grade		☐	☐	☐
95.27	96.13	0.86	GRD, GRD	0.85	99	K295951	☐	19-096	low grade		☐	☐	☐
96.13	97.00	0.87	GRD, GRD	0.85	98	K295952	☐	19-096	low grade		☐	☐	☐
97.00	98.27	1.27	GRD, GRD	1.25	98	K295953	☐	19-096	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
98.27	99.27	1.00	GRD	1.00	100	K295955	☐	19-096	low grade		☐	☐	☐
99.27	100.05	0.78	GRD	0.78	100	K295956	☐	19-096	low grade		☐	☐	☐
100.05	101.00	0.95	GRD	0.95	100	K295957	☐	19-096	low grade		☐	☐	☐
101.00	102.00	1.00	GRD, GRD	0.99	99	K295958	☐	19-096	low grade		☐	☐	☐
102.00	103.00	1.00	GRD	1.00	100	K295959	☐	19-096	low grade		☐	☐	☐
103.00	103.73	0.73	GRD	0.73	100	K295960	☐	19-096	low grade		☐	☐	☐
103.73	104.14	0.41	GRD	0.40	98	K295961	☐	19-098	low grade		☐	☐	☐
104.14	105.60	1.46	GRD	1.46	100	K295962	☐	19-098	low grade		☐	☐	☐
105.60	106.30	0.70	GRD	0.70	100	K295963	☐	19-098	low grade		☐	☐	☐
106.30	107.50	1.20	GRD	1.15	96	K295964	☐	19-098	low grade		☐	☐	☐
107.50	108.50	1.00	GRD	1.00	100	K295965	☐	19-098	low grade		☐	☐	☐
108.50	109.20	0.70	GRD	0.70	100	K295967	☐	19-098	low grade		☐	☐	☐
109.20	110.70	1.50	GRD, GRD	1.50	100	K295968	☐	19-098	low grade		☐	☐	☐
110.70	112.00	1.30	GRD	1.30	100	K295969	☐	19-098	low grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.50	100	K295970	☐	19-098	low grade		☐	☐	☐
113.50	115.00	1.50	GRD	1.45	97	K295971	☐	19-098	low grade		☐	☐	☐
113.50	115.00	1.50	GRD	1.45	97	K295972	☐	19-098	low grade		☐	☑	☐
115.00	116.50	1.50	GRD	1.50	100	K295973	☐	19-098	low grade		☐	☐	☐
116.50	118.00	1.50	GRD	1.45	97	K295974	☐	19-098	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
118.00	119.50	1.50	GRD	1.50	100	K295975	☐	19-098	low grade		☐	☐	☐
119.50	121.00	1.50	GRD	1.50	100	K295976	☐	19-098	low grade		☐	☐	☐
121.00	122.50	1.50	GRD	1.50	100	K295977	☐	19-098	low grade		☐	☐	☐
122.50	124.00	1.50	GRD	1.48	99	K295978	☐	19-098	low grade		☐	☐	☐
124.00	125.50	1.50	GRD	1.45	97	K295979	☐	19-098	low grade		☐	☐	☐
125.50	126.80	1.30	GRD	1.30	100	K295981	☐	19-098	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-095	K295888	0.00	0.00	0.27	590	☐	☐	☐	☑ ME-6	ME-6
19-095	K295903	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-095	K295910	0.00	0.00	0.30	590	☐	☐	☐	☑ ME-6	ME-6 STD
19-096	K295933	0.00	0.00	0.28	620	☐	☐	☐	☑ ME-6	ME-6
19-096	K295940	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-096	K295954	0.00	0.00	0.30	570	☐	☐	☐	☑ ME-6	ME-6
19-085	W599245	0.00	0.00	13.30	290	☐	☐	☐	☑ ME-1402	ME-1402
19-094	K295856	0.00	0.00	0.27	570	☐	☐	☐	☑ ME-6	ME-6
19-094	K295865	0.00	0.00	0.00	30	☐	☐	☑	☐	blan
19-094	K295875	0.00	0.00	0.28	620	☐	☐	☐	☑ ME-6	ME-6
19-098	K295966	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-098	K295980	0.00	0.00	1.68	180	☐	☐	☐	☑ KL-STD6	KL-6 STD
19-094	K295855	2.10	3.50	0.02	2410	☐	☐	☐	☐	
19-094	K295857	3.50	5.00	0.01	2370	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-094	K295858	5.00	6.40	0.07	2190	☐	☐	☐	☐	
19-094	K295859	6.40	7.35	0.36	480	☐	☐	☐	☐	
19-094	K295860	7.35	8.00	0.05	1280	☐	☐	☐	☐	
19-094	K295861	8.00	8.95	0.11	1570	☐	☐	☐	☐	
19-094	K295862	8.95	10.00	0.61	1470	☐	☐	☐	☐	
19-094	K295863	10.00	11.25	0.02	2160	☐	☐	☐	☐	
19-094	K295864	11.25	11.90	0.05	440	☐	☐	☐	☐	
19-094	K295866	11.90	13.40	0.04	1910	☐	☐	☐	☐	
19-094	K295867	13.40	14.90	0.03	1670	☐	☐	☐	☐	
19-094	K295868	13.40	14.90	0.03	2510	☑	☐	☐	☐	1/4 dup
19-094	K295869	14.90	16.10	0.04	550	☐	☐	☐	☐	
19-094	K295870	16.10	17.10	0.06	1720	☐	☐	☐	☐	
19-085	W599240	17.10	17.40	1.29	150	☐	☐	☐	☐	high grade
19-094	K295871	17.40	18.40	1.14	1420	☐	☐	☐	☐	
19-094	K295872	18.40	19.90	0.42	850	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-094	K295873	19.90	20.90	0.26	1530	☐	☐	☐	☐	
19-085	W599241	20.90	21.20	0.15	470	☐	☐	☐	☐	high grade
19-094	K295874	21.20	22.20	0.11	1910	☐	☐	☐	☐	
19-094	K295876	22.20	23.70	0.26	2810	☐	☐	☐	☐	
19-094	K295877	23.70	24.40	4.70	760	☐	☐	☐	☐	
19-094	K295878	24.40	25.40	0.77	970	☐	☐	☐	☐	
19-094	K295879	25.40	26.20	0.81	740	☐	☐	☐	☐	
19-094	K295880	26.20	26.90	0.11	920	☐	☐	☐	☐	
19-095	K295881	26.90	28.50	0.16	1720	☐	☐	☐	☐	
19-095	K295882	28.50	30.00	0.19	620	☐	☐	☐	☐	
19-095	K295883	30.00	31.25	0.09	1590	☐	☐	☐	☐	
19-095	K295884	31.25	32.00	4.17	270	☐	☐	☐	☐	
19-095	K295885	32.00	32.70	0.27	700	☐	☐	☐	☐	
19-095	K295886	32.70	33.65	0.13	2520	☐	☐	☐	☐	
19-095	K295887	33.65	35.05	0.08	2970	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-095	K295889	35.05	35.97	0.04	3280	☐	☐	☐	☐	
19-095	K295890	35.97	36.50	0.10	500	☐	☐	☐	☐	
19-095	K295891	36.50	38.00	0.05	1940	☐	☐	☐	☐	
19-095	K295892	38.00	39.00	0.08	2390	☐	☐	☐	☐	
19-095	K295893	39.00	39.90	0.03	3010	☐	☐	☐	☐	
19-095	K295894	39.00	39.90	0.05	2870	☑	☐	☐	☐	1/4 dup
19-095	K295895	39.90	40.93	0.03	1880	☐	☐	☐	☐	
19-095	K295896	40.93	42.00	0.03	1790	☐	☐	☐	☐	
19-095	K295897	42.00	43.50	0.06	1720	☐	☐	☐	☐	
19-095	K295898	43.50	45.00	0.04	2020	☐	☐	☐	☐	
19-095	K295899	45.00	46.33	0.04	1730	☐	☐	☐	☐	
19-095	K295900	46.33	46.88	0.11	410	☐	☐	☐	☐	
19-095	K295901	46.88	47.40	0.05	2190	☐	☐	☐	☐	
19-095	K295902	47.40	48.70	0.06	1000	☐	☐	☐	☐	
19-095	K295904	48.70	49.40	0.15	320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-095	K295905	49.40	50.40	0.24	220	☐	☐	☐	☐	
19-095	K295906	50.40	50.98	0.33	1310	☐	☐	☐	☐	
19-095	K295907	50.98	52.30	0.19	410	☐	☐	☐	☐	
19-095	K295908	52.30	53.60	0.11	460	☐	☐	☐	☐	
19-085	W599242	53.60	53.90	0.33	140	☐	☐	☐	☐	high grade
19-095	K295909	53.90	55.20	0.06	400	☐	☐	☐	☐	
19-095	K295911	55.20	56.40	0.07	390	☐	☐	☐	☐	
19-095	K295912	56.40	57.90	0.08	2030	☐	☐	☐	☐	
19-095	K295913	57.90	59.40	0.20	1250	☐	☐	☐	☐	
19-095	K295914	59.40	60.50	0.12	340	☐	☐	☐	☐	
19-095	K295915	59.40	60.50	0.12	510	☐	☑	☐	☐	coarse dup
19-095	K295916	60.50	61.50	0.13	710	☐	☐	☐	☐	
19-095	K295917	61.50	62.50	0.12	1000	☐	☐	☐	☐	
19-095	K295918	62.50	63.33	0.10	760	☐	☐	☐	☐	
19-095	K295919	63.33	63.75	0.17	1700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-095	K295920	63.75	64.10	0.17	780	☐	☐	☐	☐	
19-096	K295921	64.10	65.90	0.06	430	☐	☐	☐	☐	
19-096	K295922	65.90	67.00	0.07	1830	☐	☐	☐	☐	
19-096	K295923	67.00	67.92	0.05	1490	☐	☐	☐	☐	
19-096	K295924	67.92	69.20	0.06	1750	☐	☐	☐	☐	
19-096	K295925	69.20	70.35	0.04	970	☐	☐	☐	☐	
19-096	K295926	70.35	71.65	0.02	2320	☐	☐	☐	☐	
19-096	K295927	71.65	71.95	0.03	750	☐	☐	☐	☐	
19-096	K295928	71.65	71.95	0.03	580	☐	☑	☐	☐	coarse rej
19-096	K295929	71.95	73.10	0.02	1620	☐	☐	☐	☐	
19-096	K295930	73.10	74.28	0.01	1930	☐	☐	☐	☐	
19-096	K295931	74.28	75.00	0.03	430	☐	☐	☐	☐	
19-096	K295932	75.00	75.90	0.06	670	☐	☐	☐	☐	
19-096	K295934	75.90	76.70	0.04	1110	☐	☐	☐	☐	
19-096	K295935	76.70	78.00	0.06	550	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-096	K295936	78.00	79.25	0.04	210	☐	☐	☐	☐	
19-085	W599243	79.25	80.20	0.60	40	☐	☐	☐	☐	high grade
19-085	W599257	79.25	80.20	0.60	40	☐	☑	☐	☐	high grade. Coarse duplicate changed from original sample due to low weight received at lab. -AC 20191108
19-085	W599244	80.20	80.95	0.74	100	☐	☐	☐	☐	high grade
19-096	K295937	80.95	81.95	0.20	1300	☐	☐	☐	☐	
19-096	K295938	81.95	83.15	0.24	1440	☐	☐	☐	☐	
19-096	K295939	83.15	84.15	0.15	1630	☐	☐	☐	☐	
19-085	W599246	84.15	85.00	0.20	80	☐	☐	☐	☐	high grade
19-085	W599247	85.00	85.57	1.32	60	☐	☐	☐	☐	high grade
19-085	W599248	85.57	86.26	1.17	140	☐	☐	☐	☐	high grade
19-096	K295941	86.26	87.31	0.35	440	☐	☐	☐	☐	
19-096	K295942	87.31	88.18	0.52	140	☐	☐	☐	☐	
19-096	K295943	88.18	89.22	0.04	2670	☐	☐	☐	☐	
19-096	K295944	89.22	90.42	0.14	1680	☐	☐	☐	☐	
19-096	K295945	90.42	91.78	0.90	320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-096	K295946	91.78	92.45	0.33	690	☐	☐	☐	☐	
19-096	K295947	91.78	92.45	0.26	680	☑	☐	☐	☐	1/4 dup
19-096	K295948	92.45	93.45	0.05	1740	☐	☐	☐	☐	
19-096	K295949	93.45	93.87	0.45	730	☐	☐	☐	☐	
19-096	K295950	93.87	95.27	0.02	1830	☐	☐	☐	☐	
19-096	K295951	95.27	96.13	0.06	2640	☐	☐	☐	☐	
19-096	K295952	96.13	97.00	0.03	1710	☐	☐	☐	☐	
19-096	K295953	97.00	98.27	0.03	2230	☐	☐	☐	☐	
19-096	K295955	98.27	99.27	0.19	1970	☐	☐	☐	☐	
19-096	K295956	99.27	100.05	2.49	910	☐	☐	☐	☐	
19-096	K295957	100.05	101.00	0.25	1640	☐	☐	☐	☐	
19-096	K295958	101.00	102.00	0.71	460	☐	☐	☐	☐	
19-096	K295959	102.00	103.00	0.29	940	☐	☐	☐	☐	
19-096	K295960	103.00	103.73	0.72	570	☐	☐	☐	☐	
19-098	K295961	103.73	104.14	1.55	340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-098	K295962	104.14	105.60	0.20	2040	☐	☐	☐	☐	
19-098	K295963	105.60	106.30	1.11	930	☐	☐	☐	☐	
19-098	K295964	106.30	107.50	0.07	1510	☐	☐	☐	☐	
19-098	K295965	107.50	108.50	0.11	1230	☐	☐	☐	☐	
19-098	K295967	108.50	109.20	0.38	590	☐	☐	☐	☐	
19-098	K295968	109.20	110.70	0.12	2080	☐	☐	☐	☐	
19-098	K295969	110.70	112.00	0.03	2150	☐	☐	☐	☐	
19-098	K295970	112.00	113.50	0.11	2250	☐	☐	☐	☐	
19-098	K295971	113.50	115.00	0.13	2120	☐	☐	☐	☐	
19-098	K295972	113.50	115.00	0.05	2150	☑	☐	☐	☐	1/4 dup
19-098	K295973	115.00	116.50	0.04	2250	☐	☐	☐	☐	
19-098	K295974	116.50	118.00	0.06	2070	☐	☐	☐	☐	
19-098	K295975	118.00	119.50	0.15	2230	☐	☐	☐	☐	
19-098	K295976	119.50	121.00	0.06	2210	☐	☐	☐	☐	
19-098	K295977	121.00	122.50	0.09	1890	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-098	K295978	122.50	124.00	0.02	2120	☐	☐	☐	☐	
19-098	K295979	124.00	125.50	0.02	2360	☐	☐	☐	☐	
19-098	K295981	125.50	126.80	0.04	2320	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.90	7.00	ST		30	NUL	1	pyrite bearing quartz veinlet 30 TCA			
10.25	10.60	ST		50	NUL	2	pyrite bearing quartz stringers			
14.00	15.00	ST		70	NUL	6	pyrite bearing quartz stringer			
17.25	17.34	VN	37	70	NUL	1	semimassive sulfide vein with massive sphalerie and pyrite			
								Py	20	DI
								Sp	80	DI
19.23	20.45	FT	42	--	NUL	1	gouged granodiorite, faulted, possibly trending 50 TCA; unsure			
21.00	21.04	VT	37	30	NUL	1	pyrite bearing quartz veinlet			
28.50	29.50	FT	42	--	NUL	1	faulted rubbly zone in granodiiorite			
30.48	31.30	FT	42	70	NUL	1	faulte granodiorte			
31.30	31.60	GO	34	70	NUL	1	gouged granodioirte with trace pyrite in oguge			
36.15	36.30	FT	42	70	NUL	1	faulte granodiorite with disseminated pyrite			
39.00	40.00	ST		70	NUL	2	two quartz carbonate stringers 2 cm wide; no sulfide			
40.70	40.75	FT	42	30	NUL	1	fault surface in clay altered granodioirte			
46.33	46.88	ST		70	NUL	2	two pyrite beaing veinlets 2 cm wide			
50.40	50.98	ST		30	NUL	2	pyrite bearing veinlets 5 mm wide			
51.50	53.50	ST		70	NUL	4	pyrite bearing quartz stringers			
53.72	53.75	VT	37	70	NUL	1	pyrite bearing quartz veinlet 2 cm wide			
								Py	10	DI
60.50	61.50	ST		70	NUL	2	pyrite bearing quartz stringers			
63.75	64.10	DY	37	70	NUL	1	qfp dyke			
67.00	68.50	ST		40	NUL	3	pyrite bearing quartz stringers			
69.80	70.10	ST		45	NUL	7	pyrite bearing quartz stringers			
								Py	1	DI
71.00	72.00	ST		30	NUL	2	pyrite bearing quartz stringers			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
77.70	79.70	ST		30	NUL	3	pyrite beraing quartz veinlets 3 mm wide			
								Py	1	DI
79.70	80.50	ST		40	NUL	10	pyrite bearing quartz stringers ranging in size from 4 to 20 mm			
								Py	5	DI
80.51	80.83	BX	34	70	NUL	1	brecciate grd with disseminated patchy pyrite			
								Py	1	DI
80.83	80.89	DY	37	80	NUL	1	qfp dyke sharp u pper and lower contact			
80.89	80.95	VT	37	80	NUL	1	semimassive sulfide vein with pyrite and minor sphal			
								Sp	0.1	DI
								Py	10	DI
80.95	84.15	DY	37	70	NUL	1	qfp dyke			
84.15	85.08	ST		70	NUL	1	siliceous granodiorite with disseminated pyrite and pyrite stringers throughout			
								Py	5	DI
85.08	85.57	BX	34	70	NUL	1	semimassive sulfide hosting (pyrite +- sphal +- galena) brecciated quartz carbonate vein trending 70 CTA			
								Sp	1	DI
								Gn	1	IN
								Py	5	DI
85.57	86.26	ST		70	NUL	3	pyrite bearing quartz stringers			
87.00	89.22	ST		70	NUL	10	pyrite bearing quartz veinlets. One veinlet has trace sphalerite rrimming pyrite			
90.42	90.66	VT	37	70	NUL	1	dissem pyrite trending 70 TCA in interval of siliceous grd			
91.00	91.78	ST		60	NUL	2	patchy pyrite and dissem pyrite stringers			
93.45	93.87	ST		50	NUL	2	pyrite bearing quartz stringers			
95.27	96.13	ST		70	NUL	3	pyrite beeraing quartz veinlets			
99.35	99.39	VT	37	50	NUL	1	2 cm wide pyrite bearing quartz veinlet			
								Py	1	DI
99.50	100.00	ST		60	NUL	2	two 1 cm wide pyrite baearing quartz veinlets			
								Py	1	DI
101.00	101.70	ST		80	NUL	3	pyrite bearing quartz veinlets 2mm wide			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.1	DI
101.95	102.30	ST		--	NUL	1	zone of silica flooding and disseminated pyrite in granodioirte			
								Py	0.5	DI
103.00	103.50	ST		--	NUL	1	zone of silica flooding and dissemianted pyrite in granodioirte			
								Py	1	DI
103.75	103.84	VN	37	70	NUL	1	semimassive pyrite vein with weak sphalerite on lower margin			
								Py	50	DI
								Sp	2	DI
104.00	105.10	ST		80	NUL	10	ten stringers with weak pryite			
								Py	0.1	DI
105.70	105.84	FA	64	70	NUL	1	faulted granodiorite with one 1 cm wide veinlet containing disseminated pyrite, as well as disseminated pyrite in groundmass			
								Py	1.5	DI
108.60	109.20	FA	64	50	NUL	1	faulted granodiorite, weakly brecciated and oxidized, with trace pyrite within faulte interval			
								Py	0.5	DI
112.00	112.30	ST		30	NUL	3	three quartz arb veinlets without sulfide			
114.00	114.15	ST		65	NUL	2	two quartz carb veinlets without sulfide			
117.50	118.00	ST		40	NUL	4	four small quartz carb veinlets without sulfide			
121.28	121.92	ST		80	NUL	4	four small quartz cabronate veinlets with very weak pyrite			
								Py	0.1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383179	6889095	1428.684	147.83

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-458

CLAIM: YC37992

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 25 - Sep 26, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
12	35.66	-50.6	Reflex
147	37.86	-50.2	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.2	1.2	OVB
1.2	3	1.8	OVB
3	5	2	GRD
5	7.62	2.62	GRD
7.62	9.7	2.08	GRD
9.7	13.72	4.02	GRD
13.72	14.5	0.78	GRD
14.5	16	1.5	GRD
16	16.8	0.8	GRD
16.8	17.5	0.7	GRD
17.5	19.5	2	GRD
19.5	21.5	2	GRD
21.5	21.8	0.3	GRD
21.8	24.5	2.7	GRD
24.5	25.3	0.8	GRD
25.3	26.85	1.55	GRD

SAMPLES	
Numbers:	K295982 to K296000, W599250 to W599253, W602501 to W602620
Total:	143
Batch:	085, 098, 099, 101, 102
Certificates:	WH19254218, WH19254224, WH19254228, WH19255767, WH19255824, WH19300068, WH19300240

COMMENTS

26.85	28.25	1.4	GRD
28.25	30.5	2.25	GRD
30.5	31.85	1.35	GRD
31.85	32.9	1.05	GRD
32.9	36	3.1	GRD
36	37	1	GRD
37	38	1	GRD
38	40.3	2.3	GRD
40.3	41.7	1.4	GRD
41.7	42	0.3	GRD
42	44.7	2.7	GRD
44.7	57.1	12.4	GRD
57.1	60.5	3.4	GRD
60.5	64	3.5	GRD
64	65.3	1.3	GRD
65.3	69	3.7	GRD
69	69.9	0.9	GRD
69.9	70.5	0.6	GRD
70.5	71	0.5	GRD
71	82.63	11.63	GRD
82.63	82.9	0.27	GRD
82.9	86.4	3.5	GRD
86.4	88.33	1.93	GRD
88.33	88.66	0.33	BXA
88.66	89.19	0.53	APL
89.19	91.44	2.25	GRD
91.44	94	2.56	GRD
94	96	2	GRD
96	97.4	1.4	GRD
97.4	97.9	0.5	GRD
97.9	100	2.1	GRD
100	102	2	GRD

102	105	3	GRD
105	106.3	1.3	GRD
106.3	108.94	2.64	GRD
108.94	109.32	0.38	VEN
109.32	112	2.68	GRD
112	115.05	3.05	GRD
115.05	115.17	0.12	APL
115.17	116.7	1.53	GRD
116.7	117.6	0.9	GRD
117.6	120	2.4	GRD
120	122.3	2.3	GRD
122.3	123.8	1.5	GRD
123.8	124.2	0.4	GRD
124.2	125	0.8	GRD
125	125.85	0.85	GRD
125.85	126.08	0.23	VEN
126.08	126.49	0.41	GRD
126.49	127	0.51	GRD
127	128	1	GRD
128	129.6	1.6	GRD
129.6	130.5	0.9	GRD
130.5	131.5	1	GRD
131.5	134.6	3.1	GRD
134.6	135.6	1	GRD
135.6	136	0.4	GRD
136	139.3	3.3	GRD
139.3	141.3	2	GRD
141.3	142.6	1.3	GRD
142.6	145	2.4	GRD
145	145.5	0.5	GRD
145.5	147.83	2.33	GRD

Box Log

KL -19-458

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.2	6.71
2	6.71	10.77
3	10.77	14.2
4	14.2	18
5	18	21.42
6	21.42	25.2
7	25.2	28.82
8	28.82	32.84
9	32.84	36.87
10	36.87	41.13
11	41.13	45.7
12	45.7	49.99
13	49.99	54.5
14	54.5	58.89
15	58.89	63.26
16	63.26	67.42
17	67.42	71.95
18	71.95	76.42
19	76.42	80.91
20	80.91	85.5
21	85.5	89.91
22	89.91	94.34
23	94.34	98.79
24	98.79	103.2
25	103.2	107.37
26	107.37	111.94
27	111.94	116.43
28	116.43	120.97
29	120.97	124.97
30	124.97	129.11
31	129.11	133.46
32	133.46	137.66
33	137.66	141.94
34	141.94	146.22
35	146.22	147.83

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-458									
	26.89	12	NTW	GRD	685.7	431.2	2.02	2.7	
	56.77	9	NTW	GRD	617.2	407.6	2.43	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	OVB	--	overburden							
1.20	3.00	1.80	OVB	--	overburden							
3.00	5.00	2.00	GRD	--	faulted, rubbly light brown granodioirte, heavily clay altere, potentially fault gouge. Small gravelly fragments of granodiortie are light white to grey, potentially strongly argillically altered							
						LT	WH		ARG	2I		
						LT	BN		CLY	5I		
						LT	GY					
5.00	7.62	2.62	GRD	MG	heavily fractured fragmental gravel sized, to semi-competent 5-10 cm fragments of strongly argillic altered granodioirte, light white to greyish brown							
						LT	BN		CLY	4I		
						LT	WH		ARG	4I		
7.62	9.70	2.08	GRD	MG	srongly fractured, 5-10 cm fragmental pieces of moderately altered granodiorite, light brown to greyish brown, pitted and bleached, heavily oxidized.							
						LT	GY		ARG	3I		
						LT	BN					
						LT	WH					
9.70	13.72	4.02	GRD	MG	semi-competent, heavily oxidized an clay altered granodioirte, with strong sporadic fractues and fragments from 5-10 cm in size.							
						MD	BN		CLY	2I		
									BLE	2I		
									OXI	4I		
									ARG	2I		
13.72	14.50	0.78	GRD	MG	heavily fractured 2-3 cm fragments of oxidized granoioirte							
						MD	BN		BLE	2I		
									ARG	2I		
									OXI	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
14.50	16.00	1.50	GRD	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'							
						MD	GY		ARG	1I		
						MD	WH					
16.00	16.80	0.80	GRD	MG	heavily oxidized and moderately clay altered granodioitre							
						MD	BN		CLY	3I		
									OXI	3I		
16.80	17.50	0.70	GRD	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'							
						MD	GY					
						LT	GY		ARG	1I		
17.50	19.50	2.00	GRD	MG	fragmental fractued oxidized granodioirte with dissemianted pyrite along fracture surfaces. Fragments are 2-3 cm and angular.							
						MD	GY		OXI	3I	Py	0.5
						MD	BN		ARG	2I		
						LT	GY					
19.50	21.50	2.00	GRD	MG	heavily oxidized, fragmented granodioirte. Likely faulted, heavily clay altered and oxidiez. Weakly bleached.							
						MD	BN		CLY	3I		
									BLE	3I		
									OXI	3I		
21.50	21.80	0.30	GRD	MG	fragmental fractured oxidized granodiorite, clay altered with dissemianted pyrite along fracture surfaces.							
						MD	BN		OXI	4I	Py	0.5
21.80	24.50	2.70	GRD	MG	heavily oxidized, light brown, pitted granodioirte. With oxidized pitted fractures thorughout, devoid of sulfides.							
						MD	BN		BLE	2I		
						LT	BN		OXI	3I		
									CLY	1I		
24.50	25.30	0.80	GRD	MG	heavly fragmental 5-7 c chunks of granodioirte, heavily oxidized and oderately clay altered, with pyrite along fracture surfaces of fragments.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		OXI	3I		
						LT	BN		BLE	1I	Py	0.5
									CLY	2I		
25.30	26.85	1.55	GRD	MG	heavily fragments, strongly argilic and clay altered, oxidized and bleached granodiorite; sizes ranging from 2 cm to 4 cm, rubbly gravelly fragments. Likely due to intense clay alteration of grd.							
						MD	BN		BLE	2I		
						LT	BN		ARG	4I		
						LT	GY		CLY	3I		
									OXI	3I		
26.85	28.25	1.40	GRD	MG	5-20 cm sections of semicompetent granodiorite with moderate argillic altertion and clay alteration along fractures. Strong oxidative staining on fractures							
						MD	BN		OXI	3I		
						LT	GY		CLY	3I		
									ARG	2I		
28.25	30.50	2.25	GRD	MG	pervasively oxidized and clay altered granodiorite with moderate bleaching and weak pyrite along fracture surfaces.							
						MD	BN		CLY	2I		
									ARG	1I		
									BLE	3I		
									OXI	3I		
30.50	31.85	1.35	GRD	MG	intensely clay altered, fault gouged granodiorite with strong oxidation and bleaching. When not gouged, the rock is heavily fragmented into gravel sized fragments. This is likely due to advance argillic alteration mixed with oxdiation							
						MD	BN		BLE	3I		
									CLY	4I		
									OXI	4I		
31.85	32.90	1.05	GRD	MG	clay altered, weakly gouge and fragmental, oxidzied and bleached granodioirte.							
						MD	BN		BLE	2I		
									OXI	3I		
									CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.90	36.00	3.10	GRD	MG	strongly oxidized, bleached, light brown granodioirte in 10-20 cm fragments. Weak pyrite along fracture surfaces, and 10 small 1-2 m hailine pyrite bearing quartz veins, trending between 20-40 TCA.							
						MD	BN		ARG	1I	Py	1
						LT	GY		CLY	2I		
									OXI	3I		
									BLE	3I		
36.00	37.00	1.00	GRD	MG	medium green, weakly propylitic altered granodiorite.							
						MD	GY					
						MD	GN		PRO	2I		
37.00	38.00	1.00	GRD	MG	moderately propylitic altered granodiorite with 5 small 1-3 mm wide pyrite bearing quartz veinlets that trend 50 TCA.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
38.00	40.30	2.30	GRD	MG	unaltered granodiorite with weak oxidative staining on fracture surfaces							
						MD	GY					
40.30	41.70	1.40	GRD	MG	moderately propyltiic altered granodiorite with 1-3 mm wide pyrite bearing quartz veinlets that trend 70 TCA.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
41.70	42.00	0.30	GRD	MG	fault with sharp upper and lower contact trending 30 TCA, with pyrite bearing quartz veinlets developed within faulted horizon (4)							
						MD	BN		BLE	1I	Py	1.5
									OXI	3I		
									SIL	1I		
42.00	44.70	2.70	GRD	MG	moderately propylitic altered granodioite with 8 30 TCA pyrite bearing quartz veinlets developed thorughout interval, with weak oxidative staining along fracture surfaces							
						MD	GY		PRO	3I		
						MD	GN		OXI	2I	Py	0.75

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.70	57.10	12.40	GRD	MG	Extensive pyrite stringer development in this entire broad interval. Granodiorite varies between weak to moderate propylitic and weak to moderate argillic alteration. Weak oxidative staining around fractures persists until 54 m depth. Alternating intervals of argillic and propylitic alteration are semi-rhythmic throughout entire interval. Weak pyrite bearing stringer veinlets are developed pervasively, with no discrete zone of higher density of veining. Semi-rhythmically spacings of pyrite bearing quartz stringers that range in size from 1-4 mm wide, trending between 30-50 TCA are present for this entire section, and there is less that 1 m between each veinlet.							
						MD	GY		PRO	2I	Py	0.25
						MD	GN					
						LT	GY		ARG	2I		
						LT	WH					
57.10	60.50	3.40	GRD	MG	unaltered granodioirte							
						MD	GY					
60.50	64.00	3.50	GRD	MG	weak to moderately argillic and propylitic altered granodioirte, with series of low angle pyrite stingers developed that trend 30-40 TCA. They are somewhat evenly spaced, with a veinlet occurring once every 30cm in interval. Veinlets are 1-3 mm wide, and are surrounded by a halo of greenish propylitic alteration, typically zoning into argillic alteration 2-3 cm away from the veinlet.							
						MD	GY		ARG	2I		
						MD	GN					
						LT	GY		PRO	2I	Py	0.25
64.00	65.30	1.30	GRD	MG	weakly propylitic altered granodiorite with 2 stringers devoid of sulfide							
						MD	GN		PRO	2I		
						MD	GY					
65.30	69.00	3.70	GRD	MG	moderately propylitic altered granodioirte with well developed quartz stringers that are filled with pyrite. These pyrite veinlets range from 1-5 mm and trend 30 TCA with a bleached alteration halo extending 3 mm from them, within propylitic altered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						LT	WH		PRO	3I	Py	1
69.00	69.90	0.90	GRD	MG	trace propylitic altered granodioirte with one pyrite stringer trending 70 TCA							
						MD	GY		PRO	1I		
						MD	GN					
69.90	70.50	0.60	GRD	MG	weakly propyltiic altered granodioirte with two quartz veinlets 2mm wide with patchy pryite							
						MD	GY		PRO	2I	Py	0.5
						MD	GN					
70.50	71.00	0.50	GRD	MG	trace prop altered granodioirte with no sulfide							
						MD	GY		PRO	1I		
						MD	GN					
71.00	82.63	11.63	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are two carbonate vein with vuggy textures (described in secondary structure). This zone contain a large density of pyrite bearing veinlets, with a total count of ~75 +- 10							
						MD	GY		PRO	3I		
						MD	GN		SIL	3I	Py	5
									ARG	3I		
82.63	82.90	0.27	GRD	MG	mixture of semi-banded, weakly stockworked. Milky white to cream white, quartz carbonate vein material and mineralized, disseminated pyrite bearing, silicified grandiorite. Generally trends 70 TCA.							
						MD	GY		SIL	4I	Py	3
						LT	WH					
						LT	CR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
82.90	86.40	3.50	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are aronund 15 veinlets in this interval.							
						MD	GY		SIL	2I	Py	1
						MD	GN		PRO	3I		
									ARG	2I		
86.40	88.33	1.93	GRD	MG	moderately argillic altered granodioirte with no propylitic alteration. Patchy white to grey, with series of quartz and carbonate stringer veinlets that trend 70 TCA. Interval contains 15 veinlets that are pyrite bearing.							
						MD	GY					
						LT	WH		ARG	3I	Py	1.5
88.33	88.66	0.33	BXA	MG	brecciated mineraliezed granodioirte and semimassive slfide quartz cabonate vein, with blebby pyrite on upper portion of vein, and semimasive sulfie near centre, graing back out to blebby pyrite breccia on the lwoer margin. Semimassive sulfide vein contains pyrite, sphalerite, and weak galena.							
						MD	GY				Py	15
						LT	WH		SIL	4I	Gn	1
											Sp	4
											Py	5
88.66	89.19	0.53	APL	FG	finegrained cream whtie to grey aplite dyke							
						LT	GY					
						LT	CR					
89.19	91.44	2.25	GRD	MG	unaltered granodiorite. If anything, trace propylitic alteration							
						MD	GN					
						MD	GY					
91.44	94.00	2.56	GRD	MG	weakly propylitic altered granodiorite with 3 pyrite bearing quartz stringers trending 50 TCA							
						MD	GY		PRO	1I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
94.00	96.00	2.00	GRD	MG	moderately propylitic altered granodiorite with pyrit ebearing quartz stringers trending 70 TCA (11 veinlets from 2-5 mm)							
						MD	GN					
						MD	GY		PRO	3I	Py	2
96.00	97.40	1.40	GRD	MG	moderately propylitic altere granodiorite with pyrite bearing q=veinlets trening 25 TCA							
						MD	GY					
						DK	GN		PRO	3I	Py	2
97.40	97.90	0.50	GRD	MG	weakly propylitic altere granodioirte							
						MD	GN		PRO	2I		
						MD	GY					
97.90	100.00	2.10	GRD	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA.							
						MD	GY		ARG	1I	Py	0.5
						MD	GN		PRO	3I		
100.00	102.00	2.00	GRD	MG	moderately argillic altered and weak propylitic grandiorite with weldeveloped quartz stringers that trend 30 TCA, with a less proinent set that trends 70 TCA							
						MD	GY		ARG	3I		
						LT	WH		PRO	1I	Py	1
102.00	105.00	3.00	GRD	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA. Lesser set trends 30 TCA							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	3I		
105.00	106.30	1.30	GRD	MG	altered granodiorite with moderate propylitic alteration and 2 pyrite bearing mm wide stringers							
						MD	GY		PRO	2I		
						MD	GN					
106.30	108.94	2.64	GRD	MG	moderately propylitic altered granodioirte with well developed pyrit ebearing quartz strngers that trend 70 TCA. There are 30 pyrit ebearing stinges in this interval							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
108.94	109.32	0.38	VEN	MG	brecciated, banded quartz carbonate vein with semimassive pyrite, weakly banded galena, and minor sphalerite. Blebby disseminated pyrite is found throughout. Trends 60 TCA and has a sharp upper and lower contact. One sall vug in vein, with euhedral quartz crystals 4 mm long infililng the vug.							
						MD	GY				Py	11
						LT	CR		SIL	5I	Sp	1
						LT	WH				Gn	1
109.32	112.00	2.68	GRD	MG	weak to moderate propylitic altered granodioirte with patchy argillic alteration, and dissemianted pyite bearing quartz stingers trending 70 TCA							
						MD	GY		ARG	2I		
						MD	GN					
						LT	WH		PRO	2I	Py	0.5
112.00	115.05	3.05	GRD	MG	unaltered granodioirte							
						MD	GY					
115.05	115.17	0.12	APL	FG	fine grained pinkish brown to cream aplite dyke, sharp upper and lower contact trending 60 TCA							
						LT	BN					
						LT	PK					
						LT	CR					
115.17	116.70	1.53	GRD	MG	trace propylitic altered granodiorite							
						MD	GY		PRO	1I		
116.70	117.60	0.90	GRD	MG	moderately argillic and trace propylitic altered granodioitre with 5 40 TCA pyrite bearing quartz veinlets 2 mm wide							
						MD	GY		PRO	1I	Py	0.5
						MD	WH		ARG	3I		
117.60	120.00	2.40	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
120.00	122.30	2.30	GRD	MG	moderately propylitic altered granodiorite with rare pyrite stringers trending 80 TCA							
						MD	GY		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
122.30	123.80	1.50	GRD	MG	weakly propylitic altered granodioirte							
						MD	GN		PRO	1I		
						MD	GY					
123.80	124.20	0.40	GRD	MG	granodiorite with patchy tourmaline alteration							
						MD	GY		PRO	1I	To	5
						DK	BL					
124.20	125.00	0.80	GRD	MG	weakly propylitic altered granodiorite with trace pyrite strringers trending 70 TCA							
						MD	GN					
						MD	GY		PRO	2I	Py	0.5
125.00	125.85	0.85	GRD	MG	moderately propylitic altered granodiorite with zones of silicification and strong pyrit bearing quartz veinlets rending 70 TCA. There are 5 veinlets 3 mm wide with pyrite and dark grey alteration haloes.							
						MD	GN		PRO	3I		
						DK	GY		SIL	2I	Py	1
125.85	126.08	0.23	VEN	MG	banded, weakly vuggy dark grey quartz carbonate vein with banded pyrite and galena with trae sphalerite							
						MD	GY				Sp	1
						LT	CR				Gn	1
						DK	GY		SIL	5I	Py	5
126.08	126.49	0.41	GRD	MG	moderately propyltiic altered granodiorite with 6 pyrite baring q=stringer veins trending 60 TCA							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
126.49	127.00	0.51	GRD	MG	moderately argillic altered granoioirte							
						MD	GY					
						LT	WH		ARG	3I		
127.00	128.00	1.00	GRD	MG	weakly argilli altered granodioirte							
						MD	GY		ARG	1I		
128.00	129.60	1.60	GRD	MG	moderately argillic and propylitic altered granodioire							
						MD	GY		ARG	2I		
						LT	WH		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
129.60	130.50	0.90	GRD	MG	moderately propylitic altered grd with 5 pyrite bearing strgniers trending 50 TCA							
						MD	GY		PRO	1I	Py	0.5
130.50	131.50	1.00	GRD	MG	moderately argilliic altered granodiorite							
						MD	GY					
						LT	WH		ARG	3I		
131.50	134.60	3.10	GRD	MG	moderately argillic and propylitic altered granodioirte with pyrite beraing stringers trending 70 TCA and 30 TCA							
						MD	GY		PRO	2I	Py	1
						MD	GN		ARG	2I		
134.60	135.60	1.00	GRD	MG	trace propylitic altered granodioirte							
						MD	GN					
						MD	GY		PRO	1I		
135.60	136.00	0.40	GRD	MG	moderately prop altered grd with trace pyrite stingers trending 60 TCA							
						MD	GN		PRO	3I	Py	0.25
						MD	GY					
136.00	139.30	3.30	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration							
						MD	GN		PRO	3I	Py	0.1
						MD	GY					
139.30	141.30	2.00	GRD	MG	weakly propylitic and argillic altered granodioirtw with weak 30 TCA pyrite bearing quartz veinlets 1-3 mm wide							
						MD	GY		ARG	2I	Py	0.5
						MD	GN		PRO	2I		
141.30	142.60	1.30	GRD	MG	unaltered granodioirte							
						MD	GY					
142.60	145.00	2.40	GRD	MG	moderately propylitic ad argillic altered granodioirte with weak pyrite veinng mm scale 50 TCA							
						MD	WH		PRO	3I	Py	0.2
						MD	GY		ARG	3I		
145.00	145.50	0.50	GRD	MG	moderately argillic altered granodioirte with trace pyrite stringers throughout							
						MD	WH		ARG	3I	Py	1
						MD	GY		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
145.50	147.83	2.33	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.20	1.20	OVB	OVB	--	overburden
1.20	3.00	1.80	OVB	OVB	--	overburden
3.00	5.00	2.00	GRD	GRDF	--	faulted, rubbly light brown granodioirte, heavily clay altere, potentially fault gouge. Small gravelly fragments of granodiortie are light white to grey, potentially strongly argillically altered
5.00	7.62	2.62	GRD	GRDF	MG	heavily fractured fragmental gravel sized, to semi-competent 5-10 cm fragments of strongly argillic altered granodioirte, light white to greyish brown
7.62	9.70	2.08	GRD	GRDF	MG	srongly fractured, 5-10 cm fragmental pieces of moderately altered granodiorite, light brown to greyish brown, pitted and bleached, heavily oxidized.
9.70	13.72	4.02	GRD	GRDF	MG	semi-competent, heavily oxidized an clay altered granodioirte, with strong sporadic fractues and fragments from 5-10 cm in size.
13.72	14.50	0.78	GRD	GRDF	MG	heavily fractured 2-3 cm fragments of oxidized granoioirte
14.50	16.00	1.50	GRD	GRDA	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'
16.00	16.80	0.80	GRD	GRDF	MG	heavily oxidized and moderately clay altered granodioitre
16.80	17.50	0.70	GRD	GRDA	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'
17.50	19.50	2.00	GRD	FLTM	MG	fragmental fractued oxidized granodioirte with dissemianted pyrite along fracture surfaces. Fragments are 2-3 cm and angular.
19.50	21.50	2.00	GRD	GRDF	MG	heavily oxidized, fragmented granodioirte. Likely faulted, heavily clay altered and oxidiez. Weakly bleached.
21.50	21.80	0.30	GRD	FLTM	MG	fragmental fractured oxidized granodiorite, clay altered with dissemianted pyrite along fracture surfaces.
21.80	24.50	2.70	GRD	GRDA	MG	heavily oxidized, light brown, pitted granodioirte. With oxidized pitted fractures thorughout, devoid of sulfides.
24.50	25.30	0.80	GRD	FLTM	MG	heavly fragmental 5-7 c chunks of granodioirte, heavily oxidized and oderately clay altered, with pyrite along fracture surfaces of fragments.
25.30	26.85	1.55	GRD	GRDF	MG	heavily fragments, strongly argilic and clay altered, oxidized and bleached granodiorite; sizes ranging from 2 cm to 4 cm, rubbly gravelly fragments. Likely due to intense clay alteration of grd.
26.85	28.25	1.40	GRD	GRDA	MG	5-20 cm sections of semicompetent granodiorite with moderate argillic altertion and clay alteration along fractures. Strong oxidative staining on fractures

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
28.25	30.50	2.25	GRD	GRDA	MG	pervasively oxidized and clay altered granodiorite with moderate bleaching and weak pyrite along fracture surfaces.
30.50	31.85	1.35	GRD	GRDF	MG	intensely clay altered, fault gouged granodiorite with strong oxidation and bleaching. When not gouged, the rock is heavily fragmented into gravel sized fragments. This is likely due to advance argillic alteration mixed with oxdiation
31.85	32.90	1.05	GRD	GRDA	MG	clay altered, weakly gouge and fragmental, oxidzied and bleached granodioirte.
32.90	36.00	3.10	GRD	GRDM	MG	strongly oxidized, bleached, light brown granodioirte in 10-20 cm fragments. Weak pyrite along fracture surfaces, and 10 small 1-2 m hailine pyrite bearing quartz veins, trending between 20-40 TCA.
36.00	37.00	1.00	GRD	GRDA	MG	medium green, weakly propylitic altered granodiorite.
37.00	38.00	1.00	GRD	GRDM	MG	moderately propylitic altered granodiorite with 5 small 1-3 mm wide pyrite bearing quartz veinlets that trend 50 TCA.
38.00	40.30	2.30	GRD	GRD	MG	unaltered granodiorite with weak oxidative staining on fracture surfaces
40.30	41.70	1.40	GRD	GRDM	MG	moderately propyltiic altered granodiorite with 1-3 mm wide pyrite bearing quartz veinlets that trend 70 TCA.
41.70	42.00	0.30	GRD	FLTM	MG	fault with sharp upper and lower contact trending 30 TCA, with pyrite bearing quartz veinlets developed within faulted horizon (4)
42.00	44.70	2.70	GRD	GRDM	MG	moderately propylitic altered granodioite with 8 30 TCA pyrite bearing quartz veinlets developed thorughout interval, with weak oxidative staining along fracture surfaces
44.70	57.10	12.40	GRD	GRDM	MG	Extensive pyrite stringer development in this entire broad interval. Granodiorite varies between weak to moderate propylitic and weak to moderate argillic alteration. Weak oxidative staining around fractures persists until 54 m depth. Alternating intervals of argillic and propylitic alteration are semi-rhythmic throughout entire interval. Weak pyrite bearing stringer veinlets are developed pervasively, with no discrete zone of higher density of veining. Semi-rhythmically spacings of pyrite bearing quartz stringers that range in size from 1-4 mm wide, trending between 30-50 TCA are present for this entire section, and there is less that 1 m between each veinlet.
57.10	60.50	3.40	GRD	GRD	MG	unaltered granodioirte
60.50	64.00	3.50	GRD	GRDM	MG	weak to moderately argillic and propylitic altered granodioirte, with series of low angle pyrite stingers developed that trend 30-40 TCA. They are somewhat evenly spaced, with a veinlet occurring once every 30cm in interval. Veinlets are 1-3 mm wide, and are surrounded by a halo of greenish propylitic alteration, typically zoning into argillic alteration 2-3 cm away from the veinlet.
64.00	65.30	1.30	GRD	GRDA	MG	weakly propylitic altered granodiorite with 2 stringers devoid of sulfide

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
65.30	69.00	3.70	GRD	GRDM	MG	moderately propylitic altered granodioirte with well developed quartz stringers that are filled with pyrite. These pyrite veinlets range from 1-5 mm and trend 30 TCA with a bleached alteration halo extending 3 mm from them, within propylitic altered granodioirte
69.00	69.90	0.90	GRD	GRDA	MG	trace propylitic altered granodioirte with one pyrite stringer trending 70 TCA
69.90	70.50	0.60	GRD	GRDM	MG	weakly propyltiic altered granodioirte with two quartz veinlets 2mm wide with patchy pryite
70.50	71.00	0.50	GRD	GRDA	MG	trace prop altered granodioirte with no sulfide
71.00	82.63	11.63	GRD	GRDM	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are two carbonate vein with vuggy textures (described in secondary structure). This zone contain a large density of pyrite bearing veinlets, with a total count of ~75 +- 10
82.63	82.90	0.27	GRD	VEIN	MG	mixture of semi-banded, weakly stockworked. Milky white to cream white, quartz carbonate vein material and mineralized, disseminated pyrite bearing, silicified grandiorite. Generally trends 70 TCA.
82.90	86.40	3.50	GRD	GRDM	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are aronund 15 veinlets in this interval.
86.40	88.33	1.93	GRD	GRDM	MG	moderately argillic altered granodioirte with no propylitic alteration. Patchy white to grey, with series of quartz and carbonate stringer veinlets that trend 70 TCA. Interval contains 15 veinlets that are pyrite bearing.
88.33	88.66	0.33	BXA	VEIN	MG	brecciated mineraliezed granodioirte and semimassive slfide quartz cabonate vein, with blebby pyrite on upper portion of vein, and semimasive sulfie near centre, graing back out to blebby pyrite breccia on the lwoer margin. Semimassive sulfide vein contains pyrite, sphalerite, and weak galena.
88.66	89.19	0.53	APL	DYK	FG	finegrained cream whtie to grey aplite dyke
89.19	91.44	2.25	GRD	GRD	MG	unaltered granodiorite. If anything, trace propylitic alteration
91.44	94.00	2.56	GRD	GRDA	MG	weakly propylitic altered granodiorite with 3 pyrite bearing quartz stringers trending 50 TCA
94.00	96.00	2.00	GRD	GRDM	MG	moderately propylitic altered granodiorite with pyrit ebearing quartz stringers trending 70 TCA (11 veinlets from 2-5 mm)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
96.00	97.40	1.40	GRD	GRDM	MG	moderately propylitic altere granodiorite with pyrite bearing q=veinlets trening 25 TCA
97.40	97.90	0.50	GRD	GRDA	MG	weakly propylitic altere granodioirte
97.90	100.00	2.10	GRD	GRDM	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA.
100.00	102.00	2.00	GRD	GRDM	MG	moderately argillic altered and weak propylitic grandiorite with weldeveloped quartz stringers that trend 30 TCA, with a less proinent set that trends 70 TCA
102.00	105.00	3.00	GRD	GRDM	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA. Lesser set trends 30 TCA
105.00	106.30	1.30	GRD	GRDA	MG	altered granodiorite with moderate propylitic alteration and 2 pyrite bearing mm wide stringers
106.30	108.94	2.64	GRD	GRDM	MG	moderately propylitic altered granodioirte with well developed pyrit ebearing quartz strngers that trend 70 TCA. There are 30 pyrit ebearing stinges in this interval
108.94	109.32	0.38	VEN	VEIN	MG	brecciated, banded quartz carbonate vein with semimassive pyrite, weakly banded galena, and minor sphalerite. Blebby disseminated pyrite is found throughout. Trends 60 TCA and has a sharp upper and lower contact. One sall vug in vein, with euhedral quartz crystals 4 mm long infililng the vug.
109.32	112.00	2.68	GRD	GRDM	MG	weak to moderate propylitic altered granodioirte with patchy argillic alteration, and dissemianted pyite bearing quartz stingers trending 70 TCA
112.00	115.05	3.05	GRD	GRD	MG	unaltered granodioirte
115.05	115.17	0.12	APL	DYK	FG	fine grained pinkish brown to cream aplite dyke, sharp upper and lower contact trending 60 TCA
115.17	116.70	1.53	GRD	GRDA	MG	trace propylitic altered granodiorite
116.70	117.60	0.90	GRD	GRDM	MG	moderately argillic and trace propylitic altered granodioitre with 5 40 TCA pyrite bearing quartz veinlets 2 mm wide
117.60	120.00	2.40	GRD	GRDA	MG	weakly propylitic altered granodiorite
120.00	122.30	2.30	GRD	GRDM	MG	moderately propylitic altered granodiorite with rare pyrite stringers trending 80 TCA
122.30	123.80	1.50	GRD	GRDA	MG	weakly propylitic altered granodioirte
123.80	124.20	0.40	GRD	GRDA	MG	granodiorite with patchy tourmaline alteration
124.20	125.00	0.80	GRD	GRDA	MG	weakly propylitic altered granodiorite with trace pyrite strringers trending 70 TCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
125.00	125.85	0.85	GRD	GRDM	MG	moderately propylitic altered granodiorite with zones of silicification and strong pyrit bearing quartz veinlets rending 70 TCA. There are 5 veinlets 3 mm wide with pyrite and dark grey alteration haloes.
125.85	126.08	0.23	VEN	VEIN	MG	banded, weakly vuggy dark grey quartz carbonate vein with banded pyrite and galena with trae sphalerite
126.08	126.49	0.41	GRD	GRDM	MG	moderately propyltiic altered granodiorite with 6 pyrite baring q=stringer veins trending 60 TCA
126.49	127.00	0.51	GRD	GRDA	MG	moderately argillic altered granoioirte
127.00	128.00	1.00	GRD	GRDA	MG	weakly argilli altered granodioirte
128.00	129.60	1.60	GRD	GRDA	MG	moderately argillic and propylitic altered granodioire
129.60	130.50	0.90	GRD	GRDM	MG	moderately propylitic altered grd with 5 pyrite bearing strgniers trending 50 TCA
130.50	131.50	1.00	GRD	GRDA	MG	moderately argilliic altered granodiorite
131.50	134.60	3.10	GRD	GRDM	MG	moderately argillic and propylitic altered granodioirte with pyrite beraing stringers trending 70 TCA and 30 TCA
134.60	135.60	1.00	GRD	GRDA	MG	trace propylitic altered granodioirte
135.60	136.00	0.40	GRD	GRDM	MG	moderately prop altered grd with trace pyrite stingers trending 60 TCA
136.00	139.30	3.30	GRD	GRDA	MG	moderately propylitic altered granodiorite with weak argillic alteration
139.30	141.30	2.00	GRD	GRDM	MG	weakly propylitic and argillic altered granodioirtw with weak 30 TCA pyrite bearing quartz veinlets 1-3 mm wide
141.30	142.60	1.30	GRD	GRD	MG	unaltered granodioirte
142.60	145.00	2.40	GRD	GRDA	MG	moderately propylitic ad argillic altered granodioirte with weak pyrite veinng mm scale 50 TCA
145.00	145.50	0.50	GRD	GRDM	MG	moderately argillic altered granodioirte with trace pyrite stringers throughout
145.50	147.83	2.33	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	OVB	--	overburden							
1.20	3.00	1.80	OVB	--	overburden							
3.00	5.00	2.00	GRD	--	faulted, rubbly light brown granodioirte, heavily clay altere, potentially fault gouge. Small gravelly fragments of granodiortie are light white to grey, potentially strongly argillically altered							
						LT	BN					
						LT	GY		ARG	2I		
						LT	WH		CLY	5I		
5.00	7.62	2.62	GRD	MG	heavily fractured fragmental gravel sized, to semi-competent 5-10 cm fragments of strongly argillic altered granodioirte, light white to greyish brown							
						LT	BN		ARG	4I		
						LT	WH		CLY	4I		
7.62	9.70	2.08	GRD	MG	srongly fractured, 5-10 cm fragmental pieces of moderately altered granodiorite, light brown to greyish brown, pitted and bleached, heavily oxidized.							
						LT	BN		ARG	3I		
						LT	GY					
						LT	WH					
9.70	13.72	4.02	GRD	MG	semi-competent, heavily oxidized an clay altered granodioirte, with strong sporadic fractues and fragments from 5-10 cm in size.							
									CLY	2I		
						MD	BN		BLE	2I		
									ARG	2I		
									OXI	4I		
13.72	14.50	0.78	GRD	MG	heavily fractured 2-3 cm fragments of oxidized granoioirte							
									OXI	4I		
						MD	BN		ARG	2I		
									BLE	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
14.50	16.00	1.50	GRD	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'							
						MD	WH		ARG	1I		
						MD	GY					
16.00	16.80	0.80	GRD	MG	heavily oxidized and moderately clay altered granodioitre							
									CLY	3I		
						MD	BN		OXI	3I		
16.80	17.50	0.70	GRD	MG	semi-competent 10-15 cm pieces of granodioirte, best recovered interval of core thus far. Light grey to whitish grey, trace argillic altered granodioirte, with 70 TCA oxidized hairline fractures (4 observed).'							
						LT	GY					
						MD	GY		ARG	1I		
17.50	19.50	2.00	GRD	MG	fragmental fractued oxidized granodioirte with dissemianted pyrite along fracture surfaces. Fragments are 2-3 cm and angular.							
						MD	GY					
						MD	BN		ARG	2I	Py	0.5
						LT	GY		OXI	3I		
19.50	21.50	2.00	GRD	MG	heavily oxidized, fragmented granodioirte. Likely faulted, heavily clay altered and oxidiez. Weakly bleached.							
						MD	BN		CLY	3I		
									OXI	3I		
									BLE	3I		
21.50	21.80	0.30	GRD	MG	fragmental fractured oxidized granodiorite, clay altered with dissemianted pyrite along fracture surfaces.							
						MD	BN		OXI	4I	Py	0.5
21.80	24.50	2.70	GRD	MG	heavily oxidized, light brown, pitted granodioirte. With oxidized pitted fractures thorughout, devoid of sulfides.							
						MD	BN		CLY	1I		
						LT	BN		OXI	3I		
									BLE	2I		
24.50	25.30	0.80	GRD	MG	heavly fragmental 5-7 c chunks of granodioirte, heavily oxidized and oderately clay altered, with pyrite along fracture surfaces of fragments.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		BLE	1I		
									CLY	2I		
						LT	BN		OXI	3I	Py	0.5
25.30	26.85	1.55	GRD	MG	heavily fragments, strongly argilic and clay altered, oxidized and bleached granodiorite; sizes ranging from 2 cm to 4 cm, rubbly gravelly fragments. Likely due to intense clay alteration of grd.							
						MD	BN		ARG	4I		
						LT	GY		BLE	2I		
						LT	BN		CLY	3I		
									OXI	3I		
26.85	28.25	1.40	GRD	MG	5-20 cm sections of semicompetent granodiorite with moderate argillic altertion and clay alteration along fractures. Strong oxidative staining on fractures							
									CLY	3I		
						LT	GY		OXI	3I		
						MD	BN		ARG	2I		
28.25	30.50	2.25	GRD	MG	pervasively oxidized and clay altered granodiorite with moderate bleaching and weak pyrite along fracture surfaces.							
						MD	BN		ARG	1I		
									OXI	3I		
									CLY	2I		
									BLE	3I		
30.50	31.85	1.35	GRD	MG	intensely clay altered, fault gouged granodiorite with strong oxidation and bleaching. When not gouged, the rock is heavily fragmented into gravel sized fragments. This is likely due to advance argillic alteration mixed with oxdiation							
									OXI	4I		
									CLY	4I		
						MD	BN		BLE	3I		
31.85	32.90	1.05	GRD	MG	clay altered, weakly gouge and fragmental, oxidzied and bleached granodioirte.							
						MD	BN		BLE	2I		
									OXI	3I		
									CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.90	36.00	3.10	GRD	MG	strongly oxidized, bleached, light brown granodioirte in 10-20 cm fragments. Weak pyrite along fracture surfaces, and 10 small 1-2 m hailine pyrite bearing quartz veins, trending between 20-40 TCA.							
						LT	GY		BLE	3I	Py	1
									CLY	2I		
									OXI	3I		
						MD	BN		ARG	1I		
36.00	37.00	1.00	GRD	MG	medium green, weakly propylitic altered granodiorite.							
						MD	GY					
						MD	GN		PRO	2I		
37.00	38.00	1.00	GRD	MG	moderately propylitic altered granodiorite with 5 small 1-3 mm wide pyrite bearing quartz veinlets that trend 50 TCA.							
						MD	GY					
						MD	GN		PRO	3I	Py	0.5
38.00	40.30	2.30	GRD	MG	unaltered granodiorite with weak oxidative staining on fracture surfaces							
						MD	GY					
40.30	41.70	1.40	GRD	MG	moderately propyltiic altered granodiorite with 1-3 mm wide pyrite bearing quartz veinlets that trend 70 TCA.							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5
41.70	42.00	0.30	GRD	MG	fault with sharp upper and lower contact trending 30 TCA, with pyrite bearing quartz veinlets developed within faulted horizon (4)							
						MD	BN		SIL	1I	Py	1.5
									OXI	3I		
									BLE	1I		
42.00	44.70	2.70	GRD	MG	moderately propylitic altered granodioite with 8 30 TCA pyrite bearing quartz veinlets developed thorughout interval, with weak oxidative staining along fracture surfaces							
						MD	GN		OXI	2I		
						MD	GY		PRO	3I	Py	0.75

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.70	57.10	12.40	GRD	MG	Extensive pyrite stringer development in this entire broad interval. Granodiorite varies between weak to moderate propylitic and weak to moderate argillic alteration. Weak oxidative staining around fractures persists until 54 m depth. Alternating intervals of argillic and propylitic alteration are semi-rhythmic throughout entire interval. Weak pyrite bearing stringer veinlets are developed pervasively, with no discrete zone of higher density of veining. Semi-rhythmically spacings of pyrite bearing quartz stringers that range in size from 1-4 mm wide, trending between 30-50 TCA are present for this entire section, and there is less that 1 m between each veinlet.							
						LT	WH					
						MD	GY					
						LT	GY		PRO	2I		
						MD	GN		ARG	2I	Py	0.25
57.10	60.50	3.40	GRD	MG	unaltered granodioirte							
						MD	GY					
60.50	64.00	3.50	GRD	MG	weak to moderately argillic and propylitic altered granodioirte, with series of low angle pyrite stingers developed that trend 30-40 TCA. They are somewhat evenly spaced, with a veinlet occurring once every 30cm in interval. Veinlets are 1-3 mm wide, and are surrounded by a halo of greenish propylitic alteration, typically zoning into argillic alteration 2-3 cm away from the veinlet.							
						MD	GY		PRO	2I		
						LT	GY					
						MD	GN		ARG	2I	Py	0.25
64.00	65.30	1.30	GRD	MG	weakly propylitic altered granodiorite with 2 stringers devoid of sulfide							
						MD	GN					
						MD	GY		PRO	2I		
65.30	69.00	3.70	GRD	MG	moderately propylitic altered granodioirte with well developed quartz stringers that are filled with pyrite. These pyrite veinlets range from 1-5 mm and trend 30 TCA with a bleached alteration halo extending 3 mm from them, within propylitic altered granodioirte							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						MD	GN		PRO	3I	Py	1
						MD	GY					
69.00	69.90	0.90	GRD	MG	trace propylitic altered granodioirte with one pyrite stringer trending 70 TCA							
						MD	GY					
						MD	GN		PRO	1I		
69.90	70.50	0.60	GRD	MG	weakly propyltiic altered granodioirte with two quartz veinlets 2mm wide with patchy pryite							
						MD	GN		PRO	2I	Py	0.5
						MD	GY					
70.50	71.00	0.50	GRD	MG	trace prop altered granodioirte with no sulfide							
						MD	GN					
						MD	GY		PRO	1I		
71.00	82.63	11.63	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are two carbonate vein with vuggy textures (described in secondary structure). This zone contain a large density of pyrite bearing veinlets, with a total count of ~75 +- 10 small veinlets with pyrite.							
						MD	GN		SIL	3I		
									ARG	3I		
						MD	GY		PRO	3I	Py	5
82.63	82.90	0.27	GRD	MG	mixture of semi-banded, weakly stockworked. Milky white to cream white, quartz carbonate vein material and mineralized, disseminated pyrite bearing, silicified grandiorite. Generally trends 70 TCA.							
						LT	WH					
						LT	CR					
						MD	GY		SIL	4I	Py	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
82.90	86.40	3.50	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration. Silicified zones contain pyrite bearing veinlets. There are two prominent sets. One set trend 20-30 TCA and the other trends 60-70 TCA. Both have bleached alteration haloes that are white to greyish white, and extend anywhere from 1 cm on either side of the pyrite bearing veinlet, to up to 5 cm (depending on the size of the pyrite bearing veinlets, which range in size from 1mm to 2 cm). There are aronund 15 veinlets in this interval.							
						MD	GY		PRO	3I	Py	1
						MD	GN		ARG	2I		
									SIL	2I		
86.40	88.33	1.93	GRD	MG	moderately argillic altered granodioirte with no propylitic alteration. Patchy white to grey, with series of quartz and carbonate stringer veinlets that trend 70 TCA. Interval contains 15 veinlets that are pyrite bearing.							
						LT	WH		ARG	3I	Py	1.5
						MD	GY					
88.33	88.66	0.33	BXA	MG	brecciated mineraliezed granodioirte and semimassive slfide quartz cabonate vein, with blebby pyrite on upper portion of vein, and semimasive sulfie near centre, graing back out to blebby pyrite breccia on the lwoer margin. Semimassive sulfide vein contains pyrite, sphalerite, and weak galena.							
											Py	5
											Py	15
						MD	GY				Gn	1
						LT	WH		SIL	4I	Sp	4
88.66	89.19	0.53	APL	FG	finegrained cream whtie to grey aplite dyke sharp upper and lowe contact trending 75 TCA. Vein above dyke trands 70-80 TCA							
						LT	GY					
						LT	CR					
89.19	91.44	2.25	GRD	MG	unaltered granodiorite. If anything, trace propylitic alteration							
						MD	GY					
						MD	GN					
91.44	94.00	2.56	GRD	MG	weakly propylitic altered granodiorite with 3 pyrite bearing quartz stringers trending 50 TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						MD	GN		PRO	1I	Py	0.5
94.00	96.00	2.00	GRD	MG	moderately propylitic altered granodiorite with pyrit ebearing quartz stringers trending 70 TCA (11 veinlets from 2-5 mm)							
						MD	GY					
						MD	GN		PRO	3I	Py	2
96.00	97.40	1.40	GRD	MG	moderately propylitic altere granodiorite with pyrite bearing q=veinlets trening 25 TCA							
						MD	GY		PRO	3I	Py	2
						DK	GN					
97.40	97.90	0.50	GRD	MG	weakly propylitic altere granodioirte							
						MD	GN					
						MD	GY		PRO	2I		
97.90	100.00	2.10	GRD	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA.							
						MD	GN		PRO	3I	Py	0.5
						MD	GY		ARG	1I		
100.00	102.00	2.00	GRD	MG	moderately argillic altered and weak propylitic grandiorite with weldeveloped quartz stringers that trend 30 TCA, with a less proinent set that trends 70 TCA							
						LT	WH		PRO	1I		
						MD	GY		ARG	3I	Py	1
102.00	105.00	3.00	GRD	MG	moderately propylitic and trace argillic altered granodiorite with well developed pyrite bearing quartz stringers trending 70 TCA. Lesser set trends 30 TCA							
						MD	GN		ARG	1I	Py	0.5
						MD	GY		PRO	3I		
105.00	106.30	1.30	GRD	MG	altered granodiorite with moderate propylitic alteration and 2 pyrite bearing mm wide stringers							
						MD	GN		PRO	2I		
						MD	GY					
106.30	108.94	2.64	GRD	MG	moderately propylitic altered granodioirte with well developed pyrit ebearing quartz strngers that trend 70 TCA. There are 30 pyrit ebearing stinges in this interval							
						MD	GY					
						MD	GN		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
108.94	109.32	0.38	VEN	MG	brecciated, banded quartz carbonate vein with semimassive pyrite, weakly banded galena, and minor sphalerite. Blebby disseminated pyrite is found throughout. Trends 60 TCA and has a sharp upper and lower contact. One sall vug in vein, with euhedral quartz crystals 4 mm long infililng the vug.							
						LT	WH				Gn	1
						LT	CR				Sp	1
						MD	GY		SIL	5I	Py	11
109.32	112.00	2.68	GRD	MG	weak to moderate propylitic altered granodioirte with patchy argillic alteration, and dissemianted pyite bearing quartz stingers trending 70 TCA							
						MD	GN					
						LT	WH		ARG	2I	Py	0.5
						MD	GY		PRO	2I		
112.00	115.05	3.05	GRD	MG	unaltered granodioirte							
						MD	GY					
115.05	115.17	0.12	APL	FG	fine grained pinkish brown to cream aplite dyke, sharp upper and lower contact trending 60 TCA							
						LT	CR					
						LT	BN					
						LT	PK					
115.17	116.70	1.53	GRD	MG	trace propylitic altered granodiorite							
						MD	GY		PRO	1I		
116.70	117.60	0.90	GRD	MG	moderately argillic and trace propylitic altered granodioitre with 5 40 TCA pyrite bearing quartz veinlets 2 mm wide							
						MD	WH		ARG	3I		
						MD	GY		PRO	1I	Py	0.5
117.60	120.00	2.40	GRD	MG	weakly propylitic altered granodiorite							
						MD	GN		PRO	1I		
						MD	GY					
120.00	122.30	2.30	GRD	MG	moderately propylitic altered granodiorite with rare pyrite stringers trending 80 TCA							
						MD	GY					
						MD	GN		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.30	123.80	1.50	GRD	MG	weakly propylitic altered granodioirte							
						MD	GN		PRO	1I		
						MD	GY					
123.80	124.20	0.40	GRD	MG	granodiorite with patchy tourmaline alteration							
						DK	BL		PRO	1I	To	5
						MD	GY					
124.20	125.00	0.80	GRD	MG	weakly propylitic altered granodiorite with trace pyrite strringers trending 70 TCA							
						MD	GY					
						MD	GN		PRO	2I	Py	0.5
125.00	125.85	0.85	GRD	MG	moderately propylitic altered granodiorite with zones of silicification and strong pyrit bearing quartz veinlets rending 70 TCA. There are 5 veinlets 3 mm wide with pyrite and dark grey alteration haloes.							
						DK	GY		SIL	2I		
						MD	GN		PRO	3I	Py	1
125.85	126.08	0.23	VEN	MG	banded, weakly vuggy dark grey quartz carbonate vein with banded pyrite and galena with trae sphalerite							
						MD	GY		SIL	5I	Gn	1
						DK	GY				Py	5
						LT	CR				Sp	1
126.08	126.49	0.41	GRD	MG	moderately propyltiic altered granodiorite with 6 pyrite baring q=stringer veins trending 60 TCA							
						MD	GN					
						MD	GY		PRO	3I	Py	0.5
126.49	127.00	0.51	GRD	MG	moderately argillic altered granoioirte							
						LT	WH		ARG	3I		
						MD	GY					
127.00	128.00	1.00	GRD	MG	weakly argilli altered granodioirte							
						MD	GY		ARG	1I		
128.00	129.60	1.60	GRD	MG	moderately argillic and propylitic altered granodioire							
						MD	GY		ARG	2I		
						LT	WH		PRO	2I		
129.60	130.50	0.90	GRD	MG	moderately propylitic altered grd with 5 pyrite bearing strgniers trending 50 TCA							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	1I	Py	0.5
130.50	131.50	1.00	GRD	MG	moderately argilliic altered granodiorite							
						MD	GY		ARG	3I		
						LT	WH					
131.50	134.60	3.10	GRD	MG	moderately argillic and propylitic altered granodioirte with pyrite beraing stringers trending 70 TCA and 30 TCA							
						MD	GY		ARG	2I	Py	1
						MD	GN		PRO	2I		
134.60	135.60	1.00	GRD	MG	trace propylitic altered granodioirte							
						MD	GY					
						MD	GN		PRO	1I		
135.60	136.00	0.40	GRD	MG	moderately prop altered grd with trace pyrite stingers trending 60 TCA							
						MD	GY		PRO	3I	Py	0.25
						MD	GN					
136.00	139.30	3.30	GRD	MG	moderately propylitic altered granodiorite with weak argillic alteration							
						MD	GN					
						MD	GY		PRO	3I	Py	0.1
139.30	141.30	2.00	GRD	MG	weakly propylitic and argillic altered granodioirtw with weak 30 TCA pyrite bearing quartz veinlets 1-3 mm wide							
						MD	GY		ARG	2I	Py	0.5
						MD	GN		PRO	2I		
141.30	142.60	1.30	GRD	MG	unaltered granodioirte							
						MD	GY					
142.60	145.00	2.40	GRD	MG	moderately propylitic ad argillic altered granodioirte with weak pyrite veinng mm scale 50 TCA							
						MD	WH		PRO	3I	Py	0.2
						MD	GY		ARG	3I		
145.00	145.50	0.50	GRD	MG	moderately argillic altered granodioirte with trace pyrite stringers throughout							
						MD	WH		ARG	3I	Py	1
						MD	GY		PRO	3I		
145.50	147.83	2.33	GRD	MG	unaltered granodioirte							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					

KL -19-458

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.25	16	0.00	0	--	1H	6W	Overburden
1.52	3.05	1.53	0.52	34	0.00	0	--	1H	6W	Overburden
3.05	4.57	1.52	0.83	55	0.00	0	--	1H	6W	Overburden and/or gouge?
4.57	6.10	1.53	1.22	80	0.00	0	--	1H	6W	Overburden grading to highly weathered and fractured material
6.10	7.62	1.52	1.07	70	0.00	0	--	2H	5W	Oxidized and weathered material and fractures
7.62	9.14	1.52	1.13	74	0.00	0	--	2H	5W	Oxidized and weathered material and fractures
9.14	10.67	1.53	1.21	79	0.00	0	--	2H	5W	Oxidized and weathered material and fractures
10.67	12.19	1.52	1.51	99	0.00	0	--	2H	5W	Oxidized and weathered material and fractures
12.19	13.72	1.53	1.5	98	0.00	0	--	2H	5W	Oxidized and weathered material and fractures
13.72	16.76	3.04	2.67	88	0.11	4	--	2H	5W	Oxidized and weathered material and fractures
16.76	19.81	3.05	2.87	94	0.11	4	--	3H	4W	Oxidized and weathered material and fractures
19.81	22.86	3.05	3.01	99	0.53	17	--	2H	5W	Oxidized and weathered material and fractures
22.86	24.38	1.52	1.51	99	0.27	18	--	3H	4W	Oxidized and weathered material and fractures
24.38	27.43	3.05	2.76	90	0.11	4	--	2H	4W	Oxidized and weathered material and fractures
27.43	28.96	1.53	1.51	99	0.00	0	--	2H	4W	Oxidized and weathered material and fractures
28.96	32.00	3.04	2.85	94	0.00	0	--	2H	4W	Oxidized and weathered material and fractures
32.00	35.05	3.05	3.05	100	0.16	5	--	3H	4W	Oxidized and weathered material and fractures
35.05	36.58	1.53	1.52	99	1.17	76	--	3H	3W	Oxidized and weathered material and fractures
36.58	39.62	3.04	3.04	100	2.46	81	--	4H	2W	Some oxidized fractures

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
39.62	42.67	3.05	2.95	97	1.11	36	--	4H	3W	Some oxidized fractures and oxidized sections
42.67	45.72	3.05	3.05	100	2.14	70	--	3H	2W	Oxidized fractures
45.72	48.77	3.05	3.05	100	1.48	49	--	3H	2W	Some Oxidized fractures
48.77	51.82	3.05	3.05	100	2.57	84	--	4H	2W	Some Oxidized fractures
51.82	54.86	3.04	3.04	100	2.57	85	--	4H	2W	Minor Oxidized fractures
54.86	57.91	3.05	3.05	100	2.95	97	--	4H	1W	Sulphides and carbonates in fractures
57.91	60.96	3.05	3.05	100	2.95	97	--	4H	1W	Sulphides and carbonates in fractures
60.96	64.01	3.05	3.05	100	3.05	100	--	4H	1W	
64.01	67.06	3.05	3.05	100	2.41	79	--	4H	1W	well developed fracture set around mineralized vein at 65.4m
67.06	70.10	3.04	3.04	100	3.04	100	--	4H	1W	
70.10	73.15	3.05	3.05	100	2.60	85	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces
73.15	76.20	3.05	3.05	100	2.38	78	--	4H	1W	well developed joint set.
76.20	79.25	3.05	3.05	100	2.95	97	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces
79.25	82.30	3.05	3.05	100	2.84	93	--	4H	1W	
82.30	85.34	3.04	3.04	100	2.80	92	--	4H	2W	Fractures rough with sulphides and carbonte on fracture surfaces
85.34	88.39	3.05	3.05	100	2.25	74	--	4H	2W	
88.39	91.44	3.05	3.05	100	2.48	81	--	4H	2W	
91.44	94.49	3.05	3.05	100	2.57	84	--	4H	1W	
94.49	97.54	3.05	3.05	100	2.72	89	--	4H	1W	
97.54	100.58	3.04	2.91	96	2.90	95	--	4H	1W	
100.58	103.63	3.05	3.05	100	2.67	88	--	4H	1W	
103.63	106.68	3.05	3.05	100	2.42	79	--	4H	2W	Fractures rough with sulphides and carbonate on fracture surfaces
106.68	109.73	3.05	3.05	100	2.87	94	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces
109.73	112.78	3.05	3.05	100	3.05	100	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces
112.78	115.82	3.04	3.04	100	2.90	95	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
115.82	118.87	3.05	3.05	100	2.56	84	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces. Crumbly zone at 118.9m
118.87	121.92	3.05	3	98	2.58	85	--	4H	1W	Fractures rough with rock fragments and clay between
121.92	124.96	3.04	3.04	100	2.05	67	--	4H	1W	Fractures rough with sulphides and carbonte on fracture surfaces
124.96	126.49	1.53	1.52	99	0.89	58	--	4H	1W	
126.49	129.54	3.05	3.05	100	2.20	72	--	3H	1W	Rubbly section around 128m. Fractures rough with some clay and rock fragments.
129.54	132.59	3.05	3.05	100	2.90	95	--	3H	1W	Fractures rough with some clay and rock fragments. Some carbonate
132.59	135.64	3.05	3.02	99	2.73	90	--	3H	1W	Fractures rough with some clay and rock fragments.
135.64	138.68	3.04	3.04	100	2.80	92	--	4H	1W	
138.68	141.73	3.05	3.05	100	2.27	74	--	4H	1W	Small ~3cm crumbly section at 140.3m
141.73	144.78	3.05	3.02	99	2.71	89	--	4H	1W	Small (~3cm) crumbly section at ~142m
144.78	147.83	3.05	3.05	100	2.83	93	--	4H	1W	EOH

KL -19-458

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
8	0.233	GRD	
9	0.161	GRD	
10	0.222	GRD	
11	0.514	GRD	
12	0.143	GRD	
13	0.675	GRD	
14	0.168	GRD	
15	0.175	GRD	
16	0.278	GRD	
16	0.278	GRD	
17	0.373	GRD	
18	0.393	GRD	
19	0.044	GRD	
20	0.156	GRD	
21	0.404	GRD	
22	0.35	GRD	
23	0.411	GRD	
24	0.279	GRD	
25	0.337	GRD	
26	0.514	GRD	
27	0.549	GRD	
28	0.281	GRD	
29	0.238	GRD	
30	0.64	GRD	
31	0.371	GRD	
32	0.173	GRD	
33	0.465	GRD	
34	0.361	GRD	
35	0.172	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
36	0.131	GRD	
36	0.131	GRD	
37	0.474	GRD	
37	0.474	GRD	
38	3.891	GRD	
38	3.891	GRD	
39	11.86	GRD	
40	1.177	GRD	
41	0.452	GRD	
42	0.231	GRD	
42	0.231	GRD	
43	0.29	GRD	
44	0.749	GRD	
45	0.607	GRD	
46	0.144	GRD	
47	0.377	GRD	
48	1.313	GRD	
49	1.602	GRD	
50	1.068	GRD	
51	1.4	GRD	
52	0.469	GRD	
53	0.384	GRD	
54	0.491	GRD	
55	0.709	GRD	
56	0.407	GRD	
57	7.343	GRD	
58	17.72	GRD	
59	10.52	GRD	
60	0.527	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
61	0.824	GRD	
62	0.586	GRD	
63	0.402	GRD	
64	0.915	GRD	
64	0.915	GRD	
65	0.35	GRD	
66	0.242	GRD	
67	0.411	GRD	
68	0.406	GRD	
69	2.464	GRD	
69	2.464	GRD	
70	0.857	GRD	
71	0.356	GRD	
71	0.356	GRD	
72	0.177	GRD	
73	0.648	GRD	
74	1.043	GRD	
75	0.282	GRD	
76	0.528	GRD	
77	0.189	GRD	
78	0.146	GRD	
79	0.305	GRD	
80	0.399	GRD	
81	0.695	GRD	
82	0.253	GRD	
83	0.107	GRD	
84	0.278	GRD	
85	0.732	GRD	
86	0.288	GRD	
87	0.258	GRD	
88	0.166	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
89	0.11	APL	
90	7.087	GRD	
91	0.505	GRD	
92	0.782	GRD	
93	0.393	GRD	
94	9.445	GRD	
94	9.445	GRD	
95	0.668	GRD	
96	0.881	GRD	
96	0.881	GRD	
97	0.243	GRD	
98	0.269	GRD	
99	0.101	GRD	
100	0.455	GRD	
100	0.455	GRD	
101	0.116	GRD	
102	0.107	GRD	
102	0.107	GRD	
103	0.335	GRD	
104	0.463	GRD	
105	0.228	GRD	
105	0.228	GRD	
106	0.445	GRD	
107	0.617	GRD	
108	0.631	GRD	
109	0.109	VEN	
110	0.09	GRD	
111	0.424	GRD	
112	1.013	GRD	
112	1.013	GRD	
113	0.539	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
114	21.48	GRD	
115	2.456	GRD	
116	0.747	GRD	
117	1.266	GRD	
118	7.951	GRD	
119	2.257	GRD	
120	24.43	GRD	
120	24.43	GRD	
121	0.857	GRD	
122	6.976	GRD	
123	3.565	GRD	
124	0.626	GRD	
125	0.365	GRD	
125	0.365	GRD	
126	0.37	VEN	
127	2.05	GRD	
127	2.05	GRD	
128	6.216	GRD	
128	6.216	GRD	
129	2.697	GRD	
130	5.327	GRD	
131	1.25	GRD	
132	0.428	GRD	
133	0.146	GRD	
134	0.494	GRD	
135	0.847	GRD	
136	1.991	GRD	
136	1.991	GRD	
137	0.366	GRD	
138	0.38	GRD	
139	0.64	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
140	0.99	GRD	
141	0.856	GRD	
142	1.09	GRD	
143	0.465	GRD	
144	0.446	GRD	
145	0.626	GRD	
145	0.626	GRD	
146	13.21	GRD	
147	0.59	GRD	EOH

KL -19-458

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W602594	☐	19-102	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K295994	☐	19-098	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602600	☐	19-102	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602575	☐	19-101	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602569	☐	19-101	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602546	☐	19-101	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602535	☐	19-099	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602514	☐	19-099	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602506	☐	19-099	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602606	☐	19-102	low grade		☑	☐	☐
3.00	4.50	1.50	OVB, GRD	1.25	83	K295982	☐	19-098	low grade		☐	☐	☐
4.50	6.00	1.50	GRD	1.30	87	K295983	☐	19-098	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.25	83	K295984	☐	19-098	low grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.40	93	K295985	☐	19-098	low grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.40	93	K295986	☐	19-098	low grade		☐	☐	☑
9.00	10.50	1.50	GRD	1.38	92	K295987	☐	19-098	low grade		☐	☐	☐
10.50	12.00	1.50	GRD	1.34	89	K295988	☐	19-098	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
12.00	13.50	1.50	GRD	1.45	97	K295989	☐	19-098	low grade		☐	☐	☐
13.50	14.40	0.90	GRD	0.85	94	K295990	☐	19-098	low grade		☐	☐	☐
14.40	15.90	1.50	GRD	1.48	99	K295991	☐	19-098	low grade		☐	☐	☐
15.90	17.50	1.60	GRD	1.50	94	K295992	☐	19-098	low grade		☐	☐	☐
17.50	18.00	0.50	GRD, GRD	0.43	86	K295993	☐	19-098	low grade		☐	☐	☐
18.00	19.50	1.50	GRD	1.37	91	K295995	☐	19-098	low grade		☐	☐	☐
19.50	21.00	1.50	GRD, GRD	1.50	100	K295996	☐	19-098	low grade		☐	☐	☐
21.00	22.00	1.00	GRD	0.98	98	K295997	☐	19-098	low grade		☐	☐	☐
22.00	23.50	1.50	GRD	1.47	98	K295998	☐	19-098	low grade		☐	☐	☐
23.50	24.55	1.05	GRD	1.03	98	K295999	☐	19-098	low grade		☐	☐	☐
24.55	25.30	0.75	GRD	0.75	100	K296000	☐	19-098	low grade		☐	☐	☐
25.30	26.80	1.50	GRD, GRD	1.48	99	W602501	☐	19-099	low grade		☐	☐	☐
26.80	28.30	1.50	GRD	1.50	100	W602502	☐	19-099	low grade		☐	☐	☐
28.30	29.50	1.20	GRD	1.20	100	W602503	☐	19-099	low grade		☐	☐	☐
29.50	30.50	1.00	GRD	0.98	98	W602504	☐	19-099	low grade		☐	☐	☐
30.50	31.85	1.35	GRD, GRD	1.30	96	W602505	☐	19-099	low grade		☐	☐	☐
31.85	33.30	1.45	GRD, GRD	1.45	100	W602507	☐	19-099	low grade		☐	☐	☐
33.30	34.75	1.45	GRD	1.45	100	W602508	☐	19-099	low grade		☐	☐	☐
34.75	35.60	0.85	GRD	0.80	94	W602509	☐	19-099	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
35.60	36.25	0.65	GRD	0.65	100	W602510	☐	19-099	low grade		☐	☐	☐
36.25	37.75	1.50	GRD	1.50	100	W602511	☐	19-099	low grade		☐	☐	☐
37.75	39.25	1.50	GRD	1.50	100	W602512	☐	19-099	low grade		☐	☐	☐
39.25	40.22	0.97	GRD	0.95	98	W602513	☐	19-099	low grade		☐	☐	☐
40.22	40.80	0.58	GRD	0.58	100	W602515	☐	19-099	low grade		☐	☐	☐
40.80	41.65	0.85	GRD	0.82	96	W602516	☐	19-099	low grade		☐	☐	☐
41.65	42.26	0.61	GRD	0.60	98	W602517	☐	19-099	low grade		☐	☐	☐
42.26	43.75	1.49	GRD	1.49	100	W602518	☐	19-099	low grade		☐	☐	☐
43.75	44.75	1.00	GRD	0.98	98	W602519	☐	19-099	low grade		☐	☐	☐
44.75	45.65	0.90	GRD	0.90	100	W602520	☐	19-099	low grade		☐	☐	☐
45.65	45.95	0.30	GRD	0.30	100	W602521	☐	19-099	low grade		☐	☐	☐
45.65	45.95	0.30	GRD	0.30	100	W602522	☐	19-099	low grade		☐	☐	☑
45.95	47.00	1.05	GRD	1.05	100	W602523	☐	19-099	low grade		☐	☐	☐
47.00	48.40	1.40	GRD	1.40	100	W602524	☐	19-099	low grade		☐	☐	☐
48.40	49.90	1.50	GRD	1.50	100	W602525	☐	19-099	low grade		☐	☐	☐
49.90	51.35	1.45	GRD	1.45	100	W602526	☐	19-099	low grade		☐	☐	☐
51.35	51.82	0.47	GRD	0.47	100	W602527	☐	19-099	low grade		☐	☐	☐
51.82	53.40	1.58	GRD	1.56	99	W602528	☐	19-099	low grade		☐	☐	☐
53.40	54.86	1.46	GRD	1.45	99	W602529	☐	19-099	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
53.40	54.86	1.46	GRD	1.45	99	W602530	☐	19-099	low grade		☐	☑	☐
54.86	56.00	1.14	GRD	1.14	100	W602531	☐	19-099	low grade		☐	☐	☐
56.00	57.10	1.10	GRD	1.10	100	W602532	☐	19-099	low grade		☐	☐	☐
57.10	58.60	1.50	GRD, GRD	1.50	100	W602533	☐	19-099	low grade		☐	☐	☐
58.60	60.00	1.40	GRD	1.40	100	W602534	☐	19-099	low grade		☐	☐	☐
60.00	61.00	1.00	GRD	1.00	100	W602536	☐	19-099	low grade		☐	☐	☐
61.00	62.00	1.00	GRD	1.00	100	W602537	☐	19-099	low grade		☐	☐	☐
62.00	63.00	1.00	GRD	1.00	100	W602538	☐	19-099	low grade		☐	☐	☐
63.00	64.00	1.00	GRD	1.00	100	W602539	☐	19-099	low grade		☐	☐	☐
64.00	65.25	1.25	GRD, GRD	1.23	98	W602540	☐	19-099	low grade		☐	☐	☐
65.25	65.75	0.50	GRD	0.50	100	W602541	☐	19-101	low grade		☐	☐	☐
65.75	67.00	1.25	GRD	1.25	100	W602542	☐	19-101	low grade		☐	☐	☐
67.00	68.30	1.30	GRD	1.25	96	W602543	☐	19-101	low grade		☐	☐	☐
68.30	69.80	1.50	GRD	1.50	100	W602544	☐	19-101	low grade		☐	☐	☐
69.80	70.90	1.10	GRD	1.10	100	W602545	☐	19-101	low grade		☐	☐	☐
70.90	72.25	1.35	GRD	1.30	96	W602547	☐	19-101	low grade		☐	☐	☐
72.25	73.50	1.25	GRD	1.25	100	W602548	☐	19-101	low grade		☐	☐	☐
73.50	75.00	1.50	GRD	1.50	100	W602549	☐	19-101	low grade		☐	☐	☐
75.00	76.50	1.50	GRD	1.50	100	W602550	☐	19-101	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
76.50	78.00	1.50	GRD	1.50	100	W602551	☐	19-101	low grade		☐	☐	☐
78.00	79.40	1.40	GRD	1.40	100	W602552	☐	19-101	low grade		☐	☐	☐
79.40	80.10	0.70	GRD	0.50	71	W602553	☐	19-101	low grade		☐	☐	☐
80.10	81.60	1.50	GRD	1.50	100	W602554	☐	19-101	low grade		☐	☐	☐
81.60	82.64	1.04	GRD	1.02	98	W602555	☐	19-101	low grade		☐	☐	☐
81.60	82.64	1.04	GRD	1.02	98	W602556	☐	19-101	low grade		☐	☑	☐
82.64	83.12	0.48	GRD	0.48	100	W602557	☐	19-101	low grade		☐	☐	☐
83.12	84.15	1.03	GRD	1.00	97	W602558	☐	19-101	low grade		☐	☐	☐
84.15	85.50	1.35	GRD	1.30	96	W602559	☐	19-101	low grade		☐	☐	☐
85.50	86.40	0.90	GRD	0.90	100	W602560	☐	19-101	low grade		☐	☐	☐
86.40	87.18	0.78	GRD, GRD	0.75	96	W602561	☐	19-101	low grade		☐	☐	☐
86.40	87.18	0.78	GRD, GRD	0.75	96	W602562	☐	19-101	low grade		☐	☐	☑
87.18	88.33	1.15	GRD	1.10	96	W602563	☐	19-101	low grade		☐	☐	☐
88.33	88.66	0.33	BXA, GRD	0.31	94	W599252	☐	19-085	high grade		☐	☐	☐
88.33	88.66	0.33	BXA, GRD	0.31	94	W599253	☐	19-085	high grade		☐	☑	☐
88.66	89.19	0.53	APL, BXA	0.50	94	W602564	☐	19-101	low grade		☐	☐	☐
89.19	89.80	0.61	APL, GRD	0.60	98	W602565	☐	19-101	low grade		☐	☐	☐
89.80	91.30	1.50	GRD	1.50	100	W602566	☐	19-101	low grade		☐	☐	☐
91.30	92.80	1.50	GRD	1.50	100	W602567	☐	19-101	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
92.80	94.00	1.20	GRD	1.20	100	W602568	☐	19-101	low grade		☐	☐	☐
94.00	95.00	1.00	GRD, GRD	1.00	100	W602570	☐	19-101	low grade		☐	☐	☐
95.00	96.00	1.00	GRD	1.00	100	W602571	☐	19-101	low grade		☐	☐	☐
96.00	97.35	1.35	GRD, GRD	1.30	96	W602572	☐	19-101	low grade		☐	☐	☐
97.35	98.75	1.40	GRD	1.40	100	W602573	☐	19-101	low grade		☐	☐	☐
98.75	100.00	1.25	GRD	1.20	96	W602574	☐	19-101	low grade		☐	☐	☐
100.00	101.50	1.50	GRD, GRD	1.50	100	W602576	☐	19-101	low grade		☐	☐	☐
101.50	103.00	1.50	GRD	1.48	99	W602577	☐	19-101	low grade		☐	☐	☐
103.00	104.00	1.00	GRD	1.00	100	W602578	☐	19-101	low grade		☐	☐	☐
104.00	105.00	1.00	GRD	1.00	100	W602579	☐	19-101	low grade		☐	☐	☐
105.00	106.20	1.20	GRD, GRD	1.20	100	W602580	☐	19-101	low grade		☐	☐	☐
106.20	106.75	0.55	GRD	0.54	98	W602581	☐	19-102	low grade		☐	☐	☐
106.75	108.00	1.25	GRD	1.20	96	W602582	☐	19-102	low grade		☐	☐	☐
108.00	108.95	0.95	GRD	0.90	95	W602583	☐	19-102	low grade		☐	☐	☐
108.95	109.33	0.38	VEN	0.35	92	W599250	☐	19-085	high grade		☐	☐	☐
109.33	110.50	1.17	GRD	1.17	100	W602584	☐	19-102	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.50	100	W602585	☐	19-102	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.50	100	W602586	☐	19-102	low grade		☐	☐	☑
112.00	113.50	1.50	GRD, GRD	1.50	100	W602587	☐	19-102	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
113.50	115.00	1.50	GRD	1.50	100	W602588	☐	19-102	low grade		☐	☐	☐
115.00	116.50	1.50	GRD	1.40	93	W602589	☐	19-102	low grade		☐	☐	☐
116.50	117.67	1.17	GRD	1.15	98	W602590	☐	19-102	low grade		☐	☐	☐
117.67	119.00	1.33	GRD	1.30	98	W602591	☐	19-102	low grade		☐	☐	☐
119.00	120.50	1.50	GRD	1.50	100	W602592	☐	19-102	low grade		☐	☐	☐
120.50	122.00	1.50	GRD	1.46	97	W602593	☐	19-102	low grade		☐	☐	☐
122.00	123.50	1.50	GRD	1.50	100	W602595	☐	19-102	low grade		☐	☐	☐
123.50	124.11	0.61	GRD	0.60	98	W602596	☐	19-102	low grade		☐	☐	☐
124.11	124.75	0.64	GRD	0.61	95	W602597	☐	19-102	low grade		☐	☐	☐
124.75	125.81	1.06	GRD	1.03	97	W602598	☐	19-102	low grade		☐	☐	☐
125.81	126.35	0.54	GRD	0.52	96	W599251	☐	19-085	high grade		☐	☐	☐
126.35	127.35	1.00	GRD	1.00	100	W602599	☐	19-102	low grade		☐	☐	☐
127.35	128.85	1.50	GRD	1.50	100	W602601	☐	19-102	low grade		☐	☐	☐
128.85	130.35	1.50	GRD	1.50	100	W602602	☐	19-102	low grade		☐	☐	☐
130.35	131.35	1.00	GRD	1.00	100	W602603	☐	19-102	low grade		☐	☐	☐
131.35	132.10	0.75	GRD	0.70	93	W602604	☐	19-102	low grade		☐	☐	☐
132.10	133.30	1.20	GRD	1.18	98	W602605	☐	19-102	low grade		☐	☐	☐
133.30	133.75	0.45	GRD	0.45	100	W602607	☐	19-102	low grade		☐	☐	☐
133.75	135.00	1.25	GRD	1.23	98	W602608	☐	19-102	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
135.00	136.50	1.50	GRD	1.50	100	W602609	☐	19-102	low grade		☐	☐	☐
136.50	138.00	1.50	GRD	1.50	100	W602610	☐	19-102	low grade		☐	☐	☐
138.00	139.30	1.30	GRD	1.25	96	W602611	☐	19-102	low grade		☐	☐	☐
138.00	139.30	1.30	GRD	1.25	96	W602612	☐	19-102	low grade		☐	☑	☐
139.30	140.25	0.95	GRD, GRD	0.90	95	W602613	☐	19-102	low grade		☐	☐	☐
140.25	141.30	1.05	GRD	1.05	100	W602614	☐	19-102	low grade		☐	☐	☐
141.30	142.60	1.30	GRD, GRD	1.30	100	W602615	☐	19-102	low grade		☐	☐	☐
142.60	144.00	1.40	GRD, GRD	1.40	100	W602616	☐	19-102	low grade		☐	☐	☐
144.00	145.00	1.00	GRD	1.00	100	W602617	☐	19-102	low grade		☐	☐	☐
145.00	145.40	0.40	GRD, GRD	0.38	95	W602618	☐	19-102	low grade		☐	☐	☐
145.40	146.40	1.00	GRD	1.00	100	W602619	☐	19-102	low grade		☐	☐	☐
146.40	147.83	1.43	GRD	1.42	99	W602620	☐	19-102	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-102	W602594	0.00	0.00	0.27	610	☐	☐	☐	☑ ME-6	ME-6
19-102	W602600	0.00	0.00	1.74	1350	☐	☐	☐	☑ KL-STD6	std kl 6
19-102	W602606	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-099	W602506	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-099	W602514	0.00	0.00	0.28	610	☐	☐	☐	☑ ME-6	ME-6
19-099	W602535	0.00	0.00	1.66	850	☐	☐	☐	☑ KL-STD6	kL-6 stf
19-098	K295994	0.00	0.00	0.28	580	☐	☐	☐	☑ ME-6	ME-6 STD
19-101	W602546	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-101	W602569	0.00	0.00	0.26	650	☐	☐	☐	☑ ME-6	ME-6
19-101	W602575	0.00	0.00	1.62	290	☐	☐	☐	☑ KL-STD6	STD-KL6
19-098	K295982	3.00	4.50	0.22	1240	☐	☐	☐	☐	
19-098	K295983	4.50	6.00	0.29	900	☐	☐	☐	☐	
19-098	K295984	6.00	7.50	0.07	1870	☐	☐	☐	☐	
19-098	K295985	7.50	9.00	0.07	1700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-098	K295986	7.50	9.00	0.09	1680	☐	☑	☐	☐	coarse dup
19-098	K295987	9.00	10.50	0.04	1700	☐	☐	☐	☐	
19-098	K295988	10.50	12.00	0.03	1440	☐	☐	☐	☐	
19-098	K295989	12.00	13.50	0.04	2430	☐	☐	☐	☐	
19-098	K295990	13.50	14.40	0.03	1500	☐	☐	☐	☐	
19-098	K295991	14.40	15.90	0.12	180	☐	☐	☐	☐	
19-098	K295992	15.90	17.50	0.06	1410	☐	☐	☐	☐	
19-098	K295993	17.50	18.00	0.04	360	☐	☐	☐	☐	
19-098	K295995	18.00	19.50	0.06	430	☐	☐	☐	☐	
19-098	K295996	19.50	21.00	0.02	1660	☐	☐	☐	☐	
19-098	K295997	21.00	22.00	0.03	1620	☐	☐	☐	☐	
19-098	K295998	22.00	23.50	0.03	2020	☐	☐	☐	☐	
19-098	K295999	23.50	24.55	0.02	1480	☐	☐	☐	☐	
19-098	K296000	24.55	25.30	0.01	550	☐	☐	☐	☐	
19-099	W602501	25.30	26.80	0.02	1820	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-099	W602502	26.80	28.30	0.11	1170	☐	☐	☐	☐	
19-099	W602503	28.30	29.50	0.08	900	☐	☐	☐	☐	
19-099	W602504	29.50	30.50	0.01	4750	☐	☐	☐	☐	
19-099	W602505	30.50	31.85	0.06	1440	☐	☐	☐	☐	
19-099	W602507	31.85	33.30	0.01	1910	☐	☐	☐	☐	
19-099	W602508	33.30	34.75	0.03	980	☐	☐	☐	☐	
19-099	W602509	34.75	35.60	0.13	870	☐	☐	☐	☐	
19-099	W602510	35.60	36.25	0.02	700	☐	☐	☐	☐	
19-099	W602511	36.25	37.75	0.01	520	☐	☐	☐	☐	
19-099	W602512	37.75	39.25	0.01	2670	☐	☐	☐	☐	
19-099	W602513	39.25	40.22	0.06	2720	☐	☐	☐	☐	
19-099	W602515	40.22	40.80	0.07	320	☐	☐	☐	☐	
19-099	W602516	40.80	41.65	0.02	1460	☐	☐	☐	☐	
19-099	W602517	41.65	42.26	0.03	380	☐	☐	☐	☐	
19-099	W602518	42.26	43.75	0.01	1710	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-099	W602519	43.75	44.75	0.03	1890	☐	☐	☐	☐	
19-099	W602520	44.75	45.65	0.23	280	☐	☐	☐	☐	
19-099	W602521	45.65	45.95	0.05	120	☐	☐	☐	☐	
19-099	W602522	45.65	45.95	0.05	300	☐	☑	☐	☐	coarse fup
19-099	W602523	45.95	47.00	0.02	1190	☐	☐	☐	☐	
19-099	W602524	47.00	48.40	0.01	1790	☐	☐	☐	☐	
19-099	W602525	48.40	49.90	0.05	590	☐	☐	☐	☐	
19-099	W602526	49.90	51.35	0.01	1670	☐	☐	☐	☐	
19-099	W602527	51.35	51.82	0.08	260	☐	☐	☐	☐	
19-099	W602528	51.82	53.40	0.01	840	☐	☐	☐	☐	
19-099	W602529	53.40	54.86	0.02	1740	☐	☐	☐	☐	
19-099	W602530	53.40	54.86	0.02	380	☑	☐	☐	☐	1/4 dup
19-099	W602531	54.86	56.00	0.12	520	☐	☐	☐	☐	
19-099	W602532	56.00	57.10	0.01	710	☐	☐	☐	☐	
19-099	W602533	57.10	58.60	0.01	2280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-099	W602534	58.60	60.00	0.04	2290	☐	☐	☐	☐	
19-099	W602536	60.00	61.00	0.14	510	☐	☐	☐	☐	
19-099	W602537	61.00	62.00	0.05	810	☐	☐	☐	☐	
19-099	W602538	62.00	63.00	0.02	1970	☐	☐	☐	☐	
19-099	W602539	63.00	64.00	0.02	540	☐	☐	☐	☐	
19-099	W602540	64.00	65.25	0.09	530	☐	☐	☐	☐	
19-101	W602541	65.25	65.75	0.45	680	☐	☐	☐	☐	
19-101	W602542	65.75	67.00	0.02	1640	☐	☐	☐	☐	
19-101	W602543	67.00	68.30	0.04	900	☐	☐	☐	☐	
19-101	W602544	68.30	69.80	0.04	2430	☐	☐	☐	☐	
19-101	W602545	69.80	70.90	0.11	330	☐	☐	☐	☐	
19-101	W602547	70.90	72.25	0.05	420	☐	☐	☐	☐	
19-101	W602548	72.25	73.50	0.02	1200	☐	☐	☐	☐	
19-101	W602549	73.50	75.00	0.13	480	☐	☐	☐	☐	
19-101	W602550	75.00	76.50	0.02	1390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-101	W602551	76.50	78.00	0.10	480	☐	☐	☐	☐	
19-101	W602552	78.00	79.40	0.10	1330	☐	☐	☐	☐	
19-101	W602553	79.40	80.10	0.37	320	☐	☐	☐	☐	
19-101	W602554	80.10	81.60	0.11	450	☐	☐	☐	☐	
19-101	W602555	81.60	82.64	0.07	3960	☐	☐	☐	☐	
19-101	W602556	81.60	82.64	0.07	800	☑	☐	☐	☐	1/4 dup
19-101	W602557	82.64	83.12	0.83	610	☐	☐	☐	☐	
19-101	W602558	83.12	84.15	0.05	1000	☐	☐	☐	☐	
19-101	W602559	84.15	85.50	0.06	2630	☐	☐	☐	☐	
19-101	W602560	85.50	86.40	0.11	1160	☐	☐	☐	☐	
19-101	W602561	86.40	87.18	0.53	220	☐	☐	☐	☐	
19-101	W602562	86.40	87.18	0.56	350	☐	☑	☐	☐	coarse dup
19-101	W602563	87.18	88.33	0.48	420	☐	☐	☐	☐	
19-085	W599252	88.33	88.66	5.41	110	☐	☐	☐	☐	high grade
19-085	W599253	88.33	88.66	4.77	30	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-101	W602564	88.66	89.19	0.09	760	☐	☐	☐	☐	
19-101	W602565	89.19	89.80	0.03	1050	☐	☐	☐	☐	
19-101	W602566	89.80	91.30	0.19	2910	☐	☐	☐	☐	
19-101	W602567	91.30	92.80	0.03	2210	☐	☐	☐	☐	
19-101	W602568	92.80	94.00	0.05	2150	☐	☐	☐	☐	
19-101	W602570	94.00	95.00	0.07	480	☐	☐	☐	☐	
19-101	W602571	95.00	96.00	0.04	380	☐	☐	☐	☐	
19-101	W602572	96.00	97.35	0.03	970	☐	☐	☐	☐	
19-101	W602573	97.35	98.75	0.01	410	☐	☐	☐	☐	
19-101	W602574	98.75	100.00	0.02	2310	☐	☐	☐	☐	
19-101	W602576	100.00	101.50	0.07	170	☐	☐	☐	☐	
19-101	W602577	101.50	103.00	0.06	440	☐	☐	☐	☐	
19-101	W602578	103.00	104.00	0.05	1170	☐	☐	☐	☐	
19-101	W602579	104.00	105.00	0.05	790	☐	☐	☐	☐	
19-101	W602580	105.00	106.20	0.04	770	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-102	W602581	106.20	106.75	0.04	260	☐	☐	☐	☐	
19-102	W602582	106.75	108.00	0.13	710	☐	☐	☐	☐	
19-102	W602583	108.00	108.95	0.13	570	☐	☐	☐	☐	
19-085	W599250	108.95	109.33	1.87	50	☐	☐	☐	☐	high grade
19-102	W602584	109.33	110.50	0.29	230	☐	☐	☐	☐	
19-102	W602585	110.50	112.00	0.07	830	☐	☐	☐	☐	
19-102	W602586	110.50	112.00	0.06	840	☐	☑	☐	☐	coarse dup
19-102	W602587	112.00	113.50	0.08	320	☐	☐	☐	☐	
19-102	W602588	113.50	115.00	0.03	2230	☐	☐	☐	☐	
19-102	W602589	115.00	116.50	0.03	2000	☐	☐	☐	☐	
19-102	W602590	116.50	117.67	0.04	1810	☐	☐	☐	☐	
19-102	W602591	117.67	119.00	0.05	1180	☐	☐	☐	☐	
19-102	W602592	119.00	120.50	0.02	2380	☐	☐	☐	☐	
19-102	W602593	120.50	122.00	0.04	1860	☐	☐	☐	☐	
19-102	W602595	122.00	123.50	0.03	2430	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-102	W602596	123.50	124.11	0.08	1630	☐	☐	☐	☐	
19-102	W602597	124.11	124.75	0.68	530	☐	☐	☐	☐	
19-102	W602598	124.75	125.81	0.19	870	☐	☐	☐	☐	
19-085	W599251	125.81	126.35	1.00	130	☐	☐	☐	☐	high grade
19-102	W602599	126.35	127.35	0.01	2190	☐	☐	☐	☐	
19-102	W602601	127.35	128.85	0.01	2080	☐	☐	☐	☐	
19-102	W602602	128.85	130.35	0.08	1790	☐	☐	☐	☐	
19-102	W602603	130.35	131.35	0.01	2370	☐	☐	☐	☐	
19-102	W602604	131.35	132.10	0.02	1080	☐	☐	☐	☐	
19-102	W602605	132.10	133.30	0.14	710	☐	☐	☐	☐	
19-102	W602607	133.30	133.75	0.34	530	☐	☐	☐	☐	
19-102	W602608	133.75	135.00	0.05	1130	☐	☐	☐	☐	
19-102	W602609	135.00	136.50	0.04	2290	☐	☐	☐	☐	
19-102	W602610	136.50	138.00	0.08	1170	☐	☐	☐	☐	
19-102	W602611	138.00	139.30	0.04	1980	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-102	W602612	138.00	139.30	0.06	2150	☑	☐	☐	☐	1/4 dup
19-102	W602613	139.30	140.25	0.47	1810	☐	☐	☐	☐	
19-102	W602614	140.25	141.30	0.18	500	☐	☐	☐	☐	
19-102	W602615	141.30	142.60	0.11	2370	☐	☐	☐	☐	
19-102	W602616	142.60	144.00	0.09	680	☐	☐	☐	☐	
19-102	W602617	144.00	145.00	0.02	2140	☐	☐	☐	☐	
19-102	W602618	145.00	145.40	0.08	1170	☐	☐	☐	☐	
19-102	W602619	145.40	146.40	0.03	2860	☐	☐	☐	☐	
19-102	W602620	146.40	147.83	0.03	2380	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
27.35	27.80	ST		50	NUL	2	pyrite bearing veinlets 2 mm wide			
								Py	0.1	DI
33.80	35.00	ST		50	NUL	8	pyrite bearing quartz veinlets 2 mm wide			
								Py	1	DI
35.20	36.00	ST		30	NUL	5	pyrite bearing quartz veinlets 2-4 mm wide			
								Py	0.75	DI
37.00	37.70	ST		40	NUL	4	pyrit ebearing quartz stringers			
								Py	0.5	DI
40.40	40.95	ST		20	NUL	3	pyrite bearing quartz veinlets			
42.60	43.00	ST		20	NUL	2	two pyrite bearing quartz veinlets 2 mm wide			
43.80	45.25	ST		40	NUL	5	pyrite bearing quartz veinlets			
								Py	0.5	DI
45.65	45.92	FT	42	70	NUL	1	fault gouged interval within mienralized granodiorite			
45.90	47.00	ST		30	NUL	10	small pyrite bearing quartz veinlets			
								Py	0.5	DI
48.25	48.75	ST		60	NUL	3	small pyrit ebearing quartz veinlets			
								Py	0.25	DI
49.50	49.75	ST		25	NUL	2	small pyrite beaing quartz veinlets 2mm wide			
								Py	0.5	DI
50.00	54.10	ST		30	NUL	15	small pyrite beaing quartz veinlets that are 2-5 mm wide, containing only disseminated pyrite			
								Py	0.75	DI
54.50	57.10	ST		30	NUL	9	small pyrite bearing quartz veinlets that trend 30 TCA. 2-4 mm wide			
								Py	0.5	DI
63.26	64.00	ST		30	NUL	3	pyrite bearing quartz veinelts			
								Py	0.5	DI
65.00	67.00	ST		60	NUL	7	pyrite bearing quartz veinlets			
								Py	1	DI
67.00	69.00	VT	37	15	NUL	4	long 2 cm wide pyrite veinlet almost parallel TCA			
								Py	2	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
71.00	73.00	ST		30	NUL	4	pyrite bearing quartz veinlets			
73.00	74.00	ST		70	NUL	11	pyrite bearing quartz veinlets			
74.00	75.00	ST		30	NUL	3	pyrite bearing quartz veinlets			
75.00	76.00	ST		30	NUL	4	pyrite bearing quartz veinlets			
76.00	79.00	ST		70	NUL	34	pyrite bearing quartz veinlets			
79.00	81.00	ST		60	NUL	13	pyrite bearing quartz veinlets			
81.00	82.60	ST		70	NUL	16	pyrite bearing quartz veinlets			
83.00	85.00	ST		60	NUL	15	pyrite bearing quartz veinlets, some trend 30 TCA			
86.50	88.35	ST		70	NUL	22	pyrite bearing quartz veinlets			
88.35	88.67	VN	37	70	NUL	1	brecciated qv with pyrite galena and sphalerite			
								Py	5	DI
								Gn	0.5	DI
								Sp	0.5	DI
88.67	89.19	DY	37	70	NUL	1	creamy grey white dyke			
91.50	94.50	ST		70	NUL	18	pyrite bearing quartz veinlets			
95.00	98.80	ST		70	NUL	25	pyrite bearing quartz veinlets, 4 are 1 cm wide and trend 30 TCA			
99.00	100.50	ST		60	NUL	10	pyrite bearing quartz veinlets, 3 tend 30 TCA			
100.50	102.00	ST		30	NUL	12	pyrite bearing quartz veinlets			
102.00	104.00	ST		30	NUL	21	pyrite bearing quartz veinlets trending 70 and 30 TCA			
106.00	107.00	ST		70	NUL	8	pyrite bearing quartz veinlets			
107.00	108.95	ST		70	NUL	15	pyrite bearing quartz veinlets			
108.95	109.33	VN	37	70	NUL	1	quartz carbonate vein with pyrite, minor galena and sphalerite			
								Py	10	PA
								Gn	1	DI
								Sp	1	DI
109.50	111.80	ST		75	NUL	10	pyrite bearing quartz veinlets			
112.75	114.00	ST		30	NUL	3	pyrite bearing quartz veinlets			
116.50	119.00	ST		30	NUL	4	pyrite bearing quartz veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
121.90	122.50	ST		70	NUL	5	pyrite bearing quartz veinlets			
124.45	124.50	VT	37	35	NUL	1	pyrite bearing quartz veinlet			
125.00	125.82	ST		40	NUL	5	pyrite bearing quartz veinlets			
125.82	126.08	VT	37	80	NUL	1	quartz carbonate vein with vuggy textres an weak pyrite, sphalerite and galena			
								Gn	0.5	DI
								Py	5	DI
								Sp	0.5	DI
126.08	126.50	ST		70	NUL	6	pyrite bearing quartz veinlets			
129.50	130.50	ST		70	NUL	4	pyrite bearing quartz veinlets			
131.00	132.00	ST		60	NUL	6	pyrite bearing quartz veinlets			
133.00	134.50	ST		40	NUL	7	pyrite bearing quartz veinlets			
135.50	137.20	ST		40	NUL	4	pyrite bearing quartz veinlets			
138.50	141.00	ST		40	NUL	6	pyrite bearing quartz veinlets			
142.60	143.60	ST		70	NUL	5	pyrite bearing quartz veinlets			
145.00	145.50	ST		70	NUL	4	pyrite bearing quartz veinlets			

Klaza - Klaza Project

Archer, Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382626	6891008	1291.704	269.75

ZONE: Exploration

SECTION:

HOLE: KL -19-459

CLAIM: YD29215

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 26 - Sep 28, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
14	231.76	-49.6	Reflex
269	39.66	-49.9	Reflex

TARGET: Western Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.2	1.2	CAS
1.2	3.4	2.2	OVB
3.4	10.44	7.04	GRD
10.44	18.55	8.11	GRD
18.55	29.96	11.41	GRD
29.96	37.2	7.24	GRD
37.2	49.39	12.19	GRD
49.39	56	6.61	GRD
56	72.5	16.5	GRD
72.5	74.68	2.18	GRD
74.68	78.78	4.1	GRD
78.78	86.65	7.87	GRD
86.65	97.23	10.58	FLT
97.23	101.26	4.03	GRD
101.26	116.7	15.44	GRD
116.7	132.11	15.41	GRD

SAMPLES	
Numbers:	W593001 to W593034, W593909 to W594000, W599233 to W599238
Total:	132
Batch:	036, 077, 080, 085, 089, 092
Certificates:	WH19249611, WH19251802, WH19251825, WH19255767, WH19255793, WH19255794

COMMENTS

132.11	135.26	3.15	GRD
135.26	138.91	3.65	GRD
138.91	164.24	25.33	GRD
164.24	164.94	0.7	VEN
164.94	180.18	15.24	GRD
180.18	182.2	2.02	GRD
182.2	189.25	7.05	GRD
189.25	204.84	15.59	GRD
204.84	210.83	5.99	GRD
210.83	246.79	35.96	GRD
246.79	251.6	4.81	GRD
251.6	257	5.4	GRD
257	259.08	2.08	VEN
259.08	269.75	10.67	GRD

Box Log

KL -19-459

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.2	4.27
2	4.27	7.32
3	7.32	10.74
4	10.74	13.72
5	13.72	16.76
6	16.76	19.55
7	19.55	22.72
8	22.72	25.91
9	25.91	28.96
10	28.96	32
11	32	36.34
12	36.34	39.96
13	39.96	43.6
14	43.6	47.7
15	47.7	52.02
16	52.02	56.05
17	56.05	60.2
18	60.2	64.01
19	64.01	68.22
20	68.22	72.4
21	72.4	76.38
22	76.38	80.26
23	80.26	84.47
24	84.47	88.34
25	88.34	91.71
26	91.71	95.6
27	95.6	98.96
28	98.96	102.7
29	102.7	106.98
30	106.98	110.72
31	110.72	114.74
32	114.74	118.41
33	118.41	122.56
34	122.56	126.51
35	126.51	130.63
36	130.63	134.76
37	134.76	138.91
38	138.91	143.18
39	143.18	147.36
40	147.36	151.16
41	151.16	155.48
42	155.48	159.7
43	159.7	163.76
44	163.76	167.81
45	167.81	172.03
46	172.03	176.28
47	176.28	180.18
48	180.18	184.33
49	184.33	188.6
50	188.6	192.85
51	192.85	197.1
52	197.1	201.5
53	201.5	205.74
54	205.74	210.04
55	210.04	214.2
56	214.2	218.49
57	218.49	222.85
58	222.85	227.2
59	227.2	231.55
60	231.55	235.82
61	235.82	239.94
62	239.94	243.83
63	243.83	248.03
64	248.03	251.6
65	251.6	255.89
66	255.89	260.23
67	260.23	264.59
68	264.59	269.02
69	269.02	269.75

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-459									
	19.55	14	HTW	GRD	1184.1	720.4	2.2	2.6	
	38.1	12	NTW	GRD	764.6	471	2.25	2.6	
	68.1	12	NTW	GRD	629.3	409.5	1.85	2.9	
	80.75	13	NTW	GRD	848.7	541.7	2.31	2.8	
	84.56	14	NTW	GRD	934.7	612.6	2.36	2.9	
	157.1	10.5	NTW	GRD	687.2	439.7	2.31	2.8	
	164.41	8	NTW	VEN	604.5	405.4	2.67	3.0	
	195.96	11	NTW	GRD	766	503.5	2.46	2.9	
	206.1	13	NTW	GRD	905.7	5495.1	2.46	-0.2	
	225.44	11.5	NTW	GRD	773.8	498.2	2.38	2.8	
	252.84	14.5	NTW	GRD	991	648.4	2.42	2.9	
	267.48	14	NTW	GRD	996.3	633.8	2.52	2.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	CAS	--	casing							
1.20	3.40	2.20	OVB	MG	ovb							
3.40	4.50	1.10	GRD	MG	pervasively oxidized, clay altered, moderate argillic, trace potassic granodiorite interval. Trace 1-2 mm, carbonate veinlets (80 degrees tca), locally crosscut by quartz infilled fractures are observed on interval. Gouge, brecciated, oxidized, clayey section is present at 3.70m.							
						MD	BN		OXI	3I		
						LT	BN		CLY	3I		
									ARG	3I		
4.50	5.28	0.78	FLR	MG	pervasively oxidized, clay altered, fractured and rubbly interval of moderately argillic granodiorite. (faulted interval(?) no shear or gouge brecciation observed)							
						MD	BN	RB	ARG	3I		
						DK	BN		CLY	3I		
									OXI	3I		
5.28	7.46	2.18	GRD	MG	clay altered, weakly to moderately oxidized, strongly argillic, trace propylitic granodiorite interval. 1-6mm, quartz-carbonate veinlets (40 degrees TCA) and 2-3mm, 80 degrees TCA, carbonate veinlets locally brecciating host grd are observed (5.79-5.90m). Thin, 1 mm, dark grey, bands within veinlets locally host trace disseminated pyrite. Carbonates in veinlets also locally brecciate quartz veinlet.							
						MD	BG		CLY	2I		
						MD	BN		OXI	3I		
						LT	GN		ARG	4I		
						LT	BN		PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
7.46	10.44	2.98	GRD	MG	locally variable,weakly oxidized, clay altered, moderately argillic, weakly potassic granodiorite interval. clay alteration and oxidiation occurs interstitially within grd host. Trace, 1-4mm, quartz-carbonate veinlets (80 degrees TCA) and trace 1-2 mm, oxidized veinlets at 40 derees TCA are locally observed throughout interval. Light brown, clay altered, fine grained clasts inclusion in granodiorite interval is observed at 7.65m and is localy crosscut by hematite-carbonate infilled fractures.							
						MD	PK		CLY	2I		
						MD	BG		ARG	3I		
						MD	BN		POT	2I		
						LT	BN		OXI	2I		
10.44	13.00	2.56	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with local zones of clay altered, oxidized, weakly argillic alteration. Quartz carbonate veinlets at 30-60 degrees are locally observed within argillic altered sections. Oxidize, calcite infilled ractures (15 degrees TCA) also occur on interval. oxidized-clay altered zones are light-dark brown.							
						MD	BN					
						LT	PK		PRO	1I		
						LT	GN		POT	1I		
						LT	BN		ARG	1I		
13.00	16.76	3.76	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval displaying less oxidation , clay alteration than previous interval. 2mm-1cm, carbonate veinlets are observed at 30 and 60 derees TCA (low angle veinlet does nothave alteration halo). Veinlets at 14.15 have a small, weakly oxidized, propylitic alteration halo where light orange oxdiation, surrounds quartz carbonate veinlets.							
						LT	PK		POT	1I		
						LT	GN		PRO	1I		
16.76	18.55	1.79	GRD	MG	Trace potassic, trace propylitic , relatively unaltered granodiorite interval with local oxidized, clay altered, weakly argillic alteration zones near quatz-carbonate veinlets (mostly as alteration halos). Veinlets are 60 degrees TCA.							
						LT	GN					
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.55	21.45	2.90	GRD	MG	weakly oxidized, clay altered, moderately argillic, trace potassic granodiorite interval containing 2mm-1 cm, locally oxidized, quartz-carbonate veinlets (veinlets range from 40-60 degrees TCA). Oxidized, carbonate inilled veinlets (30 degrees TCA) areobserved from 21-21.45m.							
21.45	22.72	1.27	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval with intermittent zones of clay altered, moderately argillic weakly potassic granodiorite 2-7mm, 60 degrees TCA, quartz-carbonate veinlets are locally observed in altered granodiorite sections. Unaltered, calcite infilled veinlets appear to locally crosscut and infill oxidized quartz-carbonate veinlets.							
						MD	BN		PRO	1I		
						MD	BG		POT	1I		
						LT	BN		ARG	3I		
22.72	28.35	5.63	GRD	MG	clay altered, weakly oxidized, moderately argillic, weakly potassic and propylitic granodiorite containing 2-8mm, 40 degrees TCA , quartz-carbonate veinlets. Trace, disseminated pyrite is locally hosted within 1mm, dark grey, fine grained bands locatedin quartz-carbonate veinlets. Clear,unaltered calcite infilled veinlet appears to locally crosscut and brecciate hostgrd and other veinlets on interval							
28.35	29.30	0.95	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval.							
29.30	29.96	0.66	GRD	MG	weakly oxidized, clay altered, moderately argillic, trace potassic tranodiorite interval containing, 2-6mm, 60-80 degrees TCA, quartz-carbonate veinlets.							
29.96	37.20	7.24	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval with local fractured and rubbly zones. Light brown-yellow clay alteration is observed on rubbly zones and along fractures/joint surfaces. Trace 1-2mm, carbonate veinlets are locally observed.							
						LT	GN		PRO	1I		
						LT	BN		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.20	37.26	0.06	GRD	MG	oxidized, clay altered , rubly interval of moderately argillic granodiorite							
						MD	BG		ARG	3I		
						LT	BN					
37.26	38.64	1.38	GRD	MG	weakly oxidized, clay altered, granodiorite interval with small rubly section. Trace 1-2mm, quartz-carbonate veinlets are locally oserved on interval							
38.64	41.15	2.51	GRD	MG	trace propylitic, trace potassic granodiorite interval with local zones of weakl potassic, hematite oxidized, granodiorite. Trace 1-2mm, carbonate veinlets (80 degrees tca) are locally observed							
41.15	42.67	1.52	GRD	MG	weakly oxidized, clay altered, moderately argillic,trace potassic granodiorite interval containing trace 1-4mm, locally oxidized, quartz caronate veinlets (80 degrees TCA).							
42.67	43.30	0.63	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval .							
						LT	PK					
						LT	GN					
43.30	43.60	0.30	GRD	MG	oxidized, clay altered, moderately argillic, rubbly granodiorite interval.							
						LT	BN					
43.60	43.90	0.30	GRD	MG	fractured, weakly oxidized, clay altered, trace potassic, propylitic granodiorite interval							
43.90	44.90	1.00	GRD	MG	clay altered, weakly oxidized, moderately argillic, trace potassic granodiorite interval. trace 2-4mm oxidized, quartz carbonate veinlets(60 degrees TCA) are locally observed.							
44.90	49.39	4.49	GRD	MG	uanltered granodiorite interval with intermittent zones of oxidized ,argillic alteration (no larger than 10 cm). Trace 2-6mm, (60-80 degrees TCA) , quartz-carbonate veinlets are locally observed throughout interval							
						LT	GN					
						LT	PK					
49.39	53.63	4.24	GRD	MG	black-white, unaltered granodiorite interval containing trace, 1-3mm, carbonate veinlets(60 degrees Tca)							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
53.63	54.48	0.85	GRD	MG	moderately argillic, trace potassic, propylitic granodiorite containing 4mm-1 cm, light pink aplite dyke intrusions (20-80 degrees TCA; steeper dyke intrusions locally crosscut through low angled ones). Trace 3mm-2 cm, quartz carbonate veinlets are observed on interval, thinner veinlets locally crosscut and offset aplite dyke intrusions. Rubbly zone is observed from 54.20m. Trace pyrite blebs, locally hosted in vein zone at 54 m. (vein is 80 degrees TCA). Trace pyrite, is also locallyhosted in 1-2mm veinlets that locally crosscut and offset aplite dyke intrusions.							
54.48	56.00	1.52	GRD	MG	black-white , unaltered granodiorite interval containting 3-4mm, 25 degrees TCA ,light pink, aplite dyke intrusions.							
						--	WH					
						--	BK					
56.00	60.15	4.15	GRD	MG	locally fractured, trace potassic, relatively unaltered granodiorite interval containing trace 1-4mm, 60 degrees TCA, quartz-carbonate veinlets.							
60.15	62.38	2.23	GRD	MG	trace potassic granodiorite with intermittent zone of weakly argillic, potassic, oxidized, clay altered granodiorite. Local rubbly, fracture zones occur throughout interval. Trace 1-4mm,quartz carbonate vienlets (60 degrees TCA) sometimes locally hosting trace pyrite are present in altered granodiorite sections.							
62.38	65.77	3.39	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval							
65.77	66.68	0.91	GRD	MG	pervasively oxidized, clay altered, moderately argillic, weakly potassic and tracepropylitic granodiorite interval. Trace 1-3 mm, quartz-carbonate veinlets occur sporadically throughout interval.							
						MD	BN		ARG	3I		
						LT	BN		PRO	1I		
									CLY	2I		
									POT	2I		
									OXI	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.68	66.85	0.17	VEN	MG	quartz-carbonate vein breccia zone in argillic, oxidized granodiorite. Carbonate infilling veinlets locally brecciate host grd and microbrecciate veins within interval. Semi chaotic,discontinous veinlets are also observed in vein interval. 1-2mm, dark red, hematite bands locally crosscut bycarbonate infill are observed as well. Trace, disseminated pyrite is locally hosted in dark bands in vein zone. Trace sub-mm, sphalerite and possibly galena occur within dark grey, (30 degrees TCA) veinlet which is not brecciated or crosscut by carbonates (later stage vein(?)).							
						LT	BN				Gn	0.5
						DK	RD	BX			Ca	2
						DK	GY				Py	1
											Sp	0.5
66.85	67.18	0.33	GRD	MG	pervasively oxidized, clay altered, argillic-weak potassic granodiorite interval. 1mm, carbonate infilled fractures parallel TCA are observed on interval							
						MD	BN		OXI	2I		
						LT	BN		ARG	3I		
									CLY	2I		
67.18	68.00	0.82	GRD	MG	strongly potassic, granodiorite interval within intermittent zones of trace argillic alteration.							
68.00	68.22	0.22	VEN	MG	semi chaotic, dark grey, smoky quartz-carbonate veining (relatively shallow 20 degrees TCA) vein within strongly potassic granodiorite interval. Specular hematite, blebby pyrite and tabular, magnetite crystals are locally observed within vein (i.e. 28.22m). Calcite inclusion within hematite-pyrite quartz vein is observed in quartz vein. (silica flooding into strongly potassic granodiorite(?). Quartz vein locally brecciates host granodiorite as well.							
68.22	69.70	1.48	GRD	MG	moderate potassic granodiorite interval with intermittent zones of weak argillic alteration.							
						MD	PK		POT	3I	He	1
											Py	1
											Ma	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
69.70	72.50	2.80	GRD	MG	black-white , medium grained, unaltered granodiorite interval with local zones of weak potassic alteration and containin trace 1-3mm, carbonate veinlets (40 degrees Tca).							
						LT	PK					
						--	BK					
						--	WH					
72.50	74.68	2.18	GRD	MG	Moderately argillic trace potasic granodiorite interval with local zones of light brown, oxidation. Dark reddish, hematite oxidation is locally observed along fractures/joint surfaces.							
						MD	BG		POT	1I		
						LT	PK		ARG	3I		
						LT	BN		OXI	1I		
									HEM	1I		
74.68	76.38	1.70	GRD	MG	fractured interval of relatively unaltered granodiorite . Light brown,yellow clay alteration if observed along fracture/join surfaces.							
						LT	PK					
76.38	78.78	2.40	GRD	MG	trace potassic, relatively unaltered granodiorite with trace 1-2 , quartz-carbonate veinlets (60 degrees TCA0.							
						LT	PK					
78.78	79.25	0.47	GRD	MG	clay altered, oxidized, moderately argilic granodiorite proximal to light pink, aplite sheeted dyke intrusion.							
						MD	BN					
						LT	BN					
79.25	80.60	1.35	APL	MG	light pink, fine grained, aplite dyke intrusion containing a succession of 30 degrees TCA, 2-3 cm, aplite dyke intrusions (sheeted dyke interval(?)). Blebby pyrite is locally hosted within dark , grey inclusions in aplite dyke section and light beige, quartz-carbonte veins (60 degrees) locally brecciate intrusion at 79.90m. Light beige veins appear to partially replace, white calcite veinlets within interval (80 degrees TCA). Light beige, vein breccia locally offsets 102mm, white calcite veinlets .							
						MD	PK				Ca	5
						MD	BG				Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.60	83.34	2.74	GRD	MG	clay altered, hematite altered, moderately argillic, weakly potassic granodiroite interval. Reddish, hematite alteration is more prominent in lower interval section at 83m.							
						MD	PK		POT	3I		
						LT	BN		ARG	3I		
						DK	PK		HEM	2I		
									CLY	3I		
83.34	84.47	1.13	GRD	MG	strongly argillic, trace potassic, propylitic granodioriote interval with trace 1-2 mm, carbonate veinlets (70 degrees TCA). Trace clay alteration is locally observed on interval							
84.47	84.83	0.36	VEN	MG	quartz-carbonate breccia vein zone within argillic altered granodiorite locally hosting blebby pyrite, trace sub-mm galena, sphalerite and possibly arsenopyrite. Breccia zone is comprised of sub-angular grd clasts with partially infilled or containing calcite veinlet fragments (reworked vein breccia(?)). Beige, ankerite appears to brecciate grd clasts, calcite , light pink rhodocrosite and quartz clasts throughout vein zone. Sub-mm galena and sphalerite is locally hosted within light pink, rhodocrosite sections. Pyrite blebs alsooccur within brecciated grd clasts. 3-5 mm, quartz veinlets (60 degrees TCA) are observed near vein breccia zone and locally host blebby pyrite within dark grey smoky quartz veinlets partially infilled by calcite and ankerite							
						MD	BG	BX				
						LT	PK					
						LT	BG					
84.83	85.65	0.82	GRD	MG	strongly argillic, trace potassic/propylitic granodiorite with trace 1mm-1 cm, quartz-carbonate veinlets (40-80 degrees TCA. Trace,pyrite islocally hosted within dark grey, fine grained bands within some quartz-carbonate veinlets.							
						MD	BG		ARG	4I		
						LT	GN		POT	1I	Py	0.5
									PRO	1I		
85.65	86.65	1.00	GRD	MG	clay altered, weakly oxidized, argilic granodiorite interval with local light brown, soft gouged seams.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
86.65	88.00	1.35	FLR	MG	light brown, clay altered, weakly oxidized, moderately argillic, fractured granodiorite interval . (start of fault hanging wall(?)							
						MD	BN		CLY	3I		
						LT	BN		ARG	3I		
88.00	91.63	3.63	FLR	MG	fractured, soft, weakly sheared , locally rubbly trace potassic, trace propylitic granodiorite interval. (shear fabric ~ 25 degrees TCA).							
91.63	91.71	0.08	GRD	MG	weakly propylitic, clay altered , locally fractured granodiorite interval containing trace 1-3mm, black tourmaline bands which are locally offset by calcite infilled fractures							
91.71	93.21	1.50	FLT	MG	faulted interval composed of reworked, reheatted (due to fault) granodiorite fragments and locally hosting disseminated,blebby pyrite within brecciated zones. Rock is soft, gouged brecciated and contains vuggy, quartz-carbonate veinlets which locally brecciate faulted interval. Fault gouge at 92 meters occurs at steep angle to core axis (80), gouge brecciated seam at the contact with fault and footwall is 25 degrees TCA. Pervasive clay alteration is locally observed throughout faulted interval Pyrite is also hosted wtihin dark grey, fine grained veinlet fragments that are locally crosscut by clay-carbonate infilled fractures. Discontinous 2-3 mm, tourmaline bands and sub-mm tourmaline crystals are observed at 93 m.							
						MD	BG				To	2
						LT	BN	BX			Py	5
						LT	GN					
93.21	94.41	1.20	GRD	MG	trace potassic,trace propylitic granodiorite with light brown/yellow oxidation-clay alteration along fractures/joints							
94.41	96.50	2.09	FLR	MG	clay altered,limonite bearing, fractured, rubbly granodiorite interval exhibiting weakly sheared fabric in competent granodiorite zones. (fault footwall(?)							
						LT	BN		PRO	1I		
						DK	YW	RB	POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.50	97.23	0.73	FLR	MG	sheared and rubbly, unoxidized , weakly argillic trace potassic granodiorite interval. (shear fabric ~ 20 degrees).							
						LT	PK	SH	POT	1I		
						LT	GN	RB	PRO	1I		
97.23	101.26	4.03	GRD	MG	trace potassic, propylitic granodiorite interval with local zones of inreased propylitic alteration. Trae 1-3mm, quartz-carbonate veinlets (35 degrees TCA) are observed from 99-99.40m. Locally fracture zones are also observed throughout interval.							
						LT	GN		POT	2I		
						LT	PK		PRO	2I		
101.26	103.16	1.90	GRD	MG	Moderately argillic, weakly potassic, trace propylitic, hematite altered granodiorite interval with locally fractured, argillic, propylitic zones. hematite oxidation on surfaces giving granodiorite a darker red tone. Trace 1-2 m, carbonate veinlets (40 degrees TCA) occur locally on interval.							
						MD	PK		ARG	3I		
						DK	PK		PRO	1I		
									POT	1I		
									HEM	3I		
103.16	105.00	1.84	GRD	MG	strongly propylitic granodiorite interval locally silica flooded, expressed as mm-cm, increased quartz inclusions and 1-3 cm, 40 degrees TCA, quartz veinlets. Darker grey, carbonitic veinlets locally brecciate host grd and quartz flooded areas.							
105.00	106.20	1.20	GRD	MG	fractured, rubbly, gouged brecciated , silica flooded , strongly propylitic granodiorite. (Faulted interval(?)).							
						MD	GN	RB	PRO	4I		
						LT	GN					
106.20	108.26	2.06	GRD	MG	silica flooded, strongly propylitic granodiorite with local 1-3 mm , gouged brecciated seams (40 degrees TCA)							
						MD	GN		PRO	4I		
						DK	GN					
108.26	108.81	0.55	GRD	MG	Rubbly, gouge, strongly propylitic granodiorite interval.							
						MD	GN	RB	PRO	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
108.81	109.27	0.46	GRD	MG	strongllly propylitic, silica flooded, granodiorite with trace 1-2 mm, carboante veinlets and carbonate fracture infill.							
						MD	GN		PRO	4I		
109.27	109.72	0.45	GRD	MG	moderate argillic, weakly propylitic granodiorite interval containing 1-3 mm, black, fine grained magnetite inclusions and trace 1-4 mm, quartz-carbonate vein at 20 degrees to core axis and locally host trace disseminated pyrite. Veinlets ppear to locally microbrecciate host grd and magnetite appears to interstitially infill and surround feldspathic clasts in grd.							
						MD	BG		PRO	1I	Py	0.5
						LT	GN		ARG	3I		
109.72	110.72	1.00	GRD	MG	moderate argillic, weakly potassic-propylitic granodiorite interval containing 1-2 mm, light grey, gouged seams (40 degrees TCA at 110.05m. Trace 1-2 mm, carbonate veinlets @ 35 degrees are also observed.							
110.72	111.47	0.75	GRD	MG	Gouged, brecciated interval of moderate argillic, trace potassic-propylitic granodiorite. Trace, disseminated pyrite is locally hosted within grey, fine grained, gouged bands on interval. competent sections of rock exhibit sheared fabric (20 degrees TCA).							
						MD	BG		PRO	1I		
						LT	GN	RB	POT	1I	Py	1
						LT	PK		ARG	3I		
111.47	112.78	1.31	GRD	MG	fractured, rubbly interval of moderately argillic, trace potassic, propylitic granodiorite. Light brown-yellowsih clay alteration is observed along fracture surfaces.							
						MD	BG	RB	POT	1I		
						LT	PK		PRO	1I		
						LT	GN		ARG	3I		
112.78	114.74	1.96	GRD	MG	moderately argillic with moderate propylitic overprint. Light green, brownish, fine grained, intrusion if observed @ 114.60m.							
						MD	BG		ARG	3I		
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.74	115.72	0.98	FLR	MG	gouged brecciated , rubbly and locally fractured, moderately argillic, trace propylitic granodiorite interval. Light-meidum brown, clay alteration and oxidation is observed along fractures/joint surfaces.							
						MD	BN					
						LT	BN	RB	ARG	2I		
						LT	BG		CLY	3I		
115.72	116.00	0.28	VEN	MG	light brown-grey, clay altered, oxidized, rubbly , vein zone in moderately argillic granodiorite . Trace , disseminated pyrite is locally hosted in grey , fine grained material within gouged seams.							
						LT	GY	RB	CLY	3I		
						LT	BN		OXI	2I		
116.00	116.70	0.70	GRD	MG	Moderately argillic, trace potassic-propylitic granodiorite interval. Trace, pyrite is locally hosted in 40 degrees TCA , 1-2 mm, quartz-carbonate veinlets. Slickenlines are locally observed along join surfaces .							
						MD	BG		ARG	3I		
						LT	GN		POT	1I		
									PRO	1I		
116.70	118.41	1.71	GRD	MG	trace potassic granodiorite interval exhibiting weak , hematite oxidation in grd. Sub-mm, 60 degrees TCA, quartz-carbonate veinlets occur sporadically throughout interval. 2-3 mm, hematite infilled carbonate veinlet (80 degrees TCA) locally crosscut low angle (60o) quartz-carbonate veinlets on interval.							
						MD	RD		POT	1I		
						LT	PK		HEM	2I		
118.41	122.83	4.42	GRD	MG	relatively unaltered granodiorite interval displaying moderate , pervasive hematite oxidation. Trace, 1-4 mm, quartz-carbonate veinlets (60 degrees TCA) locally hosting minor pyrite blebs are observed throughout interval. 1-3 mm, hematite infilled, low angle (40 degrees TCA) quartz carbonate veinlets are also observed on interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.83	124.00	1.17	GRD	MG	relatively unaltered granodiorite interval exhibiting pervasive hematite oxidation. Interval is more fractured and contains increased, black, fine grained, magnetite inclusions than previous interval.							
124.00	125.10	1.10	GRD	MG	relatively unaltered granodiorite with moderate , pervasive hematite oxidation containing trace 4-6 mm, dark grey, 20 degrees TCA, quartz-carbonate veinlets. Dark veinlets, locally host fine grained, magnetite , trace pyrite and are locally offset by 3-5 mm, 60 degrees TCA quartz-carbonate veinlets.							
125.10	127.92	2.82	GRD	MG	trace potassic, trace propylitic granodiorite exhibiting weak hematite oxidation and containing 1-5 mmm, semi chaotic, quartz-carbonate veinlets (30-60 degrees TCA) which locally brecciate host grd. Trace disseminated pyrite locally hosted in some veinlets is observed.							
						MD	RD		POT	1I	Py	1
						LT	PK		HEM	2I		
127.92	132.11	4.19	GRD	MG	trace potassic, trace propylitic granoiorite interval with weak to moderate hematite oxidation and locally increased, dark grey, fine grained magnetite inclusions . Tabular, euhedral , magnetite crystals and blebby pyrite are locally observed on interval. (i.e. 129-130m). Trace 1-3 mm, 60 degrees TCA, quartz-carbonate veinlets and discontinous 1-2 m carbonate infilled vienlets are locally observed throughout interval.							
132.11	133.00	0.89	GRD	MG	weakly potassic, trace proplylitc granodiorite with weak hematite oxidation.2-8mm, quartz-carbonate veinlets (60-80 degrees TCA) sometimes locally hosting trace pyrite occur throughout interval. 4-7 mm, light pink aplite dyke intrusions(20 degrees tca) are loally crosscut and offset by fractures and quartz-carbonate veinlets (i.e. 132.40m).							
						MD	PK					
						LT	GN					
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
133.00	135.26	2.26	GRD	MG	weakly potassic granodiorite interval with intermittent zones of moderate propylitic alteration. 2-8 mm, slightly deformed (weakly sheared), quartz-carbonate veinlets (30 degrees TCA) are locally observed throughout interval. Light grey, gouged seam (60 degrees TCA) is observed at 134.45m. Trace pyrite, is locally hosted in dark grey bands within quartz-carbonate zones. Darker quartz-carbonate veinlets are locally offset by 2-3 mm, carbonate veinlets. Hematite oxidation is locally observed throughout unit as well							
						MD	GN					
						LT	PK					
135.26	138.91	3.65	GRD	MG	trace potassic, trace propylitic granodiorite interval with weak hematite oxidation and containting trace 2-8 mm, quartz-carbonate veinlets (60 degrees TCA).							
138.91	140.40	1.49	GRD	MG	trace potassic, propylitic granodiorite interval containing 5mm-12 cm, light pink,fine grained aplite dyke intrusions (60 degrees TCA). Weak, hematite staining is locally observed throughout interval. 8mm, quartz-carbonate vein (45 degrees TCA), containting red hamatite infill and specular hematite is locally observed at 139.50m.							
						MD	PK		POT	1I	He	1
						LT	PK		HEM	1I	He	1
						LT	GN		PRO	1I		
140.40	141.72	1.32	GRD	MG	white-black, unaltered granodiorite with local zones of trace potassic, propylitic alteration (very minor). Trace, red, hematite staining is observed along fractures/joint surfaces.							
141.72	143.75	2.03	GRD	MG	weakly potassic,trace propylitic granodiorite with weak to moderate hematite alteration. 1-2mm, hematite infilled veinlets (80 degrees TCA) occur sporadically on interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
143.75	148.61	4.86	GRD	MG	interval comprised of unaltered granodiorite with local zones of weakly potassic /propylitic alteration and locally variable pervasive hematite alteration. Trace, sub-mm,hematite-magnetite veinlets perpendicular to core axis are observed in pervasively hematite granodiorite setions. Sub-mm, calcite infilled fractures are also present on interval							
						MD	PK					
						DK	RD					
						--	WH					
						--	BK					
148.61	149.66	1.05	GRD	MG	weakly potassic, propylitic, pervasively hematite altered, granodiorite interval with local fracture zones (i.e. 148.70m). \							
						MD	PK		PRO	1I		
						MD	GN		POT	2I		
						DK	RD		HEM	2I		
149.66	153.18	3.52	GRD	MG	black-white, unaltered granodiorite with intermittent zones of trace, potassic, propylitic alteration and local hematite stained sections. (altered zones observed mostly as alteration halos for quartz-carbonate and hematite veinlets). Quartz-carbonate vein fragment at 150.87mm contains bladed magnetite, specular hematite and pyrite blebs within a propylitic altered halo.							
						MD	PK		HEM	1I	Mg	2
						MD	GN		PRO	1I	He	2
						--	BK		POT	2I	Py	2
						--	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
153.18	154.44	1.26	GRD	MG	moderately argillic, weakly potassic-propylitic granodiorite interval containint 3mm-1 cm, quartz-carbonate veinlets (60 degrees TCA). Light pink, rhodocrosite infilling veinlets and loally hosting trae sub-mm,galena and sphalerite are observed in vein section. Coloform bands are locally observed in quartz-carbonate veinlets as well. Calcite infilled veinlets also host trae-sub mm galena. Disseminated pyrite is locally hosted within dark grey, fine grained bands. A 2 cm clear quartz vein parallel to polymetallic , carbonate infilled veins appears to locally brecciate host granodiorite							
						MD	BG		POT	2I	Gn	1
						MD	PK		PRO	1I	Ca	3
						LT	GN		ARG	3I	Rh	2
											Py	2
											Sp	1
154.44	162.35	7.91	GRD	MG	trace potassic, trace propylitic granodiorite with locally variable zones of weak to moderate hematite alteration . 1-5mm, carbonate veinlets are locally observed throughout interval (60 - 80 degrees TCA). 1-2 mm, dark, veinlets (80 degrees TCA) locally hosting blebby pyrite occur on hematite altered granodiorite zones and are locally crosscut by carbonate infilled fractures.							
						MD	PK		HEM	2I	Py	2
						LT	GN		PRO	1I		
									POT	1I		
162.35	162.93	0.58	GRD	MG	moderatelly argillic moderate propylitic, weakly potassic granodiorite interval containing 2-4 mm, quartz-carbonate veinlets (60 degrees TCA). Blebby pyrite is locally hosted in quartz around carbonate infilled veinlet. Trace specular hematite is present in a carbonate infilled fracture that is locally crosscut by quartz-carbonate veinlets.							
						MD	GN		PRO	2I	He	1
						MD	BG		POT	2I	Py	1
									ARG	3I		
162.93	163.53	0.60	GRD	MG	trace potassic, relatively unaltered granodiorite interval							
						LT	PK		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
163.53	164.24	0.71	GRD	MG	Moderately argillic, propylitic, weakly potassic granodiorite interval. Trace 1-4 mm (40 degrees TCA) veinlets are observed on interval.							
						MD	PK		POT	1I		
						MD	BG		ARG	3I		
						DK	GN		PRO	3I		
164.24	164.94	0.70	VEN	MG	polymetallic quartz-carbonate vein zone intruded into moderately argillic granodiorite overprinted by weak to moderate propylitic alteration. Vein zone is comprised multiple veinlets ranging from 40-60 degrees TCA. Veins are composed of: 2-3 mm, dark grey, slightly deformed veinlets locally hosting disseminated pyrite, 1cm ,Rhodocrosite-ankerite infilled veinlets, light grey, 1-2cm, carbonate veinlets brecciating grd clasts and smoky quartz veinlets (1-2cm). Rhodocrosite infilled veins (40 degrees TCA) locally brecciate clear quartz vein and locally host sub-mm galena and sphalerite. Vuggy texture is observed in vein section from 164.24-164.59m. Blebby pyrite is locally hosted in clear quartz veinlets. Calcite infilled, fractures locally crosscut perpendiculary through smoky quartz veinlets. Smoky quartz vein locally brecciate host granodiorite and cleartz vein fragments. Trace disseminated pyrite is also present within granodiorite interval.							
						MD	GY		ARG	3I	Gn	1
						MD	GN				Py	4
						MD	BG				Py	3
						LT	GY		PRO	2I	Ak	3
											Sp	1
											Rh	3
164.94	171.00	6.06	GRD	MG	interval comprised of trace potassic granodiorite with intermittent zones of moderate argillic, weakly potassic, propylitic alteration and locally variable hematite alteration. 2-6mm, quartz-carbonate veinlets (60 degrees TCA) are observed within altered granodiorite at 168.25-168.40m. Rhodocrosite-ankerite partially infill existing quartz vein which locally host blebby pyrite. Carbonates-quartz veinlets form coloform texture. Pyrite blebs are locally hosted near granodiorite alteration halo in veinlet zone (propylitic alteration halo).							
						MD	PK		ARG	3I	Rh	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		POT	2I	Ak	1
									HEM	2I	Py	2
											Py	2
171.00	172.76	1.76	GRD	MG	moderately argillic, trace potassic-propylitic granodiorite interval with locally variable hematite oxidation (most prominent from 171.20-173m). Trace 3-6mm, quartz-carboante veinlets (30 degrees TCA) are locally observed . Trace, pyrite is locally hosted within dark grey bands in quartz-carbonate veinlets. Minor, rhodocrosite partially infilling quartz veinlets occurs at 173.04m.							
						MD	BG		POT	1I		
						LT	PK		PRO	1I		
						LT	GN		ARG	3I		
172.76	173.70	0.94	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval with small, weakly argillic alteration halos near 1-4 mm,m quartz-carbonate veinlets (55 degrees TCA)							
						MD	BG		ARG	1I		
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
173.70	174.52	0.82	GRD	MG	moderately argillic, trace potassic-propylitic granodiorite interval containing trace 2-4mm, (60 degrees TCA) , quartz-carbonate veinlet.							
						MD	BG		ARG	3I		
						LT	GN		POT	1I		
						LT	PK		PRO	1I		
174.52	176.55	2.03	GRD	MG	moderately argillic, trace potassic granodiorite with interittent zones of relatively unaltered granodiorite. Trace 2-8mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed. Weak hematite oxidation is observed at 175.60m and contain 1mm, hematite bands (80 degrees TCA) on hematite altered section							
						MD	BG		POT	1I		
						LT	PK		ARG	3I		
						DK	RD		HEM	1I		
176.55	177.33	0.78	GRD	MG	trace potassic, relatively unaltered granodiorite interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
177.33	178.33	1.00	VEN	MG	moderately argillic, weakly propylitic granodiorite with local zones of weak potassic alteration. Interval contains 2mm-2cm, stringer quartz-carbonate veinlets (50-60 degrees . Trace, disseminated pyrite is locally hosted within dark grey, veinlets in vein zone and trace, sub-mm, sphalerite (?)) is locally hosted within carbonate infilled veinlets. A 2mm, gouged brecciated seam if obseeved in vein section @ 178m. Dark grey vein material appears to locally brecciate host granodiorite as well.							
						MD	BG		ARG	3I		
						LT	GN		POT	1I	Py	3
						LT	PK		PRO	1I		
178.33	179.14	0.81	GRD	MG	strongly argillic, weakly propylitic granodiorite with local zones of weak propylitic alteration. Calcite infilled fractures are locally observed throughout interval.							
						MD	GN		ARG	4I		
						MD	BG		PRO	2I		
						MD	PK		POT	2I		
179.14	180.18	1.04	GRD	MG	fractured, rubbly , strongly argillic, weakly potassic granodiorite interval. Hematite oxidation is locally observed on surface and along fracture and joints surfaces.							
						MD	BG		PRO	1I		
						MD	PK		POT	2I		
						LT	GN		ARG	4I		
180.18	181.20	1.02	GRD	MG	strongly argillic, trace potassic-propylitic granodiorite interval containting 2mm-1cm, dark grey veinlets (80 degrees TCA) that locally host pyrite and brecciate host granodiorite locally. Lower angle, (50 degrees TCA), quartz-carbonate veinlets locally hosting blebby pyrite are observed from 180.30-180.60m. A 5 mm, grey, gouged brecciated seam is locally observed @ 180.70m.							
						MD	BG		PRO	1I		
						LT	PK		ARG	3I		
						LT	GN		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
181.20	181.47	0.27	VEN	MG	polymetallic breccia vein zone intruding into moderately argillic, weakly propylitic granodiorite. Breccia zone is comprised of dark grey, silicified clasts, black fine grained clasts that locally host pyrite, arseno pyrite and galena, pyrite bearing granodiorite brecciated clasts, and dark grey, veinlets that locally host honey brown sphalerite. Ankerite appears to interstitially infill brecciated zone. Vugs containing euhedral calcite and quartz are also observed in breccia vein zone. Clasts in breccia are angular-sub-angular and contain small fragment of host granodiorite (small chlorite, feldspathic, quartz clasts). 1-2 mm, ankerite infilled fractures locally crosscut through brecciate clasts. Light grey, infilled carbonate fractures locally crosscut through calcite-ankerite infilled veinlets.							
						MD	GY	BX	PRO	2I	Ak	4
						MD	GN				Gn	2
						MD	TN				Py	4
						DK	GY		ARG	3I	Sp	3
											As	3
181.47	181.63	0.16	VEN	MG	convoluted, polymetallic vein zone containing blebby pyrite, blebby, acicular-bladed arsenopyrite (texture due to spatial association with sphalerite and pyrite(?); sphalerite deposited first then shortly after acicular , dendritic arsenoand pyrite are deposited(?)), blebby and banded honey brown sphalerite and blebby galena. Vein zone is (55 degrees TCA), and is partially infilled and locally brecciated by ankerite and calcite (possibly rhodocrosite as well). Dendritic pyrite, arsenopyrite and sphalerite are locally hosted in dark grey, moderately hard, veinlets and in dark grey, inclusions within interstitial ankerite and surrounded by milky quartz (milky quartz coming in after polymetallic veins and is replaced by late stage carbonitic fluids that intrude pervasively into quartz veins. Coloform bands surrounding mineralized clasts are locally observed in vein zone. Some light grey, carbonate veinlets appear to micro brecciate host grd.							
						MD	BG	BX	PRO	2I	As	5
						MD	GY		ARG	3I	Gn	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN				Sp	4
						DK	GY				Py	5
											Ak	6
181.63	182.20	0.57	GRD	MG	moderately argillic, weakly propylitic granodiorite interval containing a 3 cm, light grey, gouged brecciate seam (30 degrees TCA) at 181.78m and 2-4mm, polymetallic quartz-carbonate veinlets (40 degrees TCA). Veinlets are partially infilled by light pink rhodocrosite and calcite and locally host trace pyrite, galena and sub-mm sphalerite.							
						MD	GN				Py	2
						MD	BG				Gn	1
											Sp	1
182.20	189.25	7.05	GRD	MG	trace potassic,trace propylitic granodiorite with intermittent ones of white-black, unaltered granodiorite. 1-3 mm, carbonate veinlets (40 degrees TCA) are observed at 184.20m.							
						MD	GN					
						LT	PK		PRO	1I		
						--	BK		POT	1I		
						--	WH					
189.25	189.70	0.45	GRD	MG	moderately argillic-potassic, trace potassic granodiorite interval containing 3-6mm, quartz-carbonate veinlets (60 degrees which locally host blebby pyrite).							
						MD	BG		POT	3I		
						MD	PK		PRO	1I		
						LT	GN		ARG	3I	Py	2
189.70	191.94	2.24	GRD	MG	Trace potassic, relatively unaltered granodiorite interval containing trace 2-6 mm, carbonate veinlets (60 degrees TCA)							
191.94	192.53	0.59	GRD	MG	moderately argillic-potassic granodiorite interval containing a 13 cm, (60 degrees TCA) , light pink, fine grained aplite dyke intrusion that is locally crosscut by a quartz-carbonate veinlet (80 degrees TCA).							
						MD	BG		POT	2I		
						MD	PK		ARG	3I		
192.53	193.30	0.77	GRD	MG	trace potassic, relatively unaltered granodiorite interval containing a 4 mm, light pink, fine grained ,aplite dyke intrusion (60 degrees TCA).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
193.30	194.52	1.22	GRD	MG	strongly argillic, weakly potassic-propylitic granodiorite interval containing trace 1-2 mm, quartz-carbonate veinlets (80 degrees TCA).							
194.52	195.22	0.70	VEN	MG	strongly argillic, trace propylitic granodiorite interval containing 3-7mm, quartz carbonate veinlets (60 degrees TCA) and vein breccia zone at 195.07-195.20 that locallt hosts trace pyrite. Irregular, quartz-carbonate veinlet at 195 locally host blebby pyrite and sub-mm black sphalerite (?)). Brecciated zone is weakly silicified, vuggy , locally host pyrite and trace sphalerite, and locally brecciates host grd. Vuggs in breccia zone contain euhedral , calcite-quartz crystals.							
195.22	197.10	1.88	GRD	MG	trace potassic, relatively unaltered granodiorite with intermittent zones of moderately argillic, weakly potassic and propylitic granodiorite (argillic-potassic mostly as alteration halos near quartz-carbonate veinlets). A fractured, gouged seam is observed at 195.70m (20 degrees TCA). Trace 3-6 mm, quartz carbonate veinlets (60 degrees TCA) are locally observed throughout interval.							
						MD	BG		POT	1I		
						MD	GN		ARG	3I		
						LT	PK		PRO	2I		
197.10	198.80	1.70	GRD	MG	moderately argillic, weakly propylitic-potassic granodiorite interval displaying locally variable hematite alteration and containing 1-4mm, red, hematite veinlets (40 degrees TCA) which are locally crosscut by calcite infilled fractures. A gouged brecciated seam is observed at 198.35m (20 degrees shear fabric(?)). 8mm, black, magnetite rich veinlet (20 degrees TCA) is crosscut by a 2mm, hematite veinlet at 198.67m.							
						MD	PK		POT	1I		
						MD	BG		PRO	1I		
						LT	GN		ARG	3I		
198.80	201.17	2.37	GRD	MG	relatively unaltered granodiorite with intermittent zone of weakly potassic,argillic alteration. Trace 3-6 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed throughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
201.17	204.84	3.67	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones (no larger than 4 cm) of potassic/propylitic alteration (as alteration halos within veinlet zones). 2-8 mm,quartz-carbonate veinlets are locally observed throughout interval (80 degrees TAC)							
						LT	PK		PRO	1I		
						--	BK		POT	1I		
						--	WH					
204.84	205.55	0.71	GRD	MG	moderately argillic, weakly potassic granodiorite interval							
						MD	PK		PRO	3I		
						MD	BG		POT	2I		
						MD	GN		ARG	3I		
205.55	206.88	1.33	GRD	MG	moderately propylitic granodiorite interval containting trace 2-8mm, quartz-carbonate veinlets (20 degrees TCA) containing red hematite and trace blebby pyrite.							
						MD	GN					
						LT	GN		PRO	3I	Py	1
206.88	209.70	2.82	GRD	MG	moderately argillic, weakly potassic granodiorite interval with locally variable hematite alteration on surface and along fractures/joint surfaces. A 8mm, quartz-carbonate veinlet (20 degrees TCA) containing trace hematite and trace fine grained pyrite is oserved at 207.66m. 1-2mm, black, hematite infiled veinlets (40-60 degrees TCA) are locally observed throughout interval.							
						MD	PK		HEM	2I		
						LT	BG		POT	2I		
						DK	RD		ARG	3I		
209.70	210.04	0.34	GRD	MG	gouged, brecciated,fractured, argillic, weakly potassic granodiorite intervalcontainting dark red, and black fine grained, hematite and magnetite inclusions. Gouged plane appears to be 20 degrees tca.							
						MD	PK		ARG	3I		
						DK	RD		POT	2I		
						--	BK		HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
210.04	210.50	0.46	GRD	MG	moderately argillic granodioriteexhibiting pervasive dark red, hematite alteration and containting dark purple/black, hematite-magnetite inclusions and veinlets (30 degrees TCA).							
						DK	RD		HEM	3I		
									ARG	3I		
210.50	210.83	0.33	GRD	MG	weakly potassic, propylitic granodiorite interval.							
210.83	211.80	0.97	GRD	MG	moderately argillic ,weakly potassic, granodiorite interval with local zones of weak to moderate hematite alteration. A 2 cm, quartz-carbonate vein (30 degrees TCA) containing red hematite infill and trace disseminated pyrite is locally observed at 211.70m within hematite altered section. Trace light pink rhodocrosite infill is observed within quartz vein. 1-4 mm, carbonate veinlets (40 degrees TCA) are also present on interval.							
211.80	212.58	0.78	GRD	MG	trace potassic, propylitic , relatively unaltered granodiorite interval containing 1-3 mm, 30 degrees TCA, carbonate veinlets.							
212.58	213.16	0.58	GRD	MG	moderately argillic-potassic grnaodiorite interval containing 3-7mm, quartz-carbonate veinlets (50 degrees TCA) and 1-3 mm, 40 degrees TCA, hematite infilled veinlets							
						MD	PK		POT	3I		
						MD	BG		ARG	3I		
213.16	215.96	2.80	GRD	MG	trace potassic-propylitic, relatively unaltere granodiorite interval with locally fractured zones and trace 1-2 mm, carbonate veinlets (40 degrees TCA)							
215.96	216.83	0.87	GRD	MG	moderately propylitic, trace potassic granodiorite interval containing an 8mm, light brown, fine grained aplite dyke intrusion (60 degrees; and its brown due to granodiorite alteration). 3-7 mm, quartz carbonate veinlets (45 degrees TCA) are locally observed within propylitic altered granodiorite interval. Ankerite and rhodocrosite appear to infill and locally brecciate granodiorite vein section at 216.35m. Trace, pyrite is locally hosted in ankerite-rhodocrosite infilled veinlets							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						DK	GN		PRO	3I	Py	1
216.83	217.84	1.01	GRD	MG	trace potassic-propylitic, relatively unaltered granodiorite interval							
217.84	218.75	0.91	GRD	MG	black-white, unaltered granodiorite interval							
						--	BK					
						--	WH					
218.75	221.35	2.60	GRD	MG	Trace potassic, trace propylitic granodiorite interval containing 2-3 cm, strongly propylitic alteration halos near 1-4 mm, quartz-carbonate veinlets (40-80 degrees). Trace pyrite is locally hosted araound 1-4mm, veinlets.							
						LT	GN					
						LT	PK		POT	1I	Py	1
						DK	GN		PRO	1I		
221.35	223.83	2.48	GRD	MG	strongly argillic, weakly potassic-propylitic granodiorite interval within intermittent zones of trace potassic-propylitic, relatively unaltered granodiorite. Trace 1 -3 mm, hematite-bearing veinlets (55 degrees TCA) are locally observed on interval. Black, fine grained magnetite inclusions are prominent in altered granodiorite sections							
						MD	GN		POT	1I		
						MD	BG					
						LT	PK		ARG	3I		
223.83	225.73	1.90	GRD	MG	moderately propylitic, weakly argillic granodiorite with local zone of moderate potassic alteration (at 225.55m) containing 1-3 mm , carbonate veinlets (80 degrees TCA) and 7 mm, magnetite bearing, quartz-carbonate veinlets (50 degrees TCA).							
						MD	PK					
						MD	GN					
						DK	GN		PRO	3I		
225.73	227.43	1.70	GRD	MG	Black-white,unaltered granodiorite with local zones of trace potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
227.43	228.00	0.57	GRD	MG	moderately potassic, weakly argillic-propylitic granodiorite interval 3mm-1 cm, quartz-carbonate veinlets (80 degrees TCA) are locally observed within propylitic altered halo. Trace, sub-mm magnetite and pyrite are locally observed near quartz-carbonate veinlets							
228.00	229.08	1.08	GRD	MG	weakly propylitic, trace potassic granodiorite with intermittent zones of moderately argillic, trace potassic alteration. Argillic altered section at 228.50 contains 1mm-5mm ,quartz-carbonate veinlets (50 degrees TCA).							
						MD	BG		PRO	2I		
						MD	PK		POT	1I		
						MD	GN		ARG	3I		
229.08	230.40	1.32	GRD	MG	Moderately propylitic , weakly potassic , trace argillic granodiorite interval containing 3-7 mm, quartz-carbonate veinlets (30 degrees TCA) which locally host trace hematite and trace pyrite. Blebby pyrite is also hosted within propylitic granodiorite.							
						MD	PK		POT	2I	Py	2
						DK	GN		PRO	3I	He	1
230.40	231.00	0.60	GRD	MG	moderately argillic, weakly potassic granodiorite interval containing trace 1-3 mm, carboante veinlets (40 degrees TCA).							
231.00	237.93	6.93	GRD	MG	black/white unaltered granodiorite with intermittent zones of weakly potassic/propylitic alteration (mostlyas alteration halo near veinlets). 3-7 mm, quartz-carbonate stringer veinlets (50 degrees TCA) are locally observed throughout interval.							
237.93	241.80	3.87	GRD	MG	locally fractured, trace potassic-propylitic granodiorite interval containting trace 1-3 mm, dark grey veinlets (60-80 degrees TCA) that locally host trace disseminated pyrite. Moderately propylitic alteration halos near veinlets are commonly observed throughout interval. Dark green chlorite and red hematite commonly occurs along fracture/joint surfaces.							
						MD	GN		PRO	1I		
						LT	PK		POT	1I		
						--	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						--	BK					
241.80	243.14	1.34	GRD	MG	weakly propylitic, trace potassic granodiorite interval with local zones of moderate propylitic alteration. Trace 2-5 mm, quartz-carbonate veinlets (80 degrees TAC) locally hosting magnetite and trace quartz are observed on interval. Local,fracture zones arepresent throughout interval (i.e. 240.50m).							
						MD	GN		PRO	2I		
						LT	PK		POT	1I		
243.14	244.38	1.24	GRD	MG	moderately argillic , trace potassic granodiorite interval with weak surface hematite oxidation and local zones of weak to moderate propylitic alteration. 2-7 mm, quartz carbonate veinletss occur from 243.14-293.83m (60 degrees TCA). Lower angle (20 degrees TCA),quartz carbonate veinlets containing hematite and black, sub-mm magnetite (from 244-244.38m).							
						MD	BG		ARG	3I		
						LT	PK		POT	1I		
									PRO	2I		
244.38	246.79	2.41	GRD	MG	trace propylitic-potassic granodiorite interval containting trace 1-3 mm, dark grey, veinlets (40-60 degrees TCA) which are locally crosscut by 80 degrees TCA, 1-2mm, carbonate veinlets.							
246.79	248.03	1.24	GRD	MG	moderately argillic-propylitic granodiorite interval containing trace 3-6 mm, magnetite bearing veinlet (45 degrees TCA). Dark red hematite alteration is locally observed along joint surfaces .							
						MD	BG		ARG	3I	Mg	2
						MD	BG		PRO	3I		
248.03	249.00	0.97	GRD	MG	trace propylitic-potassic granodiorite interval with locally fractured zone observed from 248.70m.							
						MD	GN		PRO	1I		
						LT	PK		POT	1I		
249.00	249.33	0.33	GRD	MG	moderately argillic, trace propylitic, locally fractured granodiorite interval. Trace 1-2 mm, black magnetite veinlets (50 degrees TAC) are locally observed on interval							
						MD	BG		ARG	3I		
						LT	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
249.33	250.26	0.93	GRD	MG	weakly propylitic, trace argillic granodiorite interval containing a soft, clayey , gouged brecciate section from 249.90-250.30 (30 degrees TCA gouged brecciated plane). Trace 1-3 mm, 20 degrees TAC, quartz-carbonate veinlets locally hosting pyrite are observed in proptliric altered granodiorite.							
						MD	GN		ARG	1I		
						LT	GN		PRO	2I		
250.26	251.60	1.34	GRD	MG	weakly argillic-potassic, trace propylitic granodiorite interval displaying weak hematite staining and containing 1-2 mm, black, hematite infilled veinlets (30 degrees TCA). Trace disseminated pyrite is locally observed within granodiorite interval. Interval is fracture from 251.46-251.60. Trace 1-3 mm, carbonate veinlets are also observed throughout interval.							
251.60	252.75	1.15	GRD	MG	weakly argillic-propylitic, fractured and rubbly granodiorite interval							
						MD	GN	RB	ARG	2I		
						LT	BG	FR	PRO	2I		
252.75	254.75	2.00	GRD	MG	moderately propylitic, weakly argillic granodiorite interval containing 1-3 mm, carbonate veinlets (45 degrees TCA) that locally brecciate host grd. 1-4 mm, quartz veinlets(30 degrees) are locally observed as well throughout interval. Interval is weakly silicified (contains increased quartz clasts). A gouged, brecciated, carbonate infilled vein observed @ 525.55 locally hosts pyrite and sub-mm , black sphalerite (brecciated vein @ 30 degrees TCA).							
254.75	257.00	2.25	GRD	MG	silica flooded, strongly propylitic granodiorite interval containing 1-2 cm, quartz-carbonate veinlets (20 degrees TCA) locally hosting trace pyrite and hematite. 1-3mm, quartz veinlets (60 degrees TCA) locally hosting brassy yellow, soft, slightly magnetic chalcopyrite blebs (or tarnished pyrite (?)) are observed from 255-255.89							
						MD	GN		PRO	4I	Py	1
						DK	GN				Ch	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
257.00	257.97	0.97	GRD	MG	moderately propylitic-argillic granodiorite interval containing 1-6mm, quartz-carbonate veinlets (30 degrees TCA), which locally host pyrite, hematite and trace magnetite. 1 cm, quartz veinlet (80 degrees TCA) locally brecciating host granodiorite is observed @ 257.85m.							
						MD	GN		PRO	3I	Mg	1
						MD	BG				He	1
						LT	GN		ARG	2I	Py	2
257.97	259.08	1.11	VEN	MG	polymetallic brecciated vein zone in moderately propylitic-argillic granodiorite locally hosting disseminated, blebby pyrite, sub-mm, sphalerite, arsenopyrite and sphalerite. Vein breccia zones are partially infilled and brecciated by ankerite and rhodocrosite (rhodocrosite hosts sub-mm sphalerite and galena as well). Polymetallic veins are (80 degrees TCA). Pyrite is locally hosted in dark grey veinlets (smoky quartz(?) and dark grey, silicified, brecciated clasts. Rhodocrosite and ankerite locally brecciate quartz veinlets and host granodiorite. Quartz veinlets (60-80 degrees) hosting blebby pyrite and magnetite are locally crosscut by polymetallic veins. Polymetallic veins appear slightly deformed and convoluted. A 1 mm, gouged seam is observed @ 259m at 25 degrees TCA. NOTE: rhodocrosite in interval is bright pink, first time observed as bright since hole 455.							
						MD	GN	BX	PRO	3I	Py	5
						DK	GN				Gn	2
											Rh	4
											Sp	2
											Py	4
											As	2
											Ak	4
259.08	260.23	1.15	GRD	MG	weakly potassic-argillic , trace propylitic granodiorite containing trace 2-6 mm, dark grey, quartz veinlets locally hosting trace pyrite (40 degrees TCA)							
260.23	261.38	1.15	GRD	MG	weakly argillic, trace potassic granodiorite interval containing trace 3mm-8 mm, quartz-carbonate veinlets (40-80 degrees TCA; larges vein being 80 degrees).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	PK		ARG	2I		
						MD	BG		POT	1I		
261.38	262.47	1.09	GRD	MG	moderately argillic, trace potassic, hematite altered granodiorite interval with a local zone of trace potassic, relatively unaltered granodiorite. Altered granodiorite section contains 3-8mm, quartz-carbonate veinlets (25 degrees TCA) which lcally host magnetite, and trace hematite.							
262.47	263.47	1.00	GRD	MG	moderately argillic, trace propylitic granodiorite containing trace 1-2 mm, carbonate veinlets (80 degrees TCA)							
						MD	BG		PRO	1I		
						LT	GN		ARG	3I		
263.47	264.76	1.29	GRD	MG	trace potassic-propylitic, relatively unaltered granodiorite interval							
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
264.76	266.00	1.24	GRD	MG	weakly argillic-propylitic, trace potassic granodiorite interval							
266.00	268.12	2.12	GRD	MG	moderately argillic, trace propylitic granodiorite interval containing 3mm-15 cm, quartz veins 70 degrees TCA) which locally host blebby and banded magnetite and trace, fine grained pyrite. Carbonate infilled fractures appear to locally crosscut quartz veins.							
						MD	BG		PRO	1I	Py	1
						LT	GN		ARG	3I	Mg	3
268.12	269.75	1.63	GRD	MG	moderately argillic-propylitic granodiorite with local zones of trace potassic alteration. 4mm-1 cm,m quartz veinlets (40 degrees TCA) locally hosting blebby magnetite and specular hematite are locally observed.							
						MD	BG					
						LT	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.20	1.20	CAS	---	--	casing
1.20	3.40	2.20	OVB	OVB	MG	ovb
3.40	4.50	1.10	GRD	GRDA	MG	pervasively oxidized, clay altered, moderate argillic, trace potassic granodiorite interval. Trace 1-2 mm, carbonate veinlets (80 degrees tca), locally crosscut by quartz infilled fractures are observed on interval. Gouge, brecciated, oxidized, clayey section is present at 3.70m.
4.50	5.28	0.78	FLR	GRDA	MG	pervasively oxidized, clay altered, fractured and rubbly interval of moderately argillic granodiorite. (faulted interval(?) no shear or gouge brecciation observed)
5.28	7.46	2.18	GRD	GRDA	MG	clay altered, weakly to moderately oxidized, strongly argillic, trace propylitic granodiorite interval. 1-6mm, quartz-carbonate veinlets (40 degrees TCA) and 2-3mm, 80 degrees TCA, carbonate veinlets locally brecciating host grd are observed (5.79-5.90m). Thin, 1 mm, dark grey, bands within veinlets locally host trace disseminated pyrite. Carbonates in veinlets also locally brecciate quartz veinlet.
7.46	10.44	2.98	GRD	GRDA	MG	locally variable,weakly oxidized, clay altered, moderately argillic, weakly potassic granodiorite interval. clay alteration and oxidiation occurs interstitially within grd host. Trace, 1-4mm, quartz-carbonate veinlets (80 degrees TCA) and trace 1-2 mm, oxidized veinlets at 40 derees TCA are locally observed throughout interval. Light brown, clay altered, fine grained clasts inclusion in granodiorite interval is observed at 7.65m and is localy crosscut by hematite-carbonate infilled fractures.
10.44	13.00	2.56	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with local zones of clay altered, oxidized, weakly argillic alteration. Quartz carbonate veinlets at 30-60 degrees are locally observed within argillic altered sections. Oxidize, calcite infilled ractures (15 degrees TCA) also occur on interval. oxidized-clay altered zones are light-dark brown.
13.00	16.76	3.76	GRD	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval displaying less oxidation , clay alteration than previous interval. 2mm-1cm, carbonate veinlets are observed at 30 and 60 derees TCA (low angle veinlet does nothave alteration halo). Veinlets at 14.15 have a small, weakly oxidized, propylitic alteration halo where light orange oxdiation, surrounds quartz carbonate veinlets.
16.76	18.55	1.79	GRD	GRD	MG	Trace potassic, trace propylitic , relatively unaltered granodiorite interval with local oxidized, clay altered, weakly argillic alteration zones near quatz-carbonate veinlets (mostly as alteration halos). Veinlets are 60 degrees TCA.
18.55	21.45	2.90	GRD	GRDA	MG	weakly oxidized, clay altered, moderately argillic, trace potassic granodiorite interval containing 2mm-1 cm, locally oxidized, quartz-carbonate veinlets (veinlets range from 40-60 degrees TCA). Oxidized, carbonate inilled veinlets (30 degrees TCA) areobserved from 21-21.45m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
21.45	22.72	1.27	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval with intermittent zones of clay altered, moderately argillic weakly potassic granodiorite 2-7mm, 60 degrees TCA, quartz-carbonate veinlets are locally observed in altered granodiorite sections. Unaltered, calcite infilled veinlets appear to locally crosscut and infill oxidized quartz-carbonate veinlets.
22.72	28.35	5.63	GRD	GRDA	MG	clay altered, weakly oxidized, moderately argillic, weakly potassic and propylitic granodiorite containing 2-8mm, 40 degrees TCA , quartz-carbonate veinlets. Trace, disseminated pyrite is locally hosted within 1mm, dark grey, fine grained bands locatedin quartz-carbonate veinlets. Clear,unaltered calcite infilled veinlet appears to locally crosscut and brecciate hostgrd and other veinlets on interval
28.35	29.30	0.95	GRD	GRDA	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval.
29.30	29.96	0.66	GRD	GRDA	MG	weakly oxidized, clay altered, moderately argillic, trace potassic tranodiorite interval containing, 2-6mm, 60-80 degrees TCA, quartz-carbonate veinlets.
29.96	37.20	7.24	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval with local fractured and rubbly zones. Light brown-yellow clay alteration is observed on rubbly zones and along fractures/joint surfaces. Trace 1-2mm, carbonate veinlets are locally observed.
37.20	37.26	0.06	GRD	GRD	MG	oxidized, clay altered , rubly interval of moderately argillic granodiorite
37.26	38.64	1.38	GRD	GRD	MG	weakly oxidized, clay altered, granodiorite interval with small rubly section. Trace 1-2mm, quartz-carbonate veinlets are locally oserved on interval
38.64	41.15	2.51	GRD	GRD	MG	trace propylitic, trace potassic granodiorite interval with local zones of weakl potassic, hematite oxidized, granodiorite. Trace 1-2mm, carbonate veinlets (80 degrees tca) are locally observed
41.15	42.67	1.52	GRD	GRD	MG	weakly oxidized, clay altered, moderately argillic,trace potassic granodiorite interval containing trace 1-4mm, locally oxidized, quartz caronate veinlets (80 degrees TCA).
42.67	43.30	0.63	GRD	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval .
43.30	43.60	0.30	GRD	GRD	MG	oxidized, clay altered, moderately argillic, rubbly granodiorite interval.
43.60	43.90	0.30	GRD	GRD	MG	fractured, weakly oxidized, clay altered, trace potassic, propylitic granodiorite interval
43.90	44.90	1.00	GRD	GRD	MG	clay altered, weakly oxidized, moderately argillic, trace potassic granodiorite interval. trace 2-4mm oxidized, quartz carbonate veinlets(60 degrees TCA) are locally observed.
44.90	49.39	4.49	GRD	GRD	MG	uanltered granodiorite interval with intermittent zones of oxidized ,argillic alteration (no larger than 10 cm). Trace 2-6mm, (60-80 degrees TCA) , quartz-carbonate veinlets are locally observed throughout interval
49.39	53.63	4.24	GRD	GRD	MG	black-white, unaltered granodiorite interval containing trace, 1-3mm, carbonate veinlets(60 degrees Tca)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
53.63	54.48	0.85	GRD	GRD	MG	moderately argillic, trace potassic, propylitic granodiorite containing 4mm-1 cm, light pink aplite dyke intrusions (20-80 degrees TCA; steeper dyke intrusions locally crosscut through low angled ones). Trace 3mm-2 cm, quartz carbonate veinlets are observed on interval, thinner veinlets locally crosscut and offset aplite dyke intrusions. Rubbly zone is observed from 54.20m. Trace pyrite blebs, locally hosted in vein zone at 54 m. (vein is 80 degrees TCA). Trace pyrite, is also locallyhosted in 1-2mm veinlets that locally crosscut and offset aplite dyke intrusions.
54.48	56.00	1.52	GRD	GRD	MG	black-white , unaltered granodiorite interval containting 3-4mm, 25 degrees TCA ,light pink, aplite dyke intrusions.
56.00	60.15	4.15	GRD	GRD	MG	locally fractured, trace potassic, relatively unaltered granodiorite interval containing trace 1-4mm, 60 degrees TCA, quartz-carbonate veinlets.
60.15	62.38	2.23	GRD	GRD	MG	trace potassic granodiorite with intermittent zone of weakly argillic, potassic, oxidized, clay altered granodiorite. Local rubbly, fracture zones occur throughout interval. Trace 1-4mm,quartz carbonate vienlets (60 degrees TCA) sometimes locally hosting trace pyrite are present in altered granodiorite sections.
62.38	65.77	3.39	GRD	GRD	MG	trace potassic, propylitic, relatively unaltered granodiorite interval
65.77	66.68	0.91	GRD	GRD	MG	pervasively oxidized, clay altered, moderately argillic, weakly potassic and tracepropylitic granodiorite interval. Trace 1-3 mm, quartz-carbonate veinlets occur sporadically throughout interval.
66.68	66.85	0.17	VEN	GRD	MG	quartz-carbonate vein breccia zone in argillic, oxidized granodiorite. Carbonate infilling veinlets locally brecciate host grd and microbrecciate veins within interval. Semi chaotic,discontinous veinlets are also observed in vein interval. 1-2mm, dark red, hematite bands locally crosscut bycarbonate infill are observed as well. Trace, disseminated pyrite is locally hosted in dark bands in vein zone. Trace sub-mm, sphalerite and possibly galena occur within dark grey, (30 degrees TCA) veinlet which is not brecciated or crosscut by carbonates (later stage vein(?)).
66.85	67.18	0.33	GRD	GRD	MG	pervasively oxidized, clay altered, argillic-weak potassic granodiorite interval. 1mm, carbonate infilled fractures parallel TCA are observed on interval
67.18	68.00	0.82	GRD	GRD	MG	strongly potassic, granodiorite interval within intermittent zones of trace argillic alteration.
68.00	68.22	0.22	VEN	GRD	MG	semi chaotic, dark grey, smoky quartz-carbonate veining (relatively shallow 20 degrees TCA) vein within strongly potassic granodiorite interval. Specular hematite, blebby pyrite and tabular, magnetite crystals are locally observed within vein (i.e. 28.22m). Calcite inclusion within hematite-pyrite quartz vein is observed in quartz vein. (silica flooding into strongly potassic granodiorite(?). Quartz vein locally brecciates host granodiorite as well.
68.22	69.70	1.48	GRD	GRD	MG	moderate potassic granodiorite interval with intermittent zones of weak argillic alteration.
69.70	72.50	2.80	GRD	GRD	MG	black-white , medium grained, unaltered granodiorite interval with local zones of weak potassic alteration and containin trace 1-3mm, carbonate veinlets (40 degrees Tca).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
72.50	74.68	2.18	GRD	GRDA	MG	Moderately argillic trace potasic granodiorite interval with local zones of light brown, oxidation. Dark reddish, hematite oxidation is locally observed along fractures/joint surfaces.
74.68	76.38	1.70	GRD	GRD	MG	fractured interval of relatively unaltered granodiorite . Light brown,yellow clay alteration if observed along fracture/join surfaces.
76.38	78.78	2.40	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with trace 1-2 , quartz-carbonate veinlets (60 degrees TCA0.
78.78	79.25	0.47	GRD	GRDA	MG	clay altered, oxidized, moderately argilic granodiorite proximal to light pink, aplite sheeted dyke intrusion.
79.25	80.60	1.35	APL	GRDA	MG	light pink, fine grained, aplite dyke intrusion containing a succession of 30 degrees TCA, 2-3 cm, aplite dyke intrusions (sheeted dyke interval(?)). Blebby pyrite is locally hosted within dark , grey inclusions in aplite dyke section and light beige, quartz-carbonte veins (60 degrees) locally brecciate intrusion at 79.90m. Light beige veins appear to partially replace, white calcite veinlets within interval (80 degrees TCA). Light beige, vein breccia locally offsets 102mm, white calcite veinlets .
80.60	83.34	2.74	GRD	GRDA	MG	clay altered, hematite altered, moderately argillic, weakly potassic granodiroite interval. Reddish, hematite alteration is more prominent in lower interval section at 83m.
83.34	84.47	1.13	GRD	GRDA	MG	strongly argillic, trace potassic, propylitic granodioriote interval with trace 1-2 mm, carbonate veinlets (70 degrees TCA). Trace clay alteration is locally observed on interval
84.47	84.83	0.36	VEN	GRDA	MG	quartz-carbonate breccia vein zone within argillic altered granodiorite locally hosting blebby pyrite, trace sub-mm galena, sphalerite and possibly arsenopyrite. Breccia zone is comprised of sub-angular grd clasts with partially infilled or containing calcite veinlet fragments (reworked vein breccia(?)). Beige, ankerite appears to brecciate grd clasts, calcite , light pink rhodocrosite and quartz clasts throughout vein zone. Sub-mm galena and sphalerite is locally hosted within light pink, rhodocrosite sections. Pyrite blebs alsooccur within brecciated grd clasts. 3-5 mm, quartz veinlets (60 degrees TCA) are observed near vein breccia zone and locally host blebby pyrite within dark grey smoky quartz veinlets partially infilled by calcite and ankerite
84.83	85.65	0.82	GRD	GRDA	MG	strongly argillic, trace potassic/propylitic granodiorite with trace 1mm-1 cm, quartz-carbonate veinlets (40-80 degrees TCA. Trace,pyrite islocally hosted within dark grey, fine grained bands within some quartz-carbonate veinlets.
85.65	86.65	1.00	GRD	GRDA	MG	clay altered, weakly oxidized, argilic granodiorite interval with local light brown, soft gouged seams.
86.65	88.00	1.35	FLR	FLT	MG	light brown, clay altered, weakly oxidized, moderately argillic, fractured granodiorite interval . (start of fault hanging wall(?)
88.00	91.63	3.63	FLR	FLT	MG	fractured, soft, weakly sheared , locally rubbly trace potassic, trace propylitic granodiorite interval. (shear fabric ~ 25 degrees TCA).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
91.63	91.71	0.08	GRD	FLT	MG	weakly propylitic, clay altered , locally fractured granodiorite interval containing trace 1-3mm, black tourmaline bands which are locally offset by calcite infilled fractures
91.71	93.21	1.50	FLT	FLT	MG	faulted interval composed of reworked, reheatted (due to fault) granodiorite fragments and locally hosting disseminated,blebby pyrite within brecciated zones. Rock is soft, gouged brecciated and contains vuggy, quartz-carbonate veinlets which locally brecciate faulted interval. Fault gouge at 92 meters occurs at steep angle to core axis (80), gouge brecciated seam at the contact with fault and footwall is 25 degrees TCA. Pervasive clay alteration is locally observed throughout faulted interval Pyrite is also hosted wtihin dark grey, fine grained veinlet fragments that are locally crosscut by clay-carbonate infilled fractures. Discontinous 2-3 mm, tourmaline bands and sub-mm tourmaline crystals are observed at 93 m.
93.21	94.41	1.20	GRD	FLT	MG	trace potassic,trace propylitic granodiorite with light brown/yellow oxidation-clay alteration along fractures/joints
94.41	96.50	2.09	FLR	FLT	MG	clay altered,limonite bearing, fractured, rubbly granodiorite interval exhibiting weakly sheared fabric in competent granodiorite zones. (fault footwall(?)
96.50	97.23	0.73	FLR	FLT	MG	sheared and rubbly, unoxidized , weakly argillic trace potassic granodiorite interval. (shear fabric ~ 20 degrees).
97.23	101.26	4.03	GRD	GRDA	MG	trace potassic, propylitic granodiorite interval with local zones of inreased propylitic alteration. Trae 1-3mm, quartz-carbonate veinlets (35 degrees TCA) are observed from 99-99.40m. Locally fracture zones are also observed throughout interval.
101.26	103.16	1.90	GRD	GRDA	MG	Moderately argillic, weakly potassic, trace propylitic, hematite altered granodiorite interval with locally fractured, argillic, propylitic zones. hematite oxidation on surfaces giving granodiorite a darker red tone. Trace 1-2 m, carbonate veinlets (40 degrees TCA) occur locally on interval.
103.16	105.00	1.84	GRD	GRDA	MG	strongly propylitic granodiorite interval locally silica flooded, expressed as mm-cm, increased quartz inclusions and 1-3 cm, 40 degrees TCA, quartz veinlets. Darker grey, carbonitic veinlets locally brecciate host grd and quartz flooded areas.
105.00	106.20	1.20	GRD	GRDA	MG	fractured, rubbly, gouged brecciated , silica flooded , strongly propylitic granodiorite. (Faulted interval(?)).
106.20	108.26	2.06	GRD	GRDA	MG	silica flooded, strongly propylitic granodiorite with local 1-3 mm , gouged brecciated seams (40 degrees TCA)
108.26	108.81	0.55	GRD	GRDA	MG	Rubbly, gouge, strongly propylitic granodiorite interval.
108.81	109.27	0.46	GRD	GRDA	MG	stronglly propylitic, silica flooded, granodiorite with trace 1-2 mm, carboante veinlets and carbonate fracture infill.
109.27	109.72	0.45	GRD	GRDA	MG	moderate argillic, weakly propylitic granodiorite interval containing 1-3 mm, black, fine grained magnetite inclusions and trace 1-4 mm, quartz-carbonate vein at 20 degrees to core axis and locally host trace disseminated pyrite. Veinlets ppear to locally microbrecciate host grd and magnetite appears to interstitially infill and surround feldspathic clasts in grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
109.72	110.72	1.00	GRD	GRDA	MG	moderate argillic, weakly potassic-propylitic granodiorite interval containing 1-2 mm, light grey, gouged seams (40 degrees TCA at 110.05m. Trace 1-2 mm, carbonate veinlets @ 35 degrees are also observed.
110.72	111.47	0.75	GRD	GRDA	MG	Gouged, brecciated interval of moderate argillic, trace potassic-propylitic granodiorite. Trace, disseminated pyrite is locally hosted within grey, fine grained, gouged bands on interval. competent sections of rock exhibit sheared fabric (20 degrees TCA).
111.47	112.78	1.31	GRD	GRDA	MG	fractured, rubbly interval of moderately argillic, trace potassic, propylitic granodiorite. Light brown-yellowsih clay alteration is observed along fracture surfaces.
112.78	114.74	1.96	GRD	GRDA	MG	moderately argillic with moderate propylitic overprint. Light green, brownish, fine grained, intrusion if observed @ 114.60m.
114.74	115.72	0.98	FLR	GRDA	MG	gouged brecciated , rubbly and locally fractured, moderately argillic, trace propylitic granodiorite interval. Light-meidum brown, clay alteration and oxidation is observed along fractures/joint surfaces.
115.72	116.00	0.28	VEN	GRDA	MG	light brown-grey, clay altered, oxidized, rubbly , vein zone in moderately argillic granodiorite . Trace , disseminated pyrite is locally hosted in grey , fine grained material within gouged seams.
116.00	116.70	0.70	GRD	GRDA	MG	Moderately argillic, trace potassic-propylitic granodiorite interval. Trace, pyrite is locally hosted in 40 degrees TCA , 1-2 mm, quartz-carbonate veinlets. Slickenlines are locally observed along join surfaces .
116.70	118.41	1.71	GRD	GRD	MG	trace potassic granodiorite interval exhibiting weak , hematite oxidation in grd. Sub-mm, 60 degrees TCA, quartz-carbonate veinlets occur sporadically throughout interval. 2-3 mm, hematite infilled carbonate veinlet (80 degrees TCA) locally crosscut low angle (60o) quartz-carbonate veinlets on interval.
118.41	122.83	4.42	GRD	GRD	MG	relatively unaltered granodiorite interval displaying moderate , pervasive hematite oxidation. Trace, 1-4 mm, quartz-carbonate veinlets (60 degrees TCA) locally hosting minor pyrite blebs are observed throughout interval. 1-3 mm, hematite infilled, low angle (40 degrees TCA) quartz carbonate veinlets are also observed on interval
122.83	124.00	1.17	GRD	GRD	MG	relatively unaltered granodiorite interval exhibiting pervasive hematite oxidation. Interval is more fractured and contains increased, black, fine grained, magnetite inclusions than previous interval.
124.00	125.10	1.10	GRD	GRD	MG	relatively unaltered granodiorite with moderate , pervasive hematite oxidation containing trace 4-6 mm, dark grey, 20 degrees TCA, quartz-carbonate veinlets. Dark veinlets, locally host fine grained, magnetite , trace pyrite and are locally offset by 3-5 mm, 60 degrees TCA quartz-carbonate veinlets.
125.10	127.92	2.82	GRD	GRD	MG	trace potassic, trace propylitic granodiorite exhibiting weak hematite oxidation and containing 1-5 mmm, semi chaotic, quartz-carbonate veinlets (30-60 degrees TCA) which locally brecciate host grd. Trace disseminated pyrite locally hosted in some veinlets is observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
127.92	132.11	4.19	GRD	GRD	MG	trace potassic, trace propylitic granoiorite interval with weak to moderate hematite oxidation and locally increased, dark grey, fine grained magnetite inclusions . Tabular, euhedral , magnetite crystals and blebby pyrite are locally observed on interval. (i.e. 129-130m). Trace 1-3 mm, 60 degrees TCA, quartz-carbonate veinlets and discontinous 1-2 m carbonate infilled vienlets are locally observed throughout interval.
132.11	133.00	0.89	GRD	GRD	MG	weakly potassic, trace proplylitc granodiorite with weak hematite oxidation.2-8mm, quartz-carbonate veinlets (60-80 degrees TCA) sometimes locally hosting trace pyrite occur throughout interval. 4-7 mm, light pink aplite dyke intrusions(20 degrees tca) are loally crosscut and offset by fractures and quartz-carbonate veinlets (i.e. 132.40m).
133.00	135.26	2.26	GRD	GRD	MG	weakly potassic granodiorite interval with intermittent zones of moderate propylitic alteration. 2-8 mm, slightly deformed (weakly sheared), quartz-carbonate veinlets (30 degrees TCA) are locally observed throughout interval. Light grey, gouged seam (60 degrees TCA) is observed at 134.45m. Trace pyrite, is locally hosted in dark grey bands within quartz-carbonate zones. Darker quartz-carbonate veinlets are locally offset by 2-3 mm, carbonate veinlets. Hematite oxidation is locally observed throughout unit as well
135.26	138.91	3.65	GRD	GRD	MG	trace potassic, trace propylitic granodiorite interval with weak hematite oxidation and containting trace 2-8 mm, quartz-carbonate veinlets (60 degrees TCA).
138.91	140.40	1.49	GRD	GRD	MG	trace potassic, propylitic granodiorite interval containing 5mm-12 cm, light pink,fine grained aplite dyke intrusions (60 degrees TCA). Weak, hematite staining is locally observed throughout interval. 8mm, quartz-carbonate vein (45 degrees TCA), containting red hamatite infill and specular hematite is locally observed at 139.50m.
140.40	141.72	1.32	GRD	GRD	MG	white-black, unaltered granodiorite with local zones of trace potassic, propylitic alteration (very minor). Trace, red, hematite staining is observed along fractures/joint surfaces.
141.72	143.75	2.03	GRD	GRD	MG	weakly potassic,trace propylitic granodiorite with weak to moderate hematite alteration. 1-2mm, hematite infilled veinlets (80 degrees TCA) occur sporadically on interval.
143.75	148.61	4.86	GRD	GRD	MG	interval comprised of unaltered granodiorite with local zones of weakly potassic /propylitic alteration and locally variable pervasive hematite alteration. Trace, sub-mm,hematite-magnetite veinlets perpendicular to core axis are observed in pervasively hematite granodiorite setions. Sub-mm, calcite infilled fractures are also present on interval
148.61	149.66	1.05	GRD	GRD	MG	weakly potassic, propylitic, pervasively hematite altered, granodiorite interval with local fracture zones (i.e. 148.70m). \
149.66	153.18	3.52	GRD	GRD	MG	black-white, unaltered granodiorite with intermittent zones of trace, potassic, propylitic alteration and local hematite stained sections. (altered zones observed mostly as alteration halos for quartz-carbonate and hematite veinlets). Quartz-carbonate vein fragment at 150.87mm contains bladed magnetite, specular hematite and pyrite blebs within a propylitic altered halo.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
153.18	154.44	1.26	GRD	GRD	MG	moderately argillic, weakly potassic-propylitic granodiorite interval containint 3mm-1 cm, quartz-carbonate veinlets (60 degrees TCA). Light pink, rhodocrosite infilling veinlets and loally hosting trae sub-mm,galena and sphalerite are observed in vein section. Coloform bands are locally observed in quartz-carbonate veinlets as well. Calcite infilled veinlets also host trae-sub mm galena. Disseminated pyrite is locally hosted within dark grey, fine grained bands. A 2 cm clear quartz vein parallel to polymetallic , carbonate infilled veins appears to locally brecciate host granodiorite
154.44	162.35	7.91	GRD	GRD	MG	trace potassic, trace propylitic granodiorite with locally variable zones of weak to moderate hematite alteration . 1-5mm, carbonate veinlets are locally observed throughout interval (60 - 80 degrees TCA). 1-2 mm, dark, veinlets (80 degrees TCA) locally hosting blebby pyrite occur on hematite altered granodiorite zones and are locally crosscut by carbonate infilled fractures.
162.35	162.93	0.58	GRD	GRD	MG	moderatelly argillic moderate propylitic, weakly potassic granodiorite interval containing 2-4 mm, quartz-carbonate veinlets (60 degrees TCA). Blebby pyrite is locally hosted in quartz around carbonate infilled veinlet. Trace specular hematite is present in a carbonate infilled fracture that is locally crosscut by quartz-carbonate veinlets.
162.93	163.53	0.60	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval
163.53	164.24	0.71	GRD	GRD	MG	Moderately argillic, propylitic, weakly potassic granodiorite interval. Trace 1-4 mm (40 degrees TCA) veinlets are observed on interval.
164.24	164.94	0.70	VEN	VEIN	MG	polymetallic quartz-carbonate vein zone intruded into moderately argillic granodiorite overprinted by weak to moderate propylitic alteration. Vein zone is comprised multiple veinlets ranging from 40-60 degrees TCA. Veins are composed of: 2-3 mm, dark grey, slightly deformed veinlets locally hosting disseminated pyrite, 1cm ,Rhodocrosite-ankerite infilled veinlets, light grey, 1-2cm, carbonate veinlets brecciating grd clasts and smoky quartz veinlets (1-2cm). Rhodocrosite infilled veins (40 degrees TCA) locally brecciate clear quartz vein and locally host sub-mm galena and sphalerite. Vuggy texture is observed in vein section from 164.24-164.59m. Blebby pyrite is locally hosted in clear quartz veinlets. Calcite infilled, fractures locally crosscut perpendiculary through smoky quartz veinlets. Smoky quartz vein locally brecciate host granodiorite and cleartz vein fragments. Trace disseminated pyrite is also present within granodiorite interval.
164.94	171.00	6.06	GRD	GRDA	MG	interval comprised of trace potassic granodiorite with intermittent zones of moderate argillic, weakly potassic, propylitic alteration and locally variable hematite alteration. 2-6mm, quartz-carbonate veinlets (60 degrees TCA) are observed within altered granodiorite at 168.25-168.40m. Rhodocrosite-ankerite partially infill existing quartz vein which locally host blebby pyrite. Carbonates-quartz veinlets form coloform texture. Pyrite blebs are locally hosted near granodiorite alteration halo in veinlet zone (propylitic alteration halo).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
171.00	172.76	1.76	GRD	GRDA	MG	moderately argillic, trace potassic-propylitic granodiorite interval with locally variable hematite oxidation (most prominent from 171.20-173m). Trace 3-6mm, quartz-carboante veinlets (30 degrees TCA) are locally observed . Trace, pyrite is locally hosted within dark grey bands in quartz-carbonate veinlets. Minor, rhodocrosite partially infilling quartz veinlets occurs at 173.04m.
172.76	173.70	0.94	GRD	GRDA	MG	trace potassic, propylitic, relatively unaltered granodiorite interval with small, weakly argillic alteration halos near 1-4 mm,m quartz-carbonate veinlets (55 degrees TCA)
173.70	174.52	0.82	GRD	GRDA	MG	moderately argillic, trace potassic-propylitic granodiorite interval containing trace 2-4mm, (60 degrees TCA) , quartz-carbonate veinlet.
174.52	176.55	2.03	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite with interittent zones of relatively unaltered granodiorite. Trace 2-8mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed. Weak hematite oxidation is observed at 175.60m and contain 1mm, hematite bands (80 degrees TCA) on hematite altered section
176.55	177.33	0.78	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite interval.
177.33	178.33	1.00	VEN	GRDA	MG	moderately argillic, weakly propylitic granodiorite with local zones of weak potassic alteration. Interval contains 2mm-2cm, stringer quartz-carbonate veinlets (50-60 degrees . Trace, disseminated pyrite is locally hosted within dark grey, veinlets in vein zone and trace, sub-mm, sphalerite (?)) is locally hosted within carbonate infilled veinlets. A 2mm, gouged brecciated seam if obseeved in vein section @ 178m. Dark grey vein material appears to locally brecciate host granodiorite as well.
178.33	179.14	0.81	GRD	GRDA	MG	strongly argillic, weakly propylitic granodiorite with local zones of weak propylitic alteration. Calcite infilled fractures are locally observed throughout interval.
179.14	180.18	1.04	GRD	GRDA	MG	fractured, rubbly , strongly argillic, weakly potassic granodiorite interval. Hematite oxidation is locally observed on surface and along fracture and joints surfaces.
180.18	181.20	1.02	GRD	VEIN	MG	strongly argillic, trace potassic-propylitic granodiorite interval containting 2mm-1cm, dark grey veinlets (80 degrees TCA) that locally host pyrite and brecciate host granodiorite locally. Lower angle, (50 degrees TCA), quartz-carbonate veinlets locally hosting blebby pyrite are observed from 180.30-180.60m. A 5 mm, grey, gouged brecciated seam is locally observed @ 180.70m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
181.20	181.47	0.27	VEN	VEIN	MG	polymetallic breccia vein zone intruding into moderately argillic, weakly propylitic granodiorite. Breccia zone is comprised of dark grey, silicified clasts, black fine grained clasts that locally host pyrite, arseno pyrite and galena, pyrite bearing granodiorite brecciated clasts, and dark grey, veinlets that locally host honey brown sphalerite. Ankerite appears to interstitially infill brecciated zone. Vugs containing euhedral calcite and quartz are also observed in breccia vein zone. Clasts in breccia are angular-sub-angular and contain small fragment of host granodiorite (small chlorite, feldspathic, quartz clasts). 1-2 mm, ankerite infilled fractures locally crosscut through brecciate clasts. Light grey, infilled carbonate fractures locally crosscut through calcite-ankerite infilled veinlets.
181.47	181.63	0.16	VEN	VEIN	MG	convoluted, polymetallic vein zone containing blebby pyrite, blebby, acicular-bladed arsenopyrite (texture due to spatial association with sphalerite and pyrite(?); sphalerite deposited first then shortly after acicular , dendritic arsenoand pyrite are deposited(?)), blebby and banded honey brown sphalerite and blebby galena. Vein zone is (55 degrees TCA), and is partially infilled and locally brecciated by ankerite and calcite (possibly rhodocrosite as well). Dendritic pyrite, arsenopyrite and sphalerite are locally hosted in dark grey, moderately hard, veinlets and in dark grey, inclusions within interstitial ankerite and surrounded by milky quartz (milky quartz coming in after polymetallic veins and is replaced by late stage carbonitic fluids that intrude pervasively into quartz veins. Coloform bands surrounding mineralized clasts are locally observed in vein zone. Some light grey, carbonate veinlets appear to micro brecciate host grd.
181.63	182.20	0.57	GRD	VEIN	MG	moderately argillic, weakly propylitic granodiorite interval containing a 3 cm, light grey, gouged brecciate seam (30 degrees TCA) at 181.78m and 2-4mm, polymetallic quartz-carbonate veinlets (40 degrees TCA). Veinlets are partially infilled by light pink rhodocrosite and calcite and locally host trace pyrite, galena and sub-mm sphalerite.
182.20	189.25	7.05	GRD	GRD	MG	trace potassic,trace propylitic granodiorite with intermittent ones of white-black, unaltered granodiorite. 1-3 mm, carbonate veinlets (40 degrees TCA) are observed at 184.20m.
189.25	189.70	0.45	GRD	GRD	MG	moderately argillic-potassic, trace potassic granodiorite interval containing 3-6mm, quartz-carbonate veinlets (60 degrees which locally host blebby pyrite).
189.70	191.94	2.24	GRD	GRD	MG	Trace potassic, relatively unaltered granodiorite interval containing trace 2-6 mm, carbonate veinlets (60 degrees TCA)
191.94	192.53	0.59	GRD	GRD	MG	moderately argillic-potassic granodiorite interval containing a 13 cm, (60 degrees TCA) , light pink, fine grained aplite dyke intrusion that is locally crosscut by a quartz-carbonate veinlet (80 degrees TCA).
192.53	193.30	0.77	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval containing a 4 mm, light pink, fine grained ,aplite dyke intrusion (60 degrees TCA).
193.30	194.52	1.22	GRD	GRD	MG	strongly argillic, weakly potassic-propylitic granodiorite interval containing trace 1-2 mm, quartz-carbonate veinlets (80 degrees TCA).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
194.52	195.22	0.70	VEN	GRD	MG	strongly argillic, trace propylitic granodiorite interval containing 3-7mm, quartz carbonate veinlets (60 degrees TCA) and vein breccia zone at 195.07-195.20 that locallt hosts trace pyrite. Irregular, quartz-carbonate veinlet at 195 locally host blebby pyrite and sub-mm black sphalerite (?)). Brecciated zone is weakly silicified, vuggy , locally host pyrite and trace sphalerite, and locally brecciates host grd. Vuggs in breccia zone contain euhedral , calcite-quartz crystals.
195.22	197.10	1.88	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with intermittent zones of moderately argillic, weakly potassic and propylitic granodiorite (argillic-potassic mostly as alteration halos near quartz-carbonate veinlets). A fractured, gouged seam is observed at 195.70m (20 degrees TCA). Trace 3-6 mm, quartz carbonate veinlets (60 degrees TCA) are locally observed throughout interval.
197.10	198.80	1.70	GRD	GRD	MG	moderately argillic, weakly propylitic-potassic granodiorite interval displaying locally variable hematite alteration and containing 1-4mm, red, hematite veinlets (40 degrees TCA) which are locally crosscut by calcite infilled fractures. A gouged brecciated seam is observed at 198.35m (20 degrees shear fabric(?)). 8mm, black, magnetite rich veinlet (20 degrees TCA) is crosscut by a 2mm, hematite veinlet at 198.67m.
198.80	201.17	2.37	GRD	GRD	MG	relatively unaltered granodiorite with intermittent zone of weakly potassic,argillic alteration. Trace 3-6 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed throughout interval.
201.17	204.84	3.67	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones (no larger than 4 cm) of potassic/propylitic alteration (as alteration halos within veinlet zones). 2-8 mm,quartz-carbonate veinlets are locally observed throughout interval (80 degrees TAC)
204.84	205.55	0.71	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval
205.55	206.88	1.33	GRD	GRDA	MG	moderately propylitic granodiorite interval containting trace 2-8mm, quartz-carbonate veinlets (20 degrees TCA) containing red hematite and trace blebby pyrite.
206.88	209.70	2.82	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval with locally variable hematite alteration on surface and along fractures/joint surfaces. A 8mm, quartz-carbonate veinlet (20 degrees TCA) containing trace hematite and trace fine grained pyrite is oserved at 207.66m. 1-2mm, black, hematite infiled veinlets (40-60 degrees TCA) are locally observed throughout interval.
209.70	210.04	0.34	GRD	GRDA	MG	gouged, brecciated,fractured, argillic, weakly potassic granodiorite intervalcontainting dark red, and black fine grained, hematite and magnetite inclusions. Gouged plane appears to be 20 degrees tca.
210.04	210.50	0.46	GRD	GRDA	MG	moderately argillic granodioriteexhibiting pervasive dark red, hematite alteration and containting dark purple/black, hematite-magnetite inclusions and veinlets (30 degrees TCA).
210.50	210.83	0.33	GRD	GRDA	MG	weakly potassic, propylitic granodiorite interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
210.83	211.80	0.97	GRD	GRDA	MG	moderately argillic ,weakly potassic, granodiorite interval with local zones of weak to moderate hematite alteration. A 2 cm, quartz-carbonate vein (30 degrees TCA) containing red hematite infill and trace disseminated pyrite is locally observed at 211.70m within hematite altered section. Trace light pink rhodocrosite infill is observed within quartz vein. 1-4 mm, carbonate veinlets (40 degrees TCA) are also present on interval.
211.80	212.58	0.78	GRD	GRDA	MG	trace potassic, propylitic , relatively unaltered granodiorite interval containing 1-3 mm, 30 degrees TCA, carbonate veinlets.
212.58	213.16	0.58	GRD	GRDA	MG	moderately argillic-potassic grnaodiorite interval containing 3-7mm, quartz-carbonate veinlets (50 degrees TCA) and 1-3 mm, 40 degrees TCA, hematite infilled veinlets
213.16	215.96	2.80	GRD	GRDA	MG	trace potassic-propylitic, relatively unaltere granodiorite interval with locally fractured zones and trace 1-2 mm, carbonate veinlets (40 degrees TCA)
215.96	216.83	0.87	GRD	GRDA	MG	moderately propylitic, trace potassic granodiorite interval containing an 8mm, light brown, fine grained aplite dyke intrusion (60 degrees; and its brown due to granodiorite alteration). 3-7 mm, quartz carbonate veinlets (45 degrees TCA) are locally observed within propylitic altered granodiorite interval. Ankerite and rhodocrosite appear to infill and locally brecciate granodiorite vein section at 216.35m. Trace, pyrite is locally hosted in ankerite-rhodocrosite infilled veinlets
216.83	217.84	1.01	GRD	GRDA	MG	trace potassic-propylitic, relatively unaltered granodiorite interval
217.84	218.75	0.91	GRD	GRDA	MG	black-white, unaltered granodiorite interval
218.75	221.35	2.60	GRD	GRDA	MG	Trace potassic, trace propylitic granodiorite interval containing 2-3 cm, strongly propylitic alteration halos near 1-4 mm, quartz-carbonate veinlets (40-80 degrees). Trace pyrite is locally hosted araound 1-4mm, veinlets.
221.35	223.83	2.48	GRD	GRDA	MG	strongly argillic, weakly potassic-propylitic granodiorite interval within intermittent zones of trace potassic-propylitic, relatively unaltered granodiorite. Trace 1 -3 mm, hematite-bearing veinlets (55 degrees TCA) are locally observed on interval. Black, fine grained magnetite inclusions are prominent in altered granodiorite sections
223.83	225.73	1.90	GRD	GRDA	MG	moderately propylitic, weakly argillic granodiorite with local zone of moderate potassic alteration (at 225.55m) containing 1-3 mm , carbonate veinlets (80 degrees TCA) and 7 mm, magnetite bearing, quartz-carbonate veinlets (50 degrees TCA).
225.73	227.43	1.70	GRD	GRDA	MG	Black-white,unaltered granodiorite with local zones of trace potassic alteration.
227.43	228.00	0.57	GRD	GRDA	MG	moderately potassic, weakly argillic-propylitic granodiorite interval 3mm-1 cm, quartz-carbonate veinlets (80 degrees TCA) are locally observed within propylitic altered halo. Trace, sub-mm magnetite and pyrite are locally observed near quartz-carbonate veinlets
228.00	229.08	1.08	GRD	GRDA	MG	weakly propylitic, trace potassic granodiorite with intermittent zones of moderately argillic, trace potassic alteration. Argillic altered section at 228.50 contains 1mm-5mm ,quartz-carbonate veinlets (50 degrees TCA).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
229.08	230.40	1.32	GRD	GRDA	MG	Moderately propylitic , weakly potassic , trace argillic granodiorite interval containing 3-7 mm, quartz-carbonate veinlets (30 degrees TCA) which locally host trace hematite and trace pyrite. Blebby pyrite is also hosted within propylitic granodiorite.
230.40	231.00	0.60	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval containing trace 1-3 mm, carboante veinlets (40 degrees TCA).
231.00	237.93	6.93	GRD	GRDA	MG	black/white unaltered granodiorite with intermittent zones of weakly potassic/propylitic alteration (mostlyas alteration halo near veinlets). 3-7 mm, quartz-carbonate stringer veinlets (50 degrees TCA) are locally observed throughout interval.
237.93	241.80	3.87	GRD	GRDA	MG	locally fractured, trace potassic-propylitic granodiorite interval containting trace 1-3 mm, dark grey veinlets (60-80 degrees TCA) that locally host trace disseminated pyrite. Moderately propylitic alteration halos near veinlets are commonly observed throughout interval. Dark green chlorite and red hematite commonly occurs along fracture/joint surfaces.
241.80	243.14	1.34	GRD	GRDA	MG	weakly propylitic, trace potassic granodiorite interval with local zones of moderate propylitic alteration. Trace 2-5 mm, quartz-carbonate veinlets (80 degrees TAC) locally hosting magnetite and trace quartz are observed on interval. Local,fracture zones arepresent throughout interval (i.e. 240.50m).
243.14	244.38	1.24	GRD	GRDA	MG	moderately argillic , trace potassic granodiorite interval with weak surface hematite oxidation and local zones of weak to moderate propylitic alteration. 2-7 mm, quartz carbonate veinletss occur from 243.14-293.83m (60 degrees TCA). Lower angle (20 degrees TCA),quartz carbonate veinlets containing hematite and black, sub-mm magnetite (from 244-244.38m).
244.38	246.79	2.41	GRD	GRDA	MG	trace propylitic-potassic granodiorite interval containting trace 1-3 mm, dark grey, veinlets (40-60 degrees TCA) which are locally crosscut by 80 degrees TCA, 1-2mm, carbonate veinlets.
246.79	248.03	1.24	GRD	GRDA	MG	moderately argillic-propylitic granodiorite interval containing trace 3-6 mm, magnetite bearing veinlet (45 degrees TCA). Dark red hematite alteration is locally observed along joint surfaces .
248.03	249.00	0.97	GRD	GRDA	MG	trace propylitic-potassic granodiorite interval with locally fractured zone observed from 248.70m.
249.00	249.33	0.33	GRD	GRDA	MG	moderately argillic, trace propylitic, locally fractured granodiorite interval. Trace 1-2 mm, black magnetite veinlets (50 degrees TAC) are locally observed on interval
249.33	250.26	0.93	GRD	GRDA	MG	weakly propylitic, trace argillic granodiorite interval containing a soft, clayey , gouged brecciate section from 249.90-250.30 (30 degrees TCA gouged brecciated plane). Trace 1-3 mm, 20 degrees TAC, quartz-carbonate veinlets locally hosting pyrite are observed in proptliric altered granodiorite.
250.26	251.60	1.34	GRD	GRDA	MG	weakly argillic-potassic, trace propylitic granodiorite interval displaying weak hematite staining and containing 1-2 mm, black, hematite infilled veinlets (30 degrees TCA). Trace disseminated pyrite is locally observed within granodiorite interval. Interval is fracture from 251.46-251.60. Trace 1-3 mm, carbonate veinlets are also observed throughout interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
251.60	252.75	1.15	GRD	GRD	MG	weakly argillic-propylitic, fractured and rubbly granodiorite interval
252.75	254.75	2.00	GRD	GRD	MG	moderately propylitic, weakly argillic granodiorite interval containing 1-3 mm, carbonate veinlets (45 degrees TCA) that locally brecciate host grd. 1-4 mm, quartz veinlets(30 degrees) are locally observed as well throughout interval. Interval is weakly silicified (contains increased quartz clasts). A gouged, brecciated, carbonate infilled vein observed @ 525.55 locally hosts pyrite and sub-mm , black sphalerite (brecciated vein @ 30 degrees TCA).
254.75	257.00	2.25	GRD	GRD	MG	silica flooded, strongly propylitic granodiorite interval containing 1-2 cm, quartz-carbonate veinlets (20 degrees TCA) locally hosting trace pyrite and hematite. 1-3mm, quartz veinlets (60 degrees TCA) locally hosting brassy yellow, soft, slightly magnetic chalcopyrite blebs (or tarnished pyrite (?)) are observed from 255-255.89
257.00	257.97	0.97	GRD	VEIN	MG	moderately propylitic-argillic granodiorite interval containing 1-6mm, quartz-carbonate veinlets (30 degrees TCA), which locally host pyrite, hematite and trace magnetite. 1 cm, quartz veinlet (80 degrees TCA) locally brecciating host granodiorite is observed @ 257.85m.
257.97	259.08	1.11	VEN	VEIN	MG	polymetallic brecciated vein zone in moderately propylitic-argillic granodiorite locally hosting disseminated, blebby pyrite, sub-mm, sphalerite, arsenopyrite and sphalerite. Vein breccia zones are partially infilled and brecciated by ankerite and rhodocrosite (rhodocrosite hosts sub-mm sphalerite and galena as well). Polymetallic veins are (80 degrees TCA). Pyrite is locally hosted in dark grey veinlets (smoky quartz(?) and dark grey, silicified, brecciated clasts. Rhodocrosite and ankerite locally brecciate quartz veinlets and host granodiorite. Quartz veinlets (60-80 degrees) hosting blebby pyrite and magnetite are locally crosscut by polymetallic veins. Polymetallic veins appear slightly deformed and convoluted. A 1 mm, gouged seam is observed @ 259m at 25 degrees TCA. NOTE: rhodocrosite in interval is bright pink, first time observed as bright since hole 455.
259.08	260.23	1.15	GRD	GRD	MG	weakly potassic-argillic , trace propylitic granodiorite containing trace 2-6 mm, dark grey, quartz veinlets locally hosting trace pyrite (40 degrees TCA)
260.23	261.38	1.15	GRD	GRD	MG	weakly argillic, trace potassic granodiorite interval containing trace 3mm-8 mm, quartz-carbonate veinlets (40-80 degrees TCA; larges vein being 80 degrees).
261.38	262.47	1.09	GRD	GRD	MG	moderately argillic, trace potassic, hematite altered granodiorite interval with a local zone of trace potassic, relatively unaltered granodiorite. Altered granodiorite section contains 3-8mm, quartz-carbonate veinlets (25 degrees TCA) which lcally host magnetite, and trace hematite.
262.47	263.47	1.00	GRD	GRD	MG	moderately argillic, trace propylitic granodiorite containing trace 1-2 mm, carbonate veinlets (80 degrees TCA)
263.47	264.76	1.29	GRD	GRD	MG	trace potassic-propylitic, relatively unaltered granodiorite interval
264.76	266.00	1.24	GRD	GRD	MG	weakly argillic-propylitic, trace potassic granodiorite interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
266.00	268.12	2.12	GRD	GRD	MG	moderately argillic, trace propylitic granodiorite interval containing 3mm-15 cm, quartz veins 70 degrees TCA) which locally host blebby and banded magnetite and trace, fine grained pyrite. Carbonate infilled fractures appear to locally crosscut quartz veins.
268.12	269.75	1.63	GRD	GRD	MG	moderately argillic-propylitic granodiorite with local zones of trace potassic alteration. 4mm-1 cm,m quartz veinlets (40 degrees TCA) locally hosting blebby magnetite and specular hematite are locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	CAS	--	casing							
1.20	3.40	2.20	OVB	MG	ovb							
3.40	10.44	7.04	GRD	MG	weakly to moderately oxidized, clay altered , moderate argillic, trace propylitic and moderately argillic, weakly potassic granodiorite. Oxidation is more pervasive on top of hole sections. Medium brown, light brown, clay oxidation and trace reddish, hematite oxidation is observed along fracture/joint surfaces. Oxidation is alsoobserved near vein veinlets and within fine grained, 2-10cm clast intrusions in grd interval. Trace 1-4mm, quartz-carbonate veinlets (range between 40 and 60 degrees TCA),sometimes locally hosting trace pyrite are observed in strongly argilic/trace propylitic granodiorite sections.							
						LT	PK		PRO	1I	Py	1
						LT	GN		ARG	4I		
						MD	BG		POT	2I		
10.44	18.55	8.11	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite with local zones of weakly oxidized, weakly argillic granodiorite (no longer than 10 cm). 1 cm, quartz-carbonate vein at 71.20m, is 30 degrees TCA within argillic, clay altered alteration halo. 1-4mm, quartz carbonate veinlets (60 degrees TCA) are commonly observed throughout interval. some veinlets hacec thin hematite infill and appear to locally microbrecciate host grd.							
						LT	PK		ARG	1I		
						LT	GN		PRO	1I		
									POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.55	29.96	11.41	GRD	MG	weakly oxidized, clay altered, moderately argillic, potassic granodiorite with intermittent zones o trace potassic, trace propylitic , relatively unaltered granodiorite . 2mm-1 cm,locally oxidized, quartz-carbonate veinlets are locally observed in altered grd sections and range from 40-60 degrees TCA. 1-2mm, oxidized, carbonate infilled fractures are also commonly observed. Unaltered, carbonate veinlets locally brecciating altered veinlets and host grd are observed @28m. Trace, disseminated pyrite locally hosted in black, fine grained bands within quartz-carbonate veinlets occur sporadically throughout interval.							
						MD	BG		POT	1I		
						LT	GN		ARG	3I		
						LT	PK		PRO	1I		
29.96	37.20	7.24	GRD	MG	trace potassic, trace propylitic, relatively unaltered granodiorite interval with local fractured and rubbly zones. Light brown-yellow clay alteration is observed on rubbly zones and along fractures/joint surfaces. Trace 1-2mm, carbonate veinlets are locally observed.							
						LT	GN		PRO	1I		
						LT	BN		POT	1I		
37.20	49.39	12.19	GRD	MG	interval comprised unaltered granodiorite and clay altered, oxidized, moderately argillic,potassic granodiorite. Rubly zones are locally observed on interval.trace 2-4mm, quartz carbonate veinlets are locally observed (40-60 degrees tca).							
						LT	BN		PRO	1I		
						MD	BN					
						LT	GN		PRO	1I		
						LT	PK		ARG	3I		
49.39	56.00	6.61	GRD	MG	black-white, unaltered granodiorite interval with intermittentzone of moderately argillic, trace propylitic,potassic granodiorite. Interval contains 5mm-1cm , light pink, aplite dyke intrusions (30-80 degrees). (largest aplite dyke is 80 degrees in altered grd, low angle aplite is located in unaltered granodiorite sections). Trace 1-4mm, quartz carbonate veinlets are locally observed throughout interval.							
						LT	GN		POT	2I		
						LT	PK		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
56.00	72.50	16.50	GRD	MG	unaltered granodiorite interval with local fractured, rubbly zones and intermittent section of weakly argillic/potassic alteration. Trace 1-4mm, quartz-carbonate veinlets (60 degrees tca) are locally observed in altered granodiorite zones. Note : aplite dyke intrusions are no longer observed on interval.							
						LT	BN		POT	1I		
						--	BK					
						--	WH		ARG	3I	Py	0.5
72.50	74.68	2.18	GRD	MG	Moderately argillic trace potasic granodiorite interval with local zones of light brown, oxidation. Dark reddish, hematite oxidation is locally observed along fractures/joint surfaces.							
						LT	PK		OXI	1I		
									ARG	3I		
						MD	BG		HEM	1I		
						LT	BN		POT	1I		
74.68	78.78	4.10	GRD	MG	trace potassic, realtively unaltered granodiorite interval with local fracture zones. Trace 1-2mm, quartz-carbonate veinlets are observed throughout interval (60 degrees TCA)							
78.78	86.65	7.87	GRD	MG	Interval comprised of clay altered, oxidized, strongly argillic, weakly potasic granodiorite and trace potassic, granodiorite. Light pink, aplite intrusions are observed within light pink, fine grained , 120 cm intrusion . A succession of 2 cm, light pink dykes adjacent to each other are locally observed wtihin large intrusion (sheeted dyke(?)) (20 degrees TCA). Blebby pyrite is locally observed within light pink intrusion as well as 4mm-4 cm, light beige, carbonate veining locally brecciating intrusion (i.e. 79.90-80.26). Light beige carbonate veins appear to locally crosscut and infill, white calcite veinlets within intrusion. Quartz-carbonate vein brecciating host argillic granodiorite is observed at 84.48m.							
						LT	GY		ARG	4I		
									OXI	2I		
						MD	BG		CLY	3I		
						MD	PK		POT	1I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
86.65	97.23	10.58	FLT	MG	interval comprised of sheared, fractured, clay altered, argillic granodiorite and trace potassic, argillic granodiorite (fault hanging wall(?)). Fault zone is composed of reworked, reheated, granodiorite fragments and is gouged brecciated.Fault zone contains bleby pyrite locally hosted in dark grey, fine grained , fractured veinlets, andthroughout faulted interval (cubis and blebby pyrite locally observed). Sub-mm, tourmaline crystals and 1-2mm, tourmaline bands are locally observed in faulted interval. brecciated, vuggy quartz, faulted veinlets locally host pyrite as well. Clayey, gouged brecciated seam at the contact between fault and footwall is 30 degrees TCA.							
						LT	BN					
						MD	BG	BX	CLY	3I	To	2
						LT	GN					
						DK	GY		ARG	3I	Py	5
97.23	101.26	4.03	GRD	MG	trace potassic, propylitic granodiorite interval with local zones of inreased propylitic alteration. Trae 1-3mm, quartz-carbonate veinlets (35 degrees TCA) are observed from 99-99.40m. Locally fracture zones are also observed throughout interval.							
						LT	PK		POT	2I		
						LT	GN		PRO	2I		
101.26	116.70	15.44	GRD	MG	interval comprised of weakly potassic, hematite altered granodiorite, silica flooded, strongly propylitic granodiorite and moderately argillic, trace potassic and propylitic granodiorite. Fractured, rubbly, gouged brecciated zones are locally observed throughout interval (i.e. 105-106m, 108.20-108.21, 111.50-112.78 and 114.74-116m). Trace 1-2 mm, quartz-carbonate veinlets (30 degrees TCA) locally hosting trae pyrite are observed in strongly propylitic interval. Light brown, gouged , oxidized vein locally hosting disseminated pyrite occurs at 115.72-116m.							
						MD	PK		ARG	3I	Py	2
						MD	BG		PRO	4I	Qz	8
						LT	BN					
						MD	GN		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
116.70	132.11	15.41	GRD	MG	weakly potassic, trace argillic, propylitic granodiorite interval with local zones of pervasive hematite oxidation and local zones of weak propylitic alteration (as alteration halos near veinlets).							
									HEM	3I		
									PRO	1I		
						DK	RD		ARG	2I		
						MD	PK		POT	2I		
132.11	135.26	3.15	GRD	MG	weakly potassic granodiorite interval with intermittent zones of moderate potassic alteration. 3-8mm, quartz-carbonate veinlets (60 degrees tca). Some veinlets, locally host, trace pyrite,galena and sub-mm sphalerite. Some veinlets appear slightly deformed (weakly sheared (?)). 5-7mm, light pink, aplite dyke intrusions (20 degrees TCA), locally crosscut and offset by fractures, and quartz-carbonate veinlets are observed at 132.41m							
						MD	PK		PRO	2I		
						LT	GN		POT	2I		
135.26	138.91	3.65	GRD	MG	trace potassic, trace propylitic granodiorite interval with weak hematite oxidation and containting trace 2-8 mm, quartz-carbonate veinlets (60 degrees TCA).							
138.91	164.24	25.33	GRD	MG	trace potassic granodiorite with intermittent zones of unaltered granodiorite and moderately argillic, weakly propylitic, trace potassic granodiorite. 5mm-10cm, light pink, aplite dyke intrusions (60 degrees TCA) are observed from 138.91-140.29m. Local zones of weak dark red hematite alteration occur throughout interval. 2mm-1 cm, quartz-carbonate veinlets (60-80 degrees TCA) are observed on interval (more prominent in altered granodiorite zones).							
						--	WH		POT	1I		
						MD	BG		PRO	2I		
						--	BK		HEM	2I		
						LT	PK					
						LT	GN		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
164.24	164.94	0.70	VEN	MG	polymetallic quartz-carbonate vein zone intruded into moderately argillic granodiorite overprinted by weak to moderate propylitic alteration. Vein zone is comprised multiple veinlets ranging from 40-60 degrees TCA. Veins are composed of: 2-3 mm, dark grey, slightly deformed veinlets locally hosting disseminated pyrite, 1cm ,Rhodocrosite-ankerite infilled veinlets, light grey, 1-2cm, carbonate veinlets brecciating grd clasts and smoky quartz veinlets (1-2cm). Rhodocrosite infilled veins (40 degrees TCA) locally brecciate clear quartz vein and locally host sub-mm galena and sphalerite. Vuggy texture is observed in vein section from 164.24-164.59m. Blebby pyrite is locally hosted in clear quartz veinlets. Calcite infilled, fractures locally crosscut perpendiculary through smoky quartz veinlets. Smoky quartz vein locally brecciate host granodiorite and cleartz vein fragments. Trace disseminated pyrite is also present within granodiorite interval.							
											Gn	1
											Rh	3
						LT	GY				Py	4
						MD	GY				Ak	3
						MD	BG		ARG	3I	Sp	1
						MD	GN		PRO	2I	Py	3
164.94	180.18	15.24	GRD	MG	interval comprised of trace potassic granodiorite and intermittent zones of moderate argillic, propylitic alteration and moderately argillic, potassic alteration. Locally variable hematite alteration is obseved throughout interval. 2-6mm, veinlets containing ankerite and rhodocrosite coloform bands are locally observed @ 168.28-168.40 (trace pyrite blebs are observed around veinlets and within quartz section of carbonate infilled veinlets). 2-4cm, propylitic alteration halos are obsered near veinlets. Hematite altered, pyrite bearing, 2-3 mm, stringer veinlets (20 degrees TCA) are observed from 171.40-172m. Notable zone of stringer , quartz-carbonate, locally hosting pyrite occur from 177-178.30m.							
						LT	PK		PRO	2I	Rh	2
						MD	BG		POT	2I	Ak	2
						MD	GN		ARG	3I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
180.18	182.20	2.02	GRD	MG	strongly argillic, weakly propylitic-potassic granodiorite interval containing polymetallic breccia vein zone (181.20-181.47m) and polymetallic quartz-carbonate veins (65 degrees TCA)(181.47m-181.62m). A gouged, brecciated seam is observed at 181.80m (at 30 degrees TCA). Breccia vein zone contains brecciated, grey, silicified clasts which are interstitially surrounded by carbonates (ankerite and possibly rhodocrosite). Black, slightly magnetic, brecciated clasts locally host disseminated pyrite and arseno pyrite. Breccia vein zone display vuggy texture and contain euhedral calcite, quartz crystals). Brecciated, granodiorite clasts locally host blebby pyrite as well within vein breccia zone. Veins from 181.47-181.62 appear convoluted, locally brecciated and offset by fracturing and carbonate infill. Honey brown sphalerite, blebby and disseminated pyrite and arsenopyrite and sub-mm galena are locally hosted in dark grey, veinlets and inclusions (some arsenopyrite crystals appear bladed-acicular and are spatially associated with pyrite rich zones). Sphalerite occurs at dark grey vein boundaries and is surrounded by pyrite and arsenopyrite. Coloform bands surrounding polymetallic bearing inclusions are locally observed in convoluted vein zone.							
						MD	GN		PRO	2I	Ak	3
											As	5
											Rh	3
						MD	BG		ARG	3I	Gn	3
						MD	GN		SIL	2I	Py	4
											Sp	4
182.20	189.25	7.05	GRD	MG	trace potassic,trace propylitic granodiorite with intermittent ones of white-black, unaltered granodiorite. 1-3 mm, carbonate veinlets (40 degrees TCA) are observed at 184.20m.							
						LT	PK		PRO	1I		
						--	BK					
						MD	GN					
						--	WH		POT	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
189.25	204.84	15.59	GRD	MG	trace potassic, relatively unaltered granodiorite with intermittent zones of strongly argillic, weakly potassic-propylitic granodiorite. 5mm- 13 cm, light pink, fine grained aplite dyke intrusions (60 degrees TCA) are observed from 192.35-192.85m and are locally crosscut by quartz-carbonate veinlets and carbonate infilled fractures. Quartz - carbonate, breccia zone occurs at 194.97-195.20m where blebby and disseminated pyrite are locally hosted within quartz-carbonate veinlets. Vein breccia zone is weakly silicified, and interstitially infilled by tannish color, carbonate (ankerite) . Sub-mm, sphalerite (?)) is observed within ankerite infilled breccia vein zone.							
						LT	PK		POT	2I	Ak	5
						MD	GN		ARG	3I	Sp	1
						MD	BG		PRO	2I	Py	2
204.84	210.83	5.99	GRD	MG	interval comprised of moderately argillic weakly potassic granodiorite with intermittent zones of moderate propylitic alteration, and weakly potassic, hematite altered granodiorite. 5-8mm, quartz-carbonate veinlets (30 degrees TCA), locally hosting trace pyrite are observed on interval (i.e. 206-208m). A fractured, gouged brecciated section of granodiorite is observed at 209.70m.							
						MD	PK		POT	2I	Py	2
						MD	GN		ARG	3I		
						DK	RD		PRO	3I		
210.83	246.79	35.96	GRD	MG	interval comprised of trace potassic-propylitic, relatively unaltered granodiorite, black-white unaltered granodiorite, moderately argillic, weakly potassic granoiorite and weakly argillic, propylitic granodiorite. Dark red hematite alteration is locally variable most prominent in altered granodiorite sections. A light brown, 1cm , fine grained aplite dyke intrusion (80 degrees TCA)occurs in propylitic altered granodiorite seciton. 2mm-2 cm, quartz-carbonate veinlets are locally observed (30-60 degrees TCA) and sometimes host trace disseminated pyrite (mostly in low angle veins).							
						MD	GN		PRO	2I		
						MD	BG		POT	2I		
						MD	PK		ARG	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
246.79	251.60	4.81	GRD	MG	Interval comprised of alternating zones of moderately propylitic,trace argillic granodiorite, trace potassic-propylitic granodiorite and moderately argillic ,weakly potassic granodiorite. Gouged, brecciated section in propylitic granodiorite occurs at 250-250.30m (25 degrees TCA gouged brecciated seams). 2-5 mm,black, magnetite rich quartz-carbonate veinlets (70 degrees TCA) occur in propylitic granodiorite sections. Trace 1-3 mm, carbonate veinlets (60 degrees TCA) are locally observed throughout interval. Hematite infilled veinlets and hematite staining is locally observed from 251-251.60m							
									ARG	2I		
						MD	PK		HEM	1I		
						DK	RD		POT	2I		
						MD	GN		PRO	3I		
251.60	257.00	5.40	GRD	MG	moderate to strongly propylitic granodiorite interval with local zones of silica flooding (increased quartz clasts and 1-3 cm, quartz veins (30 degrees TCA)), gouged brecciated sections (from 252-252.60m). 2-6mm, quartz veinlets (45 degrees TCA) locally host brassy yellow, soft, slightly magnetic, chalcopyrite blebs (or just tarnished pyrite(?)).							
						DK	GN		PRO	4I	Ch	2
						MD	GN					
257.00	259.08	2.08	VEN	MG	moderately propylitic-argillic granodiorite interval containing 1-5mm, quartz carbonate stringer veins which locally host trace pyrite, hematite and magnetite. 4mm-3 cm, quartz-carbonate veins (80 degrees TCA) locally host disseminated, blebby pyrite, arsenopyrite , sphalerite and trace galena. Ankerite and light pink rhodocrosite partially infill and brecciate quartz veinlets and sometimes brecciate host granodiorite as well. Pyrite is hosted predominantly in dark grey, light grey veinlets and brecciated clasts within vein brecciated zone. Polymetallic vein breccia zones locally crosscut though thin pyrite bearing , low angle , pyrite-magnetite bearing quartz veinlets (30 degrees TCA). Some veins appear convoluted, and form coloform bands.							
											Py	4
											Py	4
						DK	GN		ARG	2I	Ak	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	3I	As	2
											Gn	2
											Sp	2
											Rh	3
259.08	269.75	10.67	GRD	MG	interval comprised of alternating zones of weakly potassic-propylitic granodiorite, weaklly argillic-trace propylitic granodiorite, Trace potassic-propylitic, relatively unaltered granodiorite and moderately propylitic,weakly argillic granodiorite. Dark red, hematite alteration is locally observed in argillic altered zones (i.e 261-262m). 3mm-12 cm, quartz veins locally hosting pyrite, possibly chalcopyrite and black, magnetite are locally observed in more propylitic granodiorite section (70-80 degrees TCA).							
						MD	GN		ARG	3I	Ch	1
						MD	BG					
						DK	GN					
						MD	PK		PRO	3I	Py	3
						DK	RD		POT	2I	Mg	4

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.20	1.20	0	0	0.00	0	--	--	--	OVB
1.20	2.74	1.54	0	0	0.00	0	--	--	--	OVB
2.74	4.27	1.53	1.36	89	0.33	22	--	3H	3W	
4.27	5.79	1.52	1.22	80	0.58	38	--	3H	3W	
5.79	7.32	1.53	1.45	95	1.00	65	--	3H	3W	
7.32	8.84	1.52	1.52	100	1.34	88	--	3H	3W	
8.84	10.46	1.62	1.32	81	1.03	64	--	3H	3W	
10.46	12.19	1.73	1.72	99	1.53	88	--	4H	2W	
12.19	13.72	1.53	1.53	100	0.93	61	--	4H	2W	
13.72	15.24	1.52	1.48	97	1.29	85	--	4H	2W	
15.24	16.76	1.52	1.43	94	0.95	63	--	4H	2W	
16.76	18.29	1.53	1.53	100	1.20	78	--	4H	2W	
18.29	19.81	1.52	1.52	100	1.44	95	--	3H	2W	
19.81	21.34	1.53	1.46	95	1.46	95	--	3H	2W	
21.34	22.86	1.52	1.49	98	1.19	78	--	4H	2W	
22.86	24.38	1.52	1.52	100	1.26	83	--	3H	2W	
24.38	25.91	1.53	1.43	93	1.25	82	--	4H	2W	
25.91	27.43	1.52	1.52	100	1.19	78	--	4H	2W	
27.43	28.96	1.53	1.44	94	1.15	75	--	3H	2W	
28.96	30.48	1.52	1.52	100	1.30	86	--	3H	2W	
30.48	33.53	3.05	2.78	91	1.92	63	--	4H	2W	
33.53	36.58	3.05	2.6	85	1.11	36	--	4H	2W	
36.58	38.10	1.52	1.52	100	1.18	78	--	3H	2W	
38.10	41.15	3.05	2.83	93	1.49	49	--	4H	2W	
41.15	42.67	1.52	1.52	100	1.46	96	--	3H	2W	
42.67	45.72	3.05	2.97	97	1.41	46	--	3H	2W	
45.72	48.77	3.05	3.05	100	2.74	90	--	4H	1W	
48.77	51.82	3.05	2.9	95	1.60	52	--	4H	2W	
51.82	53.34	1.52	1.46	96	1.29	85	--	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
53.34	56.39	3.05	2.82	92	1.97	65	--	3H	2W	
56.39	59.44	3.05	2.56	84	1.41	46	--	4H	2W	
59.44	60.96	1.52	1.52	100	0.73	48	--	4H	2W	
60.96	64.01	3.05	2.88	94	0.51	17	--	3H	2W	
64.01	67.06	3.05	2.92	96	2.43	80	--	3H	2W	
67.06	68.58	1.52	1.52	100	0.94	62	--	4H	2W	
68.58	71.63	3.05	2.94	96	1.63	53	--	4H	1W	
71.63	74.68	3.05	3.05	100	1.23	40	--	3H	1W	
74.68	77.72	3.04	2.63	87	1.79	59	--	4H	1W	
77.72	78.42	0.70	0.7	100	0.50	71	--	4H	1W	
78.42	79.25	0.83	0.83	100	0.65	78	--	3H	2W	
79.25	81.69	2.44	2.25	92	1.37	56	--	4H	2W	
81.69	84.83	3.14	3.05	97	2.37	75	--	3H	1W	
84.83	87.88	3.05	2.59	85	0.90	30	--	3H	2W	
87.88	88.39	0.51	0.44	86	0.10	20	--	4H	2W	
88.39	90.22	1.83	1.33	73	0.10	5	--	3H	1W	
90.22	91.74	1.52	1.06	70	0.35	23	--	3H	1W	
91.74	94.49	2.75	2.75	100	2.29	83	--	3H	2W	
94.49	95.40	0.91	0.78	86	0.41	45	--	2H	2W	
95.40	97.23	1.83	1.6	87	0.11	6	--	3H	2W	
97.23	100.73	3.50	3.05	87	0.98	28	--	3H	1W	
100.73	102.56	1.83	1.65	90	0.95	52	--	3H	1W	
102.56	105.16	2.60	2.53	97	2.35	90	--	3H	1W	
105.16	105.56	0.40	0.19	48	0.00	0	--	3H	1W	
105.56	107.59	2.03	1.66	82	0.78	38	--	3H	1W	
107.59	108.81	1.22	1.06	87	0.25	20	--	3H	1W	
108.81	111.86	3.05	3.05	100	1.73	57	--	3H	1W	
111.86	112.78	0.92	0.76	83	0.11	12	--	3H	1W	
112.78	114.91	2.13	1.85	87	0.52	24	--	3H	1W	
114.91	115.21	0.30	0.29	97	0.00	0	--	3H	2W	
115.21	115.72	0.51	0.37	73	0.00	0	--	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
115.72	116.23	0.51	0.36	71	0.00	0	--	3H	2W	
116.23	117.14	0.91	0.85	93	0.61	67	--	3H	1W	
117.14	118.41	1.27	1.18	93	0.85	67	--	4H	1W	
118.41	120.50	2.09	2.03	97	1.17	56	--	4H	1W	
120.50	122.83	2.33	2.33	100	1.54	66	--	4H	1W	
122.83	124.36	1.53	1.36	89	0.52	34	--	4H	1W	
124.36	127.10	2.74	2.71	99	2.11	77	--	4H	1W	
127.10	129.34	2.24	1.97	88	1.15	51	--	4H	1W	
129.34	131.37	2.03	2.03	100	1.25	62	--	4H	1W	
131.37	134.11	2.74	2.69	98	1.78	65	--	3H	1W	
134.11	137.16	3.05	3.05	100	2.70	89	--	3H	1W	
137.16	140.21	3.05	3.05	100	2.30	75	--	4H	1W	
140.21	143.26	3.05	3.05	100	2.51	82	--	4H	1W	
143.26	145.79	2.53	2.5	99	1.99	79	--	4H	1W	
145.79	147.83	2.04	1.88	92	1.75	86	--	4H	1W	
147.83	150.88	3.05	2.89	95	1.68	55	--	4H	1W	
150.88	153.92	3.04	3.04	100	2.05	67	--	4H	1W	
153.92	156.97	3.05	2.81	92	2.21	72	--	4H	1W	
156.97	160.02	3.05	3.05	100	2.14	70	--	4H	1W	
160.02	163.07	3.05	3.05	100	2.36	77	--	4H	1W	
163.07	164.59	1.52	1.52	100	0.91	60	--	4H	1W	
164.59	167.64	3.05	3.05	100	2.61	86	--	3H	1W	
167.64	170.69	3.05	3.02	99	2.33	76	--	3H	1W	
170.69	173.74	3.05	3.05	100	2.86	94	--	4H	1W	
173.74	176.78	3.04	3.04	100	2.66	88	--	4H	1W	
176.78	179.83	3.05	2.99	98	2.18	71	--	4H	1W	
179.83	182.88	3.05	3	98	2.07	68	--	4H	1W	
182.88	185.93	3.05	3.05	100	3.05	100	--	4H	1W	
185.93	188.98	3.05	3.05	100	2.80	92	--	4H	1W	
188.98	192.02	3.04	3.04	100	2.47	81	--	4H	1W	
192.02	195.07	3.05	3.05	100	2.69	88	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
195.07	198.12	3.05	3.05	100	2.42	79	--	4H	1W	
198.12	201.17	3.05	3.05	100	2.75	90	--	4H	1W	
201.17	204.22	3.05	3.05	100	3.03	99	--	4H	1W	
204.22	207.26	3.04	3.04	100	2.98	98	--	3H	1W	
207.26	208.79	1.53	1.51	99	0.35	23	--	3H	1W	
208.79	210.31	1.52	1.52	100	0.75	49	--	4H	1W	
210.31	213.36	3.05	3.05	100	2.53	83	--	4H	1W	
213.36	216.41	3.05	3.05	100	1.99	65	--	4H	1W	
216.41	219.46	3.05	2.98	98	2.71	89	--	4H	1W	
219.46	222.50	3.04	3.04	100	2.71	89	--	3H	1W	
222.50	225.55	3.05	3.05	100	2.70	89	--	3H	1W	
225.55	228.60	3.05	3	98	2.89	95	--	4H	1W	
228.60	231.65	3.05	3.03	99	2.28	75	--	3H	1W	
231.65	234.70	3.05	3.05	100	2.87	94	--	4H	1W	
234.70	237.74	3.04	3.04	100	2.62	86	--	4H	1W	
237.74	240.18	2.44	2.2	90	1.35	55	--	4H	1W	
240.18	241.71	1.53	1.53	100	0.56	37	--	4H	1W	
241.71	243.99	2.28	2.25	99	1.60	70	--	4H	1W	
243.99	246.89	2.90	2.78	96	1.83	63	--	4H	1W	
246.89	249.17	2.28	2.28	100	0.90	39	--	3H	1W	
249.17	251.46	2.29	2.19	96	2.00	87	--	3H	1W	
251.46	252.98	1.52	1.52	100	0.62	41	--	3H	1W	
252.98	256.03	3.05	2.87	94	2.21	72	--	3H	1W	
256.03	259.08	3.05	3.05	100	2.88	94	--	3H	1W	
259.08	262.13	3.05	3.05	100	2.65	87	--	3H	1W	
262.13	265.18	3.05	3.03	99	2.95	97	--	3H	1W	
265.18	268.22	3.04	2.92	96	2.45	81	--	4H	1W	
268.22	269.75	1.53	1.29	84	1.29	84	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	CAS	OVB
2	0	OVB	OVB
3	0.148	OVB	
4	0.234	GRD	
5	0.397	GRD	
6	0.243	GRD	
7	0.28	GRD	
8	0.43	GRD	
9	0.816	GRD	
10	5.807	GRD	
11	13.46	GRD	
12	10.77	GRD	
13	15.05	GRD	
14	14.55	GRD	
15	14.05	GRD	
16	14.68	GRD	
17	12.14	GRD	
18	16.49	GRD	
19	0.328	GRD	
20	0.455	GRD	
21	0.316	GRD	
22	6.119	GRD	
23	0.431	GRD	
24	15.93	GRD	
25	18.8	GRD	
26	14.11	GRD	
27	12.49	GRD	
28	0.392	GRD	
29	0.366	GRD	
30	16.82	GRD	
31	15.57	GRD	
32	13.89	GRD	
33	14.92	GRD	
34	10.92	GRD	
35	9.684	GRD	
36	10.73	GRD	
37	9.105	GRD	
38	0.656	GRD	
39	11.11	GRD	
40	12.66	GRD	
41	0.522	GRD	
42	0.367	GRD	
43	14.9	GRD	
44	0.556	GRD	
45	12.01	GRD	
46	7.106	GRD	
47	10.69	GRD	
48	9.401	GRD	
49	6.402	GRD	
50	13.2	GRD	
51	19.71	GRD	
52	11.89	GRD	
53	10.73	GRD	
54	0.894	GRD	
55	9.947	GRD	
56	10.64	GRD	
56	10.64	GRD	
57	19.61	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	18.76	GRD	
59	21.44	GRD	
60	0.558	GRD	
61	0.724	GRD	
62	17.92	GRD	
63	11.51	GRD	
64	3.022	GRD	
65	8.59	GRD	
66	0.316	GRD	
67	7.28	GRD	
68	1.037	GRD	
69	21.84	GRD	
70	18.49	GRD	
71	14.5	GRD	
72	13.31	GRD	
73	0.38	GRD	
74	0.553	GRD	
75	8.476	GRD	
76	19.83	GRD	
77	16.81	GRD	
78	4.893	GRD	
79	0.305	GRD	
80	0.332	GRD	
81	0.472	GRD	
82	1.084	GRD	
83	0.251	GRD	
84	0.49	GRD	
85	0.243	GRD	
86	2.529	GRD	
87	2.201	FLT	
88	18.29	FLT	
89	14.85	FLT	
90	0	FLT	Highly fractured
91	0.384	FLT	
92	0.315	FLT	
93	0.866	FLT	
94	8.51	FLT	
95	9.838	FLT	
96	2.583	FLT	
97	9.645	FLT	
98	2.518	GRD	
99	20.31	GRD	
100	13.33	GRD	
101	11.66	GRD	
102	1.292	GRD	
103	0.172	GRD	
104	0.283	GRD	
105	0	GRD	Highly fractured
106	0.301	GRD	
107	0.293	GRD	
108	0.222	GRD	
109	0.575	GRD	
110	0.484	GRD	
111	0.245	GRD	
112	0.412	GRD	
113	0.165	GRD	
114	0.136	GRD	
115	0	GRD	Highly fractured
116	0.136	GRD	
117	1.29	GRD	
118	13.54	GRD	
119	4.791	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	11.06	GRD	
121	14.91	GRD	
122	16.33	GRD	
123	9.745	GRD	
124	7.221	GRD	
125	10.13	GRD	
126	4.082	GRD	
127	4.95	GRD	
128	8.589	GRD	
129	0.569	GRD	
130	1.367	GRD	
131	1.867	GRD	
132	0.612	GRD	
133	0.286	GRD	
134	0.429	GRD	
135	0.218	GRD	
136	2.78	GRD	
137	16.44	GRD	
138	0.531	GRD	
139	2.421	GRD	
140	14.96	GRD	
141	12.58	GRD	
142	15.91	GRD	
143	12.41	GRD	
144	9.731	GRD	
145	16.75	GRD	
146	10.07	GRD	
147	10.61	GRD	
148	14.92	GRD	
149	1.843	GRD	
150	18.39	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
151	11.12	GRD	
152	3.36	GRD	
153	17.27	GRD	
154	1.779	GRD	
155	5.456	GRD	
156	17.42	GRD	
157	5.436	GRD	
158	5.718	GRD	
159	15.03	GRD	
160	8.873	GRD	
161	17.04	GRD	
162	0.4	GRD	
163	0.67	GRD	
164	0.498	GRD	
165	0.315	GRD	
166	4.817	GRD	
167	3.132	GRD	
168	0.388	GRD	
169	1.928	GRD	
170	2.715	GRD	
171	0.334	GRD	
172	0.258	GRD	
173	4.612	GRD	
174	0.706	GRD	
175	4.037	GRD	
176	3.946	GRD	
177	1.94	GRD	
178	0.365	GRD	
179	0.669	GRD	
180	0.31	GRD	
181	0.645	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
182	3.943	GRD	
183	14.5	GRD	
184	0.884	GRD	
185	9.651	GRD	
186	12.09	GRD	
187	11.8	GRD	
188	12.61	GRD	
189	13.58	GRD	
190	7.128	GRD	
191	17.67	GRD	
192	0.979	GRD	
193	1.375	GRD	
194	0.534	GRD	
195	0.479	GRD	
196	2.923	GRD	
197	0.634	GRD	
198	0.978	GRD	
199	15	GRD	
200	8.853	GRD	
201	0.746	GRD	
202	9.504	GRD	
203	15.35	GRD	
204	4.277	GRD	
205	0.58	GRD	
206	0.55	GRD	
207	0.399	GRD	
208	0.33	GRD	
209	0.4	GRD	
210	0.319	GRD	
211	0.561	GRD	
212	0.675	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
213	2.913	GRD	
214	8.152	GRD	
215	10.68	GRD	
216	0.967	GRD	
217	14.2	GRD	
218	14.14	GRD	
219	10.15	GRD	
220	8.832	GRD	
221	1.248	GRD	
222	0.532	GRD	
223	1.09	GRD	
224	0.267	GRD	
225	0.502	GRD	
226	16.08	GRD	
227	0.302	GRD	
228	0.274	GRD	
229	0.733	GRD	
230	0.944	GRD	
231	10.06	GRD	
232	11.06	GRD	
233	16.48	GRD	
234	16.88	GRD	
235	9.67	GRD	
236	17.35	GRD	
237	15.16	GRD	
238	8.098	GRD	
239	18.17	GRD	
240	2.873	GRD	
241	5.478	GRD	
242	9.239	GRD	
243	0.815	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
244	2.524	GRD	
245	11.47	GRD	
246	16.06	GRD	
247	0.783	GRD	
248	3.535	GRD	
249	1.277	GRD	
250	0.235	GRD	
251	0.608	GRD	
252	0.317	GRD	
253	0.192	GRD	
254	0.308	GRD	
255	0.192	GRD	
256	0.202	GRD	
257	0.214	GRD	
257	0.214	VEN	
258	0.147	VEN	
259	0.405	VEN	
260	1.475	GRD	
261	1.44	GRD	
262	1.105	GRD	
263	0.467	GRD	
264	6.113	GRD	
265	2.316	GRD	
266	2.789	GRD	
267	0.341	GRD	
268	0.287	GRD	
269	0.483	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-459

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593954	☐	19-036	Low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599235	☐	19-085	high grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593994	☐	19-089	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593011	☐	19-089	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593968	☐	19-080	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593946	☐	19-036	Low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593939	☐	19-080	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593929	☐	19-077	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593922	☐	19-077	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593026	☐	19-092	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593019	☐	19-089	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593980	☐	19-080	low grade	KL-STD6	☐	☐	☐
3.48	5.63	2.15	GRD	1.69	79	W593909	☐	19-077	low grade		☐	☐	☐
5.63	6.39	0.76	GRD	0.74	97	W593910	☐	19-077	low grade		☐	☐	☐
6.39	7.10	0.71	GRD	0.64	90	W593911	☐	19-077	low grade		☐	☐	☐
6.39	7.10	0.71	GRD	0.64	90	W593912	☐	19-077	low grade		☐	☐	☑
7.10	8.14	1.04	GRD	0.80	77	W593913	☐	19-077	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
8.14	8.84	0.70	GRD	0.65	93	W593914	☐	19-077	low grade		☐	☐	☐
8.84	10.44	1.60	GRD	1.29	81	W593915	☐	19-077	low grade		☐	☐	☐
17.57	18.57	1.00	GRD	1.00	100	W593916	☐	19-077	low grade		☐	☐	☐
18.57	19.12	0.55	GRD	0.53	96	W593917	☐	19-077	low grade		☐	☐	☐
19.12	19.55	0.43	GRD	0.43	100	W593918	☐	19-077	low grade		☐	☐	☐
19.55	20.73	1.18	GRD	1.12	95	W593919	☐	19-077	low grade		☐	☐	☐
20.73	21.45	0.72	GRD	0.68	94	W593920	☐	19-077	low grade		☐	☐	☐
21.45	22.72	1.27	GRD	1.25	98	W593921	☐	19-077	low grade		☐	☐	☐
22.72	23.29	0.57	GRD	0.57	100	W593923	☐	19-077	low grade		☐	☐	☐
23.29	24.00	0.71	GRD	0.68	96	W593924	☐	19-077	low grade		☐	☐	☐
24.00	25.91	1.91	GRD	1.76	92	W593925	☐	19-077	low grade		☐	☐	☐
25.91	26.60	0.69	GRD	0.68	99	W593926	☐	19-077	low grade		☐	☐	☐
26.60	27.55	0.95	GRD	0.94	99	W593927	☐	19-077	low grade		☐	☐	☐
27.55	28.33	0.78	GRD	0.63	81	W593928	☐	19-077	low grade		☐	☐	☐
28.33	29.31	0.98	GRD	0.92	94	W593930	☐	19-077	low grade		☐	☐	☐
29.31	30.05	0.74	GRD	0.74	100	W593931	☐	19-077	low grade		☐	☐	☐
30.05	31.05	1.00	GRD	0.98	98	W593932	☐	19-080	low grade		☐	☐	☐
40.00	41.15	1.15	GRD	1.10	96	W593933	☐	19-080	low grade		☐	☐	☐
41.15	42.17	1.02	GRD	0.97	95	W593934	☐	19-080	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
42.17	42.67	0.50	GRD	0.48	96	W593935	☐	19-080	low grade		☐	☐	☐
42.67	44.41	1.74	GRD	1.73	99	W593936	☐	19-080	low grade		☐	☐	☐
44.41	44.90	0.49	GRD	0.46	94	W593937	☐	19-080	low grade		☐	☐	☐
44.90	46.00	1.10	GRD	1.08	98	W593938	☐	19-080	low grade		☐	☐	☐
53.84	54.23	0.39	GRD	0.31	79	W593940	☐	19-080	low grade		☐	☐	☐
54.23	55.61	1.38	GRD	0.75	54	W593941	☐	19-080	low grade		☐	☐	☐
59.62	60.60	0.98	GRD	0.97	99	W593942	☐	19-080	low grade		☐	☐	☐
60.60	61.64	1.04	GRD	0.38	37	W593943	☐	19-080	low grade		☐	☐	☐
61.64	62.44	0.80	GRD	0.48	60	W593944	☐	19-080	low grade		☐	☐	☐
65.77	66.54	0.77	GRD	0.77	100	W593945	☐	19-036	Low grade		☐	☐	☐
66.54	67.06	0.52	GRD	0.51	98	W593947	☐	19-036	Low grade		☐	☐	☐
67.06	68.25	1.19	GRD	1.19	100	W593948	☐	19-036	Low grade		☐	☐	☐
68.25	69.00	0.75	GRD	0.75	100	W593949	☐	19-036	Low grade		☐	☐	☐
79.25	80.26	1.01	GRD	0.95	94	W593950	☐	19-036	Low grade		☐	☐	☐
84.35	84.93	0.58	GRD	0.53	91	W593951	☐	19-036	Low grade		☐	☐	☐
84.93	86.41	1.48	GRD	0.44	30	W593952	☐	19-036	Low grade		☐	☐	☐
86.41	88.00	1.59	GRD	1.50	94	W593953	☐	19-036	Low grade		☐	☐	☐
88.00	89.27	1.27	FLT	1.15	91	W593955	☐	19-036	Low grade		☐	☐	☐
89.27	90.75	1.48	FLT	1.33	90	W593956	☐	19-036	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
90.75	91.80	1.05	FLT	0.94	90	W593957	☐	19-080	low grade		☐	☐	☐
91.80	93.23	1.43	FLT	1.40	98	W593958	☐	19-080	low grade		☐	☐	☐
98.96	99.43	0.47	GRD	0.46	98	W593959	☐	19-080	low grade		☐	☐	☐
102.04	103.18	1.14	GRD	1.14	100	W593960	☐	19-080	low grade		☐	☐	☐
102.04	103.18	1.14	GRD	1.14	100	W593961	☐	19-080	low grade		☐	☑	☐
103.18	104.54	1.36	GRD	1.36	100	W593962	☐	19-080	low grade		☐	☐	☐
104.54	105.56	1.02	GRD	0.70	69	W593963	☐	19-080	low grade		☐	☐	☐
105.56	108.26	2.70	GRD	2.31	86	W593964	☐	19-080	low grade		☐	☐	☐
108.26	108.81	0.55	GRD	0.51	93	W593965	☐	19-080	low grade		☐	☐	☐
108.81	110.60	1.79	GRD	1.79	100	W593966	☐	19-080	low grade		☐	☐	☐
110.60	111.28	0.68	GRD	0.64	94	W593967	☐	19-080	low grade		☐	☐	☐
111.28	112.78	1.50	GRD	1.39	93	W593969	☐	19-080	low grade		☐	☐	☐
112.78	114.58	1.80	GRD	1.63	91	W593970	☐	19-080	low grade		☐	☐	☐
114.58	115.21	0.63	GRD	0.40	63	W593971	☐	19-080	low grade		☐	☐	☐
115.21	116.11	0.90	GRD	0.38	42	W593972	☐	19-080	low grade		☐	☐	☐
116.11	116.70	0.59	GRD	0.56	95	W593973	☐	19-080	low grade		☐	☐	☐
129.16	130.63	1.47	GRD	1.47	100	W593974	☐	19-080	low grade		☐	☐	☐
130.63	132.10	1.47	GRD	1.40	95	W593975	☐	19-080	low grade		☐	☐	☐
130.63	132.10	1.47	GRD	1.40	95	W593976	☐	19-080	low grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
132.10	132.62	0.52	GRD	0.52	100	W593977	☐	19-080	low grade		☐	☐	☐
132.62	134.53	1.91	GRD	1.91	100	W593978	☐	19-080	low grade		☐	☐	☐
153.16	153.92	0.76	GRD	0.72	95	W593979	☐	19-080	low grade		☐	☐	☐
161.31	163.53	2.22	GRD	1.95	88	W593981	☐	19-080	low grade		☐	☐	☐
163.53	164.24	0.71	GRD	0.70	99	W593982	☐	19-080	low grade		☐	☐	☐
164.24	164.59	0.35	VEN, GRD	0.35	100	W599233	☐	19-085	high grade		☐	☐	☐
164.59	164.94	0.35	VEN	0.35	100	W599234	☐	19-085	high grade		☐	☐	☐
164.94	166.84	1.90	VEN, GRD	1.87	98	W593983	☐	19-080	low grade		☐	☐	☐
166.84	168.22	1.38	GRD	1.38	100	W593984	☐	19-089	low grade		☐	☐	☐
168.22	168.58	0.36	GRD	0.35	97	W593985	☐	19-089	low grade		☐	☐	☐
168.58	171.00	2.42	GRD	2.31	95	W593986	☐	19-089	low grade		☐	☐	☐
171.00	172.03	1.03	GRD	1.01	98	W593987	☐	19-089	low grade		☐	☐	☐
171.00	172.03	1.03	GRD	1.01	98	W593988	☐	19-089	low grade		☐	☑	☐
172.03	172.70	0.67	GRD	0.67	100	W593989	☐	19-089	low grade		☐	☐	☐
172.70	173.74	1.04	GRD	1.03	99	W593990	☐	19-089	low grade		☐	☐	☐
173.74	175.00	1.26	GRD	1.25	99	W593991	☐	19-089	low grade		☐	☐	☐
175.00	176.43	1.43	GRD	1.42	99	W593992	☐	19-089	low grade		☐	☐	☐
176.43	177.31	0.88	GRD	0.88	100	W593993	☐	19-089	low grade		☐	☐	☐
177.31	177.66	0.35	GRD	0.32	91	W593995	☐	19-089	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
177.66	178.07	0.41	GRD	0.40	98	W593996	☐	19-089	low grade		☐	☐	☐
178.07	178.70	0.63	GRD	0.63	100	W593997	☐	19-089	low grade		☐	☐	☐
178.70	180.18	1.48	GRD	1.37	93	W593998	☐	19-089	low grade		☐	☐	☐
180.18	181.00	0.82	GRD, GRD	0.81	99	W593999	☐	19-089	low grade		☐	☐	☐
181.00	181.48	0.48	GRD	0.47	98	W599236	☐	19-085	high grade		☐	☐	☐
181.48	181.91	0.43	GRD	0.34	79	W599237	☐	19-085	high grade		☐	☐	☐
181.91	182.25	0.34	GRD	0.30	88	W594000	☐	19-089	low grade		☐	☐	☐
181.91	182.25	0.34	GRD	0.30	88	W593001	☐	19-089	low grade		☐	☐	☑
182.25	184.15	1.90	GRD	1.88	99	W593002	☐	19-089	low grade		☐	☐	☐
189.32	189.68	0.36	GRD	0.36	100	W593003	☐	19-089	low grade		☐	☐	☐
193.31	194.64	1.33	GRD	1.32	99	W593004	☐	19-089	low grade		☐	☐	☐
194.64	195.24	0.60	GRD	0.60	100	W593005	☐	19-089	low grade		☐	☐	☐
195.24	197.10	1.86	GRD	1.84	99	W593006	☐	19-089	low grade		☐	☐	☐
197.10	198.76	1.66	GRD	1.63	98	W593007	☐	19-089	low grade		☐	☐	☐
205.74	206.85	1.11	GRD	1.10	99	W593008	☐	19-089	low grade		☐	☐	☐
206.85	209.58	2.73	GRD	2.73	100	W593009	☐	19-089	low grade		☐	☐	☐
209.58	210.04	0.46	GRD	0.45	98	W593010	☐	19-089	low grade		☐	☐	☐
210.04	211.08	1.04	GRD	0.96	92	W593012	☐	19-089	low grade		☐	☐	☐
211.08	211.82	0.74	GRD	0.66	89	W593013	☐	19-089	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
216.00	216.53	0.53	GRD	0.51	96	W593014	☐	19-089	low grade		☐	☐	☐
223.94	225.48	1.54	GRD	1.53	99	W593015	☐	19-089	low grade		☐	☐	☐
225.48	227.20	1.72	GRD	1.70	99	W593016	☐	19-089	low grade		☐	☐	☐
227.20	229.28	2.08	GRD	2.03	98	W593017	☐	19-089	low grade		☐	☐	☐
229.28	230.39	1.11	GRD	1.08	97	W593018	☐	19-089	low grade		☐	☐	☐
246.89	248.03	1.14	GRD	1.14	100	W593020	☐	19-089	low grade		☐	☐	☐
248.03	249.37	1.34	GRD	1.33	99	W593021	☐	19-089	low grade		☐	☐	☐
249.37	250.32	0.95	GRD	0.94	99	W593022	☐	19-089	low grade		☐	☐	☐
250.32	251.60	1.28	GRD	1.17	91	W593023	☐	19-089	low grade		☐	☐	☐
251.60	252.64	1.04	GRD, GRD	1.03	99	W593024	☐	19-092	low grade		☐	☐	☐
252.64	254.69	2.05	GRD	2.03	99	W593025	☐	19-092	low grade		☐	☐	☐
254.69	255.89	1.20	GRD	1.09	91	W593027	☐	19-092	low grade		☐	☐	☐
255.89	257.00	1.11	GRD	1.05	95	W593028	☐	19-092	low grade		☐	☐	☐
257.00	257.98	0.98	GRD, VEN	0.98	100	W593029	☐	19-092	low grade		☐	☐	☐
257.98	259.08	1.10	VEN	1.09	99	W599238	☐	19-085	high grade		☐	☐	☐
259.08	261.11	2.03	GRD, VEN	2.02	100	W593030	☐	19-092	low grade		☐	☐	☐
261.11	262.13	1.02	GRD	1.01	99	W593031	☐	19-092	low grade		☐	☐	☐
261.11	262.13	1.02	GRD	1.01	99	W593032	☐	19-092	low grade		☐	☐	☑
266.00	268.12	2.12	GRD	2.03	96	W593033	☐	19-092	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
268.12	269.75	1.63	GRD	1.34	82	W593034	☐	19-092	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	3.48			☐	☐	☐	☐	
19-089	W593011	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-089	W593019	0.00	0.00	1.69	740	☐	☐	☐	☑ KL-STD6	std KL 6
19-089	W593994	0.00	0.00	1.47	160	☐	☐	☐	☑ ME-16	STD ME 16
19-036	W593946	0.00	0.00	1.70	400	☐	☐	☐	☑ KL-STD6	STD-KL-6
19-036	W593954	0.00	0.00	0.29	630	☐	☐	☐	☑ ME-6	STD-ME-6
19-080	W593968	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
19-080	W593980	0.00	0.00	1.83	110	☐	☐	☐	☑ KL-STD6	STD KL 6
19-080	W593939	0.00	0.00	0.31	600	☐	☐	☐	☑ ME-6	std ME 6
19-085	W599235	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-092	W593026	0.00	0.00	1.58	110	☐	☐	☐	☑ ME-16	STD ME 16
19-077	W593922	0.00	0.00	1.61	110	☐	☐	☐	☑ ME-16	std ME 16
19-077	W593929	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-077	W593909	3.48	5.63	0.00	1220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-077	W593910	5.63	6.39	0.01	550	☐	☐	☐	☐	
19-077	W593911	6.39	7.10	0.01	2130	☐	☐	☐	☐	
19-077	W593912	6.39	7.10	0.01	2310	☐	☑	☐	☐	coarse dup
19-077	W593913	7.10	8.14	0.00	2610	☐	☐	☐	☐	
19-077	W593914	8.14	8.84	0.00	2710	☐	☐	☐	☐	
19-077	W593915	8.84	10.44	0.00	2390	☐	☐	☐	☐	
		10.44	17.57			☐	☐	☐	☐	
19-077	W593916	17.57	18.57	0.00	2360	☐	☐	☐	☐	
19-077	W593917	18.57	19.12	0.00	2140	☐	☐	☐	☐	
19-077	W593918	19.12	19.55	0.00	2700	☐	☐	☐	☐	
19-077	W593919	19.55	20.73	0.00	1710	☐	☐	☐	☐	
19-077	W593920	20.73	21.45	0.00	2130	☐	☐	☐	☐	
19-077	W593921	21.45	22.72	0.00	2120	☐	☐	☐	☐	
19-077	W593923	22.72	23.29	0.00	2370	☐	☐	☐	☐	
19-077	W593924	23.29	24.00	0.00	2360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-077	W593925	24.00	25.91	0.00	2490	☐	☐	☐	☐	
19-077	W593926	25.91	26.60	0.00	2210	☐	☐	☐	☐	
19-077	W593927	26.60	27.55	0.00	2340	☐	☐	☐	☐	
19-077	W593928	27.55	28.33	0.00	1640	☐	☐	☐	☐	
19-077	W593930	28.33	29.31	0.00	2280	☐	☐	☐	☐	
19-077	W593931	29.31	30.05	0.00	2300	☐	☐	☐	☐	
19-080	W593932	30.05	31.05	0.00	2360	☐	☐	☐	☐	
		31.05	40.00			☐	☐	☐	☐	
19-080	W593933	40.00	41.15	0.00	2320	☐	☐	☐	☐	
19-080	W593934	41.15	42.17	0.00	2350	☐	☐	☐	☐	
19-080	W593935	42.17	42.67	0.00	2320	☐	☐	☐	☐	
19-080	W593936	42.67	44.41	0.00	2280	☐	☐	☐	☐	
19-080	W593937	44.41	44.90	0.00	2520	☐	☐	☐	☐	
19-080	W593938	44.90	46.00	0.00	2450	☐	☐	☐	☐	
		46.00	53.84			☐	☐	☐	☐	
19-080	W593940	53.84	54.23	0.03	3410	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-080	W593941	54.23	55.61	0.00	2120	☐	☐	☐	☐	
		55.61	59.62			☐	☐	☐	☐	
19-080	W593942	59.62	60.60	0.00	2140	☐	☐	☐	☐	
19-080	W593943	60.60	61.64	0.00	2170	☐	☐	☐	☐	
19-080	W593944	61.64	62.44	0.00	2180	☐	☐	☐	☐	
		62.44	65.77			☐	☐	☐	☐	
19-036	W593945	65.77	66.54	0.00	2490	☐	☐	☐	☐	
19-036	W593947	66.54	67.06	0.02	1550	☐	☐	☐	☐	
19-036	W593948	67.06	68.25	0.00	2420	☐	☐	☐	☐	
19-036	W593949	68.25	69.00	0.00	2580	☐	☐	☐	☐	
		69.00	79.25			☐	☐	☐	☐	
19-036	W593950	79.25	80.26	0.00	3440	☐	☐	☐	☐	
		80.26	84.35			☐	☐	☐	☐	
19-036	W593951	84.35	84.93	0.22	820	☐	☐	☐	☐	
19-036	W593952	84.93	86.41	0.01	2420	☐	☐	☐	☐	
19-036	W593953	86.41	88.00	0.00	2270	☐	☐	☐	☐	
19-036	W593955	88.00	89.27	0.00	2270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-036	W593956	89.27	90.75	0.01	2260	☐	☐	☐	☐	
19-080	W593957	90.75	91.80	0.02	1070	☐	☐	☐	☐	
19-080	W593958	91.80	93.23	0.08	850	☐	☐	☐	☐	
		93.23	98.96			☐	☐	☐	☐	
19-080	W593959	98.96	99.43	0.00	2300	☐	☐	☐	☐	
		99.43	######			☐	☐	☐	☐	
19-080	W593960	102.04	103.18	0.00	2640	☐	☐	☐	☐	
19-080	W593961	102.04	103.18	0.00	2450	☑	☐	☐	☐	1/4 duplicate
19-080	W593962	103.18	104.54	0.01	1460	☐	☐	☐	☐	
19-080	W593963	104.54	105.56	0.01	2250	☐	☐	☐	☐	
19-080	W593964	105.56	108.26	0.00	1840	☐	☐	☐	☐	
19-080	W593965	108.26	108.81	0.00	5040	☐	☐	☐	☐	
19-080	W593966	108.81	110.60	0.03	3030	☐	☐	☐	☐	
19-080	W593967	110.60	111.28	0.03	1740	☐	☐	☐	☐	
19-080	W593969	111.28	112.78	0.02	2520	☐	☐	☐	☐	
19-080	W593970	112.78	114.58	0.02	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-080	W593971	114.58	115.21	0.02	1810	☐	☐	☐	☐	
19-080	W593972	115.21	116.11	0.02	7530	☐	☐	☐	☐	
19-080	W593973	116.11	116.70	0.01	3910	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-080	W593974	129.16	130.63	0.00	3260	☐	☐	☐	☐	
19-080	W593975	130.63	132.10	0.00	2310	☐	☐	☐	☐	
19-080	W593976	130.63	132.10	0.00	2350	☐	☑	☐	☐	
19-080	W593977	132.10	132.62	0.00	1730	☐	☐	☐	☐	
19-080	W593978	132.62	134.53	0.00	2450	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-080	W593979	153.16	153.92	0.00	2390	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-080	W593981	161.31	163.53	0.00	2170	☐	☐	☐	☐	
19-080	W593982	163.53	164.24	0.00	1850	☐	☐	☐	☐	
19-085	W599233	164.24	164.59	0.71	530	☐	☐	☐	☐	
19-085	W599234	164.59	164.94	0.12	870	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-080	W593983	164.94	166.84	0.01	2230	☐	☐	☐	☐	
19-089	W593984	166.84	168.22	0.00	3110	☐	☐	☐	☐	
19-089	W593985	168.22	168.58	0.01	1890	☐	☐	☐	☐	
19-089	W593986	168.58	171.00	0.00	2410	☐	☐	☐	☐	
19-089	W593987	171.00	172.03	0.00	2770	☐	☐	☐	☐	
19-089	W593988	171.00	172.03	0.01	2100	☑	☐	☐	☐	1/4 dup
19-089	W593989	172.03	172.70	0.03	1900	☐	☐	☐	☐	
19-089	W593990	172.70	173.74	0.00	2320	☐	☐	☐	☐	
19-089	W593991	173.74	175.00	0.00	1870	☐	☐	☐	☐	
19-089	W593992	175.00	176.43	0.00	2400	☐	☐	☐	☐	
19-089	W593993	176.43	177.31	0.00	2330	☐	☐	☐	☐	
19-089	W593995	177.31	177.66	0.00	2210	☐	☐	☐	☐	
19-089	W593996	177.66	178.07	0.11	1250	☐	☐	☐	☐	
19-089	W593997	178.07	178.70	0.01	1440	☐	☐	☐	☐	
19-089	W593998	178.70	180.18	0.00	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-089	W593999	180.18	181.00	0.02	1600	☐	☐	☐	☐	
19-085	W599236	181.00	181.48	0.59	780	☐	☐	☐	☐	
19-085	W599237	181.48	181.91	13.15	430	☐	☐	☐	☐	
19-089	W593001	181.91	182.25	0.13	1980	☐	☑	☐	☐	coarse dup
19-089	W594000	181.91	182.25	0.11	1960	☐	☐	☐	☐	
19-089	W593002	182.25	184.15	0.00	2410	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593003	189.32	189.68	0.04	1090	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593004	193.31	194.64	0.01	2500	☐	☐	☐	☐	
19-089	W593005	194.64	195.24	0.03	1520	☐	☐	☐	☐	
19-089	W593006	195.24	197.10	0.00	2060	☐	☐	☐	☐	
19-089	W593007	197.10	198.76	0.00	2050	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593008	205.74	206.85	0.00	2620	☐	☐	☐	☐	
19-089	W593009	206.85	209.58	0.00	2580	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-089	W593010	209.58	210.04	0.01	1530	☐	☐	☐	☐	
19-089	W593012	210.04	211.08	0.00	2250	☐	☐	☐	☐	
19-089	W593013	211.08	211.82	0.00	2330	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593014	216.00	216.53	0.00	3790	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593015	223.94	225.48	0.00	1600	☐	☐	☐	☐	
19-089	W593016	225.48	227.20	0.00	2460	☐	☐	☐	☐	
19-089	W593017	227.20	229.28	0.00	2260	☐	☐	☐	☐	
19-089	W593018	229.28	230.39	0.00	2150	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-089	W593020	246.89	248.03	0.00	2290	☐	☐	☐	☐	
19-089	W593021	248.03	249.37	0.00	1990	☐	☐	☐	☐	
19-089	W593022	249.37	250.32	0.01	1590	☐	☐	☐	☐	
19-089	W593023	250.32	251.60	0.00	2320	☐	☐	☐	☐	
19-092	W593024	251.60	252.64	0.00	2050	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-092	W593025	252.64	254.69	0.01	1160	☐	☐	☐	☐	
19-092	W593027	254.69	255.89	0.03	1250	☐	☐	☐	☐	
19-092	W593028	255.89	257.00	0.01	1260	☐	☐	☐	☐	
19-092	W593029	257.00	257.98	0.00	2700	☐	☐	☐	☐	
19-085	W599238	257.98	259.08	0.83	770	☐	☐	☐	☐	
19-092	W593030	259.08	261.11	0.00	2090	☐	☐	☐	☐	
19-092	W593031	261.11	262.13	0.00	3920	☐	☐	☐	☐	
19-092	W593032	261.11	262.13	0.00	3720	☐	☑	☐	☐	coarse dup
		######	######			☐	☐	☐	☐	
19-092	W593033	266.00	268.12	0.00	2470	☐	☐	☐	☐	
19-092	W593034	268.12	269.75	0.00	2470	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.60	5.70	VN	37	35	NUL	4	2-5 mm, quartz-carbonate veinlets inpervasive oxidized, clay altered, argillic granodiorite interval			
5.85	5.90	VN	37	80	NUL	1	1 cm, carbonate veinlets, locally brecciating, oxidized, clay altered, moderately argillic, propylitic granodiorite			
6.64	6.66	GO	34	80	NUL	1	3 cm, oxidized, clayey, gouged seam in argillic/propylitic granodiorite			
6.80	6.90	VN	37	60	NUL	2	2 mm, quartz-carbonate veinlets in argillic/propylitic altered granodiorite			
11.10	11.19	VN	37	30	NUL	1	1 cm, quartz-carbonate veinlet in oxidized, clay altered, argillic granodiorite alteration halo within unaltered grd unit			
11.64	11.67	VN	37	60	NUL	3	2-3 mm, quartz-carbonate veinlet in oxidized, clay altered, argillic granodiorite halo within unaltere granodiorite zone			
13.31	13.37	VN	37	30	NUL	1	1 cm, carbonate veinlet in trace potassic, propylitic, relatively unaltered granodiorite			
14.09	14.16	VN	37	80	NUL	2	2-3 mm, carbonate veinlets locally brecciating unaltered grd host			
15.14	15.17	VN	37	60	NUL	1	4mm, quartz-carbonate veinlet within propylitic alteration halo in unaltered granodiorite unit			
16.88	16.92	VN	37	60	NUL	1	4 mm, quartz-carbonate veinlet with clay altered argillic, alteration halo within unaltered granodiorite interval			
18.70	18.80	VN	37	40	NUL	1	7 mm, oxidized, clay altered, quartz-carbonate veinlets in moderately argillic granodiorite			
19.25	19.33	VN	37	75	NUL	2	6mm-1cm, quartz-carbonate vein in moderately argillic granodiorite interval. Dark red, dendritic inclusions occur within interval			
19.40	19.45	VN	37	40	NUL	1	6 mm, quartz carbonate veinlets in argillic, potassic, clay altered, oxidized granodiorite interval			
19.55	19.65	VN	37	40	NUL	1	1 cm, oxidized, quartz-carbonate veinlets in clay altered , argillic granodiorite interval			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
20.70	20.80	VN	37	80	NUL	3	3-5 mm, quartz-carbonate veinlets in moderately argillic, trace potassic granodiorite			
21.00	21.34	VN	37	40	NUL	6	2-3mm, oxidized, brownish, quartz-carbonate veinlets in moderately argillic granodiorite			
23.14	23.10	VN	37	80	NUL	2	2-4mm , quartz-carbonate veinlets in oxidized, clay altered, argillic granodiorite interval			
23.85	23.90	VN	37	75	NUL	2	3 mm, brown, oxidized, quartz-carbonate veinlets in argillic altered granodiorite.			
26.00	26.17	VN	37	65	NUL	3	2-4 mm, quartz-carbonate veinlets in argillic alteration halo within unaltered granodiorite unit.			
26.70	26.90	GO	34	-	NUL	1	light brown,yellows gouged seam in relatively unaltered granodiorite interval			
27.93	28.10	VN	37	40	NUL	5	4mm-1 cm, quartz-carbonate stringer veinlets, locally hosting trace disseminated pyrite. Pyrite is locally hosted within dark grey, fine grained bands within vein section. Calcite appears tolocally brecciate and crosscut through veinlets and argillic/propylitic granodiorite.			
29.43	29.84	VT	37	50	NUL	4	2-5 mm banded quartz/carbonate veinlets (50TAC) hosted in argilic altered granodiorite. No mineralization.			
38.13	38.22	VT	37	30	NUL	1	4mm quartz veinlet hosted in argilic altered granodiorite. Minor brecciated texture. No mineralization			
42.24	42.27	VN	37	80	NUL	4	3-6mm, quartz-carbonate veinlet in oxidized, clay altered, moderately argillic, trace potassic granodiorite. Veinlets are beige toned ,and contain small vugs infilled with darkred, oxidized material			
46.09	46.12	VN	37	60	NUL	2	3-4mm, quartz-carbonate veinlets in unaltered granodiorit			
46.90	47.12	VN	37	80	NUL	2	3-5mm, quartz-carbonate veinlet in unaltered granodiorite			
52.60	52.75	DY	37	25	NUL	2	1 cm, light pink, fine grained aplite dyke intrusion in unaltere granodiorite. Two dyke intrusions, a brighter pink one and a duller one are found next to each other			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
52.72	52.74	VN	37	60	NUL	2	4-6 mm, quartz carbonate veinlets in relatively unaltered granodiorite.			
53.60	53.70	DY	37	20	NUL	1	4mm, light pink, fine grained aplite dyke intrusion within unaltered granodiorite			
54.00	54.10	VN	37	80	NUL	4	oxidized-clay altered , quartz-carbonate veinlets, locally hosting, trace disseminated pyrite. Veinlets appear to be locally brecciated by dark red, oxidized, bands			
54.10	54.38	DY	37	20	NUL	1	4 mm, light pink aplite dyke intrusion. Intrusion is locally crosscut by a 4 mm, steeper (60 degrees TcA0 aplite dyke intrusion in altered grd interval.			
	54.20	VN	37	80	NUL	1	2 mm, quartz -carbonate veinlet, hosting trace pyrite and locally ofsetting and crosscutting both light pink, fine grained, aplite dyke intrusions in altered granodiorite interval			
	54.20	DY	37	60	NUL	1	4mm, light pink, aplite dyke intrusion locally crosscutting a low angle (20 degree) aplite dyke intrusion in oxidized, clay altered, moderately argillic, trace potassic-propylitic granodiorite			
61.00	61.50	VN	37	60	NUL	3	2-5 mm, quartz-carbonate veinlets in oxidized, clay altered, argillic granodiorite.			
64.24	64.28	VT	37	65	NUL	1	4 mm, banded quartz/carbonate veinlet (65TAC) hosted in trace potassic/local clay altered and oxydized granodiorite. Trace of banded pytrite in the veinlet.			
								Py	1	BN
83.51	86.27	VT	37	70	NUL	15	Two 4-6 mm carbonate veinlets (60 and 25TAC) and carbonate stringers (80TAC) hosted in strong propylitic/argilic/trace potassic altered granodiorite. Minor quartz. No mineralization.			
90.95	91.17	VT	37	50	NUL	5	Three carbonate/quartz veinlets (50TAC) crosscutting tourmaline veinlets-like at opposite angle (60TAC) hosted in strong argilic/weak propilitic altered granodiortite. The carbonate/quartz veinlets are banded, minor smokey-quartz. The tourmaline veinlets have an offset from carbonate infilled joints. Disseminated pyrite in and around the tourmaline veinlets. Banded pyrite (4 mm) associated with the carbonate/quartz veinlet.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	DI
								Py	5	BN
98.96	99.20	VN	37	30	NUL	7	2-3 mm, slightly deformed (weakly sheared(?)), quartz-carbonate veinlets in potassic/propylitic granodiorite interval			
103.57	104.50	VN	37	40	NUL	5	1-2 cm,quartz veins in silica flooded, strongly propylitic granodiorite. Veins locally crosscut each other and appear as chaotic vein inclusions into strongly propylity granodiorite. Black, fine grained, veinlets interstitially infill silica rich zones and locally brecciate host granodiorite.			
105.16	105.66	GO	34	-	NUL	1	10 cm, light grey/green, gouged, brecciated seam in strongly propylitic granodiorite interval.			
107.69	107.78	VN	37	30	NUL	2	4-7mm, quartz-carbonate veinlets in strongly propylitic granodiorite			
109.45	109.55	VN	37	20	NUL	1	4 mm, quartz-carbonate veinlet locally hosting trace pyrite in strongly propylitic granodiorite.			
110.72	111.05	GO	34	--	NUL	1	gouged , clayey ,brecciated seam in argillic granodiorite			
115.70	116.00	VN	37	-	NUL	1	oxidized, clay altered, gouged, vein zone locally hosting disseminated pyrite in light-grey matrix.			
121.68	121.70	VN	37	55	NUL	1	3 mm, hematite infilled, quartz-carbonate veinlet locally hosting blebby pyrite in weakly potassic, pervasively hematite altered granodiorite			
124.42	124.50	VN	37	20	NUL	1	dark, fine grained, quartz-arbonate veinlet crosscut by 80 degree TCA 3mm, carbonate veinlet in weakly potassic, hematite altered granodiorite.			
125.75	126.00	VN	37	35	NUL	4	2-4 mm, carbonate veinlets in potassic, pervasively hematite altered granodiorite.			
129.38	129.45	VN	37	60	NUL	2	1-3mm, veinlets containing specular hematite and tabular, black magnetite crystals within a pervasively hematitic granodiorite interval			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
132.20	132.63	DY	37	20	NUL	4	5 mm redish-brown, aplite dyke (70TAC) crosscuts by carbonate veinlets hosted in argilic/weak propilitic and potassic altered granodiorite. The dyke has some offset from joints. Minor quartz grains in the banded veinlets. No mineralization.			
132.24	132.28	VN	37	75	NUL	2	3-6 mm, quartz-carbonate veinlet, locally hosting trace pyrite in potassic, trace propylitic,hematite oxidized granodiorite. Veinlets locally crosscut through a 35 degrees, dark quartz veinlet .			
132.40	132.50	DY	37	25	NUL	2	5-7 mm, light pink, fine grained aplite dyke intrusions loally offset and crosscut by fracturing and quartz-carbonate veinlets within potassic/argillic granodiorite			
133.10	133.17	SH	81	30	NUL	1	gouged seam within weakly sheared, hematite altered, potassic granodiorite			
133.40	133.49	VN	37	30	NUL	4	4-7 mm, slightly deformed (weakly sheared) quartz-carbonate veinlets locally hosting tabular magnetite crystals and trace pyrite.			
134.09	134.10	VN	37	80	NUL	1	5 mm, quartz veinlet locally hosting trace pyrite and hematite within moderately propylitic granodiorite			
134.40	134.51	VN	37	70	NUL	5	4mm-1cm, quartz-carbonate veinlets locally hosting trace pyrite and hematite ; as partiall infill within vein section, in potassic-propylitic altered granodiorite. Dark grey, veinlet is locally offset by calcite infilled fractures in granodiorite interval.			
134.43	134.53	VT	37	60	NUL	2	2 cm quartz vein (60TAC) and 2-5 mm quartz/carbonate veinlet hosted in argilic/propylitic granodiorite. Veinlet has minor smokey-quartz and carbonate banded with chlorite, and has an offset from a joint. Trace of pyrite in the vein.			
								Py	1	BL
136.11	136.15	VN	37	70	NUL	1	15 mm milky quartz vein hosted in argilic/propylitic altered granodiorite. Blebby-like quartz with minor smokey-quartz, banded with chlorite. Red iron stain (hematite) and trace of pyrite.			
								Py	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
138.91	139.03	DY	37	50	NUL	1	7 cm pale brownish-red aplite dyke cutting through trace of potassic/argilic altered granodiorite. Fine grained dotted with red iron stain. Disseminated pyrite. Slightly magnetic.			
								Py	1	DI
139.30	139.39	VN	37	45	NUL	1	1 cm quartz/carbonate vein hosted in potassic/weak argilic altered granodiorite. Minor banded texture. Blebby specular hematite along the vein border.			
								He	1	BL
140.21	140.35	DY	37	50	NUL	2	5 mm redish-brown aplite dyke (50TAC) cutting through weak argilic altered granodiorite. Minor banded texture in the dyke. Two clay infilled joints at 80TAC are proximal to the dyke, hosting blebby pyrite up to 3 mm. No mineralization in the dyke.			
								Py	1	BL
150.75	150.84	ST		50	NUL	1	1-2 mm banded smokey-quartz stringers hosted in argilic/weak propylitic altered granodiorite. Banded hematite. Blebby specular hematite. Blebby pyrite.			
								He	1	BL
								Py	1	BL
								He	2	BN
153.70	153.76	VN	37	80	NUL	1	2 cm banded carbonate/quartz vein hosted in strong propylitic halo (5 cm) of argilic/weak potassic altered granodiorite. Minor smokey-quartz. Minor colloform texture. Local brecciated texture. No mineralization.			
156.44	156.47	VT	37	65	NUL	1	1 cm banded carbonate/quartz veinlet hosted in 4 cm potassic alteration halo grading to argilic to weak argilic altered granodiorite. Minor smokey-quartz bands. No mineralization.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
157.30	158.66	ST		50	NUL	8	Fine banded chlorite-rich stringers (50TAC) and banded quartz/carbonate stringers at opposite angle hosted in weak argilic altered granodiorite. Pervasive redish-brown iron stain in the host rock. Serie of joints associated with the chlorite-rich stringers shows sheared marks observed in the micaceous texture. Minor carbonate associated to the chlorite-rich stringers, and clusters of a silvery colored basal cleavage mineral (mica?) with no strike. Blebby pyrite.			
								Py	1	BL
162.66	162.59	VT	37	60	NUL	2	2-5 mm banded quartz/carbonate veinlets hosted in 15 cm strong argilic/weak propylitic altered granodiorite halo grading to a lesser altered host rock on each side of the veinlets area. Minor smokey-quartz bands. Pyrite stringers and blebby pyrite is observed.			
168.22	168.55	VT	37	45	NUL	3	2-5 mm banded carbonate/quartz veinlets hosted in a weak argilic altered granodiorite. Graded halo on each sides of the veinlets from strong propylitic to strong argilic altered host rock. Minor smokey quartz. Colloform texture. Disseminated pyrite throughout the alteration halo.			
								Py	3	DI
171.00	172.00	ST		35	NUL	10	1-2 mm chlorite-rich stringers at 35TAC hosted in strong argilic/local propylitic altered granodiorite with a pervasive redish hematite stain. Minor banded carbonate. Banded hematite. Blebby pyrite.			
								He	2	BN
								Py	1	BL
177.40	177.50	VT	37	45	NUL	2	2 mm banded smokey-quartz/carbonate veinlets (45TAC) hosted in strong argilic/propylitic altered granodiorite. Local general redish iron stain. Minor common quartz, chlorite-rich veinlets border with red hematite stain. The veinlets have an offset from a joint and an other from a carbonate/quartz stringers at 60TAC.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
178.22	178.29	VT	37	60	NUL	2	3 mm banded quartz/carbonate veinlets hosted in strong propylitic/argilic altered granodiorite. Very fine grained disseminated pyrite associated with the discontinuous chlorite-rich fine band.			
								Py	0.5	DI
184.18	184.29	VT	37	50	NUL	2	2-5 mm quartz/carbonate veinlet hosted in weak propylitic altered granodiorite. Homogeneous stringers-like veinlets. No mineralization.			
189.52	189.62	VN	37	50	NUL	1	2 cm banded quartz/carbonate vein (50TAC) hosted in strong propylitic/potassic/weak argilic altered granodiorite. 2 cm halo on each side of the vein shows strong proximal propylitic alteration grading to 20 cm of potassic/argilic alteration of the host rock. Minor smokey-quartz. Blebby pyrite disseminated along the smokey-quartz/chlorite bands.			
								Py	1	BL
192.37	192.73	DY	37	50	NUL	2	10 cm redish-brown aplite dyke cuts through a halo (40 cm) of strong argilic/weak potassic altered granodiorite grading to a lesser altered host rock. A 10 mm quartz/carbonate veinlet crosscuts the top edge of the main dyke, and 5 mm redish-brown aplite dyke is observed 17 cm lower. No mineralization.			
195.60	195.68	VN	37	60	NUL	1	2 cm banded carbonate/quartz vein hosted in argilic/propylitic altered granodiorite. Brecciated texture, local vuggy texture and minor colloform texture. The vein is crosscuted by clay infilled joints. No mineralization.			
196.25	196.40	VT	37	50	NUL	1	5 mm quartz veinlet hosted in strong argilic/potassic altered granodiorite. The alteration halo (4 cm) around the veinlet grades to a very weak argilic altered granodiorite. Minor banded texture, minor carbonate. No mineralization.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
198.12	198.77	VT	37	15	NUL	3	5 mm specular hematite/quartz veinlet (15TAC) and 3 mm clay/carbonate veinlet hosted in argilic/weak potassic altered granodiorite. A 3 mm banded specular hematite/quartz/carbonate veinlet has dislocated the specular/quartz veinet, and also has an offset from the clay/carbonate veinlet. Specular hematite/quartz/carbonate stringers (50TAC) are observed along 40 cm of the hanging wall of the main veinlets as well as 10 cm of brecciated host rock by clay infilled joints.			
								He	10	BN
200.94	201.36	VN	37	70	NUL	2	10-20 mm banded quartz/carbonate/smokey-quartz vein (70TAC) hosted in argilic/weak potassic altered granodiorite. Banded redish iron stain. Specular hematite in fine band.			
								He	1	BN
201.60	202.36	VT	37	70	NUL	3	2-5 mm quartz/carbonate veinlets (70TAC) hosted in weak argilic/weak potassic altered granodiorite. 2 cm halo of propylitic alteration around the veinlets. No mineralization.			
205.90	206.00	VN	37	40	NUL	1	1 cm quartz vein (40TAC) hosted in propylitic altered granodiorite. Minor banded carbonate along the vein border. No mineralization.			
206.46	206.60	VT	37	20	NUL	1	5 mm banded quartz/carbonate/smokey-quartz veinlet hosted in strong propylitic altered granodiorite. Local redish iron stain. Blebby pyrite.			
								Py	1	BL
207.60	207.80	VT	37	20	NUL	2	5 mm smokey-quartz/carbonate veinlets hosted in propylitic/ weak potassic altered granodiorite. Slightly banded veinlets with minor milky-quartz. No mineralization.			
208.00	209.20	VT	37	40	NUL	2	5 mm smokey-quartz veinlets hosted in propylitic/potassic altered granodiorite. Banded veinlets alternate with minor carbonate and minor milky-quartz, with a fine chlorite border. Blebby and disseminated pyrite.			
								Py	0.5	DI
								Py	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
211.66	211.74	VN	37	25	NUL	2	2 cm banded quartz vein (25TAC) and 3 mm smokey-quartz veinlets hosted in propylitic/weak potassic altered granodiorite. Minor carbonate and minor red hematite stain in the vein. 7mm specular hematite rich band is hosted in the quartz vein, along with blebby specular hematite in the vein and veinlets. Minor blebby pyrite present.			
								Py	1	BL
								He	2	BL
								He	8	BN
212.71	212.96	VT	37	60	NUL	4	2-5 mm carbonate veinlet/stringers (60/40TAC) hosted in altered granodiorite. 10 cm halo on each side of the veinlet shows strong proximal propylitic alteration grading to potassic alteration of the host rock. No mineralization.			
216.23	216.40	DY	37	75	NUL	2	10 mm aplite dyke (75TAC) cutting through argilic/weak propylitic altered granodiorite. 11 cm down the dyke, there is a 5 mm brecciated quartz veinlet (50TAC). The fine grained dyke has an undulating sharp contact between beige-brown and medium-brown color. Minor carbonate clast in the veinlet and smokey-quartz border. Disseminated pyrite at the veinlet border and in two carbonate stringers crosscutting the veinlet.			
								Py	1	DI
217.61	218.38	VT	37	50	NUL	4	3 mm carbonate veinlet and 1 mm carbonate stringers hosted in weak argilic altered granodiorite. Minor smokey-quartz in the brecciated veinlet. Banded texture is observed from the stringer close to the veinlet. Stringers have black bands locally. No mineralization.			
								Py	1	BL
								Py	1	BN
221.40	221.50	VN	37	50	NUL	1	4 mm, dark grey hematite altered veinlet in moderate argillic-potassic granodiorite			
227.60	227.75	VN	37	80	NUL	2	5-7 mm, quartz-carbonate veinlets in argillic-potassic granodiorite			
232.00	233.40	VN	37	60	NUL	4	4-6 mm, quartz-carbonate veinlets in relatively unaltered granodiorite . Small 2-3 cm, argillic-potassic alteration halos are observed near veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
236.00	240.00	VN	37	45	NUL	5	2-5 mm, dark grey veinlets locally hosting trace pyrite within a strongly propylitic alteration halo (2cm alteration halo) on unaltered granodiorite			
243.63	243.68	VN	37	60	NUL	3	3-5mm , quartz-carbonate veinlets in moderately argillic-trace propylitic granodiorite interval			
244.00	244.30	VN	37	20	NUL	2	3-6 mm, quartz-carbonate veinlets containing hematite and trace magnetite in moderately argillic, trace potassic granodiorite			
247.55	247.60	VN	37	50	NUL	2	2-6 mm, quartz veinlets locally hosting magnetite and trae pyrite in propylitic-argillic altered granodiorite			
250.00	250.32	GO	34	25	NUL	1	gouged brecciated seam propylitic altered granodiorite			
252.54	252.64	GO	34	-	NUL	1	gouged brecciated section of propylitic granodiorite . Carbonate vein fragments are brecciated and locally host trace pyrite			
255.27	255.54	VN	37	20	NUL	1	20 cm, quartz vein in propylitic altered granodiorite containting a 1 cm calcite veinlet that surrounds it			
256.40	256.50	VN	37	60	NUL	3	2-5mm,carbonat eveinlets in propylitic altered granodiorite			
257.00	257.98	VN	37	40	NUL	6	2-6 mm, quartz-carbonate veinlets locally hosting trace pyrite, hematite and magnetite in strongly argillic, moderate propylitic granodiorite			
261.11	261.22	VN	37	30	NUL	1	1 cm, quartz veinlet in argillic altered granodiorite			
261.60	261.80	VN	37	30	NUL	2	4-7 mm, hematite altered, quartz- carbonate veinlets surrounded by black fine grained, magnetite veinlets which locally brecciate host grd			
266.70	267.70	VN	37	60	NUL	2	1-15 cm, quartz veins locally hosting magnetite inclusions and trace pyrite within strongly argillic, weakly propylitic granodiorite interval. Magnetite inclusions occur as 1-3 mm bands. Calcite infilling vein fracture surfaces is locally observed			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
268.60	269.02	VN	37	40	NUL	1	1 cm, quartz veinlet locally hosting specular hematite and trace magnetite in potassic-propylitic altered granodiorite			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383055	6889199	1452.906	131.06

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-460

CLAIM: YC37992

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 3.05m, Out

Drilling Dates: Sep 26 - Sep 27, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
11	38.66	-50	Reflex
131	40.36	-49.8	Reflex

TARGET: Infill Drilling

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.8	2.8	OVB
2.8	4.57	1.77	GRD
4.57	6	1.43	GRD
6	7.5	1.5	GRD
7.5	7.65	0.15	VEN
7.65	10.2	2.55	GRD
10.2	12.19	1.99	GRD
12.19	12.7	0.51	GRD
12.7	12.9	0.2	GRD
12.9	13.54	0.64	GRD
13.54	14.65	1.11	GRD
14.65	16.1	1.45	GRD
16.1	16.8	0.7	GRD
16.8	17.7	0.9	GRD
17.7	19.53	1.83	GRD
19.53	21.34	1.81	GRD

SAMPLES	
Numbers:	W599255, W602621 to W602740
Total:	121
Batch:	085, 103, 104, 106
Certificates:	WH19254230, WH19255767, WH19255814, WH19255822, WH19300083

COMMENTS

21.34	21.55	0.21	GRD
21.55	22.8	1.25	GRD
22.8	24.15	1.35	GRD
24.15	24.8	0.65	GRD
24.8	25.4	0.6	GRD
25.4	27.3	1.9	GRD
27.3	28.1	0.8	GRD
28.1	29.3	1.2	GRD
29.3	30	0.7	GRD
30	30.48	0.48	GRD
30.48	31.75	1.27	GRD
31.75	32	0.25	GRD
32	32.5	0.5	GRD
32.5	32.8	0.3	GRD
32.8	33.3	0.5	GRD
33.3	34.8	1.5	GRD
34.8	35.25	0.45	GRD
35.25	38.5	3.25	GRD
38.5	39.62	1.12	GRD
39.62	41.8	2.18	GRD
41.8	42.5	0.7	GRD
42.5	44	1.5	GRD
44	44.79	0.79	GRD
44.79	44.82	0.03	APL
44.82	47.95	3.13	GRD
47.95	49.75	1.8	GRD
49.75	50.64	0.89	GRD
50.64	50.82	0.18	GRD
50.82	51.83	1.01	GRD
51.83	53.34	1.51	GRD
53.34	68	14.66	GRD
68	69.55	1.55	GRD

69.55	69.68	0.13	VEN
69.68	78.3	8.62	GRD
78.3	79.5	1.2	GRD
79.5	83.82	4.32	GRD
83.82	84.2	0.38	VEN
84.2	86.65	2.45	GRD
86.65	90.5	3.85	GRD
90.5	91.67	1.17	GRD
91.67	92.75	1.08	GRD
92.75	98	5.25	GRD
98	99.4	1.4	GRD
99.4	101	1.6	GRD
101	103.45	2.45	GRD
103.45	104.25	0.8	GRD
104.25	107	2.75	GRD
107	108.5	1.5	GRD
108.5	111.25	2.75	GRD
111.25	111.35	0.1	VEN
111.35	115.82	4.47	GRD
115.82	117	1.18	GRD
117	118	1	GRD
118	125.4	7.4	GRD
125.4	127.5	2.1	GRD
127.5	129.9	2.4	GRD
129.9	130.1	0.2	GRD
130.1	131.06	0.96	GRD

Box Log

KL -19-460

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.16	6.38
2	6.38	10.48
3	10.48	14.59
4	14.59	18.97
5	18.97	23.21
6	23.21	27.1
7	27.1	30.77
8	30.77	34.95
9	34.95	38.95
10	38.95	43.16
11	43.16	47.56
12	47.56	51.83
13	51.83	56.13
14	56.13	60.2
15	60.2	64.55
16	64.55	69
17	69	73.18
18	73.18	77.42
19	77.42	81.74
20	81.74	86.1
21	86.1	90.4
22	90.4	94.5
23	94.5	98.46
24	98.46	102.27
25	102.27	106.2
26	106.2	110.15
27	110.15	113.78
28	113.78	117.72
29	117.72	122
30	122	126.3
31	126.3	130.44
32	130.44	131.06

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-460									
	83.82	7	NTW	GRD	628.1	437.4	3.17	3.3	
	83.82	7	NTW	VEN	628.1	437.4	3.17	3.3	
	99.5	11.25	NTW	GRD	723.8	462.6	2.28	2.8	
	129.9	13.5	NTW	GRD	959.2	597.3	2.51	2.7	
	129.9	13.5	NTW	GRD	959.2	597.3	2.51	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.80	2.80	OVB	--	overburden							
2.80	4.57	1.77	GRD	MG	medium gained, fractured, oxidized, fragmental granodioirte, with weak pervasive bleaching.							
						MD	GY		OXI	3I		
						MD	BN		BLE	2I		
4.57	6.00	1.43	GRD	MG	rubbly, gravel sized, weakly fault gouged granodiorite with intense clay alteration and intense oxidation and bleaching							
						MD	BF		BLE	3I		
						MD	GY		OXI	3I		
						MD	BN					
						LT	BN		CLY	4I		
6.00	7.50	1.50	GRD	MG	moderately oxidized, bleached and moderately clay altered granodioirte, partially rubbly. Likely oxidized due to proximity to surface.							
						MD	BN		OXI	3I		
						MD	GY		BLE	3I		
									CLY	2I		
7.50	7.65	0.15	VEN	MG	quartz vein, trending 30 TCA with flaky molybdenite grains and pyrite along a vuggy siliceous seam (1 cm wide) that trends 30 TCA within the vein itself.							
						LT	BN				Py	1
						LT	WH		SIL	5I	Mo	1
7.65	10.20	2.55	GRD	MG	mdeium greenish grey granodioirte, weakly propylitic altered with trace argillic alteration. Weak seams of quartz carbonate throughout; barren of sulfide							
						MD	GY		PRO	2I		
						MD	GN					
						LT	BN		ARG	2I		
10.20	12.19	1.99	GRD	MG	moderately argillic altered granodioirte with weak propylitic overprint. Medium whitish grey to greenish grey, patchy oxidative staining throughout.							
						MD	GY		PRO	1I		
						MD	GN		ARG	3I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
12.19	12.70	0.51	GRD	MG	moderatly propylitic altered granodiorite with weak argillic alteration, patchy oxidative staining on fracutes							
						MD	GN		ARG	1I		
						MD	GY		PRO	3I		
12.70	12.90	0.20	GRD	MG	fautled, clay altered, brecciated horizon within granodioirte, trending 30 TCA							
						MD	BN					
						LT	BN		CLY	5I		
12.90	13.54	0.64	GRD	MG	moderately propylitic altered granodioirte with weak oxidative stianing along fracutre surfaces							
						MD	BN		PRO	2I		
						MD	GY		ARG	1I		
						MD	GN					
13.54	14.65	1.11	GRD	MG	moderately clay altred, moderately oxidized, patchy brown tobrownish grey, moderately argillic altere with weak propylitic alteration, granodiorite. Pervasive oxidation is related to fracturing. Two intervals of fragmental granodiorite within this broader interval likely are representative of small faults within granodiorite.							
						MD	BN		BLE	2I		
									PRO	1I		
									OXI	3I		
									ARG	2I		
14.65	16.10	1.45	GRD	MG	argillic altered, blneached and oxidized granodiorite; whitish brownish grey, with patchy oxidative staining.							
						MD	BN		BLE	2I		
						MD	GY		OXI	3I		
						LT	BN		ARG	3I		
16.10	16.80	0.70	GRD	MG	oxidized portion of granodioirte, bleached and clay altered, with two quartz veins 1 cm wide trending ~30 TCA, with weak pyrite within them. Vuggy oxidized texture within veins, may indicated oxide minerals within. Potential for grade here							
						MD	BN		CLY	2I	Py	0.1
						LT	BN		OXI	3I		
									ARG	3I		
									BLE	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.80	17.70	0.90	GRD	MG	weakly propylitic alteration in granodioite. No sulfides							
						MD	GN		PRO	1I		
						MD	GY					
17.70	19.53	1.83	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint. Medium whitish grey to greenish grey							
						MD	GY		ARG	3I		
						MD	GN		PRO	1I		
						LT	WH					
19.53	21.34	1.81	GRD	MG	unaltered granodioirte							
						MD	GY					
21.34	21.55	0.21	GRD	MG	fracuted, pervasively silicified granodioirte with patchy oxidative staining and weak pyrite disseminated throughout							
						MD	BN		SIL	4I		
						MD	GY					
						DK	GY		PRO	1I	Py	1
21.55	22.80	1.25	GRD	MG	moderately argillic altered granodiorite with pervaisve oxiation and bleaching							
						MD	GY		BLE	3I		
						MD	BN		CLY	1I		
						LT	WH		ARG	2I		
						LT	BN		OXI	3I		
22.80	24.15	1.35	GRD	MG	patchily oxidative staining on fractures, trace propylitic altered granodiorite with hairline carbonate veinlets trending 70 TCA without sulfides							
						MD	GY		PRO	1I		
						LT	BN		OXI	2I		
						LT	GN		BLE	2I		
24.15	24.80	0.65	GRD	MG	unaltered granodioirte							
						MD	GY					
24.80	25.40	0.60	GRD	MG	gravelly, rubbly, strongly clay altered granodiorite; likely related to faulting.							
						LT	WH		ARG	5I		
						LT	GY		CLY	5I		
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.40	27.30	1.90	GRD	MG	trace propylitic altered granodioirte with patchy oxidative staining on frcature surfaces							
						MD	GY		PRO	1I		
						LT	BN		OXI	2I		
27.30	28.10	0.80	GRD	MG	unaltered granodiorite							
						MD	GY					
28.10	29.30	1.20	GRD	MG	faulted, rubbly to gravelly to 4-10 cm fragments, of argillic and propylitic altered granodiorite. Heavily oxidized, with one interval of gouged material for 30 cm of the interval. Definitely related to faulting. Weak disseminated pyrite within interval							
						MD	GY		CLY	5I	Py	0.5
						MD	BN		ARG	4I		
29.30	30.00	0.70	GRD	MG	heavily oxidized, silicified granoioirte							
						MD	BN		SIL	3I		
									PRO	1I		
									OXI	3I		
30.00	30.48	0.48	GRD	MG	heavily silicifed, moderately argillic altered granodioirte with trace disseminated pyrite throughout							
						MD	GY		SIL	3I	Py	0.1
						MD	GN					
						LT	WH		OXI	3I		
30.48	31.75	1.27	GRD	MG	medium grey, patchy oxidative staining on fractures, trace propylitic altered granodiorite.							
						MD	GY		PRO	1I		
31.75	32.00	0.25	GRD	MG	moderate argillic latered granodioirte with two 70 TCA pyrite vinelts 5 mm wide							
						MD	GY		ARG	3I	Py	0.5
32.00	32.50	0.50	GRD	MG	modeately argillic altered granodioirte with weak propylitc overprint. Light greenish whitish grey							
						MD	GY		ARG	3I		
						LT	GN		PRO	1I		
						LT	WH					
32.50	32.80	0.30	GRD	MG	faulted granodioirte, moderately clay altered with one 5 cm interval of fault gouge, contacts is sharp and trends 70 TCA and likely represents a fault surface							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						LT	BN		CLY	4I		
						LT	WH					
32.80	33.30	0.50	GRD	MG	whitish grey to greenish grey, weak argillic altered granodioirte with weak propylitic overprint.							
						MD	GY		ARG	2I		
						MD	GN		PRO	2I		
						LT	WH					
33.30	34.80	1.50	GRD	MG	tracec argillic and propylitic altered granodioirte. Medium grey to light patchy greenish grey							
						MD	GN		ARG	1I		
						MD	GY		PRO	1I		
34.80	35.25	0.45	GRD	MG	strongly bleached, light greyish green strongly porpylitic altered granodioirte with small pyrite stringers trending 50 TCA developed thoruhout interval							
						LT	GN		SIL	1I	Py	0.5
						LT	GY		PRO	4I		
35.25	38.50	3.25	GRD	MG	weak to moderately propylitic altered granodioirte, trace silicification in zones of stronger propylitic alteration. Weak stringers sparsely developed throughout, with weak bleached haloes extending 2 mm from veinlets. No sulfide in stringers							
						MD	GN		PRO	1I		
						MD	GY		SIL	1I		
38.50	39.62	1.12	GRD	MG	fraulted, fractured granodioirte with oxidative stianing on fracutre surfaces. Likely a fault running through here; orientation is indeterminate.							
						MD	GY		OXI	2I		
39.62	41.80	2.18	GRD	MG	unaltered granodioite							
						MD	GY					
41.80	42.50	0.70	GRD	MG	moerately argillic and moderately propylitic altered granodioirte, with weak silicification in centre of interval, ontiaining a 80 TCA pyrite vein that is 1 cm wide. Alteration haloe is propylitic and siliceous near vein, grading out into argillic 10 cm from the vein itself.							
						MD	GY		ARG	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	WH		PRO	3I		
						MD	GN		SIL	1I		
42.50	44.00	1.50	GRD	MG	trace propylitic altered granodiorite with weak 70 TCA pyrite stringers within core. Only 3 observed, with trace pyrite							
						MD	GY		PRO	1I	Py	0.1
44.00	44.79	0.79	GRD	MG	unaltered granodioirte							
						MD	GY					
44.79	44.82	0.03	APL	FG	finegrained pinkish aplite dyke							
						MD	PK					
						LT	PK					
44.82	47.95	3.13	GRD	MG	unaltered granodiorite							
						MD	GY					
47.95	49.75	1.80	GRD	MG	unaltered granodioirte							
						MD	GY					
49.75	50.64	0.89	GRD	MG	weakly propylitic and argillic altered granodiorite, with 70 TCA pyrite bearing quartz veinlets (7 in interval; most are 1 mm wide, one is 2 cm wide.)							
						MD	GN		PRO	2I		
						MD	GY		SIL	2I	Py	1
50.64	50.82	0.18	GRD	MG	faulted, fragmental granodioirte with clay alteration on fracture surfaces							
						MD	GN					
						MD	GY					
50.82	51.83	1.01	GRD	MG	weakly propylitic and siliceous altered granodioirte with 70 TCA pyrite stringers devleoped throughout interval							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		
51.83	53.34	1.51	GRD	MG	unaltered granodioirte							
						MD	GY					
53.34	68.00	14.66	GRD	MG	weakly propylitic and pervasively trace silicified dark grey granodioirte with evenly spaced sets of 70 TCA pyrite bearing stringers. 14 pyrite stringers are in this interval, typically spaed 10-15 cm apart							
						DK	GY		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									SIL	2I		
68.00	69.55	1.55	GRD	MG	moderately propylitic altered granodioirte, medium greenish grey, with 5 pyrite bearing quartz sstringers trending 70 TA							
						MD	GN		PRO	2I	Py	0.1
						MD	GY		SIL	1I		
69.55	69.68	0.13	VEN	MG	semimassive sulfide vein trending 70 TCA with banded blebby pyrite and weak sphalerite and galena.							
						MD	GY				Sp	2
						DK	GY		SIL	4I	Gn	2
											Py	10
69.68	78.30	8.62	GRD	MG	dark grey to medium grey; pathcy greenish grey, moderately propylitic and moerately argillic altered granodioirte with weak pervasive silicification, and consistent pyrite bearing quartz stringers that trend 70 TCA thorughout entire interval, typically spaced 10-15 m apart. There are more than 80 stringers in this interval.							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		
						DK	GY		ARG	2I		
78.30	79.50	1.20	GRD	MG	unaltered granodioirte							
						MD	GY					
79.50	83.82	4.32	GRD	MG	medium grey to dark grey, with patchy greenish grey intervals, weak to moderately propylitic altered granodioirte, with small 20-30 cm intervals of weakly argillic alteration. Pervasive weak silicification throughout entire interval, and sets of repeating 10 cm spced pyrite bearing quartz stringers trenidng 70 TCA.							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I		
						DK	GY		ARG	2I	Py	0.5
83.82	84.20	0.38	VEN	MG	semimassive sulfide quartz carbonate vein, with patchy, blebby bands of pyrite and disseminated blebs of sphalerite disseminated throughout; with trace finegrained galena spatially associated with galena							
						MD	GY				Gn	1
						LT	WH				Py	15
						LT	CR		SIL	5I	Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.20	86.65	2.45	GRD	MG	light grey to whitish grey, to greenish grey, moderately silicified granodioirte with pervasive moderate propylitic overprint. 70 TCA pyrite stringers occur throughout entire interval, ranging in size from 1 mm to 5 mm.							
						MD	GY		SIL	2I		
						MD	GN					
						LT	WH		PRO	2I	Py	1
						LT	GY					
86.65	90.50	3.85	GRD	MG	medium grey with patchy greenish grey sections, pervasively weakly silicified and patchily propylitic altered granodioirte with 70 TCA pyrite bearing quartz stringers throughout.							
						MD	GY		SIL	2I	Py	0.75
						MD	GN		PRO	2I		
90.50	91.67	1.17	GRD	MG	unaltered granodiorite							
91.67	92.75	1.08	GRD	MG	moderaately propylitic and argillic altered granodioirt							
									ARG	2I		
									PRO	2I		
92.75	98.00	5.25	GRD	MG	unaltered granodioirte							
						MD	GY					
98.00	99.40	1.40	GRD	MG	weakly propyliti na argilli altered granodioirte							
						LT	GN		PRO	1I		
						LT	GY		ARG	1I		
99.40	101.00	1.60	GRD	MG	faulted, fratred granoioirte with small 5 cm gouge sections trending 50 TCA. Weakly silicified throughout with small bans of fine grained black mineral - likely gouged pyrite or something of the sort.							
						LT	BN		SIL	2I	Py	1
						LT	GY		CLY	3I		
101.00	103.45	2.45	GRD	MG	weakly propylitic and argillic altered granodioirte with weak oxidative staining on fractures							
						LT	GY		PRO	2I		
						LT	BN		ARG	2I		
103.45	104.25	0.80	GRD	MG	moderately argillic altered granoidoite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
						LT	WH		ARG	3I		
104.25	107.00	2.75	GRD	MG	faulted, strongly argillic and pervasively silicifie section of granodioirte with set of 70 TCA stringers with dark grey alteration haloes 2 mm on either side of einlet, with dissem pyite							
						LT	GY		SIL	2I		
						LT	WH		ARG	3I	Py	1
107.00	108.50	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
108.50	111.25	2.75	GRD	MG	moerately argillic altered granodioirtte with two rubbly intervals 30 cm long							
						MD	GY					
						LT	GY		ARG	2I		
111.25	111.35	0.10	VEN	MG	10 cm inteval of series of pyrite bearing quatz veinles 1 cm wide (4 in total) wtihin silicified granodioirte							
						MD	GY		SIL	4I	Py	5
111.35	115.82	4.47	GRD	MG	moderately propylitic and pervaively silicified granodioirte with series of 60 TCA 1 cm wide vuggy barren quartz veins, with no visible sulfide. At 112 m there is a 10 cm bull quartz vein with one vuggy pocket 1cm wide.							
						LT	GY					
						LT	BN					
						LT	WH					
115.82	117.00	1.18	GRD	MG	unaltered granodioirte							
						MD	GY					
117.00	118.00	1.00	GRD	MG	weakly propylitic and argillic altered granodioirte							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
118.00	125.40	7.40	GRD	MG	unaltered granodioirte							
						MD	GY					
125.40	127.50	2.10	GRD	MG	light whitish grey to greenish grey moderately argillic and weak propylitic altered granodioirte							
						LT	GN		PRO	1I		
						LT	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
127.50	129.90	2.40	GRD	MG	unaltered granodioirte							
						MD	GY					
129.90	130.10	0.20	GRD	MG	propyliti altered granodioirte with one 1 cm wide pyrite veinlet trending 60 TCA							
						MD	GN					
						MD	GY					
130.10	131.06	0.96	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	2.80	2.80	OVB	OVB	--	overburden
2.80	4.57	1.77	GRD	GRDA	MG	medium gained, fractured, oxidized, fragmental granodioirte, with weak pervasive bleaching.
4.57	6.00	1.43	GRD	GRDF	MG	rubbly, gravel sized, weakly fault gouged granodiorite with intense clay alteration and intense oxidation and bleaching
6.00	7.50	1.50	GRD	GRDA	MG	moderately oxidized, bleached and moderately clay altered granodioirte, partially rubbly. Likely oxidized due to proximity to surface.
7.50	7.65	0.15	VEN	VEIN	MG	quartz vein, trending 30 TCA with flaky molybdenite grains and pyrite along a vuggy siliceous seam (1 cm wide) that trends 30 TCA within the vein itself.
7.65	10.20	2.55	GRD	GRDA	MG	mdeium greenish grey granodioirte, weakly propylitic altered with trace argillic alteration. Weak seams of quartz carbonate throughout; barren of sulfide
10.20	12.19	1.99	GRD	GRDA	MG	moderately argillic altered granodioirte with weak propylitic overprint. Medium whitish grey to greenish grey, patchy oxidative staining throughout.
12.19	12.70	0.51	GRD	GRDA	MG	moderatly propylitic altered granodiorite with weak argillic alteration, patchy oxidative staining on fracutes
12.70	12.90	0.20	GRD	GRDF	MG	fautled, clay altered, brecciated horizon within granodioirte, trending 30 TCA
12.90	13.54	0.64	GRD	GRDA	MG	moderately propylitic altered granodioirte with weak oxidative stianing along fracutre surfaces
13.54	14.65	1.11	GRD	GRDF	MG	moderately clay altred, moderately oxidized, patchy brown tobrownish grey, moderately argillic altere with weak propylitic alteration, granodiorite. Pervasive oxidation is related to fracturing. Two intervals of fragmental granodiorite within this broader interval likely are representative of small faults within granodiorite.
14.65	16.10	1.45	GRD	GRDA	MG	argillic altered, blneached and oxidized granodiorite; whitish brownish grey, with patchy oxidative staining.
16.10	16.80	0.70	GRD	GRDM	MG	oxidized portion of granodioirte, bleached and clay altered, with two quartz veins 1 cm wide trending ~30 TCA, with weak pyrite within them. Vuggy oxidized texture within veins, may indicated oxide minerals within. Potential for grade here
16.80	17.70	0.90	GRD	GRDA	MG	weakly propylitic alteration in granodioite. No sulfides
17.70	19.53	1.83	GRD	GRDA	MG	weakly argillic altered granodiorite with weak propylitic overprint. Medium whitish grey to greenish grey
19.53	21.34	1.81	GRD	GRD	MG	unaltered granodioirte
21.34	21.55	0.21	GRD	GRDM	MG	fracuted, pervasively silicified granodioirte with patchy oxidative staining and weak pyrite disseminated throughout

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
21.55	22.80	1.25	GRD	GRDA	MG	moderately argillic altered granodiorite with pervaisve oxiation and bleaching
22.80	24.15	1.35	GRD	GRDA	MG	patchily oxidative staining on fractures, trace propylitic altered granodiorite with hairline carbonate veinlets trending 70 TCA without sulfides
24.15	24.80	0.65	GRD	GRD	MG	unaltered granodioirte
24.80	25.40	0.60	GRD	GRDF	MG	gravelly, rubbly, strongly clay altered granodiorite; likely related to faulting.
25.40	27.30	1.90	GRD	GRD	MG	trace propylitic altered granodioirte with patchy oxidative staining on frcature surfaces
27.30	28.10	0.80	GRD	GRD	MG	unaltered granodiorite
28.10	29.30	1.20	GRD	FLTM	MG	faulted, rubbly to gravelly to 4-10 cm fragments, of argillic and propylitic altered granodiorite. Heavily oxidized, with one interval of gouged material for 30 cm of the interval. Definitely related to faulting. Weak disseminated pyrite within interval
29.30	30.00	0.70	GRD	GRDA	MG	heavily oxidized, silicified granoioirte
30.00	30.48	0.48	GRD	GRDM	MG	heavily silicifed, moderately argillic altered granodioirte with trace disseminated pyrite throughout
30.48	31.75	1.27	GRD	GRDA	MG	medium grey, patchy oxidative staining on fractures, trace propylitic altered granodiorite.
31.75	32.00	0.25	GRD	GRDM	MG	moderate argillic latered granodioirte with two 70 TCA pyrite vinelts 5 mm wide
32.00	32.50	0.50	GRD	GRDA	MG	modeately argillic altered granodioirte with weak propylitc overprint. Light greenish whitish grey
32.50	32.80	0.30	GRD	GRDF	MG	faulted granodioirte, moderately clay altered with one 5 cm interval of fault gouge, contacts is sharp and trends 70 TCA and likely represents a fault surface
32.80	33.30	0.50	GRD	GRDA	MG	whitish grey to greenish grey, weak argillic altered granodioirte with weak propylitic overprint.
33.30	34.80	1.50	GRD	GRDA	MG	tracec argillic and propylitic altered granodioirte. Medium grey to light patchy greenish grey
34.80	35.25	0.45	GRD	GRDM	MG	strongly bleached, light greyish green strongly porpylitic altered granodioirte with small pyrite stringers trending 50 TCA developed thoruhout interval
35.25	38.50	3.25	GRD	GRDA	MG	weak to moderately propylitic altered granodioirte, trace silicification in zones of stronger propylitic alteration. Weak stringers sparsely developed throughout, with weak bleached haloes extending 2 mm from veinlets. No sulfide in stringers
38.50	39.62	1.12	GRD	GRDF	MG	fraulted, fractured granodioirte with oxidative stianing on fracutre surfaces. Likely a fault running through here; orientation is indeterminate.
39.62	41.80	2.18	GRD	GRD	MG	unaltered granodioite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
41.80	42.50	0.70	GRD	GRDM	MG	moerately argillic and moderately propylitic altered granodioirte, with weak silicification in centre of interval, ontiaining a 80 TCA pyrite vein that is 1 cm wide. Alteration haloe is propylitic and siliceous near vein, grading out into argillic 10 cm from the vein itself.
42.50	44.00	1.50	GRD	GRDA	MG	trace propylitic altered granodiorite with weak 70 TCA pyrite stringers within core. Only 3 observed, with trace pyrite
44.00	44.79	0.79	GRD	GRD	MG	unaltered granodioirte
44.79	44.82	0.03	APL	DYK	FG	finegrained pinkish aplite dyke
44.82	47.95	3.13	GRD	GRD	MG	unaltered granodiorite
47.95	49.75	1.80	GRD	GRD	MG	unaltered granodioirte
49.75	50.64	0.89	GRD	GRDM	MG	weakly propylitic and argillic altered granodiorite, with 70 TCA pyrite bearing quartz veinlets (7 in interval; most are 1 mm wide, one is 2 cm wide.)
50.64	50.82	0.18	GRD	GRDF	MG	faulted, fragmental granodioirte with clay alteration on fracture surfaces
50.82	51.83	1.01	GRD	GRDM	MG	weakly propylitic and siliceous altered granodioirte with 70 TCA pyrite stringers devleoped throughout interval
51.83	53.34	1.51	GRD	GRD	MG	unaltered granodioirte
53.34	68.00	14.66	GRD	GRDM	MG	weakly propylitic and pervasively trace silicified dark grey granodioirte with evenly spaced sets of 70 TCA pyrite bearing stringers. 14 pyrite stringers are in this interval, typically spaed 10-15 cm apart
68.00	69.55	1.55	GRD	GRDM	MG	moderately propylitic altered granodioirte, medium greenish grey, with 5 pyrite bearing quartz sstringers trending 70 TA
69.55	69.68	0.13	VEN	VEIN	MG	semimassive sulfide vein trending 70 TCA with banded blebby pyrite and weak sphalerite and galena.
69.68	78.30	8.62	GRD	GRDM	MG	dark grey to medium grey; pathcy greenish grey, moderately propylitic and moerately argillic altered granodioirte with weak pervasive silicification, and consistent pyrite bearing quartz stringers that trend 70 TCA thorughout entire interval, typically spaced 10-15 m apart. There are more than 80 stringers in this interval.
78.30	79.50	1.20	GRD	GRD	MG	unaltered granodioirte
79.50	83.82	4.32	GRD	GRDM	MG	medium grey to dark grey, with patchy greenish grey intervals, weak to moderately propylitic altered granodioirte, with small 20-30 cm intervals of weakly argillic alteration. Pervasive weak silicification throughout entire interval, and sets of repeating 10 cm spced pyrite bearing quartz stringers trenidng 70 TCA.
83.82	84.20	0.38	VEN	VEIN	MG	semimassive sulfide quartz carbonate vein, with patchy, blebby bands of pyrite and disseminated blebs of sphalerite disseminated throughout; with trace finegrained galena spatially associated with galena

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
84.20	86.65	2.45	GRD	GRDM	MG	light grey to whitish grey, to greenish grey, moderately silicified granodioirte with pervasive moderate propylitic overprint. 70 TCA pyrite stringers occur throughout entire interval, ranging in size from 1 mm to 5 mm.
86.65	90.50	3.85	GRD	GRDM	MG	medium grey with patchy greenish grey sections, pervasively weakly silicified and patchily propylitic altered granodioirte with 70 TCA pyrite bearing quartz stringers throughout.
90.50	91.67	1.17	GRD	GRD	MG	unaltered granodiorite
91.67	92.75	1.08	GRD	GRDA	MG	moderaately propylitic and argillic altered granodioirt
92.75	98.00	5.25	GRD	GRD	MG	unaltered granodioirte
98.00	99.40	1.40	GRD	GRDA	MG	weakly propyliti na argilli altered granodioirte
99.40	101.00	1.60	GRD	FLTM	MG	faulted, fratred granoioirte with small 5 cm gouge sections trending 50 TCA. Weakly silicified throughout with small bans of fine grained black mineral - likely gouged pyrite or something of the sort.
101.00	103.45	2.45	GRD	GRDA	MG	weakly propylitic and argillic altered granodioirte with weak oxidative staining on fractures
103.45	104.25	0.80	GRD	GRDA	MG	moderately argillic altered granoidoite
104.25	107.00	2.75	GRD	GRDM	MG	faulted, strongly argillic and pervasively silicifie section of granodioirte with set of 70 TCA stringers with dark grey alteration haloes 2 mm on either side of einlet, with dissem pyite
107.00	108.50	1.50	GRD	GRD	MG	unaltered granodioirte
108.50	111.25	2.75	GRD	GRDA	MG	moerately argillic altered granodioirtte with two rubbly intervals 30 cm long
111.25	111.35	0.10	VEN	VEIN	MG	10 cm inteval of series of pyrite bearing quatz veinles 1 cm wide (4 in total) wtihin silicified granodioirte
111.35	115.82	4.47	GRD	GRDA	MG	moderately propylitic and pervaively silicified granodioirte with series of 60 TCA 1 cm wide vuggy barren quartz veins, with no visible sulfide. At 112 m there is a 10 cm bull quartz vein with one vuggy pocket 1cm wide.
115.82	117.00	1.18	GRD	GRD	MG	unaltered granodioirte
117.00	118.00	1.00	GRD	GRDA	MG	weakly propylitic and argillic altered granodioirte
118.00	125.40	7.40	GRD	GRD	MG	unaltered granodioirte
125.40	127.50	2.10	GRD	GRDA	MG	light whitish grey to greenish grey moderately argillic and weak propylitic altered granodioirte
127.50	129.90	2.40	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
129.90	130.10	0.20	GRD	GRDM	MG	propyliti altered granodioirte with one 1 cm wide pyrite veinlet trending 60 TCA
130.10	131.06	0.96	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.80	2.80	OVB	--	overburden							
2.80	4.57	1.77	GRD	MG	medium gained, fractured, oxidized, fragmental granodioirte, with weak pervasive bleaching.							
						MD	BN		BLE	2I		
						MD	GY		OXI	3I		
4.57	6.00	1.43	GRD	MG	rubbly, gravel sized, weakly fault gouged granodiorite with intense clay alteration and intense oxidation and bleaching							
						LT	BN		CLY	4I		
						MD	GY		OXI	3I		
						MD	BF		BLE	3I		
						MD	BN					
6.00	7.50	1.50	GRD	MG	moderately oxidized, bleached and moderately clay altered granodioirte, partially rubbly. Likely oxidized due to proximity to surface.							
						MD	GY		BLE	3I		
						MD	BN		OXI	3I		
									CLY	2I		
7.50	7.65	0.15	VEN	MG	quartz vein, trending 30 TCA with flaky molybdenite grains and pyrite along a vuggy siliceous seam (1 cm wide) that trends 30 TCA within the vein itself.							
						LT	WH				Py	1
						LT	BN		SIL	5I	Mo	1
7.65	10.20	2.55	GRD	MG	mdeium greenish grey granodioirte, weakly propylitic altered with trace argillic alteration. Weak seams of quartz carbonate throughout; barren of sulfide							
						MD	GN		PRO	2I		
						LT	BN		ARG	2I		
						MD	GY					
10.20	12.19	1.99	GRD	MG	moderately argillic altered granodioirte with weak propylitic overprint. Medium whitish grey to greenish grey, patchy oxidative staining throughout.							
						LT	WH		ARG	3I		
						MD	GY		PRO	1I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
12.19	12.70	0.51	GRD	MG	moderatly propylitic altered granodiorite with weak argillic alteration, patchy oxidative staining on fracutes							
						MD	GN		PRO	3I		
						MD	GY		ARG	1I		
12.70	12.90	0.20	GRD	MG	fautled, clay altered, brecciated horizon within granodioirte, trending 30 TCA							
						MD	BN					
						LT	BN		CLY	5I		
12.90	13.54	0.64	GRD	MG	moderately propylitic altered granodioirte with weak oxidative stianing along fracutre surfaces							
						MD	GY		PRO	2I		
						MD	GN		ARG	1I		
						MD	BN					
13.54	14.65	1.11	GRD	MG	moderately clay altred, moderately oxidized, patchy brown tobrownish grey, moderately argillic altere with weak propylitic alteration, granodiorite. Pervasive oxidation is related to fracturing. Two intervals of fragmental granodiorite within this broader interval likely are representative of small faults within granodiorite.							
									ARG	2I		
									BLE	2I		
									OXI	3I		
						MD	BN		PRO	1I		
14.65	16.10	1.45	GRD	MG	argillic altered, blneached and oxidized granodiorite; whitish brownish grey, with patchy oxidative staining.							
						MD	GY		ARG	3I		
						MD	BN		OXI	3I		
						LT	BN		BLE	2I		
16.10	16.80	0.70	GRD	MG	oxidized portion of granodioirte, bleached and clay altered, with two quartz veins 1 cm wide trending ~30 TCA, with weak pyrite within them. Vuggy oxidized texture within veins, may indicated oxide minerals within. Potential for grade here							
									OXI	3I		
									BLE	2I		
						MD	BN		CLY	2I		
						LT	BN		ARG	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.80	17.70	0.90	GRD	MG	weakly propylitic alteration in granodioite. No sulfides							
						MD	GN		PRO	1I		
						MD	GY					
17.70	19.53	1.83	GRD	MG	weakly argillic altered granodiorite with weak propylitic overprint. Medium whitish grey to greenish grey							
						LT	WH					
						MD	GN		ARG	3I		
						MD	GY		PRO	1I		
19.53	21.34	1.81	GRD	MG	unaltered granodioirte							
						MD	GY					
21.34	21.55	0.21	GRD	MG	fracuted, pervasively silicified granodioirte with patchy oxidative staining and weak pyrite disseminated throughout							
						MD	GY					
						MD	BN		SIL	4I		
						DK	GY		PRO	1I	Py	1
21.55	22.80	1.25	GRD	MG	moderately argillic altered granodiorite with pervaisve oxiation and bleaching							
						LT	BN		CLY	1I		
						LT	WH		OXI	3I		
						MD	GY		ARG	2I		
						MD	BN		BLE	3I		
22.80	24.15	1.35	GRD	MG	patchily oxidative staining on fractures, trace propylitic altered granodiorite with hairline carbonate veinlets trending 70 TCA without sulfides							
						LT	GN		BLE	2I		
						MD	GY		OXI	2I		
						LT	BN		PRO	1I		
24.15	24.80	0.65	GRD	MG	unaltered granodioirte							
						MD	GY					
24.80	25.40	0.60	GRD	MG	gravelly, rubbly, strongly clay altered granodiorite; likely related to faulting.							
						LT	BN					
						LT	WH		ARG	5I		
						LT	GY		CLY	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.40	27.30	1.90	GRD	MG	trace propylitic altered granodioirte with patchy oxidative staining on frcature surfaces							
						LT	BN		PRO	1I		
						MD	GY		OXI	2I		
27.30	28.10	0.80	GRD	MG	unaltered granodiorite							
						MD	GY					
28.10	29.30	1.20	GRD	MG	faulted, rubbly to gravelly to 4-10 cm fragments, of argillic and propylitic altered granodiorite. Heavily oxidized, with one interval of gouged material for 30 cm of the interval. Definitely related to faulting. Weak disseminated pyrite within interval							
						MD	BN		ARG	4I	Py	0.5
						MD	GY		CLY	5I		
29.30	30.00	0.70	GRD	MG	heavily oxidized, silicified granoioirte							
									SIL	3I		
									PRO	1I		
						MD	BN		OXI	3I		
30.00	30.48	0.48	GRD	MG	heavily silicifed, moderately argillic altered granodioirte with trace disseminated pyrite throughout							
						MD	GY		SIL	3I	Py	0.1
						MD	GN					
						LT	WH		OXI	3I		
30.48	31.75	1.27	GRD	MG	medium grey, patchy oxidative staining on fractures, trace propylitic altered granodiorite.							
						MD	GY		PRO	1I		
31.75	32.00	0.25	GRD	MG	moderate argillic latered granodioirte with two 70 TCA pyrite vinelts 5 mm wide							
						MD	GY		ARG	3I	Py	0.5
32.00	32.50	0.50	GRD	MG	modeately argillic altered granodioirte with weak propylitc overprint. Light greenish whitish grey							
						LT	GN		ARG	3I		
						MD	GY		PRO	1I		
						LT	WH					
32.50	32.80	0.30	GRD	MG	faulted granodioirte, moderately clay altered with one 5 cm interval of fault gouge, contacts is sharp and trends 70 TCA and likely represents a fault surface							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						MD	GY		CLY	4I		
						LT	BN					
32.80	33.30	0.50	GRD	MG	whitish grey to greenish grey, weak argillic altered granodioirte with weak propylitic overprint.							
						MD	GN					
						LT	WH		ARG	2I		
						MD	GY		PRO	2I		
33.30	34.80	1.50	GRD	MG	tracec argillic and propylitic altered granodioirte. Medium grey to light patchy greenish grey							
						MD	GY		ARG	1I		
						MD	GN		PRO	1I		
34.80	35.25	0.45	GRD	MG	strongly bleached, light greyish green strongly porpylitic altered granodioirte with small pyrite stringers trending 50 TCA developed thoruhout interval							
						LT	GN		PRO	4I		
						LT	GY		SIL	1I	Py	0.5
35.25	38.50	3.25	GRD	MG	weak to moderately propylitic altered granodioirte, trace silicification in zones of stronger propylitic alteration. Weak stringers sparsely developed throughout, with weak bleached haloes extending 2 mm from veinlets. No sulfide in stringers							
						MD	GY		PRO	1I		
						MD	GN		SIL	1I		
38.50	39.62	1.12	GRD	MG	fraulted, fractured granodioirte with oxidative stianing on fracutre surfaces. Likely a fault running through here; orientation is indeterminate.							
						MD	GY		OXI	2I		
39.62	41.80	2.18	GRD	MG	unaltered granodioite							
						MD	GY					
41.80	42.50	0.70	GRD	MG	moerately argillic and moderately propylitic altered granodioirte, with weak silicification in centre of interval, ontiaining a 80 TCA pyrite vein that is 1 cm wide. Alteration haloe is propylitic and siliceous near vein, grading out into argillic 10 cm from the vein itself.							
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		ARG	3I		
						MD	WH		SIL	1I	Py	0.5
42.50	44.00	1.50	GRD	MG	trace propylitic altered granodiorite with weak 70 TCA pyrite stringers within core. Only 3 observed, with trace pyrite							
						MD	GY		PRO	1I	Py	0.1
44.00	44.79	0.79	GRD	MG	unaltered granodioirte							
						MD	GY					
44.79	44.82	0.03	APL	FG	finegrained pinkish aplite dyke 30 TCA							
						MD	PK					
						LT	PK					
44.82	47.95	3.13	GRD	MG	unaltered granodiorite							
						MD	GY					
47.95	49.75	1.80	GRD	MG	unaltered granodioirte							
						MD	GY					
49.75	50.64	0.89	GRD	MG	weakly propylitic and argillic altered granodiorite, with 70 TCA pyrite bearing quartz veinlets (7 in interval; most are 1 mm wide, one is 2 cm wide.)							
						MD	GY		PRO	2I		
						MD	GN		SIL	2I	Py	1
50.64	50.82	0.18	GRD	MG	faulted, fragmental granodioirte with clay alteration on fracture surfaces							
						MD	GN					
						MD	GY					
50.82	51.83	1.01	GRD	MG	weakly propylitic and siliceous altered granodioirte with 70 TCA pyrite stringers devleoped throughout interval							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		
51.83	53.34	1.51	GRD	MG	unaltered granodioirte							
						MD	GY					
53.34	68.00	14.66	GRD	MG	very trace patchy propylitic and pervasively trace silicified dark grey granodioirte with evenly spaced sets of 70 TCA pyrite bearing quartz stringers. >100 pyrite stringers are in this interval, typically spaed 10-15 cm apart. Besides this, the granodioirite is relatively unaltered.							
						DK	GY		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	2I	Py	0.5
68.00	69.55	1.55	GRD	MG	moderately propylitic altered granodioirte, medium greenish grey, with 5 pyrite bearing quartz sstringers trending 70 TA							
						MD	GN		SIL	1I	Py	0.1
						MD	GY		PRO	2I		
69.55	69.68	0.13	VEN	MG	semimassive sulfide vein trending 70 TCA with banded blebby pyrite and weak sphalerite and galena.							
											Gn	2
						DK	GY				Sp	2
						MD	GY		SIL	4I	Py	10
69.68	78.30	8.62	GRD	MG	dark grey to medium grey; pathcy greenish grey, moderately propylitic and moerately argillic altered granodioirte with weak pervasive silicification, and consistent pyrite bearing quartz stringers that trend 70 TCA thorughout entire interval, typically spaced 10-15 m apart. There are more than 80 stringers in this interval.							
						MD	GY		SIL	1I		
						MD	GN		PRO	2I		
						DK	GY		ARG	2I	Py	0.5
78.30	79.50	1.20	GRD	MG	unaltered granodioirte							
						MD	GY					
79.50	83.82	4.32	GRD	MG	medium grey to dark grey, with patchy greenish grey intervals, weak to moderately propylitic altered granodioirte, with small 20-30 cm intervals of weakly argillic alteration. Pervasive weak silicification throughout entire interval, and sets of repeating 10 cm spced pyrite bearing quartz stringers trenidng 70 TCA.							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
						DK	GY		SIL	2I	Py	0.5
83.82	84.20	0.38	VEN	MG	semimassive sulfide quartz carbonate vein, with patchy, blebby bands of pyrite and disseminated blebs of sphalerite disseminated throughout; with trace finegrained galena spatially associated with galena							
						MD	GY				Py	15
						LT	WH		SIL	5I	Gn	1
						LT	CR				Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.20	86.65	2.45	GRD	MG	light grey to whitish grey, to greenish grey, moderately silicified granodioirte with pervasive moderate propylitic overprint. 70 TCA pyrite stringers occur throughout entire interval, ranging in size from 1 mm to 5 mm.							
						MD	GY					
						MD	GN		SIL	2I	Py	1
						LT	GY					
						LT	WH		PRO	2I		
86.65	90.50	3.85	GRD	MG	medium grey with patchy greenish grey sections, pervasively weakly silicified and patchily propylitic altered granodioirte with 70 TCA pyrite bearing quartz stringers throughout.							
						MD	GY		PRO	2I	Py	0.75
						MD	GN		SIL	2I		
90.50	91.67	1.17	GRD	MG	unaltered granodiorite							
						MD	GY					
						MD	GN					
91.67	92.75	1.08	GRD	MG	moderaately propylitic and argillic altered granodioirt							
									PRO	2I		
									ARG	2I		
92.75	98.00	5.25	GRD	MG	unaltered granodioirte							
						MD	GY					
98.00	99.40	1.40	GRD	MG	weakly propyliti na argilli altered granodioirte							
						LT	GY		PRO	1I		
						LT	GN		ARG	1I		
99.40	101.00	1.60	GRD	MG	faulted, fratred granoioirte with small 5 cm gouge sections trending 50 TCA. Weakly silicified throughout with small bans of fine grained black mineral - likely gouged pyrite or something of the sort.							
						LT	BN		CLY	3I		
						LT	GY		SIL	2I	Py	1
101.00	103.45	2.45	GRD	MG	weakly propylitic and argillic altered granodioirte with weak oxidative staining on fractures							
						LT	BN		PRO	2I		
						LT	GY		ARG	2I		
103.45	104.25	0.80	GRD	MG	moderately argillic altered granoidoite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		ARG	3I		
						LT	WH					
104.25	107.00	2.75	GRD	MG	faulted, strongly argillic and pervasively silicifie section of granodioirte with set of 70 TCA stringers with dark grey alteration haloes 2 mm on either side of einlet, with dissem pyite							
						LT	GY		SIL	2I		
						LT	WH		ARG	3I	Py	1
107.00	108.50	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
108.50	111.25	2.75	GRD	MG	moerately argillic altered granodioirtte with two rubbly intervals 30 cm long							
						MD	GY					
						LT	GY		ARG	2I		
111.25	111.35	0.10	VEN	MG	10 cm inteval of series of pyrite bearing quatz veinles 1 cm wide (4 in total) wtihin silicified granodioirte							
						MD	GY		SIL	4I	Py	5
111.35	115.82	4.47	GRD	MG	moderately propylitic and pervaively silicified granodioirte with series of 60 TCA 1 cm wide vuggy barren quartz veins, with no visible sulfide. At 112 m there is a 10 cm bull quartz vein with one vuggy pocket 1cm wide.							
						LT	GY					
						LT	WH					
						LT	BN					
115.82	117.00	1.18	GRD	MG	unaltered granodioirte							
						MD	GY					
117.00	118.00	1.00	GRD	MG	weakly propylitic and argillic altered granodioirte							
						MD	GN		PRO	2I		
						MD	GY		ARG	2I		
118.00	125.40	7.40	GRD	MG	unaltered granodioirte							
						MD	GY					
125.40	127.50	2.10	GRD	MG	light whitish grey to greenish grey moderately argillic and weak propylitic altered granodioirte							
						LT	WH		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	GY		PRO	1I		
127.50	129.90	2.40	GRD	MG	unaltered granodioirte							
						MD	GY					
129.90	130.10	0.20	GRD	MG	propyliti altered granodioirte with one 1 cm wide pyrite veinlet trending 60 TCA							
						MD	GN					
						MD	GY					
130.10	131.06	0.96	GRD	MG	unaltered granodioirte							
						MD	GY					

KL -19-460

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.34	22	0.12	8	--	4H	5W	
1.52	3.05	1.53	0.45	29	0.14	9	--	4H	4W	
3.05	4.57	1.52	0.98	64	0.00	0	--	3H	4W	
4.57	6.10	1.53	1.11	73	0.00	0	--	2H	4W	
6.10	7.62	1.52	1.45	95	0.11	7	--	3H	4W	
7.62	9.14	1.52	1.38	91	0.64	42	--	3H	4W	
9.14	10.67	1.53	1.51	99	0.80	52	--	4H	3W	
10.67	12.19	1.52	1.51	99	1.17	77	--	3H	3W	
12.19	15.24	3.05	2.98	98	1.41	46	--	3H	4W	
15.24	18.29	3.05	2.98	98	1.38	45	--	3H	4W	
18.29	21.34	3.05	3.02	99	1.96	64	--	3H	3W	
21.34	24.38	3.04	2.88	95	1.29	42	--	3H	3W	
24.38	27.43	3.05	3.01	99	0.83	27	--	3H	3W	
27.43	30.48	3.05	2.95	97	0.34	11	--	4H	3W	
30.48	33.53	3.05	2.93	96	1.37	45	--	3H	3W	
33.53	36.58	3.05	3.05	100	2.40	79	--	4H	1W	
36.58	39.62	3.04	3.04	100	1.57	52	--	4H	2W	
39.62	42.67	3.05	3.01	99	1.47	48	--	4H	2W	
42.67	45.72	3.05	3.05	100	2.85	93	--	4H	1W	
45.72	48.77	3.05	3.05	100	2.18	71	--	4H	1W	
48.77	51.51	2.74	2.71	99	1.89	69	--	4H	1W	
51.51	53.34	1.83	1.79	98	1.64	90	--	4H	1W	
53.34	56.39	3.05	3.01	99	2.10	69	--	4H	1W	
56.39	59.44	3.05	3.05	100	2.49	82	--	4H	1W	
59.44	62.48	3.04	3.04	100	2.51	83	--	4H	1W	
62.48	65.53	3.05	3.05	100	2.85	93	--	4H	1W	
65.53	68.58	3.05	3.05	100	2.38	78	--	4H	2W	
68.58	71.63	3.05	3.05	100	2.20	72	--	4H	2W	
71.63	74.68	3.05	3.05	100	2.01	66	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
74.68	77.42	2.74	2.71	99	1.82	66	--	4H	1W	
77.42	79.25	1.83	1.81	99	1.64	90	--	4H	1W	
79.25	80.77	1.52	1.47	97	1.15	76	--	4H	1W	
80.77	83.82	3.05	3.01	99	2.03	67	--	4H	1W	
83.82	86.87	3.05	3.01	99	2.16	71	--	4H	2W	
86.87	89.92	3.05	3.05	100	2.63	86	--	4H	1W	
89.92	92.96	3.04	3.04	100	1.93	63	--	4H	1W	
92.96	96.01	3.05	3.05	100	1.66	54	--	4H	1W	
96.01	99.06	3.05	3.01	99	1.35	44	--	3H	1W	
99.06	102.11	3.05	3.05	100	0.43	14	--	3H	2W	
102.11	105.16	3.05	2.95	97	0.89	29	--	3H	2W	
105.16	108.20	3.04	3.04	100	1.06	35	--	2H	2W	
108.20	111.25	3.05	2.92	96	0.00	0	--	2H	2W	highly fractured, rubbly
111.25	112.78	1.53	1.52	99	0.26	17	--	3H	2W	some oxidation in fractures.
112.78	115.82	3.04	3.04	100	0.58	19	--	2H	2W	rubbly and fractured
115.82	117.35	1.53	1.51	99	1.25	82	--	4H	1W	
117.35	120.40	3.05	3.02	99	1.80	59	--	4H	1W	friable section around 117.35m
120.40	123.44	3.04	3.04	100	2.74	90	--	4H	1W	
123.44	126.49	3.05	3.05	100	2.45	80	--	4H	1W	
126.49	129.54	3.05	3.05	100	2.44	80	--	4H	1W	
129.54	131.06	1.52	1.52	100	1.24	82	--	4H	1W	

KL -19-460

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0	OVB	
3	21.5	GRD	
4	0.25	GRD	
5	0.109	GRD	
6	12.3	GRD	
6	12.3	GRD	
7	0.226	GRD	
8	0.327	GRD	
9	0.221	GRD	
10	7.224	GRD	
11	0.48	GRD	
12	0.418	GRD	
13	0.234	GRD	
14	0.471	GRD	
15	1.249	GRD	
16	0.334	GRD	
17	14.55	GRD	
18	1.52	GRD	
19	0.669	GRD	
20	8.755	GRD	
21	20.56	GRD	
22	0.756	GRD	
23	0.38	GRD	
24	0.661	GRD	
25	0.556	GRD	
26	0.175	GRD	
27	2.405	GRD	
28	2.215	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.128	GRD	
30	0.363	GRD	
30	0.363	GRD	
31	13.06	GRD	
32	0.557	GRD	
32	0.557	GRD	
33	1.033	GRD	
34	0.728	GRD	
35	0.421	GRD	
36	0.714	GRD	
37	10.85	GRD	
38	17.74	GRD	
39	0.4	GRD	
40	0.645	GRD	
41	15.07	GRD	
42	0.993	GRD	
43	9.212	GRD	
44	18.81	GRD	
44	18.81	GRD	
45	17.45	GRD	
46	18.62	GRD	
47	10.82	GRD	
48	10.61	GRD	
49	23.35	GRD	
50	14.25	GRD	
51	9.026	GRD	
52	15.29	GRD	
53	0.624	GRD	
54	14.08	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
55	0.555	GRD	
56	3.239	GRD	
57	1.869	GRD	
58	1.028	GRD	
59	0.147	GRD	
60	0.247	GRD	
61	16.24	GRD	
62	23.12	GRD	
63	2.615	GRD	
64	3.014	GRD	
65	5.617	GRD	
66	21.22	GRD	
67	10.79	GRD	
68	1.581	GRD	
68	1.581	GRD	
69	12.49	GRD	
70	0.567	GRD	
71	80.4	GRD	
72	0.299	GRD	
73	4.557	GRD	
74	3.674	GRD	
75	4.486	GRD	
76	0.304	GRD	
77	0.324	GRD	
78	13.96	GRD	
79	18.72	GRD	
80	0.609	GRD	
81	7.608	GRD	
82	15.16	GRD	
83	1.378	GRD	
84	0.802	VEN	

Depth (m)	Magnetic Susceptibility	Unit	Comments
85	0.265	GRD	
86	0.264	GRD	
87	18.43	GRD	
88	1.484	GRD	
89	1.435	GRD	
90	1.82	GRD	
91	5.42	GRD	
92	0.854	GRD	
93	0.663	GRD	
94	2.2	GRD	
95	22.16	GRD	
96	7.379	GRD	
97	0.425	GRD	
98	0.281	GRD	
98	0.281	GRD	
99	0.192	GRD	
100	0.17	GRD	
101	0.137	GRD	
101	0.137	GRD	
102	0.17	GRD	
103	0.512	GRD	
104	0.298	GRD	
105	0.163	GRD	
106	0.191	GRD	
107	1.865	GRD	
107	1.865	GRD	
108	19.28	GRD	
109	9.231	GRD	
110	2.064	GRD	
111	0.773	GRD	
112	0.387	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
113	7.499	GRD	
114	0.152	GRD	
115	0.149	GRD	
116	0.255	GRD	
117	0.253	GRD	
117	0.253	GRD	
118	1.22	GRD	
118	1.22	GRD	
119	18.41	GRD	
120	2.16	GRD	
121	22.16	GRD	
122	19	GRD	
123	0.139	GRD	
124	0.481	GRD	
125	0.74	GRD	
126	0.127	GRD	
127	0.263	GRD	
128	16.02	GRD	
129	25.19	GRD	
130	0.384	GRD	
131	5.49	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-460

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W602640	☐	19-103	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602655	☐	19-103	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602679	☐	19-104	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602686	☐	19-104	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602695	☐	19-104	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602720	☐	19-106	lo grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602727	☐	19-106	lo grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602733	☐	19-106	lo grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602627	☐	19-103	low grade	ME-6	☐	☐	☐
1.16	3.00	1.84	OVB	0.90	49	W602621	☐	19-103	low grade		☐	☐	☐
3.00	4.57	1.57	GRD	1.12	71	W602622	☐	19-103	low grade		☐	☐	☐
4.57	6.00	1.43	GRD, GRD	1.19	83	W602623	☐	19-103	low grade		☐	☐	☐
6.00	7.32	1.32	GRD, GRD	1.23	93	W602624	☐	19-103	low grade		☐	☐	☐
7.32	7.70	0.38	GRD	0.38	100	W602625	☐	19-103	low grade		☐	☐	☐
7.70	9.20	1.50	GRD	1.40	93	W602626	☐	19-103	low grade		☐	☐	☐
9.20	10.70	1.50	GRD	1.50	100	W602628	☐	19-103	low grade		☐	☐	☐
10.70	12.20	1.50	GRD	1.47	98	W602629	☐	19-103	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
12.20	13.70	1.50	GRD	1.50	100	W602630	☐	19-103	low grade		☐	☐	☐
13.70	14.75	1.05	GRD	1.00	95	W602631	☐	19-103	low grade		☐	☐	☐
14.75	16.10	1.35	GRD	1.30	96	W602632	☐	19-103	low grade		☐	☐	☐
16.10	16.85	0.75	GRD, GRD	0.75	100	W602633	☐	19-103	low grade		☐	☐	☐
16.10	16.85	0.75	GRD, GRD	0.75	100	W602634	☐	19-103	low grade		☐	☐	☑
16.85	18.30	1.45	GRD	1.35	93	W602635	☐	19-103	low grade		☐	☐	☐
18.30	19.55	1.25	GRD	1.25	100	W602636	☐	19-103	low grade		☐	☐	☐
19.55	21.00	1.45	GRD	1.45	100	W602637	☐	19-103	low grade		☐	☐	☐
21.00	21.75	0.75	GRD	0.75	100	W602638	☐	19-103	low grade		☐	☐	☐
21.75	23.00	1.25	GRD	1.23	98	W602639	☐	19-103	low grade		☐	☐	☐
23.00	24.50	1.50	GRD	1.50	100	W602641	☐	19-103	low grade		☐	☐	☐
24.50	26.00	1.50	GRD	1.31	87	W602642	☐	19-103	low grade		☐	☐	☐
26.00	27.50	1.50	GRD	1.50	100	W602643	☐	19-103	low grade		☐	☐	☐
27.50	28.31	0.81	GRD	0.75	93	W602644	☐	19-103	low grade		☐	☐	☐
28.31	29.00	0.69	GRD	0.50	72	W602645	☐	19-103	low grade		☐	☐	☐
29.00	29.75	0.75	GRD	0.60	80	W602646	☐	19-103	low grade		☐	☐	☐
29.00	29.75	0.75	GRD	0.60	80	W602647	☐	19-103	low grade		☐	☑	☐
29.75	31.00	1.25	GRD	1.25	100	W602648	☐	19-103	low grade		☐	☐	☐
31.00	32.00	1.00	GRD	1.00	100	W602649	☐	19-103	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.00	33.50	1.50	GRD, GRD	1.48	99	W602650	☐	19-103	low grade		☐	☐	☐
33.50	34.50	1.00	GRD	0.99	99	W602651	☐	19-103	low grade		☐	☐	☐
34.50	35.25	0.75	GRD	0.71	95	W602652	☐	19-103	low grade		☐	☐	☐
35.25	36.50	1.25	GRD, GRD	1.24	99	W602653	☐	19-103	low grade		☐	☐	☐
36.50	38.00	1.50	GRD	1.50	100	W602654	☐	19-103	low grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.43	95	W602656	☐	19-103	low grade		☐	☐	☐
39.50	41.00	1.50	GRD	1.50	100	W602657	☐	19-103	low grade		☐	☐	☐
41.00	41.80	0.80	GRD	0.80	100	W602658	☐	19-103	low grade		☐	☐	☐
41.80	42.40	0.60	GRD, GRD	0.60	100	W602659	☐	19-103	low grade		☐	☐	☐
42.40	43.60	1.20	GRD	1.17	98	W602660	☐	19-103	low grade		☐	☐	☐
43.60	45.10	1.50	GRD	1.48	99	W602661	☐	19-104	low grade		☐	☐	☐
45.10	46.50	1.40	GRD	1.40	100	W602662	☐	19-104	low grade		☐	☐	☐
46.50	48.00	1.50	GRD	1.50	100	W602663	☐	19-104	low grade		☐	☐	☐
48.00	49.50	1.50	GRD	1.47	98	W602664	☐	19-104	low grade		☐	☐	☐
49.50	50.30	0.80	GRD	0.80	100	W602665	☐	19-104	low grade		☐	☐	☐
50.30	51.50	1.20	GRD	1.19	99	W602666	☐	19-104	low grade		☐	☐	☐
50.30	51.50	1.20	GRD	1.19	99	W602667	☐	19-104	low grade		☐	☐	☑
51.50	53.00	1.50	GRD	1.45	97	W602668	☐	19-104	low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.50	100	W602669	☐	19-104	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
54.50	56.00	1.50	GRD	1.50	100	W602670	☐	19-104	low grade		☐	☐	☐
56.00	57.50	1.50	GRD	1.50	100	W602671	☐	19-104	low grade		☐	☐	☐
57.50	59.00	1.50	GRD	1.50	100	W602672	☐	19-104	low grade		☐	☐	☐
59.00	60.50	1.50	GRD	1.50	100	W602673	☐	19-104	low grade		☐	☐	☐
59.00	60.50	1.50	GRD	1.50	100	W602674	☐	19-104	low grade		☐	☑	☐
60.50	62.00	1.50	GRD	1.50	100	W602675	☐	19-104	low grade		☐	☐	☐
62.00	63.50	1.50	GRD	1.50	100	W602676	☐	19-104	low grade		☐	☐	☐
63.50	65.00	1.50	GRD	1.50	100	W602677	☐	19-104	low grade		☐	☐	☐
65.00	66.50	1.50	GRD	1.50	100	W602678	☐	19-104	low grade		☐	☐	☐
66.50	68.00	1.50	GRD	1.50	100	W602680	☐	19-104	low grade		☐	☐	☐
68.00	69.40	1.40	GRD, GRD	1.40	100	W602681	☐	19-104	low grade		☐	☐	☐
69.40	70.00	0.60	GRD	0.60	100	W602682	☐	19-104	low grade		☐	☐	☐
70.00	71.00	1.00	GRD	1.00	100	W602683	☐	19-104	low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.50	100	W602684	☐	19-104	low grade		☐	☐	☐
72.50	74.00	1.50	GRD	1.50	100	W602685	☐	19-104	low grade		☐	☐	☐
74.00	75.50	1.50	GRD	1.50	100	W602687	☐	19-104	low grade		☐	☐	☐
75.50	77.00	1.50	GRD	1.45	97	W602688	☐	19-104	low grade		☐	☐	☐
77.00	78.50	1.50	GRD	1.50	100	W602689	☐	19-104	low grade		☐	☐	☐
78.50	79.85	1.35	GRD	1.35	100	W602690	☐	19-104	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
79.85	80.40	0.55	GRD	0.54	98	W602691	☐	19-104	low grade		☐	☐	☐
80.40	81.50	1.10	GRD	1.10	100	W602692	☐	19-104	low grade		☐	☐	☐
81.50	83.00	1.50	GRD	1.50	100	W602693	☐	19-104	low grade		☐	☐	☐
83.00	83.82	0.82	GRD	0.82	100	W602694	☐	19-104	low grade		☐	☐	☐
83.82	84.25	0.43	GRD, VEN	0.37	86	W599255	☐	19-085	high grade		☐	☐	☐
84.25	85.25	1.00	GRD	0.88	88	W602696	☐	19-104	low grade		☐	☐	☐
85.25	86.50	1.25	GRD	1.20	96	W602697	☐	19-104	low grade		☐	☐	☐
86.50	88.00	1.50	GRD	1.50	100	W602698	☐	19-104	low grade		☐	☐	☐
88.00	89.50	1.50	GRD	1.48	99	W602699	☐	19-104	low grade		☐	☐	☐
89.50	91.00	1.50	GRD	1.50	100	W602700	☐	19-104	low grade		☐	☐	☐
91.00	91.65	0.65	GRD	0.65	100	W602701	☐	19-106	lo grade		☐	☐	☐
91.65	92.72	1.07	GRD	1.07	100	W602702	☐	19-106	lo grade		☐	☐	☐
92.72	94.00	1.28	GRD	1.28	100	W602703	☐	19-106	lo grade		☐	☐	☐
94.00	95.50	1.50	GRD	1.50	100	W602704	☐	19-106	lo grade		☐	☐	☐
95.50	97.00	1.50	GRD	1.50	100	W602705	☐	19-106	lo grade		☐	☐	☐
97.00	98.50	1.50	GRD	1.45	97	W602706	☐	19-106	lo grade		☐	☐	☐
97.00	98.50	1.50	GRD	1.45	97	W602707	☐	19-106	lo grade		☐	☑	☐
98.50	99.38	0.88	GRD	0.88	100	W602708	☐	19-106	lo grade		☐	☐	☐
99.38	100.00	0.62	GRD	0.60	97	W602709	☐	19-106	lo grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
100.00	101.13	1.13	GRD	1.10	97	W602710	☐	19-106	lo grade		☐	☐	☐
101.13	102.50	1.37	GRD	1.35	99	W602711	☐	19-106	lo grade		☐	☐	☐
102.50	104.00	1.50	GRD	1.48	99	W602712	☐	19-106	lo grade		☐	☐	☐
104.00	105.00	1.00	GRD	1.00	100	W602713	☐	19-106	lo grade		☐	☐	☐
104.00	105.00	1.00	GRD	1.00	100	W602714	☐	19-106	lo grade		☐	☐	☑
105.00	106.00	1.00	GRD	1.00	100	W602715	☐	19-106	lo grade		☐	☐	☐
106.00	107.00	1.00	GRD	1.00	100	W602716	☐	19-106	lo grade		☐	☐	☐
107.00	108.50	1.50	GRD, GRD	1.50	100	W602717	☐	19-106	lo grade		☐	☐	☐
108.50	110.00	1.50	GRD, GRD	1.50	100	W602718	☐	19-106	lo grade		☐	☐	☐
110.00	111.00	1.00	GRD	1.00	100	W602719	☐	19-106	lo grade		☐	☐	☐
111.00	111.40	0.40	GRD	0.40	100	W602721	☐	19-106	lo grade		☐	☐	☐
111.40	112.70	1.30	GRD	1.30	100	W602722	☐	19-106	lo grade		☐	☐	☐
112.70	113.95	1.25	GRD	1.20	96	W602723	☐	19-106	lo grade		☐	☐	☐
113.95	115.15	1.20	GRD	1.20	100	W602724	☐	19-106	lo grade		☐	☐	☐
115.15	116.35	1.20	GRD	1.20	100	W602725	☐	19-106	lo grade		☐	☐	☐
116.35	117.45	1.10	GRD	1.10	100	W602726	☐	19-106	lo grade		☐	☐	☐
117.45	118.95	1.50	GRD	1.50	100	W602728	☐	19-106	lo grade		☐	☐	☐
118.95	120.45	1.50	GRD	1.50	100	W602729	☐	19-106	lo grade		☐	☐	☐
120.45	121.95	1.50	GRD	1.50	100	W602730	☐	19-106	lo grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
121.95	123.45	1.50	GRD	1.50	100	W602731	☐	19-106	lo grade		☐	☐	☐
123.45	124.75	1.30	GRD	1.30	100	W602732	☐	19-106	lo grade		☐	☐	☐
124.75	125.40	0.65	GRD	0.65	100	W602734	☐	19-106	lo grade		☐	☐	☐
125.40	126.40	1.00	GRD, GRD	1.00	100	W602735	☐	19-106	lo grade		☐	☐	☐
126.40	127.60	1.20	GRD	0.80	67	W602736	☐	19-106	lo grade		☐	☐	☐
127.60	128.60	1.00	GRD	1.00	100	W602737	☐	19-106	lo grade		☐	☐	☐
128.60	129.60	1.00	GRD	1.00	100	W602738	☐	19-106	lo grade		☐	☐	☐
129.60	130.20	0.60	GRD	0.60	100	W602739	☐	19-106	lo grade		☐	☐	☐
130.20	131.06	0.86	GRD	0.84	98	W602740	☐	19-106	lo grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-103	W602627	0.00	0.00	0.28	560	☐	☐	☐	☑ ME-6	ME-6
19-103	W602640	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-103	W602655	0.00	0.00	0.30	550	☐	☐	☐	☑ ME-6	ME-6
19-104	W602679	0.00	0.00	0.29	610	☐	☐	☐	☑ ME-6	ME-6
19-104	W602686	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-104	W602695	0.00	0.00	1.75	1190	☐	☐	☐	☑ KL-STD6	KL-ST6
19-106	W602720	0.00	0.00	0.00	50	☐	☐	☑	☐	blank
19-106	W602727	0.00	0.00	1.64	430	☐	☐	☐	☑ KL-STD6	kl6
19-106	W602733	0.00	0.00	0.30	590	☐	☐	☐	☑ ME-6	me6
19-103	W602621	1.16	3.00	0.03	2510	☐	☐	☐	☐	
19-103	W602622	3.00	4.57	0.02	2330	☐	☐	☐	☐	
19-103	W602623	4.57	6.00	0.13	2200	☐	☐	☐	☐	
19-103	W602624	6.00	7.32	0.06	2440	☐	☐	☐	☐	
19-103	W602625	7.32	7.70	0.06	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-103	W602626	7.70	9.20	0.14	2530	☐	☐	☐	☐	
19-103	W602628	9.20	10.70	0.05	2220	☐	☐	☐	☐	
19-103	W602629	10.70	12.20	0.02	2240	☐	☐	☐	☐	
19-103	W602630	12.20	13.70	0.21	1860	☐	☐	☐	☐	
19-103	W602631	13.70	14.75	0.32	1440	☐	☐	☐	☐	
19-103	W602632	14.75	16.10	0.04	2560	☐	☐	☐	☐	
19-103	W602633	16.10	16.85	0.07	2060	☐	☐	☐	☐	
19-103	W602634	16.10	16.85	0.38	2110	☐	☑	☐	☐	core dup
19-103	W602635	16.85	18.30	0.01	2130	☐	☐	☐	☐	
19-103	W602636	18.30	19.55	0.01	2790	☐	☐	☐	☐	
19-103	W602637	19.55	21.00	0.01	2460	☐	☐	☐	☐	
19-103	W602638	21.00	21.75	0.75	1330	☐	☐	☐	☐	
19-103	W602639	21.75	23.00	0.04	2060	☐	☐	☐	☐	
19-103	W602641	23.00	24.50	0.05	2140	☐	☐	☐	☐	
19-103	W602642	24.50	26.00	0.04	2450	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-103	W602643	26.00	27.50	0.06	2410	☐	☐	☐	☐	
19-103	W602644	27.50	28.31	0.05	2420	☐	☐	☐	☐	
19-103	W602645	28.31	29.00	19.40	190	☐	☐	☐	☐	
19-103	W602646	29.00	29.75	0.29	1280	☐	☐	☐	☐	
19-103	W602647	29.00	29.75	0.30	1510	☑	☐	☐	☐	1/4 dup
19-103	W602648	29.75	31.00	0.24	1740	☐	☐	☐	☐	
19-103	W602649	31.00	32.00	0.02	1990	☐	☐	☐	☐	
19-103	W602650	32.00	33.50	0.12	2790	☐	☐	☐	☐	
19-103	W602651	33.50	34.50	0.02	2330	☐	☐	☐	☐	
19-103	W602652	34.50	35.25	0.04	1530	☐	☐	☐	☐	
19-103	W602653	35.25	36.50	0.04	2290	☐	☐	☐	☐	
19-103	W602654	36.50	38.00	0.05	2550	☐	☐	☐	☐	
19-103	W602656	38.00	39.50	0.06	2790	☐	☐	☐	☐	
19-103	W602657	39.50	41.00	0.08	2430	☐	☐	☐	☐	
19-103	W602658	41.00	41.80	0.01	2220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-103	W602659	41.80	42.40	0.20	1270	☐	☐	☐	☐	
19-103	W602660	42.40	43.60	0.02	2140	☐	☐	☐	☐	
19-104	W602661	43.60	45.10	0.01	2190	☐	☐	☐	☐	
19-104	W602662	45.10	46.50	0.06	2380	☐	☐	☐	☐	
19-104	W602663	46.50	48.00	0.03	2530	☐	☐	☐	☐	
19-104	W602664	48.00	49.50	0.04	2660	☐	☐	☐	☐	
19-104	W602665	49.50	50.30	3.53	270	☐	☐	☐	☐	
19-104	W602666	50.30	51.50	0.08	2500	☐	☐	☐	☐	
19-104	W602667	50.30	51.50	0.06	2590	☐	☑	☐	☐	coarsse fup
19-104	W602668	51.50	53.00	0.03	2390	☐	☐	☐	☐	
19-104	W602669	53.00	54.50	0.02	2270	☐	☐	☐	☐	
19-104	W602670	54.50	56.00	0.04	2460	☐	☐	☐	☐	
19-104	W602671	56.00	57.50	0.02	1610	☐	☐	☐	☐	
19-104	W602672	57.50	59.00	0.04	1870	☐	☐	☐	☐	
19-104	W602673	59.00	60.50	0.82	600	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-104	W602674	59.00	60.50	1.28	330	☑	☐	☐	☐	1/4 dup
19-104	W602675	60.50	62.00	0.02	3120	☐	☐	☐	☐	
19-104	W602676	62.00	63.50	0.04	2270	☐	☐	☐	☐	
19-104	W602677	63.50	65.00	0.04	2250	☐	☐	☐	☐	
19-104	W602678	65.00	66.50	0.04	2190	☐	☐	☐	☐	
19-104	W602680	66.50	68.00	0.03	2270	☐	☐	☐	☐	
19-104	W602681	68.00	69.40	0.33	2930	☐	☐	☐	☐	
19-104	W602682	69.40	70.00	1.94	750	☐	☐	☐	☐	
19-104	W602683	70.00	71.00	0.01	2940	☐	☐	☐	☐	
19-104	W602684	71.00	72.50	0.04	1210	☐	☐	☐	☐	
19-104	W602685	72.50	74.00	0.02	2290	☐	☐	☐	☐	
19-104	W602687	74.00	75.50	0.02	2270	☐	☐	☐	☐	
19-104	W602688	75.50	77.00	0.04	2560	☐	☐	☐	☐	
19-104	W602689	77.00	78.50	0.02	2130	☐	☐	☐	☐	
19-104	W602690	78.50	79.85	0.01	2490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-104	W602691	79.85	80.40	0.20	850	☐	☐	☐	☐	
19-104	W602692	80.40	81.50	0.12	2760	☐	☐	☐	☐	
19-104	W602693	81.50	83.00	0.02	3160	☐	☐	☐	☐	
19-104	W602694	83.00	83.82	0.06	710	☐	☐	☐	☐	
19-085	W599255	83.82	84.25	10.75	50	☐	☐	☐	☐	hi grade
19-104	W602696	84.25	85.25	0.07	330	☐	☐	☐	☐	
19-104	W602697	85.25	86.50	0.36	220	☐	☐	☐	☐	
19-104	W602698	86.50	88.00	0.02	2170	☐	☐	☐	☐	
19-104	W602699	88.00	89.50	0.06	2340	☐	☐	☐	☐	
19-104	W602700	89.50	91.00	0.01	2770	☐	☐	☐	☐	
19-106	W602701	91.00	91.65	0.00	2670	☐	☐	☐	☐	
19-106	W602702	91.65	92.72	0.02	1820	☐	☐	☐	☐	
19-106	W602703	92.72	94.00	0.02	2260	☐	☐	☐	☐	
19-106	W602704	94.00	95.50	0.01	2330	☐	☐	☐	☐	
19-106	W602705	95.50	97.00	0.01	2530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-106	W602706	97.00	98.50	0.04	2220	☐	☐	☐	☐	
19-106	W602707	97.00	98.50	0.08	2590	☑	☐	☐	☐	1/4 dup
19-106	W602708	98.50	99.38	0.07	820	☐	☐	☐	☐	
19-106	W602709	99.38	100.00	0.19	230	☐	☐	☐	☐	
19-106	W602710	100.00	101.13	0.06	760	☐	☐	☐	☐	
19-106	W602711	101.13	102.50	0.04	860	☐	☐	☐	☐	
19-106	W602712	102.50	104.00	0.07	750	☐	☐	☐	☐	
19-106	W602713	104.00	105.00	0.02	2240	☐	☐	☐	☐	
19-106	W602714	104.00	105.00	0.02	2170	☐	☑	☐	☐	coarse dup
19-106	W602715	105.00	106.00	0.01	1260	☐	☐	☐	☐	
19-106	W602716	106.00	107.00	0.01	1760	☐	☐	☐	☐	
19-106	W602717	107.00	108.50	0.09	2190	☐	☐	☐	☐	
19-106	W602718	108.50	110.00	0.01	2290	☐	☐	☐	☐	
19-106	W602719	110.00	111.00	0.01	2210	☐	☐	☐	☐	
19-106	W602721	111.00	111.40	0.13	90	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-106	W602722	111.40	112.70	0.04	1580	☐	☐	☐	☐	
19-106	W602723	112.70	113.95	0.07	2230	☐	☐	☐	☐	
19-106	W602724	113.95	115.15	0.03	1030	☐	☐	☐	☐	
19-106	W602725	115.15	116.35	0.30	410	☐	☐	☐	☐	
19-106	W602726	116.35	117.45	0.17	280	☐	☐	☐	☐	
19-106	W602728	117.45	118.95	0.02	2400	☐	☐	☐	☐	
19-106	W602729	118.95	120.45	0.02	2350	☐	☐	☐	☐	
19-106	W602730	120.45	121.95	0.01	2890	☐	☐	☐	☐	
19-106	W602731	121.95	123.45	0.01	1400	☐	☐	☐	☐	
19-106	W602732	123.45	124.75	0.01	1920	☐	☐	☐	☐	
19-106	W602734	124.75	125.40	0.03	800	☐	☐	☐	☐	
19-106	W602735	125.40	126.40	0.01	630	☐	☐	☐	☐	
19-106	W602736	126.40	127.60	0.02	1630	☐	☐	☐	☐	
19-106	W602737	127.60	128.60	0.01	3500	☐	☐	☐	☐	
19-106	W602738	128.60	129.60	0.01	2580	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-106	W602739	129.60	130.20	0.05	680	☐	☐	☐	☐	
19-106	W602740	130.20	131.06	0.03	2980	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.50	7.62	VN	37	30	NUL	1	quartz vein with flaky moly and pyrite			
								Mo	2	DI
								Py	1	DI
12.80	12.90	FT	42	30	NUL	1	gouged fault zone in grd			
16.10	16.50	ST		30	NUL	1	two 1 cm wide quartz veinlets 1 m wide with weak pyrite			
								Py	0.5	DI
49.40	50.00	ST		70	NUL	4	pyrite bearing veinlets			
								Py	1	DI
53.00	60.00	ST		70	NUL	>30	pyrite bearing quartz veinlets			
								Py	1	DI
62.00	69.50	ST		70	NUL	>99	pyite bearing quartz pyrite stringers			
								Py	0.5	DI
70.00	73.00	ST		70	NUL	30	pyite bearing quartz stringers			
								Py	1	DI
73.00	83.82	ST		70	NUL	>50	pyite bearing quartz stringers			
								Py	1	DI
83.82	84.20	VN	37	60	NUL	1	quart carbontae vein with banded semimassive pyrite, dissmeinated blebby sphalerite, and trace finegrained galena			
								Py	10	DI
								Gn	1	DI
								Sp	5	BL
84.20	90.50	ST		70	NUL	20	pyrite bearing quartz veinlets			
								Py	0.5	DI
93.00	94.50	ST		70	NUL	8	pyrite bearing stringers			
								Py	0.2	DI
99.00	101.00	ST		70	NUL	12	pyrite bearing quartz stringers			
								Py	0.5	DI
104.00	107.00	ST		70	NUL	10	pyrite bearing quartz stringers			
								Py	0.5	DI
111.25	111.29	VT	37	70	NUL	1	pyrite beaing quartz veins			
								Py	2	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
111.30	113.50	ST		70	NUL	10	barren quartz veinlets with weak vggy teextures within modeately argillic altered granodioirte			
115.00	116.00	ST		70	NUL	3	pyrit ebearing stringres 5 mm wide			
								Py	0.5	DI
125.50	127.00	ST		70	NUL	10	pyrite bearing stringers			
								Py	0.5	DI
129.95	125.96	VT	37	60	NUL	1	pyrit ebearing quartz veinlet			
								Py	1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383046	6889256	1455.287	147.83

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-461

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 12.1m, Out

Drilling Dates: Oct 27 - Oct 29, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
12	62.06	-49.1	Reflex
147	37.26	-48.8	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3	3	OVB
3	11.5	8.5	GRD
11.5	12.4	0.9	GRD
12.4	14.5	2.1	GRD
14.5	16.76	2.26	GRD
16.76	17.32	0.56	GRD
17.32	19	1.68	GRD
19	20.6	1.6	GRD
20.6	23.3	2.7	GRD
23.3	24	0.7	GRD
24	25.6	1.6	GRD
25.6	28.5	2.9	GRD
28.5	31	2.5	GRD
31	33.6	2.6	GRD
33.6	35.5	1.9	GRD
35.5	37.22	1.72	GRD

SAMPLES	
Numbers:	W599261 to W599265, W602741 to W602871
Total:	136
Batch:	085, 107, 108, 111, 112
Certificates:	WH19255767, WH19255798, WH19255800, WH19255807, WH19255811, WH19300238

COMMENTS

37.22	40.8	3.58	GRD
40.8	42.3	1.5	GRD
42.3	44	1.7	GRD
44	53	9	GRD
53	53.8	0.8	GRD
53.8	57.8	4	GRD
57.8	58.14	0.34	GRD
58.14	58.28	0.14	VEN
58.28	59	0.72	GRD
59	59.92	0.92	GRD
59.92	59.98	0.06	VEN
59.98	62	2.02	GRD
62	64.5	2.5	GRD
64.5	68.85	4.35	GRD
68.85	69.5	0.65	GRD
69.5	74.5	5	GRD
74.5	77	2.5	GRD
77	79	2	GRD
79	80.3	1.3	GRD
80.3	82	1.7	GRD
82	84.5	2.5	GRD
84.5	85.34	0.84	GRD
85.34	88	2.66	GRD
88	89	1	GRD
89	89.5	0.5	GRD
89.5	92	2.5	GRD
92	93.32	1.32	GRD
93.32	93.42	0.1	VEN
93.42	95.9	2.48	GRD
95.9	96.36	0.46	VEN
96.36	97.2	0.84	GRD
97.2	99	1.8	GRD

99	100.58	1.58	GRD
100.58	102.38	1.8	GRD
102.38	105.08	2.7	GRD
105.08	105.5	0.42	GRD
105.5	108.1	2.6	GRD
108.1	110.8	2.7	GRD
110.8	111.5	0.7	GRD
111.5	113	1.5	GRD
113	114	1	GRD
114	118.5	4.5	GRD
118.5	120	1.5	GRD
120	122.66	2.66	GRD
122.66	124.44	1.78	GRD
124.44	125.1	0.66	GRD
125.1	129.82	4.72	GRD
129.82	129.94	0.12	VEN
129.94	131.9	1.96	GRD
131.9	133	1.1	GRD
133	139	6	GRD
139	140.95	1.95	GRD
140.95	141.35	0.4	GRD
141.35	144.5	3.15	GRD
144.5	145.5	1	GRD
145.5	147.83	2.33	GRD

Box Log

KL -19-461

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.11	5
2	5	9.14
3	9.14	13.49
4	13.49	17.32
5	17.32	20.86
6	20.86	24.88
7	24.88	28.8
8	28.8	33.16
9	33.16	37.29
10	37.29	41.5
11	41.5	45.72
12	45.72	50
13	50	54.22
14	54.22	58.46
15	58.46	62.59
16	62.59	66.74
17	66.74	71.02
18	71.02	75.24
19	75.24	79.42
20	79.42	83.81
21	83.81	88
22	88	92.27
23	92.27	96.57
24	96.57	100.96
25	100.96	105.23
26	105.23	109.5
27	109.5	113.87
28	113.87	118.21
29	118.21	122.65
30	122.65	126.85
31	126.85	131.34
32	131.34	135.64
33	135.64	139.69
34	139.69	143.86
35	143.86	147.83

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-461									
	23.23	23	NTW	GRD	1538	1008	2.37	2.9	
	93.33	9	NTW	VEN	883.2	673.8	3.47	4.2	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	OVB	--	ovb							
3.00	11.50	8.50	GRD	MG	oxidized, bleached rubbly to gravelly granodioirte							
						LT	GY		OXI	3I		
						LT	BN		BLE	2I		
11.50	12.40	0.90	GRD	MG	oxidized, bleahed granodioirte with weak 70 TCA sstringers throughout, barren of sulfide							
						LT	BN		SIL	1I		
12.40	14.50	2.10	GRD	MG	unaltered granodioirte							
						MD	GY					
14.50	16.76	2.26	GRD	MG	bleahed and oxidized, weakly propylitic altered granodioirte with ~25 70 TCA pyrite bearing stringers							
						MD	GY		BLE	2I	Py	0.5
						LT	BN		OXI	2I		
16.76	17.32	0.56	GRD	MG	unaltered granodioirte							
						MD	GY					
17.32	19.00	1.68	GRD	MG	weakly bleahed and oxidized granodiorite with one 1cm wie pyrite veinlet 70 TCA							
						MD	GY		BLE	2I	Py	0.1
						MD	BN		OXI	2I		
19.00	20.60	1.60	GRD	MG	rbubly, clay altered on fractuers, faulted granodioirte with no sulfide veinlets eveloped.							
						MD	BN		BLE	2I		
									CLY	3I		
									OXI	2I		
20.60	23.30	2.70	GRD	MG	oxidized and bleached granodioirt wwith patchy weak propylitic alteration							
						MD	BN		OXI	2I		
									BLE	2I		
23.30	24.00	0.70	GRD	MG	oxidized weakly clay altered granodioirte with two small pyrite bearing quartz veinleets 70 TCA							
						LT	BN		CLY	2I	Py	0.1
									LIM	2I		
									SIL	1I		
24.00	25.60	1.60	GRD	MG	unaltered, weakly oxidized granoioirte							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN		OXI	1I		
						MD	GY					
25.60	28.50	2.90	GRD	MG	faulte, rubbly, oxiized and weakly clay gouged granodioirtw with trae sisseminated blebby pyrite rich gouged intervals within broader interval							
						MD	GY		SIL	1I	Py	0.5
						LT	BN		OXI	2I		
						LT	GY		BLE	2I		
28.50	31.00	2.50	GRD	MG	bleached, weakly oxidized granodioirte with patchy argillic alteration							
						MD	BN		BLE	2I		
						LT	GY		OXI	2I		
						LT	BN					
31.00	33.60	2.60	GRD	MG	unaltered granodioirte							
						MD	GY					
33.60	35.50	1.90	GRD	MG	unaltered granoiorite, besides a set of 70 TCA pyrite bearing quatyz stringers							
						MD	GY		SIL	1I	Py	0.1
35.50	37.22	1.72	GRD	MG	traec porpylitic altered granodioirte							
						MD	GN		PRO	1I		
						MD	GY					
37.22	40.80	3.58	GRD	MG	moderately propyoitic and weak argillic altered granodioirte with set of pyrite bearing quartz veins (3; 2 cm wide, 30 TCA), and another set of 70 TCA pyrite bearing quartz stringers							
						MD	GY		PRO	3I	Py	1
						MD	GN		SIL	1I		
40.80	42.30	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
42.30	44.00	1.70	GRD	MG	weakly propyliti altered granoioirte with 70 TCA pyrite stingers (4 observedin interval)							
						MD	GY					
						MD	GN		PRO	2I		
44.00	53.00	9.00	GRD	MG	unaltered granodioirte							
						MD	GY					
53.00	53.80	0.80	GRD	MG	weak argilli altered granodioirte							
						LT	GY		ARG	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						LT	GN					
53.80	57.80	4.00	GRD	MG	unaltered granoioirte							
						MD	GY					
57.80	58.14	0.34	GRD	MG	siliified, moderately propyliti altered granodioirte with weak dissemianted pyrite in groundmass							
						LT	WH		PRO	3I	Py	1
						LT	GY		SIL	4I		
58.14	58.28	0.14	VEN	MG	quart carbonate vein, 80 TCA with banded pyrite							
						LT	WH		SIL	5I	Py	10
58.28	59.00	0.72	GRD	MG	moderately propylitic grd with weak pyrite strginers trending 70 TCA							
						MD	GN		PRO	3I	Py	0.5
						MD	GY					
59.00	59.92	0.92	GRD	MG	unaltered ganodioirte							
						MD	GY					
59.92	59.98	0.06	VEN	MG	banded pyrite bearing quartz vein, 80 TCA							
						MD	GY		SIL	5I	Py	10
59.98	62.00	2.02	GRD	MG	unaltered granodioirte							
						MD	GY					
62.00	64.50	2.50	GRD	MG	fractured, moderately argilli altered granoidoirte, weakly oxidized on fracture surfaces							
						MD	GY		PRO	1I		
						LT	GN		OXI	2I		
						LT	GY		ARG	3I		
64.50	68.85	4.35	GRD	MG	unaltered granodioirte							
						MD	GY					
68.85	69.50	0.65	GRD	MG	moderately propyltiic and weakly pervasively silicified granodioirtoe with weak 70 TCA pyrite stringers							
						MD	GN		PRO	2I	Py	0.1
						MD	GY		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
69.50	74.50	5.00	GRD	MG	unaltered granodioirte							
						MD	GY					
74.50	77.00	2.50	GRD	MG	moderately propylitic altered grd with weak pyrite stringers 70 TCA thoruhout							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	1I		
77.00	79.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
79.00	80.30	1.30	GRD	MG	moderately argillic and propylitic altered granodioirte							
						MD	GY					
						LT	WH					
						LT	GN		ARG	3I		
						LT	GY		PRO	3I		
80.30	82.00	1.70	GRD	MG	moderately propylitic and siliceous granodiorite with 4 80 TCA pyrite stringers and weak dissem pyrite throughout, as well as one parallel TCA fractures that hosts dissem pyrite							
						MD	GN		SIL	2I	Py	0.75
						MD	GY		PRO	3I		
82.00	84.50	2.50	GRD	MG	unaltered granodioirte							
						MD	GY					
84.50	85.34	0.84	GRD	MG	fractured, fragmental granodioirte with carbonate on fracutre surfaces							
						MD	GY					
						LT	WH		ARG	1I		
85.34	88.00	2.66	GRD	MG	weakly propylitic altered granodioirte with 70 TCA quartz carbonate strginers devoid of sulfide							
						MD	GY					
						MD	GN		PRO	1I		
88.00	89.00	1.00	GRD	MG	unaltered granodioite							
						MD	GY					
89.00	89.50	0.50	GRD	MG	weakly propyltici granodiorite with 80 TAC quartz carbonate stringers cevoid of sulfide							
						MD	GY		PRO	1I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
89.50	92.00	2.50	GRD	MG	unaltered granodioite							
						MD	GN					
						MD	GY					
92.00	93.32	1.32	GRD	MG	moederately propylitic and silicified granodioirte with 70 TCA wquartz carbonate veinlets that hae weak disseminated pyrite							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	2I		
93.32	93.42	0.10	VEN	MG	quartz carbonate vein with semimasive banded pyrite trending 70 TAC							
						MD	GY		SIL	5I	Py	25
						LT	WH					
93.42	95.90	2.48	GRD	MG	moderately propylitic and argillic altered granodiorite with 70 TCA pyrite stringers developed throughout (weak, 30 cm spacings)							
						MD	GY					
						LT	WH		ARG	3I	Py	0.5
						LT	GN		PRO	3I		
95.90	96.36	0.46	VEN	MG	banded semimassive sulfide vein with cooloform quartz carbonate bands, semimassive blebby disseminated pyrite, and weak dissemianted sphalerite. Weakly brecciated texture, sharp upper and lower contact trends 60 TCA.							
						LT	WH				Py	15
						LT	GY		SIL	5I	Sp	2
96.36	97.20	0.84	GRD	MG	moderately propytlici and silicified granoioirte with 70 TCA pyrite stringers							
						MD	GY		SIL	2I		
						MD	GN		PRO	2I	Py	1
97.20	99.00	1.80	GRD	MG	unaltered granodioirte							
						MD	GY					
99.00	100.58	1.58	GRD	MG	moderately silicified, propylitic, and argillic altered granodioirte with weak quartz and carbonate along fracutes, hairline; no sulfide							
						LT	GY		PRO	3I		
						LT	GN		SIL	1I		
									ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.58	102.38	1.80	GRD	MG	moderate to strong argillic altered, heavily fractured and clay altered granodioirte. Soft to the touch, likely related to faulting; sharp lower contat of fault trends 30 TCA							
						LT	GY		CLY	3I		
						LT	GN		PRO	2I		
									ARG	4I		
102.38	105.08	2.70	GRD	MG	moderately propylitic and argillic altered granodioirte with pryite stringer veinlets 70 TCA throughout entire interval, with dark grey alteration haloes around them.							
						MD	GY		ARG	4I		
						LT	GY		PRO	3I		
						LT	GN		CLY	3I	Py	0.5
105.08	105.50	0.42	GRD	MG	strongly argillic and propylitic altered grd with a 30 TCA set of tfractures that likely represent a fulat surface							
						LT	GN		PRO	3I		
						LT	GY		ARG	4I		
									SIL	1I		
105.50	108.10	2.60	GRD	MG	moderately propylitic altered grd with 70 TAC pyrite stringers; spaced around 30 cm apart							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
108.10	110.80	2.70	GRD	MG	unaltered granodiorite							
						MD	GY					
110.80	111.50	0.70	GRD	MG	moderately propylitic altered granodioirte with 5 70 TCA pyrite stringers							
						MD	GY		PRO	4I	Py	1
						MD	GN					
111.50	113.00	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
113.00	114.00	1.00	GRD	MG	moderately propylitic altered granodiorite with 7 pyrite strginers 70 TCA							
						MD	GY		PRO	1I	Py	0.1
						MD	GN					
114.00	118.50	4.50	GRD	MG	unaltered granodioirte							
						MD	GY					
118.50	120.00	1.50	GRD	MG	moderately propylitic altered granodiorite with 70 TCA pyrite stringers developed throughout.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PRO	3I	Py	1.5
						MD	GN		SIL	1I		
120.00	122.66	2.66	GRD	MG	unaltered granodioirte							
						MD	GY					
122.66	124.44	1.78	GRD	MG	moderately propylitic altered granodioirte with 70 TCA pyrite stringers							
						LT	GY		PRO	3I	Py	0.5
						LT	GN		ARG	2I		
124.44	125.10	0.66	GRD	MG	faulted, with sharp upper and lower contact trending 30 TCA, phyllic altered granodiorite with seriite and pyrite alteration throughout entire interval							
						LT	GN		SIL	1I	Py	5
						LT	GY		ARG	3I		
									PHC	3I		
125.10	129.82	4.72	GRD	MG	moderately propylitic an silicified granodioirte, with patchy argillic alteration, and quartz veins 80 TCA from 1 mm to 2 cm wide containging trace pyrite. 3 veinlets have pyrite and minor sphalerite within.							
						MD	GY		PRO	3I	Sp	0.1
						MD	GN		SIL	2I	Py	1
						LT	GY		ARG	2I		
129.82	129.94	0.12	VEN	MG	70 TCA quarzt carbonate vein with breiated texture, and one 1 cm band of pyrite with lesser sphalerite							
						LT	GY		SIL	5I	Sp	1
						LT	WH				Py	5
129.94	131.90	1.96	GRD	MG	weakly argillic altered granodioirte							
						LT	GY		ARG	3I		
						LT	WH					
131.90	133.00	1.10	GRD	MG	unaltered granodioirte with trace pyrite strigners containing pyrite							
						MD	GY				Py	0.1
133.00	139.00	6.00	GRD	MG	unaltered granodioirte							
						MD	GY					
139.00	140.95	1.95	GRD	MG	moderately propylitic and silicified granodiorite with 70 TAC pyirite stringers							
						MD	GY		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
140.95	141.35	0.40	GRD	MG	low angle fault 30 TCA, immediately following this sharp upper contat is silicified smokey grey granodiorite/quartz with lay gouge and dissemianted pyrite							
						LT	GY		CLY	5I	Py	1
									SIL	5I		
141.35	144.50	3.15	GRD	MG	pathy argillic and propylitic altered granodioirte with weak 70 TCA pyrite stringers							
						MD	GY		PRO	3I	Py	0.1
						LT	GN		ARG	3I		
						LT	GY					
144.50	145.50	1.00	GRD	MG	stronlgy propyltic and silicified granodiorite with three 1 cm wide 70 TCA pyrite bearing quartz veinlets							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		PRO	4I		
145.50	147.83	2.33	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	3.00	3.00	OVB	OVB	--	ovb
3.00	11.50	8.50	GRD	GRD	MG	oxidized, bleached rubbly to gravelly granodioirte
11.50	12.40	0.90	GRD	GRDA	MG	oxidized, bleahed granodioirte with weak 70 TCA sstringers throughout, barren of sulfide
12.40	14.50	2.10	GRD	GRD	MG	unaltered granodioirte
14.50	16.76	2.26	GRD	GRDA	MG	bleahed and oxidized, weakly propylitic altered granodioirte with ~25 70 TCA pyrite bearing stringers
16.76	17.32	0.56	GRD	GRD	MG	unaltered granodioirte
17.32	19.00	1.68	GRD	GRDS	MG	weakly bleahed and oxidized granodiorite with one 1cm wie pyrite veinlet 70 TCA
19.00	20.60	1.60	GRD	GRDF	MG	rbubly, clay altered on fractuers, faulted granodioirte with no sulfide veinlets eveloped.
20.60	23.30	2.70	GRD	GRDA	MG	oxidized and bleached granodioirt wwith patchy weak propylitic alteration
23.30	24.00	0.70	GRD	GRDM	MG	oxidized weakly clay altered granodioirte with two small pyrite bearing quartz veinleets 70 TCA
24.00	25.60	1.60	GRD	GRDA	MG	unaltered, weakly oxidized granoioirte
25.60	28.50	2.90	GRD	FLTM	MG	faulte, rubbly, oxiized and weakly clay gouged granodioirtw with trae sisseminated blebby pyrite rich gouged intervals within broader interval
28.50	31.00	2.50	GRD	GRDA	MG	bleached, weakly oxidized granodioirte with patchy argillic alteration
31.00	33.60	2.60	GRD	GRD	MG	unaltered granodioirte
33.60	35.50	1.90	GRD	GRDM	MG	unaltered granoiorite, besides a set of 70 TCA pyrite bearing quatyz stringers
35.50	37.22	1.72	GRD	GRDA	MG	traec porpylitic altered granodioirte
37.22	40.80	3.58	GRD	GRDM	MG	moderately propyoitic and weak argillic altered granodioirte with set of pyrite bearing quartz veins (3; 2 cm wide, 30 TCA), and another set of 70 TCA pyrite bearing quartz stringers
40.80	42.30	1.50	GRD	GRD	MG	unaltered granodioirte
42.30	44.00	1.70	GRD	GRDM	MG	weakly propyliti altered granoioirte with 70 TCA pyrite stingers (4 observedin interval)
44.00	53.00	9.00	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
53.00	53.80	0.80	GRD	GRDA	MG	weak argilli altered granodioirte
53.80	57.80	4.00	GRD	GRD	MG	unaltered granoioirte
57.80	58.14	0.34	GRD	GRDM	MG	siliified, moderately propyliti altered granodioirte with weak dissemianted pyrite in groundmass
58.14	58.28	0.14	VEN	VEIN	MG	quart carbonate vein, 80 TCA with banded pyrite
58.28	59.00	0.72	GRD	GRDM	MG	moderately propylitic grd with weak pyrite strginers trending 70 TCA
59.00	59.92	0.92	GRD	GRD	MG	unaltered ganodioirte
59.92	59.98	0.06	VEN	VEIN	MG	banded pyrite bearing quartz vein, 80 TCA
59.98	62.00	2.02	GRD	GRD	MG	unaltered granodioirte
62.00	64.50	2.50	GRD	GRDF	MG	fractured, moderately argilli altered granoidoirte, weakly oxidized on fracture surfaces
64.50	68.85	4.35	GRD	GRD	MG	unaltered granodioirte
68.85	69.50	0.65	GRD	GRDM	MG	moderately propyltiic and weakly pervasively silicified granodioirtoe with weak 70 TCA pyrite stringers
69.50	74.50	5.00	GRD	GRD	MG	unaltered granodioirte
74.50	77.00	2.50	GRD	GRDM	MG	moderately propylitic altered grd with weak pyrite stringers 70 TCA thoruhout
77.00	79.00	2.00	GRD	GRD	MG	unaltered granodioirte
79.00	80.30	1.30	GRD	GRDA	MG	moderately argillic and propylitic altered granodioirte
80.30	82.00	1.70	GRD	GRDM	MG	moderately propylitic and siliceous granodiorite with 4 80 TCA pyrite stringers and weak dissem pyrite throughout, as well as one parallel TCA fractures that hosts dissem pyrite
82.00	84.50	2.50	GRD	GRD	MG	unaltered granodioirte
84.50	85.34	0.84	GRD	GRDA	MG	fractured, fragmental granodioirte with carbonate on fracutre surfaces
85.34	88.00	2.66	GRD	GRDA	MG	weakly propylitic altered granodioirte with 70 TCA quartz carbonate strginers devoid of sulfide
88.00	89.00	1.00	GRD	GRD	MG	unaltered granodioite
89.00	89.50	0.50	GRD	GRDA	MG	weakly propyltici granodiorite with 80 TAC quartz carbonate stringers cevoid of sulfide

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
89.50	92.00	2.50	GRD	GRD	MG	unaltered granodioite
92.00	93.32	1.32	GRD	GRDM	MG	moederately propylitic and silicified granodioirte with 70 TCA wquartz carbonate veinlets that hae weak disseminated pyrite
93.32	93.42	0.10	VEN	VEIN	MG	quartz carbonate vein with semimasive banded pyrite trending 70 TAC
93.42	95.90	2.48	GRD	GRDM	MG	moderately propylitic and argillic altered granodiorite with 70 TCA pyrite stringers developed throughout (weak, 30 cm spacings)
95.90	96.36	0.46	VEN	VEIN	MG	banded semimassive sulfide vein with cooloform quartz carbonate bands, semimassive blebby disseminated pyrite, and weak dissemianted sphalerite. Weakly brecciated texture, sharp upper and lower contact trends 60 TCA.
96.36	97.20	0.84	GRD	GRDM	MG	moderately propytlici and silicified granoioirte with 70 TCA pyrite stringers
97.20	99.00	1.80	GRD	GRD	MG	unaltered granodioirte
99.00	100.58	1.58	GRD	GRDA	MG	moderately silicified, propylitic, and argillic altered granodioirte with weak quartz and carbonate along fracutes, hairline; no sulfide
100.58	102.38	1.80	GRD	GRDF	MG	moderate to strong argillic altered, heavily fractured and clay altered granodioirte. Soft to the touch, likely related to faulting; sharp lower contat of fault trends 30 TCA
102.38	105.08	2.70	GRD	GRDM	MG	moderately propylitic and argillic altered granodioirte with pryite stringer veinlets 70 TCA throughout entire interval, with dark grey alteration haloes around them.
105.08	105.50	0.42	GRD	GRDF	MG	strongly argillic and propylitic altered grd with a 30 TCA set of tfractures that likely represent a fulat surface
105.50	108.10	2.60	GRD	GRDM	MG	moderately propylitic altered grd with 70 TAC pyrite stringers; spaced around 30 cm apart
108.10	110.80	2.70	GRD	GRD	MG	unaltered granodiorite
110.80	111.50	0.70	GRD	GRDM	MG	moderately propylitic altered granodioirte with 5 70 TCA pyrite stringers
111.50	113.00	1.50	GRD	GRD	MG	unaltered granodioirte
113.00	114.00	1.00	GRD	GRDM	MG	moderately propylitic altered granodiorite with 7 pyrite strginers 70 TCA
114.00	118.50	4.50	GRD	GRD	MG	unaltered granodioirte
118.50	120.00	1.50	GRD	GRDM	MG	moderately propylitic altered granodiorite with 70 TCA pyrite stringers developed throughout.
120.00	122.66	2.66	GRD	GRD	MG	unaltered granodioirte
122.66	124.44	1.78	GRD	GRDM	MG	moderately propylitic altered granodioirte with 70 TCA pyrite stringers

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
124.44	125.10	0.66	GRD	FLTM	MG	faulted, with sharp upper and lower contact trending 30 TCA, phyllic altered granodiorite with seriite and pyrite alteration throughout entire interval
125.10	129.82	4.72	GRD	GRDM	MG	moderately propylitic an silicified granodioirte, with patchy argillic alteration, and quartz veins 80 TCA from 1 mm to 2 cm wide containging trace pyrite. 3 veinlets have pyrite and minor sphalerite within.
129.82	129.94	0.12	VEN	VEIN	MG	70 TCA quarzt carbonate vein with breiated texture, and one 1 cm band of pyrite with lesser sphalerite
129.94	131.90	1.96	GRD	GRDA	MG	weakly argillic altered granodioirte
131.90	133.00	1.10	GRD	GRDM	MG	unaltered granodioirte with trace pyrite strigners containing pyrite
133.00	139.00	6.00	GRD	GRD	MG	unaltered granodioirte
139.00	140.95	1.95	GRD	GRDA	MG	moderately propylitic and silicified granodiorite with 70 TAC pyirite stringers
140.95	141.35	0.40	GRD	FLTM	MG	low angle fault 30 TCA, immediately following this sharp upper contat is silicified smokey grey granodiorite/quartz with lay gouge and dissemianted pyrite
141.35	144.50	3.15	GRD	GRDA	MG	pathy argillic and propylitic altered granodioirte with weak 70 TCA pyrite stringers
144.50	145.50	1.00	GRD	GRDM	MG	stronlgy propyltic and silicified granodiorite with three 1 cm wide 70 TCA pyrite bearing quartz veinlets
145.50	147.83	2.33	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	OVB	--	ovb							
3.00	11.50	8.50	GRD	MG	oxidized, bleached rubbly to gravelly granodioirte							
						LT	GY		BLE	2I		
						LT	BN		OXI	3I		
11.50	12.40	0.90	GRD	MG	oxidized, bleahed granodioirte with weak 70 TCA sstringers throughout, barren of sulfide							
						LT	BN		SIL	1I		
12.40	14.50	2.10	GRD	MG	unaltered granodioirte							
						MD	GY					
14.50	16.76	2.26	GRD	MG	bleahed and oxidized, weakly propylitic altered granodioirte with ~25 70 TCA pyrite bearing stringers							
						MD	GY		BLE	2I	Py	0.5
						LT	BN		OXI	2I		
16.76	17.32	0.56	GRD	MG	unaltered granodioirte							
						MD	GY					
17.32	19.00	1.68	GRD	MG	weakly bleahed and oxidized granodiorite with one 1cm wie pyrite veinlet 70 TCA							
						MD	BN		BLE	2I	Py	0.1
						MD	GY		OXI	2I		
19.00	20.60	1.60	GRD	MG	rbubly, clay altered on fractuers, faulted granodioirte with no sulfide veinlets eveloped.							
									BLE	2I		
									OXI	2I		
						MD	BN		CLY	3I		
20.60	23.30	2.70	GRD	MG	oxidized and bleached granodioirt wwith patchy weak propylitic alteration							
									BLE	2I		
						MD	BN		OXI	2I		
23.30	24.00	0.70	GRD	MG	oxidized weakly clay altered granodioirte with two small pyrite bearing quartz veinleets 70 TCA							
									SIL	1I		
									LIM	2I		
						LT	BN		CLY	2I	Py	0.1
24.00	25.60	1.60	GRD	MG	unaltered, weakly oxidized granoioirte							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN					
						MD	GY		OXI	1I		
25.60	28.50	2.90	GRD	MG	faulte, rubbly, oxiized and weakly clay gouged granodioirtw with trae sisseminated blebby pyrite rich gouged intervals within broader interval							
						LT	BN		OXI	2I		
						LT	GY		BLE	2I	Py	0.5
						MD	GY		SIL	1I		
28.50	31.00	2.50	GRD	MG	bleached, weakly oxidized granodioirte with patchy argillic alteration							
						LT	GY					
						MD	BN		BLE	2I		
						LT	BN		OXI	2I		
31.00	33.60	2.60	GRD	MG	unaltered granodioirte							
						MD	GY					
33.60	35.50	1.90	GRD	MG	unaltered granoiorite, besides a set of 70 TCA pyrite bearing quatyz stringers							
						MD	GY		SIL	1I	Py	0.1
35.50	37.22	1.72	GRD	MG	traec porpylitic altered granodioirte							
						MD	GY					
						MD	GN		PRO	1I		
37.22	40.80	3.58	GRD	MG	moderately propyoitic and weak argillic altered granodioirte with set of pyrite bearing quartz veins (3; 2 cm wide, 30 TCA), and another set of 70 TCA pyrite bearing quartz stringers							
						MD	GY		SIL	1I		
						MD	GN		PRO	3I	Py	1
40.80	42.30	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
42.30	44.00	1.70	GRD	MG	weakly propyliti altered granoioirte with 70 TCA pyrite stingers (4 observedin interval)							
						MD	GN					
						MD	GY		PRO	2I		
44.00	53.00	9.00	GRD	MG	unaltered granodioirte							
						MD	GY					
53.00	53.80	0.80	GRD	MG	weak argilli altered granodioirte							
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						LT	GY		ARG	2I		
53.80	57.80	4.00	GRD	MG	unaltered granoioirte							
						MD	GY					
57.80	58.14	0.34	GRD	MG	siliified, moderately propyliti altered granodioirte with weak dissemianted pyrite in groundmass							
						LT	WH		PRO	3I		
						LT	GY		SIL	4I	Py	1
58.14	58.28	0.14	VEN	MG	quart carbonate vein, 80 TCA with banded pyrite							
						LT	WH		SIL	5I	Py	10
58.28	59.00	0.72	GRD	MG	moderately propylitic grd with weak pyrite strginers trending 70 TCA							
						MD	GY		PRO	3I	Py	0.5
						MD	GN					
59.00	59.92	0.92	GRD	MG	unaltered ganodioirte							
						MD	GY					
59.92	59.98	0.06	VEN	MG	banded pyrite bearing quartz vein, 80 TCA							
						MD	GY		SIL	5I	Py	10
59.98	62.00	2.02	GRD	MG	unaltered granodioirte							
						MD	GY					
62.00	64.50	2.50	GRD	MG	fractured, moderately argilli altered granoidoirte, weakly oxidized on fracture surfaces							
						MD	GY		OXI	2I		
						LT	GY		PRO	1I		
						LT	GN		ARG	3I		
64.50	68.85	4.35	GRD	MG	unaltered granodioirte							
						MD	GY					
68.85	69.50	0.65	GRD	MG	moderately propyltiic and weakly pervasively silicified granodioirtoe with weak 70 TCA pyrite stringers							
						MD	GN		PRO	2I		
						MD	GY		SIL	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
69.50	74.50	5.00	GRD	MG	unaltered granodioirte							
						MD	GY					
74.50	77.00	2.50	GRD	MG	moderately propylitic altered grd with weak pyrite stringers 70 TCA thoruhout							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	1I		
77.00	79.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
79.00	80.30	1.30	GRD	MG	moderately argillic and propylitic altered granodioirte							
						MD	GY		ARG	3I		
						LT	WH					
						LT	GN					
						LT	GY		PRO	3I		
80.30	82.00	1.70	GRD	MG	moderately propylitic and siliceous granodiorite with 4 80 TCA pyrite stringers and weak dissem pyrite throughout, as well as one parallel TCA fractures that hosts dissem pyrite							
						MD	GN		SIL	2I	Py	0.75
						MD	GY		PRO	3I		
82.00	84.50	2.50	GRD	MG	unaltered granodioirte							
						MD	GY					
84.50	85.34	0.84	GRD	MG	fractured, fragmental granodioirte with carbonate on fracutre surfaces							
						LT	WH					
						MD	GY		ARG	1I		
85.34	88.00	2.66	GRD	MG	weakly propylitic altered granodioirte with 70 TCA quartz carbonate strginers devoid of sulfide							
						MD	GN		PRO	1I		
						MD	GY					
88.00	89.00	1.00	GRD	MG	unaltered granodioite							
						MD	GY					
89.00	89.50	0.50	GRD	MG	weakly propyltici granodiorite with 80 TAC quartz carbonate stringers cevoid of sulfide							
						MD	GY		PRO	1I		
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
89.50	92.00	2.50	GRD	MG	unaltered granodioite							
						MD	GY					
						MD	GN					
92.00	93.32	1.32	GRD	MG	moederately propylitic and silicified granodioirte with 70 TCA wquartz carbonate veinlets that hae weak disseminated pyrite							
						MD	GN		SIL	2I		
						MD	GY		PRO	2I	Py	0.5
93.32	93.42	0.10	VEN	MG	quartz carbonate vein with semimasive banded pyrite trending 70 TAC							
						LT	WH		SIL	5I	Sp	2
						MD	GY				Py	25
93.42	95.90	2.48	GRD	MG	moderately propylitic and argillic altered granodiorite with 70 TCA pyrite stringers developed throughout (weak, 30 cm spacings)							
						LT	WH		ARG	3I		
						MD	GY		PRO	3I	Py	0.5
						LT	GN					
95.90	96.36	0.46	VEN	MG	banded semimassive sulfide vein with cooloform quartz carbonate bands, semimassive blebby disseminated pyrite, and weak dissemianted sphalerite. Weakly brecciated texture, sharp upper and lower contact trends 60 TCA.							
						LT	GY				Sp	2
						LT	WH		SIL	5I	Py	15
96.36	97.20	0.84	GRD	MG	moderately propytlici and silicified granoioirte with 70 TCA pyrite stringers							
						MD	GN		PRO	2I	Py	1
						MD	GY		SIL	2I		
97.20	99.00	1.80	GRD	MG	unaltered granodioirte							
						MD	GY					
99.00	100.58	1.58	GRD	MG	moderately silicified, propylitic, and argillic altered granodioirte with weak quartz and carbonate along fracutes, hairline; no sulfide							
									PRO	3I		
						LT	GN		SIL	1I		
						LT	GY		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.58	102.38	1.80	GRD	MG	moderate to strong argillic altered, heavily fractured and clay altered granodioirte. Soft to the touch, likely related to faulting; sharp lower contat of fault trends 30 TCA							
						LT	GN		CLY	3I		
									PRO	2I		
						LT	GY		ARG	4I		
102.38	105.08	2.70	GRD	MG	moderately propylitic and argillic altered granodioirte with pryite stringer veinlets 70 TCA throughout entire interval, with dark grey alteration haloes around them.							
						LT	GN		CLY	3I		
						LT	GY		PRO	3I	Py	0.5
						MD	GY		ARG	4I		
105.08	105.50	0.42	GRD	MG	strongly argillic and propylitic altered grd with a 30 TCA set of tfractures that likely represent a fulat surface							
						LT	GY		PRO	3I		
									ARG	4I		
						LT	GN		SIL	1I		
105.50	108.10	2.60	GRD	MG	moderately propylitic altered grd with 70 TAC pyrite stringers; spaced around 30 cm apart							
						MD	GY					
						MD	GN		PRO	2I	Py	0.1
108.10	110.80	2.70	GRD	MG	unaltered granodiorite							
						MD	GY					
110.80	111.50	0.70	GRD	MG	moderately propylitic altered granodioirte with 5 70 TCA pyrite stringers							
						MD	GY					
						MD	GN		PRO	4I	Py	1
111.50	113.00	1.50	GRD	MG	unaltered granodioirte							
						MD	GY					
113.00	114.00	1.00	GRD	MG	moderately propylitic altered granodiorite with 7 pyrite strginers 70 TCA							
						MD	GY					
						MD	GN		PRO	1I	Py	0.1
114.00	118.50	4.50	GRD	MG	unaltered granodioirte							
						MD	GY					
118.50	120.00	1.50	GRD	MG	moderately propylitic altered granodiorite with 70 TCA pyrite stringers developed throughout.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	1I	Py	1.5
						MD	GN		PRO	3I		
120.00	122.66	2.66	GRD	MG	unaltered granodioirte							
						MD	GY					
122.66	124.44	1.78	GRD	MG	moderately propylitic altered granodioirte with 70 TCA pyrite stringers							
						LT	GN		ARG	2I	Py	0.5
						LT	GY		PRO	3I		
124.44	125.10	0.66	GRD	MG	faulted, with sharp upper and lower contact trending 30 TCA, phyllic altered granodiorite with seriite and pyrite alteration throughout entire interval							
						LT	GN		PHC	3I		
						LT	GY		ARG	3I	Py	5
									SIL	1I		
125.10	129.82	4.72	GRD	MG	moderately propylitic an silicified granodioirte, with patchy argillic alteration, and quartz veins 80 TCA from 1 mm to 2 cm wide containging trace pyrite. 3 veinlets have pyrite and minor sphalerite within.							
						MD	GY		ARG	2I		
						LT	GY		PRO	3I	Sp	0.1
						MD	GN		SIL	2I	Py	1
129.82	129.94	0.12	VEN	MG	70 TCA quarzt carbonate vein with breiated texture, and one 1 cm band of pyrite with lesser sphalerite							
						LT	WH				Sp	1
						LT	GY		SIL	5I	Py	5
129.94	131.90	1.96	GRD	MG	weakly argillic altered granodioirte							
						LT	WH		ARG	3I		
						LT	GY					
131.90	133.00	1.10	GRD	MG	unaltered granodioirte with trace pyrite strigners containing pyrite							
						MD	GY				Py	0.1
133.00	139.00	6.00	GRD	MG	unaltered granodioirte							
						MD	GY					
139.00	140.95	1.95	GRD	MG	moderately propylitic and silicified granodiorite with 70 TAC pyirite stringers							
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
140.95	141.35	0.40	GRD	MG	low angle fault 30 TCA, immediately following this sharp upper contat is silicified smokey grey granodiorite/quartz with lay gouge and dissemianted pyrite							
						LT	GY		SIL	5I	Py	1
									CLY	5I		
141.35	144.50	3.15	GRD	MG	patchy argillic and propylitic altered granodioirte with weak 70 TCA pyrite stringers							
						MD	GY					
						LT	GY		PRO	3I		
						LT	GN		ARG	3I	Py	0.1
144.50	145.50	1.00	GRD	MG	stronlgy propyltic and silicified granodiorite with three 1 cm wide 70 TCA pyrite bearing quartz veinlets							
						MD	GY		PRO	4I		
						MD	GN		SIL	2I	Py	0.5
145.50	147.83	2.33	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.42	28	0.00	0	--	4H	6W	Overburden, rubble, oxidized
1.52	3.05	1.53	0.86	56	0.22	14	--	4H	6W	Overburden, rubble, oxidized
3.05	4.57	1.52	1.04	68	0.00	0	--	4H	5W	Rubble, oxidized
4.57	6.10	1.53	1.33	87	0.00	0	--	2H	5W	Rubble, oxidized
6.10	9.14	3.04	2.85	94	0.00	0	--	2H	5W	Rubble, oxidized, GOU/FBX
9.14	12.19	3.05	2.09	69	0.23	8	--	2H	5W	Rubble, oxidized, GOU/FBX, more competent near top.
12.19	15.24	3.05	3.05	100	1.05	34	--	3H	4W	Oxidized joint surfaces
15.24	18.29	3.05	3.05	100	1.09	36	--	3H	4W	Oxidized joint surfaces
18.29	21.34	3.05	3	98	1.42	47	--	3H	4W	Oxidized joint surfaces
21.34	24.38	3.04	2.9	95	1.18	39	--	3H	4W	Oxidized joint surfaces
24.38	27.43	3.05	3.05	100	1.06	35	--	3H	4W	Oxidized joint surfaces
27.43	30.48	3.05	2.95	97	1.68	55	--	3H	3W	Oxidized joint surfaces
30.48	33.53	3.05	3.05	100	2.96	97	--	4H	2W	Oxidized joint surfaces
33.53	36.58	3.05	3.05	100	2.03	67	--	3H	1W	~30cm rubble section at 35.4m
36.58	39.62	3.04	3.04	100	2.38	78	--	4H	1W	
39.62	42.67	3.05	3.05	100	2.59	85	--	4H	1W	
42.67	45.72	3.05	3.05	100	2.94	96	--	4H	1W	
45.72	48.77	3.05	3.05	100	2.89	95	--	4H	1W	
48.77	51.82	3.05	3.05	100	2.14	70	--	4H	1W	
51.82	54.86	3.04	3	99	2.07	68	--	4H	1W	
54.86	57.91	3.05	3.04	100	1.67	55	--	4H	2W	
57.91	60.97	3.06	2.97	97	2.34	76	--	4H	1W	
60.97	64.01	3.04	2.98	98	1.13	37	--	3H	2W	Rubble and fractured section between 62-63m. Some oxidatin on fracture surfaces
64.01	67.06	3.05	3.05	100	1.76	58	--	4H	2W	some oxidization on fracture surfaces
67.06	70.10	3.04	3.04	100	2.45	81	--	4H	1W	
70.10	73.15	3.05	3.05	100	1.92	63	--	4H	1W	
73.15	76.20	3.05	3.05	100	2.74	90	--	4H	1W	
76.20	79.25	3.05	3.03	99	2.30	75	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	82.30	3.05	2.98	98	2.62	86	--	3H	1W	
82.30	85.34	3.04	3.04	100	1.70	56	--	4H	1W	
85.34	88.39	3.05	3	98	1.63	53	--	4H	1W	
88.39	91.44	3.05	3.05	100	1.65	54	--	4H	1W	
91.44	94.49	3.05	3.05	100	2.58	85	--	4H	1W	
94.49	97.54	3.05	3.05	100	2.66	87	--	4H	1W	
97.54	100.58	3.04	3	99	2.15	71	--	3H	1W	
100.58	103.63	3.05	3.05	100	0.70	23	--	2H	1W	crumbly rock. ~2m of low competency rock between 100.50 - 102.50m
103.63	106.68	3.05	3	98	1.59	52	--	2H	1W	
106.68	109.73	3.05	3.02	99	1.98	65	--	4H	1W	
109.73	112.78	3.05	2.95	97	2.36	77	--	4H	1W	
112.78	115.82	3.04	3.04	100	2.40	79	--	4H	1W	
115.82	118.87	3.05	3.05	100	2.05	67	--	4H	1W	
118.87	121.92	3.05	3.05	100	2.70	89	--	4H	1W	
121.92	124.97	3.05	3.05	100	1.65	54	--	3H	1W	
124.97	126.49	1.52	1.52	100	1.02	67	--	3H	1W	
126.49	129.54	3.05	3.05	100	2.03	67	--	3H	2W	Some oxidation in fractures
129.54	132.59	3.05	3.05	100	2.07	68	--	3H	1W	
132.59	135.64	3.05	3.05	100	2.88	94	--	3H	1W	
135.64	138.68	3.04	2.96	97	2.08	68	--	4H	1W	
138.68	140.21	1.53	1.52	99	0.52	34	--	3H	1W	
140.21	143.26	3.05	2.95	97	1.55	51	--	3H	2W	
143.26	144.78	1.52	1.52	100	1.33	88	--	4H	1W	
144.78	147.83	3.05	3.05	100	2.42	79	--	4H	1W	small <5cm crumbly zones at 146.3m and 147.2m

Magnetic Suscepatibility

KL -19-461

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	20.34	OVB	
2	21.67	OVB	
3	0	OVB	Highly fractured
3	0	GRD	Highly fractured
4	0	GRD	Highly fractured
5	0	GRD	Highly fractured
6	0	GRD	Highly fractured
7	0	GRD	Highly fractured
8	0	GRD	Highly fractured
9	0	GRD	Highly fractured
10	0	GRD	Highly fractured
11	0.276	GRD	
12	0.432	GRD	
13	0.371	GRD	
14	5.393	GRD	
15	0.174	GRD	
16	0.475	GRD	
17	0.249	GRD	
18	0.25	GRD	
19	1.34	GRD	
19	1.34	GRD	
20	0.398	GRD	
21	0.238	GRD	
22	1.96	GRD	
23	0.25	GRD	
24	0.249	GRD	
24	0.249	GRD	
25	0.6	GRD	
26	0.099	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
27	0.221	GRD	
28	0.283	GRD	
29	0.839	GRD	
30	0.359	GRD	
31	12.31	GRD	
31	12.31	GRD	
32	0.349	GRD	
33	0.598	GRD	
34	1.438	GRD	
35	5.238	GRD	
36	0.93	GRD	
37	0.15	GRD	
38	0.141	GRD	
39	0.431	GRD	
40	0.32	GRD	
41	13.5	GRD	
42	4.661	GRD	
43	11.59	GRD	
44	4.414	GRD	
44	4.414	GRD	
45	9.683	GRD	
46	23.29	GRD	
47	11.14	GRD	
48	10.68	GRD	
49	13.23	GRD	
50	20.88	GRD	
51	4.625	GRD	
52	18.96	GRD	
53	2.041	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	2.041	GRD	
54	20.55	GRD	
55	11.59	GRD	
56	14.8	GRD	
57	16.58	GRD	
58	0.631	GRD	
59	0.539	GRD	
59	0.539	GRD	
60	0.543	GRD	
61	22.16	GRD	
62	16.77	GRD	
62	16.77	GRD	
63	1.212	GRD	
64	1.737	GRD	
65	9.352	GRD	
66	9.058	GRD	
67	8.34	GRD	
68	15.05	GRD	
69	4.14	GRD	
70	2.487	GRD	
71	2.836	GRD	
72	13.96	GRD	
73	0.477	GRD	
74	8.368	GRD	
75	6.831	GRD	
76	0.16	GRD	
77	0.859	GRD	
77	0.859	GRD	
78	15	GRD	
79	1.969	GRD	
79	1.969	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
80	0.354	GRD	
81	0.227	GRD	
82	0.261	GRD	
82	0.261	GRD	
83	9.654	GRD	
84	12.74	GRD	
85	1.038	GRD	
86	6.438	GRD	
87	3.706	GRD	
88	3.842	GRD	
88	3.842	GRD	
89	19.64	GRD	
89	19.64	GRD	
90	15.39	GRD	
91	4.051	GRD	
92	0.403	GRD	
92	0.403	GRD	
93	0.42	GRD	
94	5.2	GRD	
95	0.74	GRD	
96	0.92	VEN	
97	0.4	GRD	
98	1.55	GRD	
99	0.49	GRD	
99	0.49	GRD	
100	0.41	GRD	
101	0.22	GRD	
102	0.48	GRD	
103	0.26	GRD	
104	0.53	GRD	
105	0.63	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
106	0.69	GRD	
107	0.317	GRD	
108	0.87	GRD	
109	4.5	GRD	
110	7.262	GRD	
111	0.54	GRD	
112	4.7	GRD	
113	0.87	GRD	
113	0.87	GRD	
114	0.347	GRD	
114	0.347	GRD	
115	2.8	GRD	
116	2.9	GRD	
117	1.2	GRD	
118	0.57	GRD	
119	0.26	GRD	
120	0.34	GRD	
120	0.34	GRD	
121	4.5	GRD	
122	1.8	GRD	
123	0.24	GRD	
124	0.47	GRD	
125	0.16	GRD	
126	0.63	GRD	
127	0.63	GRD	
128	2.56	GRD	
129	0.55	GRD	
130	0.4	GRD	
131	0.398	GRD	
132	0.51	GRD	
133	7	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
133	7	GRD	
134	0.7	GRD	
135	15.56	GRD	
136	0.95	GRD	
137	4.8	GRD	
138	0.38	GRD	
139	0.73	GRD	
139	0.73	GRD	
140	0.315	GRD	
141	0.487	GRD	
142	0.78	GRD	
143	0.286	GRD	
144	0.4	GRD	
145	0.8	GRD	
146	0.42	GRD	
147	0.64	GRD	

KL -19-461

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W602835	☐	19-111	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602867	☐	19-112	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599264	☐	19-085	high grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602842	☐	19-111	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602815	☐	19-108	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602809	☐	19-108	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602787	☐	19-108	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602766	☐	19-107	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602755	☐	19-107	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602747	☐	19-107	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602854	☐	19-111	low grade	KL-STD6	☐	☐	☐
1.40	3.00	1.60	OVB	1.10	69	W602741	☐	19-107	low grade		☐	☐	☐
3.00	4.50	1.50	OVB, GRD	1.10	73	W602742	☐	19-107	low grade		☐	☐	☐
4.50	6.00	1.50	GRD	1.40	93	W602743	☐	19-107	low grade		☐	☐	☐
6.00	7.50	1.50	GRD	1.30	87	W602744	☐	19-107	low grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.20	80	W602745	☐	19-107	low grade		☐	☐	☐
9.00	10.50	1.50	GRD	1.28	85	W602746	☐	19-107	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
10.50	12.00	1.50	GRD	1.40	93	W602748	☐	19-107	low grade		☐	☐	☐
12.00	13.50	1.50	GRD	1.45	97	W602749	☐	19-107	low grade		☐	☐	☐
13.50	14.70	1.20	GRD	1.20	100	W602750	☐	19-107	low grade		☐	☐	☐
14.70	15.90	1.20	GRD	1.20	100	W602751	☐	19-107	low grade		☐	☐	☐
15.90	16.76	0.86	GRD	0.85	99	W602752	☐	19-107	low grade		☐	☐	☐
16.76	18.00	1.24	GRD, GRD	1.24	100	W602753	☐	19-107	low grade		☐	☐	☐
18.00	19.50	1.50	GRD	1.50	100	W602754	☐	19-107	low grade		☐	☐	☐
19.50	21.00	1.50	GRD	1.50	100	W602756	☐	19-107	low grade		☐	☐	☐
21.00	22.50	1.50	GRD	1.50	100	W602757	☐	19-107	low grade		☐	☐	☐
22.50	23.25	0.75	GRD	0.75	100	W602758	☐	19-107	low grade		☐	☐	☐
23.25	24.00	0.75	GRD	0.75	100	W602759	☐	19-107	low grade		☐	☐	☐
24.00	25.50	1.50	GRD, GRD	1.45	97	W602760	☐	19-107	low grade		☐	☐	☐
24.00	25.50	1.50	GRD, GRD	1.45	97	W602761	☐	19-107	low grade		☐	☑	☐
25.50	26.30	0.80	GRD	0.80	100	W602762	☐	19-107	low grade		☐	☐	☐
26.30	27.55	1.25	GRD	1.20	96	W602763	☐	19-107	low grade		☐	☐	☐
27.55	28.40	0.85	GRD	0.80	94	W602764	☐	19-107	low grade		☐	☐	☐
28.40	29.90	1.50	GRD	1.50	100	W602765	☐	19-107	low grade		☐	☐	☐
29.90	31.25	1.35	GRD	1.35	100	W602767	☐	19-107	low grade		☐	☐	☐
31.25	32.00	0.75	GRD	0.75	100	W602768	☐	19-107	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.00	33.16	1.16	GRD	1.15	99	W602769	☐	19-107	low grade		☐	☐	☐
33.16	34.65	1.49	GRD	1.48	99	W602770	☐	19-107	low grade		☐	☐	☐
34.65	36.00	1.35	GRD	1.35	100	W602771	☐	19-107	low grade		☐	☐	☐
36.00	37.10	1.10	GRD	1.10	100	W602772	☐	19-107	low grade		☐	☐	☐
36.00	37.10	1.10	GRD	1.10	100	W602773	☐	19-107	low grade		☐	☐	☑
37.10	38.00	0.90	GRD	0.90	100	W602774	☐	19-107	low grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.50	100	W602775	☐	19-107	low grade		☐	☐	☐
39.50	40.45	0.95	GRD	0.95	100	W602776	☐	19-107	low grade		☐	☐	☐
40.45	41.10	0.65	GRD	0.55	85	W602777	☐	19-107	low grade		☐	☐	☐
41.10	42.56	1.46	GRD	1.45	99	W602778	☐	19-107	low grade		☐	☐	☐
42.56	43.00	0.44	GRD	0.40	91	W602779	☐	19-107	low grade		☐	☐	☐
43.00	44.50	1.50	GRD	1.50	100	W602780	☐	19-107	low grade		☐	☐	☐
44.50	46.00	1.50	GRD	1.50	100	W602781	☐	19-108	low grade		☐	☐	☐
46.00	47.50	1.50	GRD	1.50	100	W602782	☐	19-108	low grade		☐	☐	☐
47.50	49.00	1.50	GRD	1.50	100	W602783	☐	19-108	low grade		☐	☐	☐
49.00	50.00	1.00	GRD	1.00	100	W602784	☐	19-108	low grade		☐	☐	☐
50.00	51.00	1.00	GRD	1.00	100	W602785	☐	19-108	low grade		☐	☐	☐
51.00	52.50	1.50	GRD	1.50	100	W602786	☐	19-108	low grade		☐	☐	☐
52.50	54.00	1.50	GRD	1.50	100	W602788	☐	19-108	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
54.00	55.50	1.50	GRD	1.48	99	W602789	☐	19-108	low grade		☐	☐	☐
55.50	57.00	1.50	GRD	1.50	100	W602790	☐	19-108	low grade		☐	☐	☐
57.00	58.05	1.05	GRD	1.03	98	W602791	☐	19-108	low grade		☐	☐	☐
58.05	58.40	0.35	GRD	0.35	100	W599261	☐	19-085	high grade		☐	☐	☐
58.40	59.00	0.60	GRD	0.60	100	W602792	☐	19-108	low grade		☐	☐	☐
59.00	59.75	0.75	GRD, GRD	0.73	97	W602793	☐	19-108	low grade		☐	☐	☐
59.00	59.75	0.75	GRD, GRD	0.73	97	W602794	☐	19-108	low grade		☐	☑	☐
59.75	60.10	0.35	GRD	0.35	100	W602795	☐	19-108	low grade		☐	☐	☐
60.10	61.20	1.10	GRD	1.10	100	W602796	☐	19-108	low grade		☐	☐	☐
61.20	62.70	1.50	GRD	1.50	100	W602797	☐	19-108	low grade		☐	☐	☐
62.70	64.20	1.50	GRD	1.50	100	W602798	☐	19-108	low grade		☐	☐	☐
64.20	65.70	1.50	GRD	1.49	99	W602799	☐	19-108	low grade		☐	☐	☐
65.70	67.20	1.50	GRD	1.48	99	W602800	☐	19-108	low grade		☐	☐	☐
67.20	68.70	1.50	GRD	1.50	100	W602801	☐	19-108	low grade		☐	☐	☐
67.20	68.70	1.50	GRD	1.50	100	W602802	☐	19-108	low grade		☐	☐	☑
68.70	70.20	1.50	GRD	1.50	100	W602803	☐	19-108	low grade		☐	☐	☐
70.20	71.70	1.50	GRD	1.45	97	W602804	☐	19-108	low grade		☐	☐	☐
71.70	73.20	1.50	GRD	1.50	100	W602805	☐	19-108	low grade		☐	☐	☐
73.20	74.70	1.50	GRD	1.48	99	W602806	☐	19-108	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
74.70	76.20	1.50	GRD	1.50	100	W602807	☐	19-108	low grade		☐	☐	☐
76.20	77.70	1.50	GRD	1.50	100	W602808	☐	19-108	low grade		☐	☐	☐
77.70	79.20	1.50	GRD	1.50	100	W602810	☐	19-108	low grade		☐	☐	☐
79.20	80.70	1.50	GRD	1.50	100	W602811	☐	19-108	low grade		☐	☐	☐
80.70	81.50	0.80	GRD	0.80	100	W602812	☐	19-108	low grade		☐	☐	☐
81.50	83.00	1.50	GRD	1.50	100	W602813	☐	19-108	low grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.50	100	W602814	☐	19-108	low grade		☐	☐	☐
84.50	86.00	1.50	GRD, GRD	1.47	98	W602816	☐	19-108	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W602817	☐	19-108	low grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.50	100	W602818	☐	19-108	low grade		☐	☐	☐
89.00	90.50	1.50	GRD, GRD	1.50	100	W602819	☐	19-108	low grade		☐	☐	☐
90.50	92.00	1.50	GRD	1.48	99	W602820	☐	19-108	low grade		☐	☐	☐
92.00	93.15	1.15	GRD, GRD	1.10	96	W602821	☐	19-111	low grade		☐	☐	☐
93.15	93.50	0.35	GRD	0.35	100	W599262	☐	19-085	high grade		☐	☐	☐
93.50	94.25	0.75	GRD	0.75	100	W602822	☐	19-111	low grade		☐	☐	☐
94.25	95.00	0.75	GRD	0.75	100	W602823	☐	19-111	low grade		☐	☐	☐
95.00	95.90	0.90	GRD	0.80	89	W602824	☐	19-111	low grade		☐	☐	☐
95.90	96.39	0.49	GRD, VEN	0.48	98	W599263	☐	19-085	high grade		☐	☐	☐
96.39	97.55	1.16	GRD	1.14	98	W602825	☐	19-111	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
97.55	99.05	1.50	GRD	1.50	100	W602826	☐	19-111	low grade		☐	☐	☐
97.55	99.05	1.50	GRD	1.50	100	W602827	☐	19-111	low grade		☐	☑	☐
99.05	100.55	1.50	GRD	1.50	100	W602828	☐	19-111	low grade		☐	☐	☐
100.55	101.55	1.00	GRD	0.98	98	W602829	☐	19-111	low grade		☐	☐	☐
101.55	102.45	0.90	GRD	0.85	94	W602830	☐	19-111	low grade		☐	☐	☐
102.45	103.50	1.05	GRD	1.05	100	W602831	☐	19-111	low grade		☐	☐	☐
103.50	105.00	1.50	GRD	1.50	100	W602832	☐	19-111	low grade		☐	☐	☐
105.00	106.50	1.50	GRD	1.50	100	W602833	☐	19-111	low grade		☐	☐	☐
106.50	108.00	1.50	GRD	1.48	99	W602834	☐	19-111	low grade		☐	☐	☐
108.00	109.20	1.20	GRD	1.20	100	W602836	☐	19-111	low grade		☐	☐	☐
109.20	110.70	1.50	GRD	1.50	100	W602837	☐	19-111	low grade		☐	☐	☐
110.70	111.38	0.68	GRD	0.65	96	W602838	☐	19-111	low grade		☐	☐	☐
111.38	112.50	1.12	GRD	1.12	100	W602839	☐	19-111	low grade		☐	☐	☐
112.50	114.00	1.50	GRD	1.50	100	W602840	☐	19-111	low grade		☐	☐	☐
114.00	115.50	1.50	GRD, GRD	1.50	100	W602841	☐	19-111	low grade		☐	☐	☐
115.50	117.00	1.50	GRD	1.50	100	W602843	☐	19-111	low grade		☐	☐	☐
117.00	118.50	1.50	GRD	1.50	100	W602844	☐	19-111	low grade		☐	☐	☐
118.50	120.00	1.50	GRD, GRD	1.50	100	W602845	☐	19-111	low grade		☐	☐	☐
120.00	121.50	1.50	GRD, GRD	1.48	99	W602846	☐	19-111	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
121.50	123.00	1.50	GRD	1.50	100	W602847	☐	19-111	low grade		☐	☐	☐
123.00	124.40	1.40	GRD	1.40	100	W602848	☐	19-111	low grade		☐	☐	☐
124.40	125.20	0.80	GRD	0.80	100	W602849	☐	19-111	low grade		☐	☐	☐
124.40	125.20	0.80	GRD	0.80	100	W602850	☐	19-111	low grade		☐	☐	☑
125.20	126.20	1.00	GRD	1.00	100	W602851	☐	19-111	low grade		☐	☐	☐
126.20	127.25	1.05	GRD	1.05	100	W602852	☐	19-111	low grade		☐	☐	☐
127.25	127.75	0.50	GRD	0.50	100	W602853	☐	19-111	low grade		☐	☐	☐
127.75	129.10	1.35	GRD	1.35	100	W602855	☐	19-111	low grade		☐	☐	☐
129.10	129.75	0.65	GRD	0.60	92	W602856	☐	19-111	low grade		☐	☐	☐
129.75	130.05	0.30	GRD	0.30	100	W599265	☐	19-085	high grade		☐	☐	☐
130.05	131.10	1.05	GRD	1.05	100	W602857	☐	19-111	low grade		☐	☐	☐
131.10	132.60	1.50	GRD	1.50	100	W602858	☐	19-111	low grade		☐	☐	☐
132.60	134.10	1.50	GRD	1.50	100	W602859	☐	19-111	low grade		☐	☐	☐
134.10	135.60	1.50	GRD	1.50	100	W602860	☐	19-111	low grade		☐	☐	☐
135.60	137.10	1.50	GRD	1.50	100	W602861	☐	19-112	low grade		☐	☐	☐
137.10	138.60	1.50	GRD	1.50	100	W602862	☐	19-112	low grade		☐	☐	☐
138.60	139.85	1.25	GRD	1.25	100	W602863	☐	19-112	low grade		☐	☐	☐
139.85	140.95	1.10	GRD	1.10	100	W602864	☐	19-112	low grade		☐	☐	☐
140.95	141.50	0.55	GRD, GRD	0.55	100	W602865	☐	19-112	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
141.50	143.00	1.50	GRD	1.50	100	W602866	☐	19-112	low grade		☐	☐	☐
143.00	144.50	1.50	GRD	1.50	100	W602868	☐	19-112	low grade		☐	☐	☐
144.50	146.00	1.50	GRD, GRD	1.50	100	W602869	☐	19-112	low grade		☐	☐	☐
146.00	146.70	0.70	GRD	0.70	100	W602870	☐	19-112	low grade		☐	☐	☐
146.70	147.83	1.13	GRD	1.13	100	W602871	☐	19-112	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-085	W599264	0.00	0.00	1.38	160	☐	☐	☐	☑ ME-16	ME-16
19-107	W602747	0.00	0.00	0.27	600	☐	☐	☐	☑ ME-6	me6
19-107	W602755	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-107	W602766	0.00	0.00	0.29	570	☐	☐	☐	☑ ME-6	me6
19-108	W602787	0.00	0.00	1.68	1270	☐	☐	☐	☑ KL-STD6	kl6
19-108	W602809	0.00	0.00	0.28	600	☐	☐	☐	☑ ME-6	me6
19-108	W602815	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-111	W602835	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-111	W602842	0.00	0.00	1.46	120	☐	☐	☐	☑ ME-16	me6
19-111	W602854	0.00	0.00	1.77	50	☐	☐	☐	☑ KL-STD6	me-6
19-112	W602867	0.00	0.00	1.47	130	☐	☐	☐	☑ ME-16	me6
19-107	W602741	1.40	3.00	0.03	2960	☐	☐	☐	☐	
19-107	W602742	3.00	4.50	0.05	3680	☐	☐	☐	☐	
19-107	W602743	4.50	6.00	0.07	2230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-107	W602744	6.00	7.50	0.17	910	☐	☐	☐	☐	
19-107	W602745	7.50	9.00	0.08	930	☐	☐	☐	☐	
19-107	W602746	9.00	10.50	0.19	820	☐	☐	☐	☐	
19-107	W602748	10.50	12.00	0.08	1230	☐	☐	☐	☐	
19-107	W602749	12.00	13.50	0.12	700	☐	☐	☐	☐	
19-107	W602750	13.50	14.70	0.03	2320	☐	☐	☐	☐	
19-107	W602751	14.70	15.90	0.13	1690	☐	☐	☐	☐	
19-107	W602752	15.90	16.76	0.13	1760	☐	☐	☐	☐	
19-107	W602753	16.76	18.00	0.09	2390	☐	☐	☐	☐	
19-107	W602754	18.00	19.50	0.16	700	☐	☐	☐	☐	
19-107	W602756	19.50	21.00	0.50	350	☐	☐	☐	☐	
19-107	W602757	21.00	22.50	0.09	2130	☐	☐	☐	☐	
19-107	W602758	22.50	23.25	0.18	2110	☐	☐	☐	☐	
19-107	W602759	23.25	24.00	0.89	140	☐	☐	☐	☐	
19-107	W602760	24.00	25.50	0.14	630	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-107	W602761	24.00	25.50	0.19	660	☑	☐	☐	☐	14 dup
19-107	W602762	25.50	26.30	1.20	80	☐	☐	☐	☐	
19-107	W602763	26.30	27.55	0.73	130	☐	☐	☐	☐	
19-107	W602764	27.55	28.40	0.15	720	☐	☐	☐	☐	
19-107	W602765	28.40	29.90	0.71	210	☐	☐	☐	☐	
19-107	W602767	29.90	31.25	0.57	400	☐	☐	☐	☐	
19-107	W602768	31.25	32.00	0.11	2120	☐	☐	☐	☐	
19-107	W602769	32.00	33.16	0.14	1400	☐	☐	☐	☐	
19-107	W602770	33.16	34.65	0.04	1300	☐	☐	☐	☐	
19-107	W602771	34.65	36.00	0.04	2430	☐	☐	☐	☐	
19-107	W602772	36.00	37.10	0.04	990	☐	☐	☐	☐	
19-107	W602773	36.00	37.10	0.04	710	☐	☑	☐	☐	coarse dup
19-107	W602774	37.10	38.00	0.59	200	☐	☐	☐	☐	
19-107	W602775	38.00	39.50	0.06	1450	☐	☐	☐	☐	
19-107	W602776	39.50	40.45	0.01	2170	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-107	W602777	40.45	41.10	0.10	220	☐	☐	☐	☐	
19-107	W602778	41.10	42.56	0.12	2700	☐	☐	☐	☐	
19-107	W602779	42.56	43.00	0.02	2330	☐	☐	☐	☐	
19-107	W602780	43.00	44.50	0.01	3090	☐	☐	☐	☐	
19-108	W602781	44.50	46.00	0.04	2160	☐	☐	☐	☐	
19-108	W602782	46.00	47.50	0.02	2240	☐	☐	☐	☐	
19-108	W602783	47.50	49.00	0.01	2270	☐	☐	☐	☐	
19-108	W602784	49.00	50.00	0.01	2230	☐	☐	☐	☐	
19-108	W602785	50.00	51.00	0.04	2090	☐	☐	☐	☐	
19-108	W602786	51.00	52.50	0.02	2180	☐	☐	☐	☐	
19-108	W602788	52.50	54.00	0.01	1960	☐	☐	☐	☐	
19-108	W602789	54.00	55.50	0.01	2220	☐	☐	☐	☐	
19-108	W602790	55.50	57.00	0.02	2160	☐	☐	☐	☐	
19-108	W602791	57.00	58.05	0.05	1940	☐	☐	☐	☐	
19-085	W599261	58.05	58.40	0.82	100	☐	☐	☐	☐	high grade

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-108	W602792	58.40	59.00	0.02	2410	☐	☐	☐	☐	
19-108	W602793	59.00	59.75	0.02	2080	☐	☐	☐	☐	
19-108	W602794	59.00	59.75	0.02	2130	☑	☐	☐	☐	1/4 dup
19-108	W602795	59.75	60.10	2.17	220	☐	☐	☐	☐	
19-108	W602796	60.10	61.20	0.02	2170	☐	☐	☐	☐	
19-108	W602797	61.20	62.70	0.06	2150	☐	☐	☐	☐	
19-108	W602798	62.70	64.20	0.76	2650	☐	☐	☐	☐	
19-108	W602799	64.20	65.70	0.02	1980	☐	☐	☐	☐	
19-108	W602800	65.70	67.20	0.04	2380	☐	☐	☐	☐	
19-108	W602801	67.20	68.70	0.10	2500	☐	☐	☐	☐	
19-108	W602802	67.20	68.70	0.05	2480	☐	☑	☐	☐	coarse fup
19-108	W602803	68.70	70.20	0.02	2290	☐	☐	☐	☐	
19-108	W602804	70.20	71.70	0.02	2300	☐	☐	☐	☐	
19-108	W602805	71.70	73.20	4.04	2180	☐	☐	☐	☐	
19-108	W602806	73.20	74.70	0.06	1890	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-108	W602807	74.70	76.20	0.05	330	☐	☐	☐	☐	
19-108	W602808	76.20	77.70	0.04	2690	☐	☐	☐	☐	
19-108	W602810	77.70	79.20	0.03	2600	☐	☐	☐	☐	
19-108	W602811	79.20	80.70	0.06	2360	☐	☐	☐	☐	
19-108	W602812	80.70	81.50	0.07	630	☐	☐	☐	☐	
19-108	W602813	81.50	83.00	0.05	2650	☐	☐	☐	☐	
19-108	W602814	83.00	84.50	0.08	2390	☐	☐	☐	☐	
19-108	W602816	84.50	86.00	0.09	2360	☐	☐	☐	☐	
19-108	W602817	86.00	87.50	0.05	1850	☐	☐	☐	☐	
19-108	W602818	87.50	89.00	0.02	2360	☐	☐	☐	☐	
19-108	W602819	89.00	90.50	0.01	2020	☐	☐	☐	☐	
19-108	W602820	90.50	92.00	0.01	2420	☐	☐	☐	☐	
19-111	W602821	92.00	93.15	0.13	1730	☐	☐	☐	☐	
19-085	W599262	93.15	93.50	1.22	60	☐	☐	☐	☐	high grade
19-111	W602822	93.50	94.25	0.05	2980	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-111	W602823	94.25	95.00	0.11	2070	☐	☐	☐	☐	
19-111	W602824	95.00	95.90	0.11	700	☐	☐	☐	☐	
19-085	W599263	95.90	96.39	2.19	40	☐	☐	☐	☐	high grade
19-111	W602825	96.39	97.55	0.08	250	☐	☐	☐	☐	
19-111	W602826	97.55	99.05	0.05	2210	☐	☐	☐	☐	
19-111	W602827	97.55	99.05	0.04	2290	☑	☐	☐	☐	1/4 dup
19-111	W602828	99.05	100.55	0.05	1250	☐	☐	☐	☐	
19-111	W602829	100.55	101.55	0.10	240	☐	☐	☐	☐	
19-111	W602830	101.55	102.45	0.02	1970	☐	☐	☐	☐	
19-111	W602831	102.45	103.50	0.03	1650	☐	☐	☐	☐	
19-111	W602832	103.50	105.00	0.05	1490	☐	☐	☐	☐	
19-111	W602833	105.00	106.50	0.13	1550	☐	☐	☐	☐	
19-111	W602834	106.50	108.00	0.05	1470	☐	☐	☐	☐	
19-111	W602836	108.00	109.20	0.04	2690	☐	☐	☐	☐	
19-111	W602837	109.20	110.70	0.05	2890	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-111	W602838	110.70	111.38	0.02	1640	☐	☐	☐	☐	
19-111	W602839	111.38	112.50	0.02	2790	☐	☐	☐	☐	
19-111	W602840	112.50	114.00	0.03	2350	☐	☐	☐	☐	
19-111	W602841	114.00	115.50	0.04	2470	☐	☐	☐	☐	
19-111	W602843	115.50	117.00	0.02	2510	☐	☐	☐	☐	
19-111	W602844	117.00	118.50	0.03	1520	☐	☐	☐	☐	
19-111	W602845	118.50	120.00	0.02	700	☐	☐	☐	☐	
19-111	W602846	120.00	121.50	0.02	2510	☐	☐	☐	☐	
19-111	W602847	121.50	123.00	0.08	2410	☐	☐	☐	☐	
19-111	W602848	123.00	124.40	0.17	640	☐	☐	☐	☐	
19-111	W602849	124.40	125.20	0.72	280	☐	☐	☐	☐	
19-111	W602850	124.40	125.20	0.71	150	☐	☑	☐	☐	coarse fup
19-111	W602851	125.20	126.20	0.62	570	☐	☐	☐	☐	
19-111	W602852	126.20	127.25	0.45	270	☐	☐	☐	☐	
19-111	W602853	127.25	127.75	0.43	290	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-111	W602855	127.75	129.10	0.08	2180	☐	☐	☐	☐	
19-111	W602856	129.10	129.75	0.47	170	☐	☐	☐	☐	
19-085	W599265	129.75	130.05	1.21	370	☐	☐	☐	☐	high grade
19-111	W602857	130.05	131.10	0.06	2100	☐	☐	☐	☐	
19-111	W602858	131.10	132.60	0.03	2170	☐	☐	☐	☐	
19-111	W602859	132.60	134.10	0.04	2660	☐	☐	☐	☐	
19-111	W602860	134.10	135.60	0.04	2510	☐	☐	☐	☐	
19-112	W602861	135.60	137.10	0.11	3020	☐	☐	☐	☐	
19-112	W602862	137.10	138.60	0.12	2420	☐	☐	☐	☐	
19-112	W602863	138.60	139.85	0.09	1590	☐	☐	☐	☐	
19-112	W602864	139.85	140.95	0.07	1220	☐	☐	☐	☐	
19-112	W602865	140.95	141.50	0.21	260	☐	☐	☐	☐	
19-112	W602866	141.50	143.00	0.12	1290	☐	☐	☐	☐	
19-112	W602868	143.00	144.50	0.07	1510	☐	☐	☐	☐	
19-112	W602869	144.50	146.00	0.19	970	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-112	W602870	146.00	146.70	0.01	2550	☐	☐	☐	☐	
19-112	W602871	146.70	147.83	0.02	3040	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
3.00	11.00	GO	34	--	NUL	1	mixture of rubble and gouge from top of hole			
18.00	19.00	VT	37	70	NUL	2	pyrite bearing quartz veinlets			
								Py	0.5	DI
23.50	24.00	ST		50	NUL	2	pyite beraing qtz veinlets			
								Py	0.1	DI
25.80	26.00	ST		70	NUL	1	clay altered gouged pyrite bearing granodiortir			
								Py	0.1	DI
32.75	35.00	ST		70	NUL	10	pytie bearing stringers			
								Py	0.1	IN
37.00	38.00	ST		30	NUL	2	pyrite beairng qtz stringers 2 cm wide			
								Py	1	DI
38.00	40.00	ST		70	NUL	8	pyrite bearing stringers			
								Py	0.5	DI
40.70	40.80	VT	37	70	NUL	1	pyrite bearing qtz veinlet			
								Py	1	DI
42.50	43.00	ST		70	NUL	3	barren qtz stringers			
58.10	58.30	VN	37	70	NUL	1	quartz vein with to bands of pyrite			
								Py	15	DI
93.32	93.42	VN	37	70	NUL	1	semimassive pyrite vein with weak quartz			
								Py	50	DI
95.90	96.39	VN	37	60	NUL	1	brecciated olloform banded qv with banded pyrite and minor sphalerite			
								Py	5	DI
								Sp	1	DI
99.00	100.00	ST		70	NUL	6	pyrite bearing quartz stringers			
100.58	102.30	FT	42	30	NUL	1	brecciated gouged clay altered gred, with weak pyrite throughout			
								Py	0.5	DI
102.50	104.00	ST		70	NUL	5	pyrite bearing quartz stringers			
								Py	0.5	DI
105.10	105.60	FT	42	30	NUL	1	gouged brecciated granoiorite			
107.30	108.15	ST		70	NUL	5	pyrite bearing quartz stringers			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.5	DI
110.50	111.50	ST		70	NUL	7	pyrite bearing quartz stringers			
								Py	0.1	DI
118.40	119.50	ST		70	NUL	10	pyrite bearing quartz stringers			
								Py	1	DI
124.45	125.11	FT	42	30	NUL	1	gouged fault with disseminated pyrite			
								Py	3	DI
126.00	127.50	ST		80	NUL	3	pyrite with minor blebby sphalerite veaing quartz veinlets 1 cm wide			
								Sp	0.1	DI
								Py	1	DI
129.00	129.80	ST		70	NUL	6	pyrite bearing quartz stringers			
								Py	0.5	DI
129.82	129.95	VN	37	70	NUL	1	pyrite bearing with minor sphalerite vein breccia			
								Sp	0.1	DI
								Py	1	DI
132.80	133.00	ST		70	NUL	2	pyrite bearing quartz stringers			
								Py	0.1	DI
139.00	141.00	ST		70	NUL	6	pyrite bearing quartz stringers			
								Py	0.1	DI
140.95	141.35	FT	42	30	NUL	1	quartz rich gouged fault with pyrite			
								Py	0.5	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382543	6890896	1311.315	259.09

ZONE: Exploration

SECTION:

HOLE: KL -19-462

CLAIM: YD09216

Contractor: Kluane Drilling

Drill: 5

Core Size: HTW

Casing Depth: 10m, Out

Drilling Dates: Sep 28 - Sep 30, 2019

Geology Logged By: D. Uribe

SURVEY			
Depth (m)	Azimuth	Dip	Method
19	12.66	-49.4	Reflex
259	35.66	-50.2	Reflex

TARGET: Western Pearl

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.7	0.7	CAS
0.7	2.5	1.8	OVB
2.5	35.39	32.89	QFP
35.39	49.47	14.08	GRD
49.47	80.6	31.13	GRD
80.6	84.55	3.95	GRD
84.55	97.54	12.99	GRD
97.54	109.8	12.26	GRD
109.8	112.15	2.35	GRD
112.15	113.58	1.43	POR
113.58	126.88	13.3	GRD
126.88	141.84	14.96	GRD
141.84	153.8	11.96	GRD
153.8	154.9	1.1	GRD
154.9	158.65	3.75	GRD
158.65	191.28	32.63	GRD

SAMPLES	
Numbers:	W593035 to W593050, W593101 to W593150, W594251 to W594293, W599249
Total:	110
Batch:	085, 092, 097, 100
Certificates:	WH19255767, WH19255788, WH19255791, WH19255793, WH19300245

COMMENTS

32m of HTW rods lost at top of hole during rod pulling (EOH).

191.28	201.49	10.21	GRD
201.49	207.66	6.17	GRD
207.66	217.63	9.97	GRD
217.63	218.82	1.19	VEN
218.82	222.29	3.47	GRD
222.29	237	14.71	GRD
237	259.09	22.09	GRD

Box Log

KL -19-462

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.7	3.91
2	3.91	6.98
3	6.98	10.13
4	10.13	13.25
5	13.25	16.35
6	16.35	19.36
7	19.36	22.22
8	22.22	24.38
9	24.38	28.78
10	28.78	33.14
11	33.14	37.42
12	37.42	41.65
13	41.65	45.96
14	45.96	50.26
15	50.26	54.43
16	54.43	58.71
17	58.71	63.1
18	63.1	67.26
19	67.26	71.63
20	71.63	75.9
21	75.9	80.32
22	80.32	84.66
23	84.66	88.95
24	88.95	93.28
25	93.28	97.32
26	97.32	101.2
27	101.2	105.54
28	105.54	109.58
29	109.58	113.86
30	113.86	118.24
31	118.24	122.41
32	122.41	126.53
33	126.53	130.8
34	130.8	135
35	135	139.3
36	139.3	143.26
37	143.26	147.09
38	147.09	150.96
39	150.96	154.49
40	154.49	158.89
41	158.89	163.28
42	163.28	167.47
43	167.47	171.57
44	171.57	176.03
45	176.03	180.21
46	180.21	184.38
47	184.38	188.76
48	188.76	193.13
49	193.13	197.49
50	197.49	201.68
51	201.68	205.82
52	205.82	210.14
53	210.14	214.49
54	214.49	218.82
55	218.82	223.18
56	223.18	227.58
57	227.58	231.85
58	231.85	236.22
59	236.22	241.51
60	241.51	244.91
61	244.91	249.3
62	249.3	253.64
63	253.64	257.95
64	257.95	259.09

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-462									
	36.38	11	NTW	GRD	723.8	457.8	2.33	2.7	
	42.33	14	NTW	GRD	985.7	633.6	2.49	2.8	
	130.65	13	NTW	GRD	920.8	595.5	2.51	2.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.70	0.70	CAS	MG	casing							
0.70	2.50	1.80	OVB	--	ovb							
2.50	4.00	1.50	POR	MG	medium-dark brown, rubbly, clay altered and oxidized quartz feldspar porphyry dyke interval							
						MD	BN		CLY	4I		
						DK	BN	RB	OXI	3I		
4.00	4.90	0.90	POR	MG	light brown, yellowish, rubbly, gouged, clay altered , locally oxidized quartz feldspar porphyry dyke interval. (gouged , fracture fabric at 25 degrees TCA).							
						MD	BN	FR	CLY	3I		
						LT	BN	SH	OXI	3I		
						DK	YW	RB				
4.90	6.10	1.20	POR	MG	light brown-dark grey, clay altered, weakly oxidized quartz feldspar porphyry dyke interval							
6.10	7.90	1.80	POR	MG	light brown-dark grey, clay altered, weakly oxidized quartz feldspar porphyry dyke interval with local rubbly zones and containing trace 1-3 mm, carbonate infilled vienlets (80 degrees TCA).							
7.90	10.67	2.77	POR	MG	medium-light grey quartz feldspar porphyry dyke with local zones of clay alteration (mostly within fracture-joint surfaces)							
10.67	15.39	4.72	POR	MG	light-medium grey quartz feldspar porphyry dyke interval with local zones of weakly light brown-clay alteration. Trace 2-5mm, carbonate veinlets (40 degrees TCA) are present at 14.55m. 1-3mm, sub- angular, hematite clasts are commonly observed throughout dyke interval. Dqrk grey, fine grained, magnetic inclusions are observed on dyke containing a clay altered, light brown rim.							
						MD	GY		LIM	1I	He	2
						LT	GY		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
15.39	19.84	4.45	POR	MG	light-medium brown clay altered quartz feldspar porphyry dyke interval. Dyke matrix is dark green (oxidized (?)) and contains trace 1-4mm carbonate vienlets (40 degrees TCA) and calcite infilled fractures. A dark grey finer grained dyke section is observed at 18.29-18.52							
19.84	21.00	1.16	POR	MG	medium brown-reddish (oxidized), clay altered, quartz feldspar porphyry dyke interval exhibititing gouged brecciated seams (weakly sheared(?)), gouged seams are light grey 0-brown and locally brecciate feldspathic and quartz clasts on dyke interval.							
						MD	BN		CLY	3I		
						LT	BN					
						DK	RD		OXI	3I		
21.00	21.70	0.70	POR	MG	light grey, quartz feldspar porphyry dyke interval with local zones of light brown, clay alteration and displaying gouged brecciation and shear fabric (40 degrees TCA).							
						LT	BN		CLY	3I		
						LT	GY					
21.70	33.14	11.44	POR	MG	light to medium grey, quartz feldspar porphyry dyke interval with local zones of light brown clay alteration and reddish, hematite oxidation. 2-3 cm, soft, clayey , gouged brecciated seams (45 degrees TCA) are locally observed throughout interval. trace 1-4 mm, 25 degrees TCA, carbonate infilled veinlets are observed on interval. 1-3 mm, red hematite clasts are commonly occurring throughout interval.							
						MD	GY					
						LT	GY		CLY	2I		
						LT	BN					
						DK	RD		HEM	1I		
33.14	34.10	0.96	POR	MG	light-medium grey, finer grained, quartz feldspar porphyry dyke interval (initerval is finer grained than previous dyke intervals and appears to contain more feldspathic clasts). Minor, dark red-purple hematite staining is locally variably on interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.10	35.10	1.00	POR	FG	fine grained, light-medium gray quartz feldspar porphyry interval with localy zones of reddish hematite staining and clay alteration. Well defined 2-4 mm, bands (60 degrees TCA) are prominent proximal to faulted contact with GRD . Fracture surfaces are locally infilled by oxidized carbonatess.							
						MD	GY		HEM	2I		
						LT	GY					
						DK	RD		CLY	2I		
35.10	35.39	0.29	FLR	FG	soft, clayey gouged brecciated, clay altered,faulted contact between dyke and granodiorite. Dyke interval is dark green-brown (due to oxidation and clay alteration). Shear fabric of 30 degrees TCA is observed in gouged, brecciate faulted seams							
35.39	37.54	2.15	GRD	MG	clay altered (light brown), moderately argillic, trace potassic-propylitic granodiorite interval containing trace 2-6 mm, oxidized, Quartz-carbonate veinlets (35 degrees TCA), which sometimes contain fine grained, disseminated pyrite. Sub-mm, dendritic,black , magnetite inclusions are locally observed on clay altered granodiorite sections that also contain minor reddish, hematite staining. Trace, light pink, rhodocrosite is sporadically observed inleast clay altered granodiorite sections (i.e. 37.40m).							
						MD	BN		ARG	3I		
						LT	BN		PRO	1I		
						LT	PK		CLY	3I		
						LT	BG		POT	1I		
						LT	GN		HEM	1I		
37.54	39.62	2.08	GRD	MG	trace potassic-propylitic granodiorite interval with local zones of weak clay alteration. Limonite infilling fracture/joint surfaces is commonly observed . Trace 1-3 mm, clay altered, oxidized, quartz-carbonate veinlets locally hosting hematite and trace disseminate pyrite are observed on interval (40 degrees TCA).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
39.62	41.65	2.03	GRD	MG	interval comprised clay altered, trace potassic-propylitic granodiorite with intermittent zones of moderately argillic, trace potassic alteration. 2-4 mm, carbonate veinlets (80 degrees TCA) are observed in sections with least clay alteration. 2-5 mm,clay altered, oxidized, quartz-carbonate veinlets, sometimes hosting trace disseminated pyrite (35 degrees TCA) are commonly observed throughout interval.							
						MD	BG		ARG	3I		
						LT	BN		POT	1I		
						LT	GN		PRO	1I	Py	1
41.65	45.00	3.35	GRD	MG	interval comprised of strongly argillic, trace propylitic granodiorite with local zones of light-brown, pervasiveclay alteration and local zones of dark red, hematite alteration. 4mm-2 cm, quartz-carbonate veinlets (40 degrees TCA) locally hosting trae pyrite and sub-mm sphalerite are observed throughout interval.							
						MD	BG		ARG	4I	Py	2
						LT	GN		HEM	3I		
						LT	BN					
						DK	BN		PRO	1I	Sp	1
						DK	RD		CLY	3I		
45.00	45.63	0.63	GRD	MG	weakly argillic, trace potassic granodiorite containing 1-4mm, hematite and clay altered, quartz-carbonate veinlets (30 degrees TCA) .							
						MD	BG		PRO	1I		
						LT	PK		POT	1I		
						LT	GN		ARG	2I		
45.63	47.55	1.92	GRD	MG	trace potassic granodiorite with intermittent zone of pervasively clay altered, weakly argillic granodiorite. 2-5 mm, hematite and clay altered, quartz carbonate veinlets (35 degrees TCA) are locally observed throughout interval.							
						MD	BN		CLY	3I		
						LT	BN		POT	1I		
						LT	PK		ARG	2I		
						DK	RD		HEM	2I		
47.55	48.77	1.22	GRD	MG	pervasively clay, hematite altered, weakly potassic, trace propylitic granodiorite interval containting 2-5 mm, 35 degres TCA, quartz-carbonate veinlets sometimes hosting blebby pyrite. Calcite-limonite infilled fractures are locally observed throughout interval as well.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	BN					
						LT	PK		CLY	3I		
						LT	BN		LIM	2I		
						DK	RD		HEM	3I	Py	2
48.77	49.47	0.70	GRD	MG	trace potassic-propylitic granodiorite interval with local ones of weak potassic alteration and locally variable clay alteration and dark red hematite oxidation. 2-4 mm, quartz-carbonate veinlets (30 degrees TCA) locally hosting bleby pyrite and black, metallic lustered, micaceous, non magnetic mineral (Mg-rich mica(?).							
						MD	BN				Py	2
						LT	PK				Bi	2
						LT	BN					
						DK	RD					
49.47	55.53	6.06	GRD	MG	white-black, unaltered granodiorite with local zones of trace potassic-propylitic alteration and minor light-brown clay alteration and local zones of pervasive dark red hematite oxidation. Trace 1-3 mm, black fine grained,quartz-carbonate veinlets (40 degrees TCA) sometimes locally hosting trace pyrite are locally observed throughout interval							
						--	BK		PRO	1I		
						--	WH		POT	1I	Py	1
									CLY	1I		
55.53	56.30	0.77	GRD	MG	unaltered granodiorite interval with pervasive hematite oxidation. 3-5 mm, 45 degrees TCA, carbonate veinlets containing red hematite and yellowish/green carbonates are locally observed throughout interval							
56.30	60.16	3.86	GRD	MG	trace potassic, relatively unaltered granodiorite interval containing weak hematite oxidation. A 2 cm, dark red, hematite altered, gouged brecciated seam (20 degrees TCA) locally hosting blebby pyrite is observed at 58.30m. A 4 mm, quartz-carbonate veinlet proximal to gouged seam locally hosts blebby pyrite and specular hematite blebs. 2-5 mm, 80 degrees TCA ,quartz-carbonate veinlets are present from 58.71-89m.							
						LT	PK		POT	1I	He	2
						DK	RD		HEM	2I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
60.16	62.90	2.74	GRD	MG	black-white unatere granodiorite interval with minor clay alteration and limonite alteration along fractures and joint surfaces. Minor hematite alteration is locally observed on surface in some grd sections.							
						DK	RD					
						--	WH					
						--	BK					
62.90	63.10	0.20	GRD	MG	fractured unaltered granodiorite interval displaying clay alteration along fracture surfaces							
63.10	67.60	4.50	GRD	MG	unaltered granodiorite interval with local zones f pervasive hematite oxidation. A dark red, hematite altered, gouged brecciated seam is locally observed at 66.40m. Trace disseminated pyrite is observed near gouged zone within granodiorite host and in gouged seam. Dark, fine grained, magnetic, mafic inclusions are locally observed in hematite altered granodiorite zones. 1-2 mm, quartz-carbonate veinlets (20 degrees TCA) posibly hosting trace chalcopyrite (brassy yellow , soft) are contained within mafic inclusions zone occurs at 67.50m							
						MD	PK				Py	1
						DK	RD		HEM	3I	Ch	1
67.60	68.75	1.15	GRD	MG	black-white, unaltered granodiorite interval							
						--	WH					
						--	BK					
68.75	70.00	1.25	GRD	MG	moderately argillic-potassic granodiorite interval with local zones of weak propylitic alteration (as alteration halo near quartz-carbonate veinlets). 5-9mm, quartz-carbonate veinlets (60 degrees TCA) locally hosting trace pyrite is observed at 69.39m. (rhodocrosite and calcite appear to infill and locally brecciate quartz vein).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
70.00	71.00	1.00	GRD	MG	weakly potassic , trace argillic-propylitic granodiorite interval displaying dark red, pervasive hematite oxidation on surfaces and along fracture/joint surfaces. From 70.80-71m , black, fine grained, magnetic mafic inclusion locally brecciates and intersitially intrudes into granodiorite host (near contact with mafic dyke intrusion).							
						LT	PK		POT	2I	Py	1
						LT	GN					
						DK	RD					
71.00	71.38	0.38	GRD	MG	light brown-black, clay altered and oxidized , slightly magnetitic, clast bearing, mafic intrusion in granodiorite. Calcite infilled fractures and 2-5mm, quartz-carbonate veinlets (60 degrees TCA) are observed throughout mafic intrusion. 80 degrees TCA,gouged brecciated, clay altered seam is observed at the granodiorite, mafic intrusion contact. (mafic intrusion near the contact locally brecciates and intersititally intrudes into argillic-potassic altered granodiorite).							
						LT	BN					
						--	BK		CLY	3I		
71.38	73.83	2.45	GRD	MG	trace potassic granodiorite interval with localy zones of weakly argillic-potassic alteration (mostly as alteration halo near veinlets). 3-6 mm, quartz-carbonate veinlets (60 degrees TCA)locally hosting trace disseminated pyrite are commonly observed on interval within potassic-argillic alteration halos. A 2 cm, light brown, clay altered , gouged brecciated seam (60 degrees TCA) is observed at 172.50m.							
						LT	BG					
						LT	PK					
						LT	BN					
73.83	74.68	0.85	GRD	MG	black-white, unaltered granodiorite interval with trace 1-4 mm, quartz-carbonate veinlets (60 degrees tca), with trace potassic alteratin halo, locally hosting trace disseminated pyrite.							
74.68	80.60	5.92	GRD	MG	Trace potassic-propylitic , unaltered granodiorite interval containing 2-3mm, quartz-carbonate, stringer veinlets locally hosting trace blebby pyrite (50 degrees TCA). Stringer veins contain 1-2 cm propylitic alteration halo.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
80.60	82.50	1.90	GRD	MG	strongly argillic,trace potassic granodiorite intreval containing trace 2-3mm, carbonate veinlets (60 degrees TCA)/							
						MD	BG		POT	1I		
						LT	PK		ARG	4I		
82.50	84.10	1.60	GRD	MG	moderately argillic, weakly propylitic granodiorite interval containing 6-8m, quartz-carbonate veinlets (60 degrees TCA), locally hosting trace pyrite,sphalerite and possily galena. Ankerite and possibly rhodocrosite partially infill and locally brecciate quartz veinlet. Trace phyllic alteration expressed as increased quartz clasts, disseminated pyrite in grd is present near veinlet zones. Fracturing and clay alteration are oobserved from 82.50-82.65m							
						MD	GN		PHC	1I	Py	1
						MD	BG		PRO	3I	Sp	1
						LT	GN		ARG	3I	Gn	0.5
											Py	2
84.10	84.55	0.45	GRD	MG	moderately argillic, trace potassic granodiorite interval							
						MD	PK		POT	2I		
						MD	BG		ARG	3I		
84.55	86.61	2.06	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zone of dark red, hematite alteration							
86.61	87.00	0.39	GRD	MG	moderately argillic, weakly potassic granodiorite interval containing 2-5 mm, quartz carbonate veinlets (40 degrees TCA).							
						MD	BG		ARG	3I		
						MD	PK		POT	2I		
87.00	88.00	1.00	GRD	MG	relatively unaltered granodiorite interval containing 1-5mm, quartz carbonate veinlets (60-80 degrees TCA).							
						LT	PK		POT	1I		
88.00	91.44	3.44	GRD	MG	trace potassic, relatively unaltered granodiorite with local zones of pervasive hematite alteration. Hematite altered section contains 1-2 mm, oxidized veinlets (80 degrees TCA)							
						LT	PK		HEM	2I		
						DK	RD		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
91.44	92.00	0.56	GRD	MG	black-white, unaltered granodiorite interval							
						--	WH					
						--	BK					
92.00	93.28	1.28	GRD	MG	trace potassic, granodiorite interval displaying weak clay alteration and weakly pervasive hematite alteration.							
93.28	94.00	0.72	GRD	MG	moderately argillic, weakly potassic granodiorite interval containing trace 1-4 mm, quartz-carbonate veinlets (50 degrees TCA).							
						MD	BG		POT	3I		
						MD	PK		ARG	3I		
94.00	95.20	1.20	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of weak hematite alteration. 5 mm, quartz-carbonate veinlet (40 degrees TCA) is observed on interval							
						LT	PK		POT	1I		
						DK	RD		HEM	1I		
95.20	96.74	1.54	GRD	MG	black-white , unaltered granodiorite interval							
						--	BK					
						--	WH					
96.74	97.54	0.80	GRD	MG	locally fractured, clay altered, weak hematite altered granodiorite interval							
						--	WH					
						--	BK					
97.54	109.80	12.26	GRD	MG	black-white, unaltered granodiorite interval with local zone of weak hematite alteration . Trace 1-4 mm, quartz-carbonate veinlets (20 degrees TCA) occur sporaically throughout interval.							
						--	BK					
						--	WH		HEM	1I		
109.80	111.00	1.20	GRD	MG	trace potassic, granodiorite interval with weak hematite alteration. A 1 cm, slightly deformed (weakly sheared), oxidized, quartz-carbonate veinlet (30 degrees TCA0 is observed at 109.85m Hematite appears to partially infill and locally brecciate quartz-carbonate veinlet .							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
111.00	112.15	1.15	GRD	MG	weakly sheared, weakly propylitic granodiorite interval with pervasivev hematite alteration. An 80 degrees TAC, gouged brecciated seam is observed at 112 m, within moderately silicified , propylitic altered granodiorite. 2 cm, quartz veins (60 degrees TCA) occur at the contact with clay altered dyke 112.15m. Disseminated pyrite is locally hoste in silicified, propylitic altered granodiorite zone near and within quartz veinlets							
						MD	GN	SH	HEM	3I		
						DK	RD		PRO	3I		
112.15	113.58	1.43	POR	MG	locally fractured, clay altered, light-medium brown, fine grained dyke intrusion containing 1-2mm, carbonate veinlets (30 degrees TCA). (faulted dyke interval (?))							
						MD	BN	FR	CLY	3I		
						LT	BN		HEM	2I		
113.58	114.33	0.75	GRD	MG	clay altered, sheared (45 degrees TCA sear fabric), gouged brecciated,moderately argillic granodiorite interval containing 2-5 mm, quartz-carbonate , clay infilled, oxidized, veinlets (40 degrees TCA)							
						MD	BN	SH	ARG	3I		
						LT	BN		CLY	3I		
114.33	116.11	1.78	GRD	MG	Weakly propylitic-trace potassic granoiorite interval with loal zones of pervaive hematite oxidation. Soft, gouged, sheared sections are loaclly observed @ 115.10m. (shear fabric ~ 45 degrees TCA. 1-2 mm, carbonate veinlets (40 degrees TCA) are occur throughout interval.							
						MD	PK		PRO	2I		
						MD	GN		POT	2I		
									ARG	1I		
116.11	118.60	2.49	GRD	MG	moderately propylitic-argillic altered granodiorite with local zones of pervasive, dark red hematite alteration. Hematite altered sections contain black, fine grained magnetite inclusions. Black, metallic lustered, non magnetic (tourmaline (?)) inclusions are observed @ 111.60-112m. Blebby pyrite is locally observed near magnetite bearing zones in altered granodiorite (i.e. 111.85m). Gouged seam (60 degrees TCA) is observed in hematite altered section at 111.50m.							
						MD	GN		ARG	2I	To	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	RD		HEM	3I	Py	2
						DK	GN		PRO	3I	Mg	1
118.60	122.15	3.55	GRD	MG	strongly argillic granodiorite with pervasive dark red, hematite oxidation and local zones of weakly propylitic alteration. Trace 2-7 mm, quartz-carbonate veinlets (40 degrees TCA) locally hosting trace blebby pyrite, hematite and magnetite are observed throughout interval. Some quartz-carbonate veinlets appear to locally brecciate host granodiorite.							
						MD	BK		ARG	4I	Mg	1
						DK	RD		HEM	4I	He	3
											Py	1
122.15	124.00	1.85	GRD	MG	strongly argillic, trace potassic granodiorite with weak pervasive hematite oxidation and containting trace 1-5mm, quartz carbonate veinlets which sometimes host trace pyrite and magnetite. Minor clay alteration is observed @ 123.65m.							
						MD	PK		CLY	1I	Py	1
						MD	BG		HEM	2I		
						DK	RD		ARG	3I	Mg	1
									POT	2I		
124.00	124.54	0.54	GRD	MG	clay altered, locally fractured, moderately argillic, trace potassic granodiorite interval							
124.54	125.10	0.56	GRD	MG	moderately argillic, weakly potassic granodiorite interval with weak pervaive hematite alteration.							
						MD	PK		HEM	2I		
						MD	BG		ARG	3I		
						LT	BN		POT	2I		
125.10	126.88	1.78	GRD	MG	strongly argillic ,trace potassic-propylitic granodiorite interval exhibiting a clay altered, gouged brecciated seam (20 degrees TCA) at 175.70m. Dark red, hematite alteration occurs from 126.53-126.88							
						MD	BG		POT	1I		
						LT	PK		ARG	4I		
						LT	GN		PRO	1I		
126.88	128.02	1.14	GRD	MG	relatively unaltered granodiorite with local zones of dark red, hematite alteration.]							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
128.02	128.90	0.88	GRD	MG	moderate argillic, weakly potassic, hematite altered granodiorite interval containing 1-5 mm, quartz-carbonate veinlets (60-80 degreees TCA)which locally brecciate host granodiorite (i.e. 128.34m). Some veinlets contain dark red hematite infill and locally host disseminated pyrite							
						MD	PK		ARG	3I	He	1
						MD	BG		POT	2I	Py	1
						DK	RD		HEM	2I		
128.90	130.12	1.22	GRD	MG	trace potassic-propylitic, hematite altered, granodiorite interval containing trace 1-4mm, quartz-carbonate veinlets (80 degrees TCA) sometimes hosting trace pyrite.							
						MD	PK		POT	1I		
						LT	GN		PRO	1I		
						DK	RD		HEM	1I		
130.12	132.90	2.78	GRD	MG	Strongly argillic, weakly potassic granodiorite interval with local zones of pervasive hematite oxidation. 1mm-1 cm, quartz-carbonate stringer veinlets, sometimes locally hosting trace pyrite are locally observed throughout interval (60 degrees TCA). A clay altered, gouged brecciated sections occurs at 132.40m.							
						MD	PK		ARG	4I		
						MD	BG		POT	1I	Py	1
						DK	RD		HEM	2I		
132.90	135.77	2.87	GRD	MG	trace potasic granodiorite interval with weak hematite oxidation andcontaining trace 1-2 mm, calcite infilled fractures and 1-4 mm, quartz-carbonate veinlets (40 degrees TCA).							
135.77	136.68	0.91	GRD	MG	moderately argillic, trace potassic-propylitic granodiorite with local zones of weak pervasive hematite alteration. Trace 1 -3 mm, hematite infilled, quartz-carbonate veinlets are locally observed throughout interval (60-80 degrees TCA)							
						MD	BG		HEM	2I		
						MD	PK		POT	2I		
						DK	RD		ARG	3I		
136.68	137.57	0.89	GRD	MG	trace potassic, relatively unaltered granodiorite interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
137.57	139.00	1.43	GRD	MG	strongly argillic, weakly propylitic granodiorite with local zone of weak potassic alteration and dark red hematite oxidation. 3-8mm, quartz-carbonate veinlets (45 degrees TCA), sometimes containing red hematite and trace pyrite are locally observed on interval							
						MD	BG		ARG	4I		
						MD	GN		PRO	2I		
						MD	PK		HEM	2I		
						DK	RD		POT	2I		
139.00	139.51	0.51	BXA	MG	strongly silicified, quartz-carbonate breccia vein zone locally hosting trace disseminated pyrite. Tan, ankerite appears to infill and locally brecciate quartz -bearing breccia vein sections. Granodiorite clasts are locally brecciated by quartz within breccia vein zone. Small vuggs are also observed within quartz breccia vein zone.							
						MD	BG		SIL	4I	Ak	6
						MD	GY				Py	2
						MD	GY					
						MD	TN					
139.51	141.84	2.33	GRD	MG	interval comprised of moderately argillic, weakly potassic granodiorite and trace potassic, relatively unaltered granodiorite. 2-6 mm, quartz carbonate veinlets, sometimes locally hosting trace ,disseminated pyrite are locally observed . Fractured zone is oserved at 140.50m.							
						MD	BG					
						LT	GN					
						LT	PK					
141.84	144.44	2.60	GRD	MG	unaltered granodiorite interval with local zones of weak dark red, hematite oxidation							
144.44	147.30	2.86	GRD	MG	relatively unaltered granodiorite interval with weakly to moderate pervasive hematite oxidation and containing trace 1-3 mm, quartz-carbonate veinlets (60 degrees TCA). Fractured, rubbly zone is observed from 146-147.09 m. fractured, rubbly zone exhibits light brown, clay alteration and dark red hematite oxidation.							
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
147.30	149.00	1.70	GRD	MG	strongly argillic granodiorite with weak hematite alteration and containing 3-6 mm, quartz-carbonate veinlets(60 degrees TCA) which sometimes locally host trace, pyrite. A soft, gouged , fracutred section is observed at 147.85m.							
						MD	BG		ARG	4I		
						DK	RD		HEM	2I		
149.00	150.20	1.20	GRD	MG	locally fractured, trace potassic-propylitic, relatively unaltered granodiorite interval exhibiting weak hematite oxidation on surface and along joints/fractures.							
						LT	PK					
						LT	GN					
						DK	RD					
150.20	153.80	3.60	GRD	MG	locally fractured, trace potassic-propyitic granodiorite interval containing 4-8 mm, quartz-carbonate veinlets (60 degrees TCA) which locally host trace pyrite. Weak hematite alteration is locally observed on surface and along fractures/joints.							
153.80	154.90	1.10	GRD	MG	faulted, rubbly , hematite altered granodiorite interval. 1-3 cm calcite fragments are locally observed throughout rubbly interval							
						LT	GY	RB	HEM	3I		
154.90	156.20	1.30	GRD	MG	black-white, unaltered granodiorite intervalwith local zones of dark red, hematite alteration. Trace 3-4 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed							
						LT	GY		HEM	2I		
156.20	157.56	1.36	GRD	MG	moderately argillic weakly propylitic granodiorite interval containing trace 5-7mm, quartz-carbonate veinlets which locally host trace pyrite (60 degrees TCA).							
						MD	GN		PRO	2I	Py	2
						MD	BG		ARG	3I		
157.56	158.07	0.51	GRD	MG	trace propylitic,hematite altered granodiorite							
						MD	GN		HEM	2I		
						DK	RD		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
158.07	158.65	0.58	GRD	MG	moderately argillic, weakly propylitic granodiorite containing light grey, gouged brecciated section (30 degrees TCA) which locally hosts blebby and disseminated pyrite. Blebby pyrite is observed along fracture surfaces in gouge brecciated section							
						MD	BG				Py	2
						LT	GN	BX	ARG	3I	Py	3
158.65	165.66	7.01	GRD	MG	black-white, unaltered granodiorite with local zones of weak to moderate hematite alteration. Trace 1-4 mm, quartz-carbonate veinlets (60 degrees TAC) are locally oserved throughout interval							
						DK	RD					
						--	BK		HEM	3I		
						--	WH					
165.66	168.60	2.94	GRD	MG	trace potassic, relatively unaltered granodiorite with localy zones of weak hematite alteration.							
168.60	176.03	7.43	GRD	MG	black-white unaltered granodiorite interval with minor zones of weak , dark red hematite alteration (interval is less altered than previous one). Trace 1-5 mm , quartz-carbonate veinlets , sometimes locally hosting trace pyrite are locally observed (40-60 degrees TCA). (trace potassic alteration halos (1-2 cm) observed near veinlet zones.							
						DK	RD					
						--	WH		HEM	2I		
						--	BK		POT	1I		
176.03	179.70	3.67	GRD	MG	black-white unaltered granodiorite, with local zones of pervasive hematite alteration. 1-6 mm, quartz-carbonate veinlets sometime hosting trace pyrite are loaclly observed (40 degrees TCA). A black fine grained, mafic inclusions is observed at 179.30							
						DK	RD					
						--	WH		HEM	3I		
						--	BK					
179.70	182.37	2.67	GRD	MG	black-white unalteredgranodiorite with local zones of trace potassic alteration and weak hematite alteration (hematite alteration is more pervasive and darker red than potassic).							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK					
						--	BK					
						--	WH					
182.37	183.35	0.98	GRD	MG	Black-white, unaltered granodiorite with pervasive dark red hematite alteration containing 1-8 mm, quartz carbonate veinlets (60 degrees TCA)							
183.35	184.02	0.67	GRD	MG	black-white unaltered granodiorite interval. minor dark red hematite oxidation is observed along fracture/join surfaces.							
						--	WH					
						--	BK					
184.02	185.75	1.73	GRD	MG	pervasively hematite altered granodiorite interval containing 1-5 mm, quartz carbonate stringer veinlets (40 degrees TCA).							
						DK	RD		HEM	3I		
185.75	191.28	5.53	GRD	MG	trace potassic, relatively unaltered granodiorite with local zones of weak to moderate hematite alteration. 1-7 mm, quartz-carbonate veinlets (40 degrees TCA) , sometimes hosting trace disseminated pyrite are locally observed							
						LT	PK					
						DK	RD		HEM	2I		
191.28	192.10	0.82	GRD	MG	trace potassic-propylitic granodiorite interval containing a 5 mm, light pink aplite dyke intrusion (80 degrees TCA) at 191.31m. A 10 cm, dark green(propylitic), polymictic inclusion is observed at 181.40m where a 3 mm, quartz carbonate veinlet (60 degrees TCA) is observed at the boundaries of the propylitic altered, polymictic inclusion.							
						LT	PK		PRO	1I		
						DK	GN		POT	1I		
192.10	193.47	1.37	GRD	MG	weakly argillic-potasic granodiorite interval containing 2-6mm, quartz carbonate veinlets (60 degrees TCA). Dark red, hematite alteration halos are observed within fracture surfaces.							
						MD	BG		ARG	3I		
						LT	PK		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
193.47	195.40	1.93	GRD	MG	trace potassc-propylitic granodiorite interval containing 1-8 cm, pink, fine grained, aplite dyke intrusions (80 degrees TCA). Largest intrusion is light green (likely due alteration in host grd).							
						LT	GN		POT	1I		
						LT	PK		PRO	1I		
195.40	195.60	0.20	GRD	MG	moderately argillic, weakly potassic granodiorite interval							
195.60	196.24	0.64	GRD	MG	black-white unaltered granodiorite interval							
196.24	198.63	2.39	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of weak to moderate, pervasive, dark red, hematite alteration. Minor, 3-6mm, quartz-carbonate veinlets (40 degrees TCA) occur sporadically throughout interval							
						LT	PK					
						DK	RD					
198.63	199.28	0.65	GRD	MG	black-white unaltered granodiorite interval							
199.28	199.79	0.51	GRD	MG	moderately argillic weakly potassic granodiorite with weak to moderate ,dark red hematite alteration 1-6mm, quartz carbonate veinlets (40 degrees TCA) are locally observed throughout interval. Tan, ankerite partially inilling veinlets is observed on interval							
						MD	BG		ARG	3I		
						MD	PK		POT	2I		
									HEM	2I		
199.79	201.49	1.70	GRD	MG	trace potassic-propylitic granodiorite with local zones of pervasive dark red alteration. 1-2mm, 80 degrees TCA, dark grey, veinlets sometimes hosting trace disseminated pyrite are locally observed.							
						LT	PK		PRO	1I		
						LT	GN		POT	1I		
						DK	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
201.49	204.85	3.36	GRD	MG	moderately argillic, trace propylitic granodiorite with local zones of trace potassic alteration and dark red hematite oxidation. Locally fracture zone is observed from 204.30-204.70m. Calcite infilled fractures are locally observed throughout interval.							
						MD	BG		PRO	1I		
						LT	PK		POT	1I		
						LT	GN					
						DK	RD		ARG	3I		
204.85	205.25	0.40	BXA	MG	moderately silicified , quartz-carbonate breccia vein zone locally hosting trace disseminated pyrite and possibly black sub-mm magnetite. (no significant mineralization observed throughout vein breccia). Light grey, tan quartz-carbonate locally brecciate host granodiorite.							
205.25	207.66	2.41	GRD	MG	moderately argillic, trace propylitic granodiorite with local zones of trace potassic alteration. 1-4 mm, carbonate veinlets (60 degrees TCA) are locally observed throughout interval. a light grey, gouged brecciated seam is observed at 206.10m.							
						MD	BG		PRO	1I		
						MD	GN		POT	1I		
						LT	PK		ARG	3I		
207.66	209.41	1.75	GRD	MG	trace potassic-propylitic, relatively unaltered granodiorite interval containing 2-8mm, quartz-carbonate stringer veinlets (60 degrees TCA) which locally host disseminated pyrite.							
						LT	PK		PRO	1I	Py	1
						LT	GN		POT	1I		
209.41	210.87	1.46	GRD	MG	moderately argillic, trace potassic granodiorite exhibiting dark red, pervasive hematite alteration. 1-5 mm, red, hematite altered, quartz-carbonate veinlets (30 degrees TCA) are locally observed throughout interval.							
210.87	216.70	5.83	GRD	MG	black-white, unaltered granodiorite interval with locally variable, weak to moderate hematite alteration zones. 2-8 mm, quartz-carbonate veinlets (40 degrees TCA), sometimes hosting hematite, and trace pyrite are observed throughout interval.							
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						--	BK					
						--	WH		HEM	3I	Py	1
216.70	217.63	0.93	GRD	MG	trace potassic-propylitic granodiorite interval with intermittent zones of strongly argillic-trace potassic alteration. 1-8mm, quartz-carbonate veinlets (40 degrees TCA), locally hosting disseminated pyrite occur throughout interval.							
217.63	218.82	1.19	VEN	MG	strongly argillic, trace propylitic-phyllic altered granodiorite intruded by 1-4 cm, quartz-carbonate polymetallic veins locally hosting pyrite, trae sphalerite and sub-mm galena. Light pink rhodocrosite and ankerite partially infills and locally brecciates host quartz vein and altered granodiorite. A light grey, carbonate veinlet (4 cm) locally crosscuts through ankerite-quartz veinlet at 218.80m. Quartz veins are vuggy and contain euhedral calcite and quartz primatic crystals formed within vugg spaces. Sub-mm sphalerite and possibly galena are spatially associated with rhodocrosite infilled veinlets. Disseminated pyrite is also observed throughout altered granodiorite host.							
						MD	GY		ARG	4I	Py	3
						MD	BG				Ak	2
						LT	GY				Gn	1
						LT	GN		PRO	2I	Py	3
											Sp	1
											Rh	4
218.82	219.48	0.66	GRD	MG	strongly argillic, weakly potassic granodiorite interval containing trace 2-5 mm, quartz-carbonate veinlets (80 degrees TCA).							
						MD	BG		POT	2I		
						LT	PK		PRO	1I		
						LT	GN		ARG	4I		
219.48	220.20	0.72	GRD	MG	trace propylitic-potassic, granodiorite interval.							
						LT	PK		POT	1I		
						LT	GN		PRO	1I		
220.20	220.84	0.64	GRD	MG	strongly argillic, trace potassic-propylitic granodiorite interval containing 4-8mm, quartz-carbonate veinlets (80 degrees TCA) which locally host trace pyrite							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
220.84	222.29	1.45	GRD	MG	trace potassic-propylitic granodiorite with small intermittent zones of argillic-potassic alteration (as alteratio halos near quartz-carbonate veinlets). 2-6 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed throughout interval.							
						LT	GN		PRO	1I		
						LT	PK		POT	1I		
222.29	224.96	2.67	GRD	MG	moderately argillic, trace propylitic granodiorite containing 3-7mm, quartz-carbonate veinlets (80 degrees TCA) which locally host disseminated pyrite . Quartz veinlets appear to be partially infilled by light pink rhodocrosite.							
						MD	BG		PRO	2I	Py	1
						MD	GN		ARG	3I		
224.96	225.20	0.24	GRD	MG	moderately argillic, weakly propylitic granodiorite interval containing 4-7 mm, black-dark green, microbrecciated, soft veinlets (chloritized veinlets (?))(40 degrees TCA). A light grey, gouged brecciated seam is observed at 225.97m where a 1 cm, quartz-carbonate veinlet locally hosting pyrite is present at contact with gouged seam.Trace,disseminated pyrite is locally observed throughout granodiorite interval.							
						MD	BG		PRO	2I		
						MD	GN		ARG	3I	Py	2
225.20	226.40	1.20	GRD	MG	moderately argillic, granodiorite with local zones of dark red hematite alteration. 3-6mm, quartz-carbonate veinlets (30 degrees TCA) are locally observed on interval.							
						MD	GN					
						MD	BG					
226.40	230.75	4.35	GRD	MG	interval comprised of alternating zones of moderately argillic granodiorite and moderately propylitic altered granodiorite zones. 1-2 mm, black, fine grained veinlets (40 degrees TCA) sometimes hosting trace disseminated pyrite.							
						MD	BG		ARG	3I	Py	1
						MD	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
230.75	232.72	1.97	GRD	MG	moderate propylitic granodiorite interval containing 2-3mm veinlets locallyl hosting trace pyrite and black, fine grained, dendritic magnetite. A 1 cm, quartz0caronate vienlet locally hosting pyrite within dark grey bands is observed at 232.50m. Disseminated pyrite is also locally observed throughout granodiorite interval							
232.72	233.36	0.64	MAF	MG	moderate propylitic granodiorite interval containing a black ,fine grained, silicified(?), dyke mafic intrusion (basaltic dyke ?), bound by 4mm-1 , polymetallic quart-carbonate veinlets. Quart-carbonate veinlets (60 degrees TCA) contain blebby pyrite, sphalerite and trace arseno pyrite. Black mafic intrusion contains 1-3 cm, lighter grey, irregular (vesicles(?)), which locally host blebby pyrite, sphalerite and trace arsenopyrite.							
						MD	GN		PRO	3I	Py	4
						MD	GY				Sp	3
						DK	BK				As	2
233.36	237.00	3.64	GRD	MG	moderately argillic, trace potassic granodiorite interval.							
						MD	BG		ARG	3I		
						LT	PK		POT	2I		
237.00	241.50	4.50	GRD	MG	Unaltered granodiorite with minor alternating zones of weakly argillic to propylitic altered granodiorite, with local weak hematite alteration overprinting argillic zones. Minor carbonate +- quartz stringers and veinlets found throughout.							
						MD	WH		ARG	2I		
						MD	GN		PRO	2I		
						LT	GN	PA	ARG	1I		
									PRO	1I		
									HEM	2I		
241.50	243.13	1.63	GRD	MG	Weakly argillic altered granodiorite with weak propylitic overprinting. Area has very faint red pervasive staining that is either secondary hematite alteration or a final overprint of potassic(?) alteration.							
						MD	WH		PRO	2I		
						LT	GN		HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	RD		ARG	2I		
									POT	1I		
243.13	249.73	6.60	GRD	MG	Unaltered granodiorite with minor carbonate stringers and veinlets.							
249.73	252.00	2.27	GRD	MG	Weakly argillic altered granodiorite with weak propylitic overprinting. Area has very faint red pervasive staining that is either secondary hematite alteration or a final overprint of potassic(?) alteration.							
						LT	WH		PRO	2I		
						LT	GN		ARG	1I		
252.00	259.09	7.09	GRD	MG	Unaltered granodiorite with minor local zone of propylitic/potassic altered granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.70	0.70	CAS	---	MG	casing
0.70	2.50	1.80	OVB	OVB	--	ovb
2.50	4.00	1.50	POR	DYK	MG	medium-dark brown, rubbly, clay altered and oxidized quartz feldspar porphyry dyke interval
4.00	4.90	0.90	POR	DYK	MG	light brown, yellowish, rubbly, gouged, clay altered , locally oxidized quartz feldspar porphyry dyke interval. (gouged , fracture fabric at 25 degrees TCA).
4.90	6.10	1.20	POR	DYK	MG	light brown-dark grey, clay altered, weakly oxidized quartz feldspar porphyry dyke interval
6.10	7.90	1.80	POR	DYK	MG	light brown-dark grey, clay altered, weakly oxidized quartz feldspar porphyry dyke interval with local rubbly zones and containing trace 1-3 mm, carbonate infilled vienlets (80 degrees TCA).
7.90	10.67	2.77	POR	DYK	MG	medium-light grey quartz feldspar porphyry dyke with local zones of clay alteration (mostly within fracture-joint surfaces)
10.67	15.39	4.72	POR	DYK	MG	light-medium grey quartz feldspar porphyry dyke interval with local zones of weakly light brown- clay alteration. Trace 2-5mm, carbonate veinlets (40 degrees TCA) are present at 14.55m. 1-3mm, sub- angular, hematite clasts are commonly observed throughout dyke interval. Dqrk grey, fine grained, magnetic inclusions are observed on dyke containing a clay altered, light brown rim.
15.39	19.84	4.45	POR	DYK	MG	light-medium brown clay altered quartz feldspar porphyry dyke interval. Dyke matrix is dark green (oxidized (?)) and contains trace 1-4mm carbonate vienlets (40 degrees TCA) and calcite infilled fractures. A dark grey finer grained dyke section is observed at 18.29-18.52
19.84	21.00	1.16	POR	DYK	MG	medium brown-reddish (oxidized), clay altered, quartz feldspar porphyry dyke interval exhibititing gouged brecciated seams (weakly sheared(?)), gouged seams are light grey 0- brown and locally brecciate feldspathic and quartz clasts on dyke interval.
21.00	21.70	0.70	POR	DYK	MG	light grey, quartz feldspar porphyry dyke interval with local zones of light brown, clay alteration and displaying gouged brecciation and shear fabric (40 degrees TCA).
21.70	33.14	11.44	POR	DYK	MG	light to medium grey, quartz feldspar porphyry dyke interval with local zones of light brown clay alteration and reddish, hematite oxidation. 2-3 cm, soft, clayey , gouged brecciated seams (45 degrees TCA) are locally observed throughout interval. trace 1-4 mm, 25 degrees TCA, carbonate infilled veinlets are observed on interval. 1-3 mm, red hematite clasts are commonly occurring throughout interval.
33.14	34.10	0.96	POR	DYK	MG	light-medium grey, finer grained, quartz feldspar porphyry dyke interval (initerval is finer grained than previous dyke intervals and appears to contain more feldspathic clasts). Minor, dark red-purple hematite staining is locally variably on interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
34.10	35.10	1.00	POR	DYK	FG	fine grained, light-medium gray quartz feldspar porphyry interval with localy zones of reddish hematite staining and clay alteration. Well defined 2-4 mm, bands (60 degrees TCA) are prominent proximal to faulted contact with GRD . Fracture surfaces are locally infilled by oxidized carbonatess.
35.10	35.39	0.29	FLR	DYK	FG	soft, clayey gouged brecciated, clay altered,faulted contact between dyke and granodiorite. Dyke interval is dark green-brown (due to oxidation and clay alteration). Shear fabric of 30 degrees TCA is observed in gouged, brecciate faulted seams
35.39	37.54	2.15	GRD	GRD	MG	clay altered (light brown), moderately argillic, trace potassic-propylitic granodiorite interval containing trace 2-6 mm, oxidized, Quartz-carbonate veinlets (35 degrees TCA), which sometimes contain fine grained, disseminated pyrite. Sub-mm, dendritic,black , magnetite inclusions are locally observed on clay altered granodiorite sections that also contain minor reddish, hematite staining. Trace, light pink, rhodocrosite is sporadically observed inleast clay altered granodiorite sections (i.e. 37.40m).
37.54	39.62	2.08	GRD	GRD	MG	trace potassic-propylitic granodiorite interval with local zones of weak clay alteration. Limonite infilling fracture/joint surfaces is commonly observed . Trace 1-3 mm, clay altered, oxidized, quartz-carbonate veinlets locally hosting hematite and trace disseminate pyrite are observed on interval (40 degrees TCA).
39.62	41.65	2.03	GRD	GRD	MG	interval comprised clay altered, trace potassic-propylitic granodiorite with intermittent zones of moderately argillic, trace potassic alteration. 2-4 mm, carbonate veinlets (80 degrees TCA) are observed in sections with least clay alteration. 2-5 mm,clay altered, oxidized, quartz-carbonate veinlets, sometimes hosting trace disseminated pyrite (35 degrees TCA) are commonly observed throughout interval.
41.65	45.00	3.35	GRD	GRD	MG	interval comprised of strongly argillic, trace propylitic granodiorite with local zones of light-brown, pervasiveclay alteration and local zones of dark red, hematite alteration. 4mm-2 cm, quartz-carbonate veinlets (40 degrees TCA) locally hosting trae pyrite and sub-mm sphalerite are observed throughout interval.
45.00	45.63	0.63	GRD	GRD	MG	weakly argillic, trace potassic granodiorite containing 1-4mm, hematite and clay altered, quartz-carbonate veinlets (30 degrees TCA) .
45.63	47.55	1.92	GRD	GRD	MG	trace potassic granodiorite with intermittent zone of pervasively clay altered, weakly argillic granodiorite. 2-5 mm, hematite and clay altered, quartz carbonate veinlets (35 degrees TCA) are locally observed throughout interval.
47.55	48.77	1.22	GRD	GRD	MG	pervasively clay, hematite altered, weakly potassic, trace propylitic granodiorite interval containting 2-5 mm, 35 degres TCA, quartz-carbonate veinlets sometimes hosting blebby pyrite. Calcite-limonite infilled fractures are locally observed throughout interval as well.
48.77	49.47	0.70	GRD	GRD	MG	trace potassic-propylitic granodiorite interval with local ones of weak potassic alteration and locally variable clay alteration and dark red hematite oxidation. 2-4 mm, quartz-carbonate veinlets (30 degrees TCA) locally hosting bleby pyrite and black, metallic lustered, micaceous, non magnetic mineral (Mg-rich mica(?).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
49.47	55.53	6.06	GRD	GRD	MG	white-black, unaltered granodiorite with local zones of trace potassic-propylitic alteration and minor light-brown clay alteration and local zones of pervasive dark red hematite oxidation. Trace 1-3 mm, black fine grained,quartz-carbonate veinlets (40 degrees TCA) sometimes locally hosting trace pyrite are locally observed throughout interval
55.53	56.30	0.77	GRD	GRD	MG	unaltered granodiorite interval with pervasive hematite oxidation. 3-5 mm, 45 degrees TCA, carbonate veinlets containing red hematite and yellowish/green carbonates are locally observed throughout interval
56.30	60.16	3.86	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval containing weak hematite oxidation. A 2 cm, dark red, hematite altered, gouged brecciated seam (20 degrees TCA) locally hosting blebby pyrite is observed at 58.30m. A 4 mm, quartz-carbonate veinlet proximal to gouged seam locally hosts blebby pyrite and specular hematite blebs. 2-5 mm, 80 degrees TCA ,quartz-carbonate veinlets are present from 58.71-89m.
60.16	62.90	2.74	GRD	GRD	MG	black-white unatere granodiorite interval with minor clay alteration and limonite alteration along fractures and joint surfaces. Minor hematite alteration is locally observed on surface in some grd sections.
62.90	63.10	0.20	GRD	GRD	MG	fractured unaltered granodiorite interval displaying clay alteration along fracture surfaces
63.10	67.60	4.50	GRD	GRD	MG	unaltered granodiorite interval with local zones f pervasive hematite oxidation. A dark red, hematite altered, gouged brecciated seam is locally observed at 66.40m. Trace disseminated pyrite is observed near gouged zone within granodiorite host and in gouged seam. Dark, fine grained, magnetic, mafic inclusions are locally observed in hematite altered granodiorite zones. 1-2 mm, quartz-carbonate veinlets (20 degrees TCA) posibly hosting trace chalcopyrite (brassy yellow , soft) are contained within mafic inclusions zone occurs at 67.50m
67.60	68.75	1.15	GRD	GRD	MG	black-white, unaltered granodiorite interval
68.75	70.00	1.25	GRD	GRD	MG	moderately argillic-potassic granodiorite interval with local zones of weak propylitic alteration (as alteration halo near quartz-carbonate veinlets). 5-9mm, quartz-carbonate veinlets (60 degrees TCA) locally hosting trace pyrite is observed at 69.39m. (rhodocrosite and calcite appear to infill and locally brecciate quartz vein).
70.00	71.00	1.00	GRD	GRD	MG	weakly potassic , trace argillic-propylitic granodiorite interval displaying dark red, pervasive hematite oxidation on surfaces and along fracture/joint surfaces. From 70.80-71m , black, fine grained, magnetic mafic inclusion locally brecciates and intersitially intrudes into granodiorite host (near contact with mafic dyke intrusion).
71.00	71.38	0.38	GRD	GRD	MG	light brown-black, clay altered and oxidized , slightly magnetitic, clast bearing, mafic intrusion in granodiorite. Calcite infilled fractures and 2-5mm, quartz-carbonate veinlets (60 degrees TCA) are observed throughout mafic intrusion. 80 degrees TCA,gouged brecciated, clay altered seam is observed at the granodiorite, mafic intrusion contact. (mafic intrusion near the contact locally brecciates and intersititally intrudes into argillic-potassic altered granodiorite).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
71.38	73.83	2.45	GRD	GRD	MG	trace potassic granodiorite interval with localy zones of weakly argillic-potassic alteration (mostly as alteration halo near veinlets). 3-6 mm, quartz-carbonate veinlets (60 degrees TCA)locally hosting trace disseminated pyrite are commonly observed on interval within potassic-argillic alteration halos. A 2 cm, light brown, clay altered , gouged brecciated seam (60 degrees TCA) is observed at 172.50m.
73.83	74.68	0.85	GRD	GRD	MG	black-white, unaltered granodiorite interval with trace 1-4 mm, quartz-carbonate veinlets (60 degrees tca), with trace potassic alteratin halo, locally hosting trace disseminated pyrite.
74.68	80.60	5.92	GRD	GRD	MG	Trace potassic-propylitic , unaltered granodiorite interval containing 2-3mm, quartz-carbonate, stringer veinlets locally hosting trace blebby pyrite (50 degrees TCA). Stringer veins contain 1-2 cm propylitic alteration halo.
80.60	82.50	1.90	GRD	GRDA	MG	strongly argillic,trace potassic granodiorite intreval containing trace 2-3mm, carbonate veinlets (60 degrees TCA)/
82.50	84.10	1.60	GRD	GRDA	MG	moderately argillic, weakly propylitic granodiorite interval containing 6-8m, quartz-carbonate veinlets (60 degrees TCA), locally hosting trace pyrite,sphalerite and possily galena. Ankerite and possibly rhodocrosite partially infill and locally brecciate quartz veinlet. Trace phyllic alteration expressed as increased quartz clasts, disseminated pyrite in grd is present near veinlet zones. Fracturing and clay alteration are oobserved from 82.50-82.65m
84.10	84.55	0.45	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite interval
84.55	86.61	2.06	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zone of dark red, hematite alteration
86.61	87.00	0.39	GRD	GRD	MG	moderately argillic, weakly potassic granodiorite interval containing 2-5 mm, quartz carbonate veinlets (40 degrees TCA).
87.00	88.00	1.00	GRD	GRD	MG	relatively unaltered granodiorite interval containing 1-5mm, quartz carbonate veinlets (60-80 degrees TCA).
88.00	91.44	3.44	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with local zones of pervasive hematite alteration. Hematite altered section contains 1-2 mm, oxidized veinlets (80 degrees TCA)
91.44	92.00	0.56	GRD	GRD	MG	black-white, unaltered granodiorite interval
92.00	93.28	1.28	GRD	GRD	MG	trace potassic, granodiorite interval displaying weak clay alteration and weakly pervasive hematite alteration.
93.28	94.00	0.72	GRD	GRD	MG	moderately argillic, weakly potassic granodiorite interval containing trace 1-4 mm, quartz-carbonate veinlets (50 degrees TCA).
94.00	95.20	1.20	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite interval with local zones of weak hematite alteration. 5 mm, quartz-carbonate veinlet (40 degrees TCA) is observed on interval
95.20	96.74	1.54	GRD	GRD	MG	black-white , unaltered granodiorite interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
96.74	97.54	0.80	GRD	GRD	MG	locally fractured, clay altered, weak hematite altered granodiorite interval
97.54	109.80	12.26	GRD	GRD	MG	black-white, unaltered granodiorite interval with local zone of weak hematite alteration . Trace 1-4 mm, quartz-carbonate veinlets (20 degrees TCA) occur sporaically throughout interval.
109.80	111.00	1.20	GRD	GRD	MG	trace potassic, granodiorite interval with weak hematite alteration. A 1 cm, slightly deformed (weakly sheared), oxidized, quartz-carbonate veinlet (30 degrees TCA0 is observed at 109.85m Hematite appears to partially infill and locally brecciate quartz-carbonate veinlet .
111.00	112.15	1.15	GRD	GRD	MG	weakly sheared, weakly propylitic granodiorite interval with pervasivev hematite alteration. An 80 degrees TAC, gouged brecciated seam is observed at 112 m, within moderately silicified , propylitic altered granodiorite. 2 cm, quartz veins (60 degrees TCA) occur at the contact with clay altered dyke 112.15m. Disseminated pyrite is locally hoste in silicified, propylitic altered granodiorite zone near and within quartz veinlets
112.15	113.58	1.43	POR	DYK	MG	locally fractured, clay altered, light-medium brown, fine grained dyke intrusion containing 1-2mm, carbonate veinlets (30 degrees TCA). (faulted dyke interval (?))
113.58	114.33	0.75	GRD	GRDA	MG	clay altered, sheared (45 degrees TCA sear fabric), gouged brecciated,moderately argillic granodiorite interval containing 2-5 mm, quartz-carbonate , clay infilled, oxidized, veinlets (40 degrees TCA)
114.33	116.11	1.78	GRD	GRDA	MG	Weakly propylitic-trace potassic granoiorite interval with loal zones of pervaive hematite oxidation. Soft, gouged, sheared sections are loaclly observed @ 115.10m. (shear fabric ~ 45 degrees TCA. 1-2 mm, carbonate veinlets (40 degrees TCA) are occur throughout interval.
116.11	118.60	2.49	GRD	GRDA	MG	moderately propylitic-argillic altered granodiorite with local zones of pervasive, dark red hematite alteration. Hematite altered sections contain black, fine grained magnetite inclusions. Black, metallic lustered, non magnetic (tourmaline (?)) inclusions are observed @ 111.60-112m. Blebby pyrite is locally observed near magnetite bearing zones in altered granodiorite (i.e. 111.85m). Gouged seam (60 degrees TCA) is observed in hematite altered section at 111.50m.
118.60	122.15	3.55	GRD	GRDA	MG	strongly argillic granodiorite with pervasive dark red, hematite oxidation and local zones of weakly propylitic alteration. Trace 2-7 mm, quartz-carbonate veinlets (40 degrees TCA) locally hosting trace blebby pyrite, hematite and magnetite are observed throughout interval. Some quartz-carbonate veinlets appear to locally brecciate host granodiorite.
122.15	124.00	1.85	GRD	GRDA	MG	strongly argillic, trace potassic granodiorite with weak pervasive hematite oxidation and containting trace 1-5mm, quartz carbonate veinlets which sometimes host trace pyrite and magnetite. Minor clay alteration is observed @ 123.65m.
124.00	124.54	0.54	GRD	GRDA	MG	clay altered, locally fractured, moderately argillic, trace potassic granodiorite interval
124.54	125.10	0.56	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval with weak pervaive hematite alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
125.10	126.88	1.78	GRD	GRDA	MG	strongly argillic ,trace potassic-propylitic granodiorite interval exhibiting a clay altered, gouged brecciated seam (20 degrees TCA) at 175.70m. Dark red, hematite alteration occurs from 126.53-126.88
126.88	128.02	1.14	GRD	GRDA	MG	relatively unaltered granodiorite with local zones of dark red, hematite alteration.]
128.02	128.90	0.88	GRD	GRDA	MG	moderate argillic, weakly potassic, hematite altered granodiorite interval containing 1-5 mm, quartz-carbonate veinlets (60-80 degreees TCA)which locally brecciate host granodiorite (i.e. 128.34m). Some veinlets contain dark red hematite infill and locally host disseminated pyrite
128.90	130.12	1.22	GRD	GRDA	MG	trace potassic-propylitic, hematite altered, granodiorite interval containing trace 1-4mm, quartz-carbonate veinlets (80 degrees TCA) sometimes hosting trace pyrite.
130.12	132.90	2.78	GRD	GRDA	MG	Strongly argillic, weakly potassic granodiorite interval with local zones of pervasive hematite oxidation. 1mm-1 cm, quartz-carbonate stringer veinlets, sometimes locally hosting trace pyrite are locally observed throughout interval (60 degrees TCA). A clay altered, gouged brecciated sections occurs at 132.40m.
132.90	135.77	2.87	GRD	GRDA	MG	trace potasic granodiorite interval with weak hematite oxidation andcontaining trace 1-2 mm, calcite infilled fractures and 1-4 mm, quartz-carbonate veinlets (40 degrees TCA).
135.77	136.68	0.91	GRD	GRDA	MG	moderately argillic, trace potassic-propylitic granodiorite with local zones of weak pervasive hematite alteration. Trace 1 -3 mm, hematite infilled, quartz-carbonate veinlets are locally observed throughout interval (60-80 degrees TCA)
136.68	137.57	0.89	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite interval
137.57	139.00	1.43	GRD	GRDA	MG	strongly argillic, weakly propylitic granodiorite with local zone of weak potassic alteration and dark red hematite oxidation. 3-8mm, quartz-carbonate veinlets (45 degrees TCA), sometimes containing red hematite and trace pyrite are locally observed on interval
139.00	139.51	0.51	BXA	GRDA	MG	strongly silicified, quartz-carbonate breccia vein zone locally hosting trace disseminated pyrite. Tan, ankerite appears to infill and locally brecciate quartz -bearing breccia vein sections. Granodiorite clasts are locally brecciated by quartz within breccia vein zone. Small vuggs are also observed within quartz breccia vein zone.
139.51	141.84	2.33	GRD	GRDA	MG	interval comprised of moderately argillic, weakly potassic granodiorite and trace potassic, relatively unaltered granodiorite. 2-6 mm, quartz carbonate veinlets, sometimes locally hosting trace ,disseminated pyrite are locally observed . Fractured zone is oserved at 140.50m.
141.84	144.44	2.60	GRD	GRD	MG	unaltered granodiorite interval with local zones of weak dark red, hematite oxidation

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
144.44	147.30	2.86	GRD	GRD	MG	relatively unaltered granodiorite interval with weakly to moderate pervasive hematite oxidation and containing trace 1-3 mm, quartz-carbonate veinlets (60 degrees TCA). Fractured, rubbly zone is observed from 146-147.09 m. fractured, rubbly zone exhibits light brown, clay alteration and dark red hematite oxidation.
147.30	149.00	1.70	GRD	GRD	MG	strongly argillic granodiorite with weak hematite alteration and containing 3-6 mm, quartz-carbonate veinlets(60 degrees TCA) which sometimes locally host trace, pyrite. A soft, gouged , fracutred section is observed at 147.85m.
149.00	150.20	1.20	GRD	GRD	MG	locally fractured, trace potassic-propylitic, relatively unaltered granodiorite interval exhibiting weak hematite oxidation on surface and along joints/fractures.
150.20	153.80	3.60	GRD	GRD	MG	locally fractured, trace potassic-propyitic granodiorite interval containing 4-8 mm, quartz-carbonate veinlets (60 degrees TCA) which locally host trace pyrite. Weak hematite alteration is locally observed on surface and along fractures/joints.
153.80	154.90	1.10	GRD	FLT	MG	faulted, rubbly , hematite altered granodiorite interval. 1-3 cm calcite fragments are locally observed throughout rubbly interval
154.90	156.20	1.30	GRD	GRDA	MG	black-white, unaltered granodiorite intervalwith local zones of dark red, hematite alteration. Trace 3-4 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed
156.20	157.56	1.36	GRD	GRDA	MG	moderately argillic weakly propylitic granodiorite interval containing trace 5-7mm, quartz-carbonate veinlets which locally host trace pyrite (60 degrees TCA).
157.56	158.07	0.51	GRD	GRDA	MG	trace propylitic,hematite altered granodiorite
158.07	158.65	0.58	GRD	GRDA	MG	moderately argillic, weakly propylitic granodiorite containing light grey, gouged brecciated section (30 degrees TCA) which locally hosts blebby and disseminated pyrite. Blebby pyrite is observed along fracture surfaces in gouge brecciated section
158.65	165.66	7.01	GRD	GRD	MG	black-white, unaltered granodiorite with local zones of weak to moderate hematite alteration. Trace 1-4 mm, quartz-carbonate veinlets (60 degrees TAC) are locally oserved throughout interval
165.66	168.60	2.94	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with localy zones of weak hematite alteration.
168.60	176.03	7.43	GRD	GRD	MG	black-white unaltered granodiorite interval with minor zones of weak , dark red hematite alteration (interval is less altered than previous one). Trace 1-5 mm , quartz-carbonate veinlets , sometimes locally hosting trace pyrite are locally observed (40-60 degrees TCA). (trace potassic alteration halos (1-2 cm) observed near veinlet zones.
176.03	179.70	3.67	GRD	GRD	MG	black-white unaltered granodiorite, with local zones of pervasive hematite alteration. 1-6 mm, quartz-carbonate veinlets sometime hosting trace pyrite are loaclly observed (40 degrees TCA). A black fine grained, mafic inclusions is observed at 179.30

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
179.70	182.37	2.67	GRD	GRD	MG	black-white unalteredgranodiorite with local zones of trace potassic alteration and weak hematite alteration (hematite alteration is more pervasive and darker red than potassic).
182.37	183.35	0.98	GRD	GRD	MG	Black-white, unaltered granodiorite with pervasive dark red hematite alteration containing 1-8 mm, quartz carbonate veinlets (60 degrees TCA)
183.35	184.02	0.67	GRD	GRD	MG	black-white unaltered granodiorite interval. minor dark red hematite oxidation is observed along fracture/join surfaces.
184.02	185.75	1.73	GRD	GRD	MG	pervasively hematite altered granodiorite interval containing 1-5 mm, quartz carbonate stringer veinlets (40 degrees TCA).
185.75	191.28	5.53	GRD	GRD	MG	trace potassic, relatively unaltered granodiorite with local zones of weak to moderate hematite alteration. 1-7 mm, quartz-carbonate veinlets (40 degrees TCA) , sometimes hosting trace disseminated pyrite are locally observed
191.28	192.10	0.82	GRD	GRDA	MG	trace potassic-propylitic granodiorite interval containing a 5 mm, light pink aplite dyke intrusion (80 degrees TCA) at 191.31m. A 10 cm, dark green(propylitic), polymictic inclusion is observed at 181.40m where a 3 mm, quartz carbonate veinlet (60 degrees TCA) is observed at the boundaries of the propylitic altered, polymictic inclusion.
192.10	193.47	1.37	GRD	GRDA	MG	weakly argillic-potasic granodiorite interval containing 2-6mm, quartz carbonate veinlets (60 degrees TCA). Dark red, hematite alteration halos are observed within fracture surfaces.
193.47	195.40	1.93	GRD	GRDA	MG	trace potassc-propylitic granodiorite interval containing 1-8 cm, pink, fine grained, aplite dyke intrusions (80 degrees TCA). Largest intrusion is light green (likely due alteration in host grd).
195.40	195.60	0.20	GRD	GRDA	MG	moderately argillic, weakly potassic granodiorite interval
195.60	196.24	0.64	GRD	GRDA	MG	black-white unaltered granodiorite interval
196.24	198.63	2.39	GRD	GRDA	MG	trace potassic, relatively unaltered granodiorite interval with local zones of weak to moderate, pervasive, dark red, hematite alteration. Minor, 3-6mm, quartz-carbonate veinlets (40 degrees TCA) occur sporadically throughout interval
198.63	199.28	0.65	GRD	GRDA	MG	black-white unaltered granodiorite interval
199.28	199.79	0.51	GRD	GRDA	MG	moderately argillic weakly potassic granodiorite with weak to moderate ,dark red hematite alteration 1-6mm, quartz carbonate veinlets (40 degrees TCA) are locally observed throughout interval. Tan, ankerite partially inilling veinlets is observed on interval
199.79	201.49	1.70	GRD	GRDA	MG	trace potassic-propylitic granodiorite with local zones of pervasive dark red alteration. 1-2mm, 80 degrees TCA, dark grey, veinlets sometimes hosting trace disseminated pyrite are locally observed.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
201.49	204.85	3.36	GRD	GRDA	MG	moderately argillic, trace propylitic granodiorite with local zones of trace potassic alteration and dark red hematite oxidation. Locally fracture zone is observed from 204.30-204.70m. Calcite infilled fractures are locally observed throughout interval.
204.85	205.25	0.40	BXA	GRDA	MG	moderately silicified , quartz-carbonate breccia vein zone locally hosting trace disseminated pyrite and possibly black sub-mm magnetite. (no significant mineralization observed throughout vein breccia). Light grey, tan quartz-carbonate locally brecciate host granodiorite.
205.25	207.66	2.41	GRD	GRDA	MG	moderately argillic, trace propylitic granodiorite with local zones of trace potassic alteration. 1-4 mm, carbonate veinlets (60 degrees TCA) are locally observed throughout interval. a light grey, gouged brecciated seam is observed at 206.10m.
207.66	209.41	1.75	GRD	GRDA	MG	trace potassic-propylitic, relatively unaltered granodiorite interval containing 2-8mm, quartz-carbonate stringer veinlets (60 degrees TCA) which locally host disseminated pyrite.
209.41	210.87	1.46	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite exhibiting dark red, pervasive hematite alteration. 1-5 mm, red, hematite altered, quartz-carbonate veinlets (30 degrees TCA) are locally observed throughout interval.
210.87	216.70	5.83	GRD	GRDA	MG	black-white, unaltered granodiorite interval with locally variable, weak to moderate hematite alteration zones. 2-8 mm, quartz-carbonate veinlets (40 degrees TCA), sometimes hosting hematite, and trace pyrite are observed throughout interval.
216.70	217.63	0.93	GRD	GRDA	MG	trace potassic-propylitic granodiorite interval with intermittent zones of strongly argillic-trace potassic alteration. 1-8mm, quartz-carbonate veinlets (40 degrees TCA), locally hosting disseminated pyrite occur throughout interval.
217.63	218.82	1.19	VEN	VEIN	MG	strongly argillic, trace propylitic-phyllic altered granodiorite intruded by 1-4 cm, quartz-carbonate polymetallic veins locally hosting pyrite, trae sphalerite and sub-mm galena. Light pink rhodocrosite and ankerite partially infills and locally brecciates host quartz vein and altered granodiorite. A light grey, carbonate veinlet (4 cm) locally crosscuts through ankerite-quartz veinlet at 218.80m. Quartz veins are vuggy and contain euhedral calcite and quartz primatic crystals formed within vugg spaces. Sub-mm sphalerite and possibly galena are spatially associated with rhodocrosite infilled veinlets. Disseminated pyrite is also observed throughout altered granodiorite host.
218.82	219.48	0.66	GRD	GRDA	MG	strongly argillic, weakly potassic granodiorite interval containing trace 2-5 mm, quartz-carbonate veinlets (80 degrees TCA).
219.48	220.20	0.72	GRD	GRDA	MG	trace propylitic-potassic, granodiorite interval.
220.20	220.84	0.64	GRD	GRDA	MG	strongly argillic, trace potassic-propylitic granodiorite interval containing 4-8mm, quartz-carbonate veinlets (80 degrees TCA) which locally host trace pyrite

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
220.84	222.29	1.45	GRD	GRDA	MG	trace potassic-propylitic granodiorite with small intermittent zones of argillic-potassic alteration (as alteratio halos near quartz-carbonate veinlets). 2-6 mm, quartz-carbonate veinlets (60 degrees TCA) are locally observed throughout interval.
222.29	224.96	2.67	GRD	GRDA	MG	moderately argillic, trace propylitic granodiorite containing 3-7mm, quartz-carbonate veinlets (80 degrees TCA) which locally host disseminated pyrite . Quartz veinlets appear to be partially infilled by light pink rhodocrosite.
224.96	225.20	0.24	GRD	GRDA	MG	moderately argillic, weakly propylitic granodiorite interval containing 4-7 mm, black-dark green, microbrecciated, soft veinlets (chloritized veinlets (?))(40 degrees TCA). A light grey, gouged brecciated seam is observed at 225.97m where a 1 cm, quartz-carbonate veinlet locally hosting pyrite is present at contact with gouged seam.Trace,disseminated pyrite is locally observed throughout granodiorite interval.
225.20	226.40	1.20	GRD	GRDA	MG	moderately argillic, granodiorite with local zones of dark red hematite alteration. 3-6mm, quartz-carbonate veinlets (30 degrees TCA) are locally observed on interval.
226.40	230.75	4.35	GRD	GRDA	MG	interval comprised of alternating zones of moderately argillic granodiorite and moderately propylitic altered granodiorite zones. 1-2 mm, black, fine grained veinlets (40 degrees TCA) sometimes hosting trace disseminated pyrite.
230.75	232.72	1.97	GRD	GRDA	MG	moderate propylitic granodiorite interval containing 2-3mm veinlets locallyl hosting trace pyrite and black, fine grained, dendritic magnetite. A 1 cm, quartz0caronate vienlet locally hosting pyrite within dark grey bands is observed at 232.50m. Disseminated pyrite is also locally observed throughout granodiorite interval
232.72	233.36	0.64	MAF	GRDA	MG	moderate propylitic granodiorite interval containing a black ,fine grained, silicified(?), dyke mafic intrusion (basaltic dyke ?), bound by 4mm-1 , polymetallic quart-carbonate veinlets. Quart-carbonate veinlets (60 degrees TCA) contain blebby pyrite, sphalerite and trace arseno pyrite. Black mafic intrusion contains 1-3 cm, lighter grey, irregular (vesicles(?)), which locally host blebby pyrite, sphalerite and trace arsenopyrite.
233.36	237.00	3.64	GRD	GRDA	MG	moderately argillic, trace potassic granodiorite interval.
237.00	241.50	4.50	GRD	GRD	MG	Unaltered granodiorite with minor alternating zones of weakly argillic to propylitic altered granodiorite, with local weak hematite alteration overprinting argillic zones. Minor carbonate +- quartz stringers and veinlets found throughout.
241.50	243.13	1.63	GRD	GRD	MG	Weakly argillic altered granodiorite with weak propylitic overprinting. Area has very faint red pervasive staining that is either secondary hematite alteration or a final overprint of potassic(?) alteration.
243.13	249.73	6.60	GRD	GRD	MG	Unaltered granodiorite with minor carbonate stringers and veinlets.
249.73	252.00	2.27	GRD	GRD	MG	Weakly argillic altered granodiorite with weak propylitic overprinting. Area has very faint red pervasive staining that is either secondary hematite alteration or a final overprint of potassic(?) alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
252.00	259.09	7.09	GRD	GRD	MG	Unaltered granodiorite with minor local zone of propylitic/potassic altered granodiorite.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.70	0.70	CAS	MG	casing							
0.70	2.50	1.80	OVB	--	ovb							
2.50	35.39	32.89	QFP	MG	initerval composed of light brown-grey-purple quartz, medium grained, feldspar porphyry dyke with local rubbly, clay altered and oxidized zones. Trace 1-4 mm, carbonate infilled veinlets are locally observed on interval.							
						LT	BN					
						LT	GY		CLY	3I		
						MD	GY		OXI	3I		
						DK	PU		LIM	2I		
						MD	BN					
35.39	49.47	14.08	GRD	MG	Interval comprised of intermittent zones of moderately argillic-weakly potassic granodiorite, trace potassic granodiorite, strongly argillic, propylitic granodiorite and weakly argillic-propylitic granodiorite. Light-medium brown clay alteration occurs throughout interval and is locally variable (from weak to pervasive , most clay alteration in altered granodiorite sections). 3-8 mm, quartz-carbonate veinlets (60 degrees TCA), sometimes locally hosting blebby pyrite, blebby magnetite and specular hematite occur throughout interval (mineralized veinlets mostly observed in altered granodiorite sections (argillic). Minor, dark red hematite staining and hematite infilled veinlets (1mm, 60-80 degrees TCA) are also present throughout interval.							
						MD	BG		ARG	3I		
						MD	PK		HEM	1I	He	1
						LT	GN		PRO	2I		
						LT	BN		POT	2I	Py	2
						DK	RD		CLY	3I	Mg	2
						MD	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
49.47	80.60	31.13	GRD	MG	interval comprised of unaltered granodiorite with intermittent zones of moderately argillic, weakly potassic granodiorite and strongly argillic, trace potassic granodiorite. Trace 3-8mm, quartz-carbonate veinlets, sometimes locally hosting trace disseminated and blebby pyrite are locally observed. Minor clay alteration is locally observed on interval(along fracture/joint surfaces, gouged brecciated seams and in some altered granodiorite sections). Overall, unit displays less clay alteration than previous interval.							
80.60	84.55	3.95	GRD	MG	moderate to strongly argillic granodiorite with intermittent zones of trace potassic and propylitic alteration. 2-5mm,m dark grey veinlets and quartz-carbonate veinlets (80 degrees TCA) are observed in propylitic , tracephyllic (increased quartz, disseminated pyrite observed within grd host) sections at 82.50 and 84 m. Veinlets locally host disseminated pyrite ,sub mm sphalerite and possibly galena. Ankerite and possily light pink rhodocrosite partially infill and locally brecciate quartz veinlets.							
						LT	PK		PRO	2I	Sp	1
						MD	BG		POT	1I	Gn	0.5
						MD	GN		ARG	3I	Py	2
84.55	97.54	12.99	GRD	MG	trace potassic, relatively unaltered granodiorite with intermittent zones of moderately argillic-potassic alteration and dark red hematite alteration (i.e. 86m). 2-5mm, quartz-carcarbonate veinlets (40-60 degrees TCA), sometimes hosting trace . Some carbonate veinlets locally brecciate host granodiorite.							
97.54	109.80	12.26	GRD	MG	black-white, unaltered granodiorite interval with local zone of weak hematite alteration . Trace 1-4 mm, quartz-carbonate veinlets (20 degrees TCA) occur sporaically throughout interval.							
						--	BK		HEM	1I		
						--	WH					
109.80	112.15	2.35	GRD	MG	trace potassic, relatively unaltered granodiorite interval with intermittent zone of trace propylitic, pervaively hematite altered, weakly sheared granodiorite with local zones of gouge brecciation.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	2I		
						DK	RD		HEM	2I		
112.15	113.58	1.43	POR	MG	locally fractured, clay altered, light-medium brown, fine grained dyke intrusion containing 1-2mm, carbonate veinlets (30 degrees TCA). (faulted dyke interval (?))							
						LT	BN		CLY	3I		
						MD	BN	FR	HEM	2I		
113.58	126.88	13.30	GRD	MG	interval comprised of intermittent zones of clay altered, moderately argillic granodiorite, moderately propylitic-weakly argillic granodiorite and strongly argillic pervasively hematite altered granodiorite. Shear fabric, and gouged brecciation are observed in clay altered granodiorite section proximal to dyke contact. Calcite infilled fractures and trace, 1-4 mm, quartz-carbonate veinlets (40 degrees TCA), sometimes locally hosting trace pyrite and hematite are observed throughout interval.							
						MD	BG		ARG	4I	Py	1
						MD	BG		HEM	3I		
						MD	GN		CLY	2I		
						DK	RD		PRO	3I		
126.88	141.84	14.96	GRD	MG	interval comprised of alternating zones of trace potassic, hematite altered granodiorite, moderate-strongly argillic granodiorite with pervasive hematite oxidation, and argillic-trace propylitic granodiorite. 4-8 mm, quartz-carbonate veinlets sometimes locally hosting trace , blebby pyrite are locally observed on interval (40 degrees TCA). 1-4 mm, unmineralized, quartz-carbonate veinlets (80 degrees TCA) locally brecciate host granodiorite . A 46 cm, strongly silicified, quart-carbonate breccia vein zone hosting trace disseminated pyrite is locally observed @ 139.06m							
						LT	PK		POT	2I	Py	2
						MD	PK		PRO	1I		
						DK	RD		HEM	2I		
						LT	GN					
						MD	BG		ARG	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
141.84	153.80	11.96	GRD	MG	interval comprised of unaltered granodiorite with local zones of pervasive hematite oxidation and local zone of strong argillic alteration. Fractured and rubbly (faulted(?)) granodiorite sections are locally observed throughout interval. Trace 1-4 mm, quartz-carbonate veinlets (60 degres TCA) are sporadically observed on interval sometimes locally hosting trace pyrite.							
						MD	BG					
						DK	RD		ARG	3I		
						MD	GY		HEM	2I		
153.80	154.90	1.10	GRD	MG	faulted, rubbly , hematite altered granodiorite interval. 1-3 cm calcite fragments are locally observed throughout rubbly interval							
						LT	GY	RB	HEM	3I		
154.90	158.65	3.75	GRD	MG	interval comprised of black-white, unaltered granodiorite and moderate argillic-weakly propylitic granodiorite. Trace 3-5 mm, quartz-carbonate veinlets (60 degrees TCA) are observed throughout interval. Veinlets in argillic-propyliticgranodiorite sometimes host trace disseminated pyrite. Hematite alteration is locally observed in unaltered granodiorite sections.							
									HEM	2I		
						MD	BG		PRO	2I		
						MD	BG		ARG	3I	Py	1
158.65	191.28	32.63	GRD	MG	interval comprised of black-white, unaltered granodiorite with local zones of weak to moderate, dark red, hematite alteration. 1-7 mm, quartz-carbonate veinlets (40-60 degrees TCA), sometimes hosting trace disseminated pyrite are locally observed.							
						DK	RD					
						--	WH					
						--	BK		HEM	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
191.28	201.49	10.21	GRD	MG	Interval comprised of unaltered granodiorite with intermittent zones of trace potassc-propylitic granodiorite and moderately argillic-weakly potassic granodiorite. 4mm- 3 cm, light pink, fine grained aplite dyke intrusions (80 degrees TCA) are locally observed in relatively unaltered granodiorite sections (i.e. 191.28, 193.70m). Largest aplite dyke intrusion appears to be locally crosscut by a smaller, darker pink, 1 cm aplite dyke intrusion .2-7mm, quartz carbonate veinlets (40 degrees TCA) , sometimes host trace disseminated pyrite.							
						LT	PK		ARG	3I		
						LT	GN		PRO	1I		
						MD	BG		POT	2I		
201.49	207.66	6.17	GRD	MG	interval comprised of weakly propylitic, trace potassic granodiorite with intermittent zones of strongly argillic, trae potassic-propylitic granodiorite. A gouged, brecciated seam at 204.86m is observed at contact with moderately silicified, quartz-carbonate vein breccia. 1-8mm, quartz-carbonate veinlets are locally observed thourhgout interval (40 degrees tca) sometimes locally hosting trace pyrite and black, tourmaline (?).							
						LT	GN		ARG	3I	Py	1
						MD	PK		PRO	1I	To	1
						MD	BG		POT	2I		
207.66	217.63	9.97	GRD	MG	interval comprised of trace potassic-propylitic , relatively unaltered granodiorite with intermittent zones of moderately argillic-weakly potassic altered granodiorite. 3-7 mm, quartz-carbonate veinlets (40 degrees TCA)sometimes locally host trace disseminated pyrite. Local zones of pervasive ,dark red hematite oxidation are locally observed in unaltered granodiorite sections.							
						LT	GN		ARG	3I		
						MD	BG		PRO	1I		
						MD	PK		POT	2I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
217.63	218.82	1.19	VEN	MG	strongly argillic, trace propylitic-phyllic altered granodiorite intruded by 1-4 cm, quartz-carbonate polymetallic veins locally hosting pyrite, trae sphalerite and sub-mm galena. Light pink rhodocrosite and ankerite partially infills and locally brecciates host quartz vein and altered granodiorite. A light grey, carbonate veinlet (4 cm) locally crosscuts through ankerite-quartz veinlet at 218.80m. Quartz veins are vuggy and contain euhedral calcite and quartz primatic crystals formed within vugg spaces. Sub-mm sphalerite and possibly galena are spatially associated with rhodocrosite infilled veinlets. Disseminated pyrite is also observed throughout altered granodiorite host.						Rh	4
						LT	GY		ARG	4I	Gn	1
						MD	GY		PRO	2I	Sp	1
						MD	BG				Ak	2
											Py	3
						LT	GN				Py	3
218.82	222.29	3.47	GRD	MG	interval comprised of strongly argillic, trace potassic granodiorite with intermittent zones of trace potassic-propylitic, relatively unaltered granodiorite. Dark red, hematite alteration is locally observed on surfaces throughout interval , particularly in relatively unaltered granodiorite zones. Trace 2-7 mm, quartz-carbonate veinlets (80 degrees TCA) occur on interval.							
						MD	BG		PRO	1I		
						LT	GN		HEM	1I		
						LT	PK		POT	1I		
						DK	RD		ARG	4I		
222.29	237.00	14.71	GRD	MG	interval comprised of weakly to moderately propylitic, argillic granodiorite and moderately argillic, trace potassic granodiorite. Altered units have minor unaltered granodiorite intervals within.							
237.00	259.09	22.09	GRD	MG	Unaltered granodiorite with minor alternating zones of weakly argillic to propylitic altered granodiorite, with local weak hematite alteration overprinting argillic zones. Minor carbonate +- quartz stringers and veinlets found throughout.							
						MD	WH		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		HEM	2I		
									ARG	2I		
									PRO	2I		
						MD	GN	PA	PRO	1I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.70	0.70	0	0	0.00	0	--	--	--	OVB
0.70	1.52	0.82	0.82	100	0.00	0	--	2H	6W	OVB
1.52	3.04	1.52	0.83	55	0.00	0	--	3H	4W	Highly fractured
3.04	4.57	1.53	1.04	68	0.00	0	--	3H	4W	Highly fractured
4.57	6.10	1.53	1.53	100	0.90	59	--	3H	3W	Top 40 cm highly fractured
6.10	7.62	1.52	1.3	86	0.92	61	--	3H	3W	
7.62	9.14	1.52	1.38	91	1.15	76	--	3H	2W	
9.14	10.67	1.53	1.53	100	1.42	93	--	3H	2W	
10.67	12.19	1.52	1.47	97	1.38	91	--	3H	2W	
12.19	13.72	1.53	1.52	99	1.52	99	--	3H	1W	
13.72	15.24	1.52	1.45	95	1.29	85	--	3H	2W	
15.24	16.76	1.52	1.52	100	1.48	97	--	3H	1W	
16.76	18.29	1.53	1.5	98	1.40	92	--	3H	1W	
18.29	19.81	1.52	1.48	97	1.32	87	--	3H	2W	
19.81	21.34	1.53	1.53	100	1.18	77	--	3H	3W	
21.34	22.86	1.52	1.52	100	1.15	76	--	3H	2W	
22.86	24.38	1.52	1.52	100	1.25	82	--	3H	1W	
24.38	27.43	3.05	3.04	100	2.60	85	--	3H	1W	
27.43	30.48	3.05	3.05	100	2.31	76	--	3H	1W	
30.48	33.53	3.05	3.05	100	2.75	90	--	3H	2W	
33.53	36.58	3.05	3.05	100	2.18	71	--	3H	2W	
36.58	39.62	3.04	3.04	100	2.06	68	--	3H	2W	
39.62	42.67	3.05	2.97	97	2.69	88	--	3H	2W	
42.67	45.72	3.05	2.97	97	2.56	84	--	3H	2W	
45.72	48.77	3.05	3.05	100	2.59	85	--	3H	2W	
48.77	51.82	3.05	3.05	100	2.84	93	--	3H	2W	
51.82	54.86	3.04	3.04	100	2.43	80	--	4H	2W	
54.86	57.91	3.05	3.05	100	2.70	89	--	4H	1W	
57.91	60.96	3.05	2.82	92	2.14	70	--	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
60.96	64.01	3.05	2.95	97	1.85	61	--	4H	2W	
64.01	65.94	1.93	1.93	100	0.65	34	--	4H	2W	
65.94	68.58	2.64	2.61	99	1.91	72	--	4H	1W	
68.58	71.63	3.05	3.05	100	2.50	82	--	3H	1W	
71.63	74.68	3.05	3.05	100	2.65	87	--	3H	1W	
74.68	77.11	2.43	2.43	100	2.05	84	--	4H	1W	
77.11	79.25	2.14	2.01	94	1.88	88	--	4H	1W	
79.25	82.30	3.05	3.01	99	2.88	94	--	3H	1W	
82.30	85.34	3.04	3	99	2.35	77	--	3H	1W	
85.34	88.39	3.05	2.97	97	2.69	88	--	4H	1W	
88.39	91.44	3.05	3.05	100	2.85	93	--	4H	1W	
91.44	94.49	3.05	2.83	93	2.30	75	--	3H	1W	
94.49	97.54	3.05	2.9	95	2.33	76	--	4H	1W	
97.54	100.28	2.74	2.74	100	2.07	76	--	4H	1W	
100.28	103.43	3.15	3.05	97	2.03	64	--	4H	1W	
103.43	104.24	0.81	0.78	96	0.48	59	--	4H	1W	
104.24	106.68	2.44	2.4	98	1.96	80	--	4H	1W	
106.68	109.27	2.59	2.56	99	1.54	59	--	4H	1W	
109.27	111.25	1.98	1.93	97	1.58	80	--	4H	1W	
111.25	112.78	1.53	1.4	92	0.74	48	--	3H	1W	
112.78	115.82	3.04	2.83	93	1.19	39	--	3H	1W	
115.82	118.87	3.05	2.79	91	2.05	67	--	3H	1W	
118.87	121.92	3.05	3.03	99	2.90	95	--	3H	1W	
121.92	124.97	3.05	2.93	96	2.27	74	--	3H	1W	
124.97	128.02	3.05	2.8	92	2.05	67	--	3H	2W	
128.02	131.06	3.04	3	99	2.02	66	--	3H	1W	
131.06	134.11	3.05	3.05	100	2.89	95	--	3H	1W	
134.11	137.16	3.05	2.9	95	2.68	88	--	4H	1W	
137.16	140.21	3.05	3.05	100	2.67	88	--	3H	1W	
140.21	143.26	3.05	2.85	93	1.89	62	--	3H	1W	
143.26	146.30	3.04	2.91	96	1.84	61	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
146.30	149.35	3.05	2.88	94	1.48	49	--	4H	1W	
149.35	152.40	3.05	2.35	77	0.87	29	--	4H	1W	
152.40	153.92	1.52	1.52	100	0.71	47	--	4H	1W	
153.92	156.97	3.05	2.61	86	1.01	33	--	4H	1W	
156.97	158.50	1.53	1.53	100	1.09	71	--	3H	1W	
158.50	161.54	3.04	3.04	100	2.23	73	--	4H	1W	
161.54	164.59	3.05	2.9	95	2.50	82	--	4H	1W	
164.59	167.64	3.05	2.92	96	1.45	48	--	4H	1W	
167.64	170.69	3.05	2.97	97	2.87	94	--	4H	1W	
170.69	173.74	3.05	3.04	100	2.12	70	--	4H	1W	
173.74	176.78	3.04	2.99	98	2.36	78	--	4H	1W	
176.78	179.83	3.05	3.01	99	2.71	89	--	4H	1W	
179.83	182.88	3.05	2.87	94	2.44	80	--	4H	1W	
182.88	185.93	3.05	3.03	99	2.71	89	--	4H	1W	
185.93	188.98	3.05	3	98	2.49	82	--	4H	1W	
188.98	192.02	3.04	3.04	100	2.81	92	--	4H	1W	
192.02	195.07	3.05	2.98	98	2.65	87	--	3H	1W	
195.07	198.12	3.05	3.05	100	2.74	90	--	4H	1W	
198.12	201.17	3.05	3.05	100	2.89	95	--	4H	1W	
201.17	204.22	3.05	3.05	100	2.31	76	--	3H	1W	
204.22	207.26	3.04	2.99	98	2.03	67	--	3H	1W	
207.26	210.31	3.05	3.05	100	2.59	85	--	4H	1W	
210.31	213.36	3.05	3.03	99	2.72	89	--	3H	1W	
213.36	216.41	3.05	3.05	100	2.77	91	--	4H	1W	
216.41	219.46	3.05	3.05	100	2.82	92	--	3H	1W	
219.46	222.50	3.04	2.98	98	2.50	82	--	3H	1W	
222.50	225.55	3.05	3.05	100	2.66	87	--	3H	1W	
225.55	228.60	3.05	3.05	100	3.05	100	--	3H	1W	
228.60	231.65	3.05	3.05	100	2.71	89	--	3H	1W	
231.65	234.70	3.05	3.05	100	2.55	84	--	3H	1W	
234.70	237.74	3.04	2.91	96	2.20	72	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
237.74	240.79	3.05	3.03	99	2.29	75	--	4H	1W	
240.79	243.84	3.05	3.02	99	2.77	91	--	4H	1W	
243.84	246.89	3.05	3.03	99	2.71	89	--	4H	1W	
246.89	249.94	3.05	2.95	97	2.47	81	--	4H	1W	
249.94	252.98	3.04	2.88	95	2.38	78	--	3H	1W	
252.98	256.03	3.05	2.83	93	1.88	62	--	4H	1W	
256.03	259.09	3.06	2.97	97	2.82	92	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
0	0	CAS	OVB
1	0	OVB	OVB
2	0	OVB	Highly fractured
3	0	QFP	Highly fractured
4	0	QFP	Highly fractured
5	0.231	QFP	
6	0.301	QFP	
7	0.204	QFP	
8	0.206	QFP	
9	0.275	QFP	
10	0.18	QFP	
11	0.268	QFP	
12	0.186	QFP	
13	0.303	QFP	
14	0.202	QFP	
15	0.292	QFP	
16	0.271	QFP	
17	0.257	QFP	
18	0.22	QFP	
19	0.223	QFP	
20	0.207	QFP	
21	0.265	QFP	
22	0.256	QFP	
23	0.177	QFP	
24	0.25	QFP	
25	0.235	QFP	
26	0.104	QFP	
27	0.118	QFP	
28	0.469	QFP	
29	0.125	QFP	
30	0.149	QFP	
31	0.154	QFP	
32	0.106	QFP	
33	0.14	QFP	
34	0.169	QFP	
35	0.453	QFP	
36	0.575	GRD	
37	0.671	GRD	
38	1.448	GRD	
39	0.703	GRD	
40	1.938	GRD	
41	0.446	GRD	
42	0.331	GRD	
43	0.187	GRD	
44	0.485	GRD	
45	1.895	GRD	
46	6.36	GRD	
47	0.642	GRD	
48	0.58	GRD	
49	3.863	GRD	
50	18.34	GRD	
51	10.97	GRD	
52	10.74	GRD	
53	14.69	GRD	
54	9.964	GRD	
55	0.745	GRD	
56	18.69	GRD	
57	18.54	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	1.031	GRD	
59	2.13	GRD	
60	16.15	GRD	
61	16.65	GRD	
62	14.78	GRD	
63	16.95	GRD	
64	13.97	GRD	
65	11.52	GRD	
66	1.019	GRD	
67	18.54	GRD	
68	10.22	GRD	
69	0.44	GRD	
70	13.12	GRD	
71	12.63	GRD	
72	9.918	GRD	
73	10.78	GRD	
74	13.7	GRD	
75	6.388	GRD	
76	4.871	GRD	
77	13.76	GRD	
78	13.65	GRD	
79	13.83	GRD	
80	8.157	GRD	
81	0.49	GRD	
82	0.534	GRD	
83	0.677	GRD	
84	4.048	GRD	
85	12.92	GRD	
86	18.58	GRD	
87	16.3	GRD	
88	4.482	GRD	
89	17.56	GRD	
90	11.02	GRD	
91	12.15	GRD	
92	1.64	GRD	
93	0.322	GRD	
94	9.81	GRD	
95	12.24	GRD	
96	12.05	GRD	
97	16.59	GRD	
98	11.45	GRD	
99	14.89	GRD	
100	17.33	GRD	
101	14.05	GRD	
102	11.69	GRD	
103	9.922	GRD	
104	11.87	GRD	
105	7.854	GRD	
106	11.68	GRD	
107	9.376	GRD	
108	19.1	GRD	
109	18.05	GRD	
110	2.267	GRD	
111	1.288	GRD	
112	0.326	GRD	
113	0.435	POR	
114	3.879	GRD	
115	0.613	GRD	
116	0.286	GRD	
117	0.54	GRD	
118	0.31	GRD	
119	0.39	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	0.37	GRD	
121	0.354	GRD	
122	0.576	GRD	
123	1.249	GRD	
124	0.456	GRD	
125	0.281	GRD	
126	0.305	GRD	
127	3.266	GRD	
128	0.437	GRD	
129	1.721	GRD	
130	0.572	GRD	
131	0.318	GRD	
132	0.439	GRD	
133	9.137	GRD	
134	14.02	GRD	
135	7.235	GRD	
136	0.658	GRD	
137	0.541	GRD	
138	0.279	GRD	
139	0.224	GRD	
140	0.692	GRD	
141	0.296	GRD	
142	12.19	GRD	
143	16.73	GRD	
144	9.806	GRD	
145	15.09	GRD	
146	5.674	GRD	
147	2.661	GRD	
148	0.734	GRD	
149	4.509	GRD	
150	13.55	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
151	10.96	GRD	
152	14.57	GRD	
153	10.28	GRD	
154	0	GRD	Highly fractured
155	15.26	GRD	
156	0.519	GRD	
157	0.32	GRD	
158	0.296	GRD	
159	13.24	GRD	
160	19.48	GRD	
161	17.87	GRD	
162	13.78	GRD	
163	13.38	GRD	
164	13.56	GRD	
165	11.87	GRD	
166	17.61	GRD	
167	13.11	GRD	
168	17.55	GRD	
169	11.59	GRD	
170	13.25	GRD	
171	11.52	GRD	
172	12.77	GRD	
173	19.18	GRD	
174	19.82	GRD	
175	12.91	GRD	
176	19.75	GRD	
177	19.96	GRD	
178	13.29	GRD	
179	3.406	GRD	
180	17.96	GRD	
181	12.78	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
182	11.07	GRD	
183	10.66	GRD	
184	18.55	GRD	
185	9.594	GRD	
186	18.13	GRD	
187	10.79	GRD	
188	13.58	GRD	
189	12.31	GRD	
190	9.884	GRD	
191	9.453	GRD	
192	1.512	GRD	
193	0.777	GRD	
194	16.04	GRD	
195	1.188	GRD	
196	11.21	GRD	
197	19.52	GRD	
198	16.37	GRD	
199	10.87	GRD	
200	14.69	GRD	
201	8.227	GRD	
202	0.851	GRD	
203	4.182	GRD	
204	0.356	GRD	
205	0.124	GRD	
206	0.59	GRD	
207	0.865	GRD	
208	0.818	GRD	
209	0.49	GRD	
210	0.718	GRD	
211	15.45	GRD	
212	12.65	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
213	17.26	GRD	
214	10.07	GRD	
215	15.33	GRD	
216	12.89	GRD	
217	1.6	GRD	
218	0.212	VEN	
219	0.366	GRD	
220	5.683	GRD	
221	0.539	GRD	
222	0.543	GRD	
223	0.79	GRD	
224	0.139	GRD	
225	0.311	GRD	
226	0.905	GRD	
227	0.979	GRD	
228	0.362	GRD	
229	0.412	GRD	
230	0.489	GRD	
231	0.212	GRD	
232	0.254	GRD	
233	0.965	GRD	
234	7.961	GRD	
235	17.79	GRD	
236	3.201	GRD	
237	8.523	GRD	
237	8.523	GRD	
238	18.21	GRD	
239	9.824	GRD	
240	15.23	GRD	
241	14.52	GRD	
242	1.274	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
243	12.28	GRD	
244	15.93	GRD	
245	16.58	GRD	
246	15.33	GRD	
247	12.31	GRD	
248	14.49	GRD	
249	10.6	GRD	
250	0.42	GRD	
251	0.325	GRD	
252	10.47	GRD	
253	16.94	GRD	
254	19.08	GRD	
255	0.761	GRD	
256	0.526	GRD	
257	7.333	GRD	
258	12.43	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-462

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W593048	☐	19-092	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593117	☐	19-097	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593125	☐	19-097	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593138	☐	19-097	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594271	☐	19-100	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594280	☐	19-100	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594289	☐	19-100	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W593042	☐	19-092	low grade		☑	☐	☐
34.08	35.08	1.00	QFP	0.99	99	W593035	☐	19-092	low grade		☐	☐	☐
35.08	35.83	0.75	QFP	0.74	99	W593036	☐	19-092	low grade		☐	☐	☐
35.83	37.17	1.34	GRD	1.33	99	W593037	☐	19-092	low grade		☐	☐	☐
37.17	39.62	2.45	GRD	2.45	100	W593038	☐	19-092	low grade		☐	☐	☐
39.62	41.65	2.03	GRD	1.93	95	W593039	☐	19-092	low grade		☐	☐	☐
41.65	42.20	0.55	GRD	0.55	100	W593040	☐	19-092	low grade		☐	☐	☐
42.20	43.15	0.95	GRD	0.91	96	W593041	☐	19-092	low grade		☐	☐	☐
43.15	44.12	0.97	GRD	0.92	95	W593043	☐	19-092	low grade		☐	☐	☐
44.12	45.00	0.88	GRD	0.74	84	W593044	☐	19-092	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
45.00	47.59	2.59	GRD	2.59	100	W593045	☐	19-092	low grade		☐	☐	☐
47.59	48.77	1.18	GRD	1.15	97	W593046	☐	19-092	low grade		☐	☐	☐
48.77	50.26	1.49	GRD	1.48	99	W593047	☐	19-092	low grade		☐	☐	☐
58.00	58.38	0.38	GRD	0.38	100	W593049	☐	19-092	low grade		☐	☐	☐
58.38	59.80	1.42	GRD	1.34	94	W593050	☐	19-092	low grade		☐	☐	☐
66.07	66.77	0.70	GRD	0.66	94	W593101	☐	19-092	low grade		☐	☐	☐
66.77	68.80	2.03	GRD	1.99	98	W593102	☐	19-092	low grade		☐	☐	☐
68.80	69.80	1.00	GRD	1.00	100	W593103	☐	19-092	low grade		☐	☐	☐
68.80	69.80	1.00	GRD	1.00	100	W593104	☐	19-092	low grade		☐	☑	☐
69.80	70.94	1.14	GRD	1.09	96	W593105	☐	19-092	low grade		☐	☐	☐
70.94	71.37	0.43	GRD	0.42	98	W593106	☐	19-092	low grade		☐	☐	☐
71.37	72.71	1.34	GRD	1.30	97	W593107	☐	19-092	low grade		☐	☐	☐
80.76	82.50	1.74	GRD	1.73	99	W593108	☐	19-092	low grade		☐	☐	☐
82.50	83.03	0.53	GRD	0.52	98	W593109	☐	19-092	low grade		☐	☐	☐
83.03	84.08	1.05	GRD	1.05	100	W593110	☐	19-092	low grade		☐	☐	☐
84.08	85.08	1.00	GRD	1.00	100	W593111	☐	19-092	low grade		☐	☐	☐
109.88	111.25	1.37	GRD	1.33	97	W593112	☐	19-092	low grade		☐	☐	☐
111.25	112.10	0.85	GRD	0.83	98	W593113	☐	19-092	low grade		☐	☐	☐
112.10	113.55	1.45	GRD	1.35	93	W593114	☐	19-097	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
113.55	114.32	0.77	POR	0.73	95	W593115	☐	19-097	low grade		☐	☐	☐
114.32	115.82	1.50	GRD	1.49	99	W593116	☐	19-097	low grade		☐	☐	☐
115.82	117.91	2.09	GRD	2.01	96	W593118	☐	19-097	low grade		☐	☐	☐
117.91	119.86	1.95	GRD	1.91	98	W593119	☐	19-097	low grade		☐	☐	☐
119.86	121.92	2.06	GRD	2.04	99	W593120	☐	19-097	low grade		☐	☐	☐
121.92	124.00	2.08	GRD	2.08	100	W593121	☐	19-097	low grade		☐	☐	☐
124.00	124.97	0.97	GRD	0.95	98	W593122	☐	19-097	low grade		☐	☐	☐
124.97	126.00	1.03	GRD	0.92	89	W593123	☐	19-097	low grade		☐	☐	☐
126.00	126.86	0.86	GRD	0.84	98	W593124	☐	19-097	low grade		☐	☐	☐
126.86	128.00	1.14	GRD	1.10	96	W593126	☐	19-097	low grade		☐	☐	☐
128.00	130.10	2.10	GRD	2.05	98	W593127	☐	19-097	low grade		☐	☐	☐
130.10	131.06	0.96	GRD	0.93	97	W593128	☐	19-097	low grade		☐	☐	☐
131.06	132.88	1.82	GRD	1.78	98	W593129	☐	19-097	low grade		☐	☐	☐
137.00	139.05	2.05	GRD	2.02	99	W593130	☐	19-097	low grade		☐	☐	☐
139.05	139.52	0.47	GRD	0.46	98	W593131	☐	19-097	low grade		☐	☐	☐
139.52	141.71	2.19	GRD	2.09	95	W593132	☐	19-097	low grade		☐	☐	☐
139.52	141.71	2.19	GRD	2.09	95	W593133	☐	19-097	low grade		☐	☐	☑
152.40	153.69	1.29	GRD	1.28	99	W593134	☐	19-097	low grade		☐	☐	☐
153.69	154.98	1.29	GRD	1.28	99	W593135	☐	19-097	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
154.98	156.25	1.27	GRD	1.25	98	W593136	☐	19-097	low grade		☐	☐	☐
156.25	157.41	1.16	GRD	1.02	88	W593137	☐	19-097	low grade		☐	☐	☐
157.41	158.65	1.24	GRD	1.23	99	W593139	☐	19-097	low grade		☐	☐	☐
158.65	160.00	1.35	GRD, GRD	1.34	99	W593140	☐	19-097	low grade		☐	☐	☐
183.00	184.75	1.75	GRD	1.75	100	W593141	☐	19-097	low grade		☐	☐	☐
184.75	185.93	1.18	GRD	1.18	100	W593142	☐	19-097	low grade		☐	☐	☐
185.93	187.55	1.62	GRD	1.62	100	W593143	☐	19-097	low grade		☐	☐	☐
187.55	188.82	1.27	GRD	1.26	99	W593144	☐	19-097	low grade		☐	☐	☐
188.82	189.43	0.61	GRD	0.57	93	W593145	☐	19-097	low grade		☐	☐	☐
188.82	189.43	0.61	GRD	0.57	93	W593146	☐	19-097	low grade		☐	☑	☐
189.43	191.05	1.62	GRD	1.61	99	W593147	☐	19-097	low grade		☐	☐	☐
191.05	191.59	0.54	GRD	0.54	100	W593148	☐	19-097	low grade		☐	☐	☐
191.59	193.51	1.92	GRD	1.92	100	W593149	☐	19-097	low grade		☐	☐	☐
193.51	194.28	0.77	GRD	0.76	99	W593150	☐	19-097	low grade		☐	☐	☐
194.28	194.66	0.38	GRD	0.35	92	W594251	☐	19-097	low grade		☐	☐	☐
194.66	195.63	0.97	GRD	0.97	100	W594252	☐	19-097	low grade		☐	☐	☐
199.19	199.75	0.56	GRD	0.54	96	W594253	☐	19-097	low grade		☐	☐	☐
199.75	201.47	1.72	GRD	1.70	99	W594254	☐	19-100	low grade		☐	☐	☐
201.47	204.00	2.53	GRD	2.53	100	W594255	☐	19-100	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
204.00	204.85	0.85	GRD	0.70	82	W594256	☐	19-100	low grade		☐	☐	☐
204.85	205.31	0.46	GRD	0.45	98	W594257	☐	19-100	low grade		☐	☐	☐
205.31	206.31	1.00	GRD	0.99	99	W594258	☐	19-100	low grade		☐	☐	☐
205.31	206.31	1.00	GRD	0.99	99	W594259	☐	19-100	low grade		☐	☐	☑
206.31	207.66	1.35	GRD	1.34	99	W594260	☐	19-100	low grade		☐	☐	☐
207.66	209.25	1.59	GRD, GRD	1.50	94	W594261	☐	19-100	low grade		☐	☐	☐
209.25	210.87	1.62	GRD	1.62	100	W594262	☐	19-100	low grade		☐	☐	☐
210.87	212.00	1.13	GRD	1.13	100	W594263	☐	19-100	low grade		☐	☐	☐
216.70	217.58	0.88	GRD	0.87	99	W594264	☐	19-100	low grade		☐	☐	☐
217.58	218.28	0.70	GRD	0.68	97	W599249	☐	19-085	high grade		☐	☐	☐
218.28	218.82	0.54	VEN	0.54	100	W594265	☐	19-100	low grade		☐	☐	☐
218.28	218.82	0.54	VEN	0.54	100	W594266	☐	19-100	low grade		☐	☑	☐
218.82	220.20	1.38	GRD, VEN	1.38	100	W594267	☐	19-100	low grade		☐	☐	☐
220.20	220.84	0.64	GRD	0.63	98	W594268	☐	19-100	low grade		☐	☐	☐
220.84	222.29	1.45	GRD	1.37	94	W594269	☐	19-100	low grade		☐	☐	☐
222.29	222.96	0.67	GRD, GRD	0.58	87	W594270	☐	19-100	low grade		☐	☐	☐
222.96	223.89	0.93	GRD	0.93	100	W594272	☐	19-100	low grade		☐	☐	☐
223.89	225.07	1.18	GRD	1.18	100	W594273	☐	19-100	low grade		☐	☐	☐
225.07	225.85	0.78	GRD	0.76	97	W594274	☐	19-100	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
225.85	228.60	2.75	GRD	2.75	100	W594275	☐	19-100	low grade		☐	☐	☐
228.60	229.50	0.90	GRD	0.90	100	W594276	☐	19-100	low grade		☐	☐	☐
229.50	230.75	1.25	GRD	1.25	100	W594277	☐	19-100	low grade		☐	☐	☐
230.75	232.43	1.68	GRD	1.57	93	W594278	☐	19-100	low grade		☐	☐	☐
232.43	233.26	0.83	GRD	0.80	96	W594279	☐	19-100	low grade		☐	☐	☐
233.26	234.70	1.44	GRD	1.44	100	W594281	☐	19-100	low grade		☐	☐	☐
234.70	236.03	1.33	GRD	1.33	100	W594282	☐	19-100	low grade		☐	☐	☐
236.03	236.84	0.81	GRD	0.80	99	W594283	☐	19-100	low grade		☐	☐	☐
240.51	241.45	0.94	GRD	0.94	100	W594284	☐	19-100	low grade		☐	☐	☐
241.45	243.12	1.67	GRD	1.67	100	W594285	☐	19-100	low grade		☐	☐	☐
243.12	244.30	1.18	GRD	1.18	100	W594286	☐	19-100	low grade		☐	☐	☐
248.66	249.70	1.04	GRD	1.04	100	W594287	☐	19-100	low grade		☐	☐	☐
249.70	250.90	1.20	GRD	1.20	100	W594288	☐	19-100	low grade		☐	☐	☐
250.90	252.00	1.10	GRD	1.10	100	W594290	☐	19-100	low grade		☐	☐	☐
252.00	252.98	0.98	GRD	0.98	100	W594291	☐	19-100	low grade		☐	☐	☐
252.98	254.87	1.89	GRD	1.89	100	W594292	☐	19-100	low grade		☐	☐	☐
254.87	256.48	1.61	GRD	1.11	69	W594293	☐	19-100	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	34.08			☐	☐	☐	☐	
19-100	W594271	0.00	0.00	1.73	1010	☐	☐	☐	☑ KL-STD6	std kl6
19-100	W594280	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-100	W594289	0.00	0.00	1.45	120	☐	☐	☐	☑ ME-16	
19-097	W593117	0.00	0.00	1.62	470	☐	☐	☐	☑ ME-16	STD ME 6
19-097	W593125	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-097	W593138	0.00	0.00	1.69	730	☐	☐	☐	☑ KL-STD6	STD KL 6
19-092	W593042	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-092	W593048	0.00	0.00	1.70	40	☐	☐	☐	☑ KL-STD6	STD KL6
19-092	W593035	34.08	35.08	0.00	2670	☐	☐	☐	☐	
19-092	W593036	35.08	35.83	0.00	3230	☐	☐	☐	☐	
19-092	W593037	35.83	37.17	0.00	1700	☐	☐	☐	☐	
19-092	W593038	37.17	39.62	0.00	2340	☐	☐	☐	☐	
19-092	W593039	39.62	41.65	0.00	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-092	W593040	41.65	42.20	0.00	2030	☐	☐	☐	☐	
19-092	W593041	42.20	43.15	0.00	1240	☐	☐	☐	☐	
19-092	W593043	43.15	44.12	0.00	940	☐	☐	☐	☐	
19-092	W593044	44.12	45.00	0.00	2200	☐	☐	☐	☐	
19-092	W593045	45.00	47.59	0.00	2220	☐	☐	☐	☐	
19-092	W593046	47.59	48.77	0.00	2380	☐	☐	☐	☐	
19-092	W593047	48.77	50.26	0.00	2240	☐	☐	☐	☐	
		50.26	58.00			☐	☐	☐	☐	
19-092	W593049	58.00	58.38	0.01	2150	☐	☐	☐	☐	
19-092	W593050	58.38	59.80	0.00	2110	☐	☐	☐	☐	
		59.80	66.07			☐	☐	☐	☐	
19-092	W593101	66.07	66.77	0.00	2090	☐	☐	☐	☐	
19-092	W593102	66.77	68.80	0.00	2430	☐	☐	☐	☐	
19-092	W593103	68.80	69.80	0.00	2200	☐	☐	☐	☐	
19-092	W593104	68.80	69.80	0.00	2100	☑	☐	☐	☐	1/4 dup
19-092	W593105	69.80	70.94	0.00	2030	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-092	W593106	70.94	71.37	0.00	1710	☐	☐	☐	☐	
19-092	W593107	71.37	72.71	0.00	2260	☐	☐	☐	☐	
		72.71	80.76			☐	☐	☐	☐	
19-092	W593108	80.76	82.50	0.00	2050	☐	☐	☐	☐	
19-092	W593109	82.50	83.03	0.15	740	☐	☐	☐	☐	
19-092	W593110	83.03	84.08	0.01	4250	☐	☐	☐	☐	
19-092	W593111	84.08	85.08	0.00	2350	☐	☐	☐	☐	
		85.08	######			☐	☐	☐	☐	
19-092	W593112	109.88	111.25	0.00	2510	☐	☐	☐	☐	
19-092	W593113	111.25	112.10	0.01	2420	☐	☐	☐	☐	
19-097	W593114	112.10	113.55	0.00	2020	☐	☐	☐	☐	
19-097	W593115	113.55	114.32	0.04	2940	☐	☐	☐	☐	
19-097	W593116	114.32	115.82	0.00	2290	☐	☐	☐	☐	
19-097	W593118	115.82	117.91	0.00	2540	☐	☐	☐	☐	
19-097	W593119	117.91	119.86	0.03	2250	☐	☐	☐	☐	
19-097	W593120	119.86	121.92	0.00	4000	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-097	W593121	121.92	124.00	0.00	2230	☐	☐	☐	☐	
19-097	W593122	124.00	124.97	0.00	2350	☐	☐	☐	☐	
19-097	W593123	124.97	126.00	0.02	1840	☐	☐	☐	☐	
19-097	W593124	126.00	126.86	0.00	1820	☐	☐	☐	☐	
19-097	W593126	126.86	128.00	0.00	2210	☐	☐	☐	☐	
19-097	W593127	128.00	130.10	0.00	2410	☐	☐	☐	☐	
19-097	W593128	130.10	131.06	0.00	2140	☐	☐	☐	☐	
19-097	W593129	131.06	132.88	0.00	1660	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-097	W593130	137.00	139.05	0.00	2150	☐	☐	☐	☐	
19-097	W593131	139.05	139.52	0.01	790	☐	☐	☐	☐	
19-097	W593132	139.52	141.71	0.00	2010	☐	☐	☐	☐	
19-097	W593133	139.52	141.71	0.00	2030	☐	☑	☐	☐	coarse dup
		######	######			☐	☐	☐	☐	
19-097	W593134	152.40	153.69	0.00	2170	☐	☐	☐	☐	
19-097	W593135	153.69	154.98	0.00	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-097	W593136	154.98	156.25	0.00	2270	☐	☐	☐	☐	
19-097	W593137	156.25	157.41	0.00	2180	☐	☐	☐	☐	
19-097	W593139	157.41	158.65	0.00	2520	☐	☐	☐	☐	
19-097	W593140	158.65	160.00	0.00	2530	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-097	W593141	183.00	184.75	0.00	2400	☐	☐	☐	☐	
19-097	W593142	184.75	185.93	0.01	2320	☐	☐	☐	☐	
19-097	W593143	185.93	187.55	0.00	2330	☐	☐	☐	☐	
19-097	W593144	187.55	188.82	0.00	2340	☐	☐	☐	☐	
19-097	W593145	188.82	189.43	0.01	2480	☐	☐	☐	☐	
19-097	W593146	188.82	189.43	0.00	2560	☑	☐	☐	☐	1/4 dup
19-097	W593147	189.43	191.05	0.00	2400	☐	☐	☐	☐	
19-097	W593148	191.05	191.59	0.00	2350	☐	☐	☐	☐	
19-097	W593149	191.59	193.51	0.00	2750	☐	☐	☐	☐	
19-097	W593150	193.51	194.28	0.00	2120	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-097	W594251	194.28	194.66	0.00	1900	☐	☐	☐	☐	
19-097	W594252	194.66	195.63	0.00	2240	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-097	W594253	199.19	199.75	0.00	2250	☐	☐	☐	☐	
19-100	W594254	199.75	201.47	0.00	2380	☐	☐	☐	☐	
19-100	W594255	201.47	204.00	0.00	2350	☐	☐	☐	☐	
19-100	W594256	204.00	204.85	0.03	2090	☐	☐	☐	☐	
19-100	W594257	204.85	205.31	0.01	1360	☐	☐	☐	☐	
19-100	W594258	205.31	206.31	0.01	1750	☐	☐	☐	☐	
19-100	W594259	205.31	206.31	0.03	1740	☐	☑	☐	☐	ccoarse dup
19-100	W594260	206.31	207.66	0.01	2210	☐	☐	☐	☐	
19-100	W594261	207.66	209.25	0.00	2310	☐	☐	☐	☐	
19-100	W594262	209.25	210.87	0.00	2330	☐	☐	☐	☐	
19-100	W594263	210.87	212.00	0.00	2240	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-100	W594264	216.70	217.58	0.00	2250	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-085	W599249	217.58	218.28	0.14	200	☐	☐	☐	☐	
19-100	W594265	218.28	218.82	0.02	1030	☐	☐	☐	☐	
19-100	W594266	218.28	218.82	0.02	990	☑	☐	☐	☐	1/4 dup
19-100	W594267	218.82	220.20	0.00	1970	☐	☐	☐	☐	
19-100	W594268	220.20	220.84	0.00	2530	☐	☐	☐	☐	
19-100	W594269	220.84	222.29	0.00	2410	☐	☐	☐	☐	
19-100	W594270	222.29	222.96	0.01	2240	☐	☐	☐	☐	
19-100	W594272	222.96	223.89	0.01	3250	☐	☐	☐	☐	
19-100	W594273	223.89	225.07	0.01	2840	☐	☐	☐	☐	
19-100	W594274	225.07	225.85	0.00	5240	☐	☐	☐	☐	
19-100	W594275	225.85	228.60	0.01	2760	☐	☐	☐	☐	
19-100	W594276	228.60	229.50	0.01	2310	☐	☐	☐	☐	
19-100	W594277	229.50	230.75	0.01	2540	☐	☐	☐	☐	
19-100	W594278	230.75	232.43	0.03	1660	☐	☐	☐	☐	
19-100	W594279	232.43	233.26	1.49	260	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-100	W594281	233.26	234.70	0.00	2380	☐	☐	☐	☐	
19-100	W594282	234.70	236.03	0.00	2740	☐	☐	☐	☐	
19-100	W594283	236.03	236.84	0.00	2890	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-100	W594284	240.51	241.45	0.00	2390	☐	☐	☐	☐	
19-100	W594285	241.45	243.12	0.00	2130	☐	☐	☐	☐	
19-100	W594286	243.12	244.30	0.00	2480	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-100	W594287	248.66	249.70	0.00	2470	☐	☐	☐	☐	
19-100	W594288	249.70	250.90	0.00	2110	☐	☐	☐	☐	
19-100	W594290	250.90	252.00	0.00	1880	☐	☐	☐	☐	
19-100	W594291	252.00	252.98	0.00	2560	☐	☐	☐	☐	
19-100	W594292	252.98	254.87	0.00	2380	☐	☐	☐	☐	
19-100	W594293	254.87	256.48	0.00	1810	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
14.50	14.55	VN	37	40	NUL	1	5 mm, carbonate vienlet in quartz feldspar porphyry dyke interval			
19.81	20.00	GO	34	65	NUL	1	gouged brecciated seam in clay altered quartz feldspar porphyry dyke interval			
21.00	21.20	VN	37	40	NUL	1	5 mm, quart-carbonate veinlet in clay altered quartz feldspar porphyry dyke interval			
21.55	21.65	GO	34	60	NUL	1	gouged brecciate seam in quartz feldspar porphyry dyke interval			
29.40	49.50	GO	34	-	NUL	1	gouged brecciated seam in quartz feldspar porphyry dyke interval			
35.08	35.83	GO	34	40	NUL	1	gouged brecciated section at contact between quartz feldspar porphyry dyke an granodiorite.			
36.08	36.12	VN	37	40	NUL	1	5 mm, quartz-carbonate veinlet surrounded by 1 mm limonite bans in argillic, clay altered granodiorite			
37.00	37.12	VN	37	40	NUL	1	2 cm, quartz-carbonate veinlet locally brecciating host clay altered, argillic granodiorite			
39.70	39.85	VN	37	80	NUL	4	3-4 mm, quartz-carbonate veinlets in argillic-propylitic altered granodiorite. Trace pyrite an magnetite is observed around veinlets.			
40.30	40.40	VN	37	40	NUL	1	5 mm, clay altered, oxidized quartz-carbonate veinlet in clay altered, weakly argillic-propylitic granodiorite			
42.20	42.25	VN	37	60	NUL	1	1 cm , quartz- carbonate veinlet in clay altered, hematite altered granodiorite locally hosting trace pyrite			
42.67	42.73	VN	37	60	NUL	1	2 cm, quartz-carbonate, vuggy vein in clay altered, argillic granodiorite, locally hosting trace pyrite. Vuggs contain euhedral,calcite crystals			
43.40	43.85	VN	37	60	NUL	3	4mm-2 cm, quartz-carbonate veinlets in clay altered, strongly argillic, propylitic granodiorite locally hosting trace pyrite and possily sub-mm sphalerite			
45.53	45.63	VN	37	30	NUL	2	1-3 mm, oxidized, quartz-carbonate veinlets locally hosting hematite and trace pyrite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
46.20	46.60	VN	37	40	NUL	2	2-4 mm, clay altered, quartz-carboante veinlets in unaltered granodiorite			
47.59	48.37	VN	37	40	NUL	3	3-5 mm, quartz-carbonate veinlets locally hosting trace pyrite in clay altered, weakly potassic granodiorite			
48.14	48.20	VN	37	35	NUL	1	2 cm, quartz-carbonate veinlet in clay altered, potassic granodiorite containining trace , reddish hematite within veinlet			
54.94	55.00	VN	37	40	NUL	1	6 mm, quartz-carbonate veinlet in unaltered granodiorite loaclly hosting trace pyrite. 2 cm, propylitic alteration halo is observed near veinlet			
55.66	56.35	VN	37	40	NUL	2	5-8 mm, brassy yellow carbonate infilled veinlet in pervasively hematite altered granodiorite			
58.00	58.35	GO	34	30	NUL	1	red, hematite altered, gouged brecciated seam intrace potassic granodiorite locally hosting trace disseminated pyrite			
58.80	59.00	VN	37	60	NUL	3	1-4 mm, quartz-carbonate veinlets locally hosting sub-mm pyrite and possibly sphalerite.			
66.40	66.43	GO	34	30	NUL	1	2 cm, dark red, hematite altered, gouged, brecciated seam locally hosting disseminated pyrite. Granodiorite section near contains dark, mafic inclusions and locally hosts possible trace chalcopyrite (brassy yellow, soft) in 1-2 mm, dark grey veinlets (35 degrees TCA)			
69.38	69.41	VN	37	60	NUL	2	4mm-2 cm, quartz-carbonate veinlet in argilic-potassic altered granodiorite			
70.94	70.97	GO	34	80	NUL	1	clay altered, gouged brecciated seamin dark grey, mafic intrusion			
72.06	73.71	VN	37	60	NUL	1	4 mm, quartz carbonate veinlet with weakly potassic alteration halo in unaltered granodiorite.			
75.60	77.00	VN	37	60	NUL	5	1-4 mm, stringer veinlets locally hosting trace pyrite in unaltered granodiorite			
82.75	83.00	VN	37	75	NUL	5	3-7 mm,m quartz-carbonate veinlets locally hosting pyrite, magnetite and trace galena in stronglypropylitic, trace phyllic granodiorite. Light pink rhodocrosite locally infills and microbrecciates pyrite bearing veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
86.70	87.00	VN	37	40	NUL	3	quartz-carbonate veinlets in weakly potassic-argillic granodiorite			
109.88	110.00	VN	37	30	NUL	1	1 cm, quartz-carbonate veinlet locally hosting pyrite and hematite in unaltered, weakly hematite altered granodiorite			
112.05	112.12	VN	37	55	NUL	1	1 cm, quartz veinlet locally hosting blebby pyrite and trace arsenopyrite			
113.55	113.57	GO	34	80	NUL	1	light brown,clay altered, gouged brecciated seam at contact between dyke intrusions and granodiorite			
114.22	114.30	SH	81	40	NUL	1	shear fabric in soft, clay altered, argillic granodiorite			
118.30	118.80	VN	37	40	NUL	3	4-8 mm, quartz-carbonate veinlets locally hosting hematite and trace magnetite			
122.00	122.41	VN	37	40	NUL	3	3-5 mm, quartz-carbonate veinlets in pervasively hematite altered granodiorite			
125.80	126.00	GO	34	30	NUL	1	clay altered, gouged brecciated section in argillic altered granodiorite.			
128.30	128.55	VN	37	80	NUL	5	3- 6 mm, quartz-carbonate veinlets locally brecciated host argillic, hematite altered granodiorite			
130.70	130.80	VN	37	40	NUL	1	6 mm, quartz-carbonate veinlet locallyhosting traec pyrite and hematite bands locally offset by calcite infilled fractured perpendicular to vein			
136.26	136.46	VN	37	80	NUL	3	2-4 mm, quartz-carbonate veinlets in pervasively hematite altered, argillic granodiorite			
137.00	137.70	VN	37	60	NUL	2	4-8 mm, quartz-carbonate veinlets in argillic, hematite altered granodiorite , locally hosting trace disseminated pyrite and hematite			
153.20	153.35	VN	37	60	NUL	1	6 mm, quartz-carbonate veinlet in unaltered granodiorite			
157.00	157.05	VN	37	50	NUL	2	4-6 mm, quartz-carbonate veinlet locally hosting trace pyrite in argillic-propylitic granodiorite			
158.20	158.50	GO	34	40	NUL	1	gouged-brecciated section locally hosting trace pyrite in argillic-propylitic granodiorite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
160.90	160.93	VN	37	60	NUL	1	4 mm, quartz-carbonate veinlet locally hosting trace pyrite and magnetite in hematite altered granodiorite			
169.00	169.50	VN	37	80	NUL	2	2-3 mm, quartz-carbonate veinlets in unaltered granodiorite			
173.30	173.60	VN	37	60	NUL	3	3 mm, carbonate veinlets un unaltered granodiorite			
176.03	176.50	VN	37	50	NUL	2	3-5 mm, quartz-carbonate veinlts locally hoting trace pyrite-magnetite and locally brecciating unaltered granodiorite.			
177.70	177.85	VN	37	40	NUL	3	1-3mm quartz-carbonat veinlets in hematite altered granodiorite section			
184.26	185.40	VN	37	45	NUL	4	2-6mm, quartz-carbonate veinlets in hematite altered granodiorite			
187.55	187.62	VN	37	40	NUL	3	2-3 mm, quartz-carbonate veinlets in unaltered granodiorite			
188.80	188.82	GO	34	60	NUL	1	gouged seam in hematite altered granodiorite			
191.20	191.33	DY	37	60	NUL	1	4 mm, pink, fine grained aplite dyke intrusion in hematite altered granodiote			
193.00	193.13	VN	37	45	NUL	2	4-7 mm, quartz-carbonate veinlets in argillic altered granodiorite			
193.65	193.75	DY	37	80	NUL	3	4mm-3cm , pink, fine grained aplite dyke intrusion in unaltered granodiorite			
194.35	194.50	DY	37	80	NUL	1	5 cm, pink-green,aplite dyke intrusion in trace potassic granodiorite			
195.63	195.66	VN	37	70	NUL	1	3 cm, tan-carbonate veinlet brecciating host argillic granodiorite			
199.19	199.75	VN	37	35	NUL	3	4mm-1 cm, tan, quart-carbonate veinlets in argillic altered granodiorite			
204.50	204.60	VN	37	40	NUL	1	5 mm, quartz-carbonate veinlets in weakly propylitic granodiorite			
204.85	204.90	GO	34	40	NUL	1	4 cm, gouged brecciated seam at contact between granodiorite and vein breccia			
204.90	205.30	VN	37	40	NUL	1	tan-light grey, quart-carbonate veins brecciating host argillic-propylitic granodiorite.			
206.05	206.15	GO	34	60	NUL	1	2 cm, light grey, soft gouged seam			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
208.26	208.70	VN	37	40	NUL	6	3-7 mm, quartz-carbonate veinlets locally hosting trace pyrite and magnetite			
209.62	209.64	VN	37	40	NUL	1	1cm, quartz-carbonate veinlet locally hosting trace pyrite in trace propylitic granodiorite			
216.70	216.78	VN	37	40	NUL	1	4 mm, quartz carbonate veinlet in trace potassic-propylitic granodiorite. A 3 cm, weakly argillic alteration halo is observed near vein zone			
217.60	217.65	VN	37	40	NUL	1	5 cm, quartz veinlet partially infilled by ankerite and then interstitially filled and brecciated by light pink rhodocrosite. Pyrite is hosted in quart veins and sub-mm sphalerite and possible galena are spatially associated with quartz vein and within rhodocrosite infill regions			
218.70	218.82	VN	37	40	NUL	3	3-5 quartz-carbonate veinlets locally brecciating host granodiorite and hosting trace pyrite. A 3 cm, light grey carbonate appears to locally crosscut an ankerite-quartz veinlet .			
222.90	222.96	VN	37	80	NUL	3	4-7 mm, quartz-carbonate veinlets locally hosting trace pyrite in argillic-propylitic altered granodiorite			
223.40	224.40	VN	37	40	NUL	2	4-7 mm, dark green, chloritized veinlets in propylitic granodiorite			
224.96	225.00	GO	34	40	NUL	1	light grey, gouged brecciated sea in moderate propylitic granodiorite locally hosting trace pyrite			
230.00	230.40	VN	37	60	NUL	2	1-2 mm, quartz-carbonate veinlets locally hosting trace pyrite			
232.45	232.50	VN	37	40	NUL	3	3-5mm, quartz-carbonate veinlets locally hosting pyrite and brecciating host, propylitic altered granodiorite			
232.50	233.15	VN	37	60	NUL	2	4mm-2 cm, quartz veins at the contact with black, fine grained mafic inclusion in propylitic granodiorite, locally hosting pyrite, sphalerite and possible arsenopyrite			
236.32	236.34	VT	37	60	NUL	1	hematite altered carbonate vein within argillic/propylitic altered granodiorite with weak hematitic overprinting. Hematite found along fracture planes.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
251.67	251.69	VT	37	50	NUL	1	banded carbonate vein cutting propylitic altered granodiorite.			
255.10	255.13	VT	37	58	NUL	1	carbonate vein cutting propylitic altered granodiorite.			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383001	6889190	1455.43	129.54

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-463

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 9.14m, Out

Drilling Dates: Oct 29 - Oct 30, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
9	14.56	-48.8	Reflex
129	37.76	-48.6	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2	2	OVB
2	7.32	5.32	GRD
7.32	9.14	1.82	GRD
9.14	11.7	2.56	QFP
11.7	13.75	2.05	GRD
13.75	16	2.25	GRD
16	17.5	1.5	GRD
17.5	20.2	2.7	GRD
20.2	23	2.8	GRD
23	25	2	GRD
25	26	1	GRD
26	27.7	1.7	GRD
27.7	34.3	6.6	GRD
34.3	35	0.7	GRD
35	40	5	GRD
40	40.5	0.5	GRD

SAMPLES	
Numbers:	W599272 to W599278, W602872 to W602984
Total:	120
Batch:	112, 113, 114, 116, 117
Certificates:	WH19255747, WH19255749, WH19255758, WH19255763, WH19255798

COMMENTS

40.5	42	1.5	GRD
42	43	1	GRD
43	44.3	1.3	GRD
44.3	44.6	0.3	GRD
44.6	45.3	0.7	GRD
45.3	48.3	3	GRD
48.3	49.5	1.2	GRD
49.5	50	0.5	GRD
50	51.25	1.25	GRD
51.25	51.4	0.15	VEN
51.4	55	3.6	GRD
55	56	1	GRD
56	56.8	0.8	GRD
56.8	59.2	2.4	GRD
59.2	59.5	0.3	GRD
59.5	60.75	1.25	GRD
60.75	62.2	1.45	GRD
62.2	63.3	1.1	GRD
63.3	64	0.7	GRD
64	67.5	3.5	GRD
67.5	68	0.5	GRD
68	69	1	GRD
69	72	3	GRD
72	72.75	0.75	GRD
72.75	72.9	0.15	GRD
72.9	74.13	1.23	GRD
74.13	75.7	1.57	GRD
75.7	76.8	1.1	GRD
76.8	78.3	1.5	GRD
78.3	80	1.7	GRD
80	80.2	0.2	GRD
80.2	81.5	1.3	GRD

81.5	82.7	1.2	GRD
82.7	85.2	2.5	GRD
85.2	87	1.8	GRD
87	91.5	4.5	GRD
91.5	99.4	7.9	GRD
99.4	99.59	0.19	VEN
99.59	102	2.41	GRD
102	104	2	GRD
104	109.5	5.5	GRD
109.5	116	6.5	GRD
116	118.87	2.87	GRD
118.87	127	8.13	GRD
127	129	2	GRD
129	129.54	0.54	GRD

Box Log

KL -19-463

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.47	5.45
2	5.45	9.83
3	9.83	13.75
4	13.75	17.95
5	17.95	22
6	22	26.21
7	26.21	30.08
8	30.08	34.22
9	34.22	38.33
10	38.33	42.16
11	42.16	46.08
12	46.08	50
13	50	54.86
14	54.86	58.11
15	58.11	62.08
16	62.08	66.52
17	66.52	70.49
18	70.49	74.64
19	74.64	78.89
20	78.89	83.11
21	83.11	86.99
22	86.99	91.44
23	91.44	95.57
24	95.57	99.82
25	99.82	104.02
26	104.02	108.33
27	108.33	112.78
28	112.78	117.05
29	117.05	121.24
30	121.24	125.19
31	125.19	128.88
32	128.88	129.54

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-463									
	51.2	12	NTW	GRD	936.9	650	2.76	3.3	
	61.8	11	NTW	GRD	899.5	630	2.89	3.3	
	99.51	6.5	NTW	VEN	439.2	288.8	2.39	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.00	2.00	OVB	--	ovb							
2.00	7.32	5.32	GRD	MG	faulted, oxidized, rubbly to gravelly to gougy granodiorite with light brown dirt and oxide coating fracture surfaces and fragments. Strong clay development throughout interval. No sulfides							
						LT	GY		CLY	4I		
						LT	BN		OXI	3I		
									BLE	2I		
7.32	9.14	1.82	GRD	MG	gouged granodioite, heavily clay altered and can be penetrated by thumb when pushing on core. Light brown to medium brown							
						MD	BN					
						LT	BN		CLY	5I		
9.14	11.70	2.56	QFP	MG	fractured, oxidized qfp dyke, light gey to medium brownish grey.							
						MD	GY					
						MD	BN					
11.70	13.75	2.05	GRD	MG	brownish grey granodioirte, partially oxidized on fracture surfaces, trace silicification							
						MD	BN		SIL	1I		
						MD	GY		OXI	2I		
13.75	16.00	2.25	GRD	MG	faulted, sporadically gouged, heavily fractured and fragmental granodioirte with weak to moderate argillic and clay alteraion, with trace porpylitic aleration							
						MD	BN		OXI	3I		
						MD	GY		PRO	1I		
									CLY	3I		
									ARG	2I		
16.00	17.50	1.50	GRD	MG	moderaely propylitic alterd and weakly silicified granodioirte							
						MD	GY		PRO	3I		
						LT	GN					
						LT	GY		SIL	2I		
17.50	20.20	2.70	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
20.20	23.00	2.80	GRD	MG	fractured and rubbly, medium grey to brown granodiorite with oxidation on fracture surfaces, and a few 10 cm wide gouge zones							
						MD	GY		ARG	3I		
						MD	BN		CLY	2I		
									OXI	3I		
23.00	25.00	2.00	GRD	MG	moderately oxidized and argillic altered granodioirte, light brown to brownish grey							
						MD	GY		ARG	3I		
						LT	BN		OXI	3I		
25.00	26.00	1.00	GRD	MG	unaltered granodioirte							
						MD	GY					
26.00	27.70	1.70	GRD	MG	moderately argillic altered granodioirte with weak oxidation							
						LT	GY		OXI	2I		
						LT	BN		ARG	3I		
									BLE	2I		
27.70	34.30	6.60	GRD	MG	weakly fractured unaltered granodioirte							
						MD	GY					
34.30	35.00	0.70	GRD	MG	oxidized and silicified granodiorite with 70 TCA pyrie bearing quartz veinlets, with one veinlet containing sphalerite and trace galena							
						MD	BN		SIL	2I	Py	1
						LT	GY		OXI	3I	Gn	0.1
											Sp	1
35.00	40.00	5.00	GRD	MG	pervasively trae silicified and clay altered on fractures, with weak oxidative staining on fractures as well as weak argillic alteration haloes that extend around fractures, granodioirte.							
						MD	GY		ARG	2I		
									SIL	1I		
									OXI	2I		
40.00	40.50	0.50	GRD	MG	trace silicified granodioirte with 3 70 TCA pyrite stringers							
						MD	GY		SIL	2I	Py	0.5
40.50	42.00	1.50	GRD	MG	weakly silicified granodiorite with trace oxidative stainin on fractures							
						MD	GY		SIL	1I		
									OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.00	43.00	1.00	GRD	MG	moderately silicified granodioirte with two 70 TCA pyrite veinlets							
						MD	GY		SIL	3I	Py	1
43.00	44.30	1.30	GRD	MG	patchily argillic and oxide stained granodiorte, with moderate argillic alteration and moderate pervasive oxide staining							
						MD	BN		ARG	2I		
						MD	GY		OXI	2I		
44.30	44.60	0.30	GRD	MG	silcified granodiorite with one pyrite bearing stringer							
						MD	GY		SIL	3I	Py	1
44.60	45.30	0.70	GRD	MG	unaltered granodiorite							
						MD	GY					
45.30	48.30	3.00	GRD	MG	moderately argillic and weakly propylitic altered granodioirte, with weak oxide staining on fractures surfaces, medium greenish grey to brownish grey							
						MD	GN		OXI	3I		
						MD	GY		ARG	3I		
						MD	BN		CLY	2I		
48.30	49.50	1.20	GRD	MG	strongly silicified granodioirte with sporadic pyrite stringers and one 15 cm zone of fractured rubble with semimassive pyrite. Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures							
						MD	GY		OXI	3I		
						MD	BN		SIL	4I	Py	15
49.50	50.00	0.50	GRD	MG	weakly silicified and pervasively oxidized granodiorite, light brownish grey							
						MD	BN		OXI	2I		
						LT	BN		SIL	2I		
						LT	GY		BLE	2I		
50.00	51.25	1.25	GRD	MG	strongly silicified and oxidized granodioirte with sporadic pyrite stringers Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures							
						LT	BN		SIL	4I	Py	2
									OXI	3I		
									BLE	2I		
51.25	51.40	0.15	VEN	MG	semimassive pyrite quartz vein with banded dissemianted pyrite and finegrained sphalerite and galena.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	4I	Gn	0.1
						LT	WH					
						DK	GY				Py	10
51.40	55.00	3.60	GRD	MG	oxidized and bleached, silicified, granodiorite. Lots of pyrite stringers trending 30-70 TCA, ranging in size from 1-3 cm							
						MD	GY		BLE	3I		
						LT	BN		SIL	3I	Py	2.5
									OXI	2I		
55.00	56.00	1.00	GRD	MG	pervasilvely silicified and oxidized grnodioirte, no visible sulfide stringers							
						LT	BN		OXI	2I		
						LT	GY		SIL	1I		
									BLE	2I		
56.00	56.80	0.80	GRD	MG	oxidized and bleached, silicified granodioirte with pyrite stringers throughout trending 70 TCA							
						LT	BN		SIL	3I		
						LT	GY		OXI	2I	Py	1
									BLE	2I		
56.80	59.20	2.40	GRD	MG	trace slicified granodiorite; besides that, no other alteration							
						MD	GY					
59.20	59.50	0.30	GRD	MG	fragmental rubbly granodiorite; possibly fault related							
						MD	GY		ARG	3I		
						LT	BN					
59.50	60.75	1.25	GRD	MG	unaltered granodiorite							
						MD	GY		SIL	1I		
60.75	62.20	1.45	GRD	MG	strongly silicified granodiorite, with 3 semimassive pyrite veins that trend 30 TCA within the silified granodioirte. One ven is 2 cm wide, another is 1 cm wide, and the last is 4 cm wide. All consist of massive pyrite, without any other sulfide.							
						LT	BN		BLE	4I	Py	10
									OXI	1I		
									SIL	4I		
62.20	63.30	1.10	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.30	64.00	0.70	GRD	MG	pervasively silicified granodioirte with 70 TCA stringers that are pyrite bearing							
						LT	BN		SIL	3I	Py	1
						LT	GY		BLE	2I		
									OXI	2I		
64.00	67.50	3.50	GRD	MG	unaltered granodiorite							
						MD	GY					
67.50	68.00	0.50	GRD	MG	set of 3 pyrite bearing 70 TAC stringers 3 mm wide							
						MD	GY		SIL	1I	Py	0.5
68.00	69.00	1.00	GRD	MG	unaltered granoioirte							
						MD	GY					
69.00	72.00	3.00	GRD	MG	patchy weak argillic altered granodioirte							
						MD	GY		ARG	1I		
72.00	72.75	0.75	GRD	MG	weakly propylitic and silicified granodioirte							
						LT	BN		SIL	1I		
						LT	GY		PRO	3I		
72.75	72.90	0.15	GRD	MG	faulted, brecciated granodioirte with a 60 TCA sharp upper and lower contact.							
						LT	GY		OXI	3I		
						LT	BN		SIL	2I		
									BLE	2I		
72.90	74.13	1.23	GRD	MG	moderately argillic altered granodiorite							
						LT	GY		ARG	2I		
						LT	WH					
74.13	75.70	1.57	GRD	FG	fine grained light grey gano, moderately silicified .without any sulfide bearing veins within. No min							
						LT	GY		SIL	3I		
75.70	76.80	1.10	GRD	MG	medium grained, weakly porpylitic and silicified granodioirte							
						MD	GN		PRO	2I		
						MD	BN		OXI	2I		
						MD	GY		SIL	2I		
76.80	78.30	1.50	GRD	MG	strongly siliifie, moderately propylitic altered granodiorite with 70 TCA pyrite bearing veinlets							
						MD	BN		OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BN		SIL	4I		
						LT	GY		BLE	2I	Py	1
									PRO	2I		
78.30	80.00	1.70	GRD	MG	unaltered granodioirte							
						MD	GY					
80.00	80.20	0.20	GRD	MG	one pyrite vein 3 cm wide with pyrite within; 80 TCA							
						MD	GY		SIL	3I	Py	10
						MD	GN					
80.20	81.50	1.30	GRD	MG	unaltered granodioirte							
						MD	GY					
81.50	82.70	1.20	GRD	MG	weakly silicified granodioirte with 3 pyrite bearing quartz stringers 70 TCA rangin in size from 1-2 cm							
						MD	GY		SIL	1I	Py	5
82.70	85.20	2.50	GRD	MG	unaltered granodioirte							
						MD	GY					
85.20	87.00	1.80	GRD	MG	weak to moderately argillic altered granodioirte							
						LT	WH		ARG	3I		
						LT	GY					
87.00	91.50	4.50	GRD	MG	propylitic and argillic altere granodiooirte							
						MD	GY		ARG	2I		
						LT	GN					
						LT	GY		PRO	2I		
91.50	99.40	7.90	GRD	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart							
						MD	GY					
						LT	GY		ARG	2I	Py	0.5
						LT	GN		PRO	2I		
99.40	99.59	0.19	VEN	MG	smokey grey quartz carbonate vein with semimassive pyrite and weak sphalerite, trends 70 TCA							
						MD	GY		SIL	5I	Py	10
						LT	WH				Sp	0.5
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.59	102.00	2.41	GRD	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart							
						MD	GY		SIL	2I		
						LT	GY		PRO	2I	Py	0.5
						LT	GN		ARG	2I		
102.00	104.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
104.00	109.50	5.50	GRD	MG	propylitic, argillic and siliceous ranodioirte with 70 TCA pyrite stringers, 2 veinelts contain trace sphalerite and galena							
						LT	GY		ARG	2I	Py	1
						LT	GN		SIL	2I	Gn	0.1
									PRO	2I	Sp	0.1
109.50	116.00	6.50	GRD	MG	unaltered granodioirte							
						MD	GY					
116.00	118.87	2.87	GRD	MG	moderately argillic and trace perviasvely silicified granodioirote with 70 TCA pyrite stringers with bleacehd alteration haloes							
						MD	GY		PRO	2I	Py	0.5
						MD	GN		SIL	1I		
118.87	127.00	8.13	GRD	MG	unaltered granodioirte							
						MD	GY					
127.00	129.00	2.00	GRD	MG	weakly fractured, fragmental grd with carbonate and minor hem on frx surfaces							
						MD	GY					
						LT	GN		HEM	1I		
129.00	129.54	0.54	GRD	MG	unaltered granoioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	2.00	2.00	OVB	OVB	--	ovb
2.00	7.32	5.32	GRD	GRDF	MG	faulted, oxidized, rubbly to gravelly to gougy granodiorite with light brown dirt and oxide coating fracture surfaces and fragments. Strong clay development throughout interval. No sulfides
7.32	9.14	1.82	GRD	GRDF	MG	gouged granodioite, heavily clay altered and can be penetrated by thumb when pushing on core. Light brown to medium brown
9.14	11.70	2.56	QFP	DYK	MG	fractured, oxidized qfp dyke, light gey to medium brownish grey.
11.70	13.75	2.05	GRD	GRDA	MG	brownish grey granodioirte, partially oxidized on fracture surfaces, trace silicification
13.75	16.00	2.25	GRD	GRDF	MG	faulted, sporadically gouged, heavily fractured and fragmental granodioirte with weak to moderate argillic and clay alteraion, with trace porpylitic aleration
16.00	17.50	1.50	GRD	GRDA	MG	moderaely propylitic alterd and weakly silicified granodioirte
17.50	20.20	2.70	GRD	GRD	MG	unaltered granodioirte
20.20	23.00	2.80	GRD	GRDF	MG	fractured and rubbly, medium grey to brown granodiorite with oxidation on fracture surfaces, and a few 10 cm wide gouge zones
23.00	25.00	2.00	GRD	GRDA	MG	moderately oxidized and argillic altered granodioirte, light brown to brownish grey
25.00	26.00	1.00	GRD	GRD	MG	unaltered granodioirte
26.00	27.70	1.70	GRD	GRDA	MG	moderately argillic altered granodioirte with weak oxidation
27.70	34.30	6.60	GRD	GRD	MG	weakly fractured unaltered granodioirte
34.30	35.00	0.70	GRD	GRDM	MG	oxidized and silicified granodiorite with 70 TCA pyrie bearing quartz veinlets, with one veinlet containing sphalerite and trace galena
35.00	40.00	5.00	GRD	GRDA	MG	pervasively trae silicified and clay altered on fractures, with weak oxidative staining on fractures as well as weak argillic alteration haloes that extend around fractures, granodioirte.
40.00	40.50	0.50	GRD	GRDM	MG	trace silicified granodioirte with 3 70 TCA pyrite stringers
40.50	42.00	1.50	GRD	GRDA	MG	weakly silicified granodiorite with trace oxidative stainin on fractures
42.00	43.00	1.00	GRD	GRDM	MG	moderately silicified granodioirte with two 70 TCA pyrite veinlets
43.00	44.30	1.30	GRD	GRDA	MG	patchily argillic and oxide stained granodiorte, with moderate argillic alteration and moderate pervasive oxide staining

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
44.30	44.60	0.30	GRD	GRDM	MG	silcified granodiorite with one pyrite bearing stringer
44.60	45.30	0.70	GRD	GRD	MG	unaltered granodiorite
45.30	48.30	3.00	GRD	GRDA	MG	moderately argillic and weakly propylitic altered granodioirte, with weak oxide staining on fractures surfaces, medium greenish grey to brownish grey
48.30	49.50	1.20	GRD	GRDM	MG	strongly silicified granodioirte with sporadic pyrite stringers and one 15 cm zone of fractured rubble with semimassive pyrite. Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures
49.50	50.00	0.50	GRD	GRDA	MG	weakly silicified and pervasively oxidized granodiorite, light brownish grey
50.00	51.25	1.25	GRD	GRDM	MG	strongly silicified and oxidized granodioirte with sporadic pyrite stringers Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures
51.25	51.40	0.15	VEN	VEIN	MG	semimassive pyrite quartz vein with banded dissemianted pyrite and finegrained sphalerite and galena.
51.40	55.00	3.60	GRD	GRDM	MG	oxidized and bleached, silicified, granodiorite. Lots of pyrite stringers trending 30-70 TCA, ranging in size from 1-3 cm
55.00	56.00	1.00	GRD	GRDA	MG	pervasilvely silicified and oxidized grnodioirte, no visible sulfide stringers
56.00	56.80	0.80	GRD	GRD	MG	oxidized and bleached, silicified granodioirte with pyrite stringers throughout trending 70 TCA
56.80	59.20	2.40	GRD	GRD	MG	trace slicified granodiorite; besides that, no other alteration
59.20	59.50	0.30	GRD	GRDF	MG	fragmental rubbly granodiorite; possibly fault related
59.50	60.75	1.25	GRD	GRD	MG	unaltered granodiorite
60.75	62.20	1.45	GRD	GRDM	MG	strongly silicified granodiorite, with 3 semimassive pyrite veins that trend 30 TCA within the silified granodioirte. One ven is 2 cm wide, another is 1 cm wide, and the last is 4 cm wide. All consist of massive pyrite, without any other sulfide.
62.20	63.30	1.10	GRD	GRD	MG	unaltered granodioirte
63.30	64.00	0.70	GRD	GRDA	MG	pervasively silicified granodioirte with 70 TCA stringers that are pyrite bearing
64.00	67.50	3.50	GRD	GRD	MG	unaltered granodiorite
67.50	68.00	0.50	GRD	GRDM	MG	set of 3 pyrite bearing 70 TAC stringers 3 mm wide
68.00	69.00	1.00	GRD	GRD	MG	unaltered granoioirte
69.00	72.00	3.00	GRD	GRDA	MG	patchy weak argillic altered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
72.00	72.75	0.75	GRD	GRDA	MG	weakly propylitic and silicified granodioirte
72.75	72.90	0.15	GRD	GRDF	MG	faulted, brecciated granodioirte with a 60 TCA sharp upper and lower contact.
72.90	74.13	1.23	GRD	GRDA	MG	moderately argillic altered granodiorite
74.13	75.70	1.57	GRD	GRDA	FG	fine grained light grey gano, moderately silicified .without any sulfide bearing veins within. No min
75.70	76.80	1.10	GRD	GRDA	MG	medium grained, weakly porpylitic and silicified granodioirte
76.80	78.30	1.50	GRD	GRDM	MG	strongly siliifie, moderately propylitic altered granodiorite with 70 TCA pyrite bearing veinlets
78.30	80.00	1.70	GRD	GRD	MG	unaltered granodioirte
80.00	80.20	0.20	GRD	GRDM	MG	one pyrite vein 3 cm wide with pyrite within; 80 TCA
80.20	81.50	1.30	GRD	GRD	MG	unaltered granodioirte
81.50	82.70	1.20	GRD	GRDM	MG	weakly silicified granodioirte with 3 pyrite bearing quartz stringers 70 TCA rangin in size from 1-2 cm
82.70	85.20	2.50	GRD	GRD	MG	unaltered granodioirte
85.20	87.00	1.80	GRD	GRDA	MG	weak to moderately argillic altered granodioirte
87.00	91.50	4.50	GRD	GRDA	MG	propylitic and argillic altere granodiooirte
91.50	99.40	7.90	GRD	GRDM	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart
99.40	99.59	0.19	VEN	VEIN	MG	smokey grey quartz carbonate vein with semimassive pyrite and weak sphalerite, trends 70 TCA
99.59	102.00	2.41	GRD	GRDM	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart
102.00	104.00	2.00	GRD	GRD	MG	unaltered granodioirte
104.00	109.50	5.50	GRD	GRDM	MG	propylitic, argillic and siliceous ranodioirte with 70 TCA pyrite stringers, 2 veinelts contain trace sphalerite and galena
109.50	116.00	6.50	GRD	GRD	MG	unaltered granodioirte
116.00	118.87	2.87	GRD	GRDM	MG	moderately argillic and trace perviasvely silicified granodioirote with 70 TCA pyrite stringers with bleacehd alteration haloes
118.87	127.00	8.13	GRD	GRD	MG	unaltered granodioirte
127.00	129.00	2.00	GRD	GRDF	MG	weakly fractured, fragmental grd with carbonate and minor hem on frx surfaces

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
129.00	129.54	0.54	GRD	GRD	MG	unaltered granoioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.00	2.00	OVB	--	ovb							
2.00	7.32	5.32	GRD	MG	faulted, oxidized, rubbly to gravelly to gougy granodiorite with light brown dirt and oxide coating fracture surfaces and fragments. Strong clay development throughout interval. No sulfides							
						LT	BN		BLE	2I		
						LT	GY		OXI	3I		
									CLY	4I		
7.32	9.14	1.82	GRD	MG	gouged granodioite, heavily clay altered and can be penetrated by thumb when pushing on core. Light brown to medium brown							
						MD	BN					
						LT	BN		CLY	5I		
9.14	11.70	2.56	QFP	MG	fractured, oxidized qfp dyke, light gey to medium brownish grey.							
						MD	BN					
						MD	GY					
11.70	13.75	2.05	GRD	MG	brownish grey granodioirte, partially oxidized on fracture surfaces, trace silicification							
						MD	BN		OXI	2I		
						MD	GY		SIL	1I		
13.75	16.00	2.25	GRD	MG	faulted, sporadically gouged, heavily fractured and fragmental granodioirte with weak to moderate argillic and clay alteraion, with trace porpylitic aleration							
						MD	GY		OXI	3I		
						MD	BN		PRO	1I		
									ARG	2I		
									CLY	3I		
16.00	17.50	1.50	GRD	MG	moderaely propylitic alterd and weakly silicified granodioirte							
						LT	GY		PRO	3I		
						MD	GY		SIL	2I		
						LT	GN					
17.50	20.20	2.70	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
20.20	23.00	2.80	GRD	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart							
									CLY	2I		
						MD	GY		OXI	3I		
						MD	BN		ARG	3I		
23.00	25.00	2.00	GRD	MG	moderately oxidized and argillic altered granodioirte, light brown to brownish grey							
						MD	GY		OXI	3I		
						LT	BN		ARG	3I		
25.00	26.00	1.00	GRD	MG	unaltered granodioirte							
						MD	GY					
26.00	27.70	1.70	GRD	MG	moderately argillic altered granodioirte with weak oxidation							
									BLE	2I		
						LT	GY		OXI	2I		
						LT	BN		ARG	3I		
27.70	34.30	6.60	GRD	MG	weakly fractured unaltered granodioirte							
						MD	GY					
34.30	35.00	0.70	GRD	MG	oxidized and silicified granodiorite with 70 TCA pyrie bearing quartz veinlets, with one veinlet containing sphalerite and trace galena							
						LT	GY		OXI	3I	Py	1
											Sp	1
						MD	BN		SIL	2I	Gn	0.1
35.00	40.00	5.00	GRD	MG	pervasively trae silicified and clay altered on fractures, with weak oxidative staining on fractures as well as weak argillic alteration haloes that extend around fractures, granodioirte.							
									OXI	2I		
									SIL	1I		
						MD	GY		ARG	2I		
40.00	40.50	0.50	GRD	MG	trace silicified granodioirte with 3 70 TCA pyrite stringers							
						MD	GY		SIL	2I	Py	0.5
40.50	42.00	1.50	GRD	MG	weakly silicified granodiorite with trace oxidative stainin on fractures							
						MD	GY		SIL	1I		
									OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.00	43.00	1.00	GRD	MG	moderately silicified granodioirte with two 70 TCA pyrite veinlets							
						MD	GY		SIL	3I	Py	1
43.00	44.30	1.30	GRD	MG	patchily argillic and oxide stained granodiorte, with moderate argillic alteration and moderate pervasive oxide staining							
						MD	GY		ARG	2I		
						MD	BN		OXI	2I		
44.30	44.60	0.30	GRD	MG	silcified granodiorite with one pyrite bearing stringer							
						MD	GY		SIL	3I	Py	1
44.60	45.30	0.70	GRD	MG	unaltered granodiorite							
						MD	GY					
45.30	48.30	3.00	GRD	MG	moderately argillic and weakly propylitic altered granodioirte, with weak oxide staining on fractures surfaces, medium greenish grey to brownish grey							
						MD	GN		OXI	3I		
						MD	BN		ARG	3I		
						MD	GY		CLY	2I		
48.30	49.50	1.20	GRD	MG	strongly silicified granodioirte with sporadic pyrite stringers and one 15 cm zone of fractured rubble with semimassive pyrite. Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures							
						MD	BN		OXI	3I	Py	15
						MD	GY		SIL	4I		
49.50	50.00	0.50	GRD	MG	weakly silicified and pervasively oxidized granodiorite, light brownish grey							
						LT	GY		SIL	2I		
						MD	BN		OXI	2I		
						LT	BN		BLE	2I		
50.00	51.25	1.25	GRD	MG	strongly silicified and oxidized granodioirte with sporadic pyrite stringers Pyrite stringers trend 50 and 70 TCA. Weak pervasive oxidation throughout and along fractures							
									BLE	2I		
									SIL	4I		
						LT	BN		OXI	3I	Py	2
51.25	51.40	0.15	VEN	MG	semimassive pyrite quartz vein with banded dissemianted pyrite and finegrained sphalerite and galena.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY				Gn	0.1
						LT	WH					
						DK	GY		SIL	4I	Py	10
51.40	55.00	3.60	GRD	MG	oxidized and bleached, silicified, granodiorite. Lots of pyrite stringers trending 30-70 TCA, ranging in size from 1-3 cm							
						MD	GY		BLE	3I	Py	2.5
									OXI	2I		
						LT	BN		SIL	3I		
55.00	56.00	1.00	GRD	MG	pervasilvely silicified and oxidized grnodioirte, no visible sulfide stringers							
						LT	GY		SIL	1I		
									BLE	2I		
						LT	BN		OXI	2I		
56.00	56.80	0.80	GRD	MG	oxidized and bleached, silicified granodioirte with pyrite stringers throughout trending 70 TCA							
						LT	GY		SIL	3I		
									OXI	2I		
						LT	BN		BLE	2I	Py	1
56.80	59.20	2.40	GRD	MG	trace slicified granodiorite; besides that, no other alteration							
						MD	GY					
59.20	59.50	0.30	GRD	MG	fragmental rubbly granodiorite; possibly fault related							
						MD	GY					
						LT	BN		ARG	3I		
59.50	60.75	1.25	GRD	MG	unaltered granodiorite							
						MD	GY		SIL	1I		
60.75	62.20	1.45	GRD	MG	strongly silicified granodiorite, with 3 semimassive pyrite veins that trend 30 TCA within the silified granodioirte. One ven is 2 cm wide, another is 1 cm wide, and the last is 4 cm wide. All consist of massive pyrite, without any other sulfide.							
									BLE	4I		
						LT	BN		OXI	1I	Py	10
									SIL	4I		
62.20	63.30	1.10	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.30	64.00	0.70	GRD	MG	pervasively silicified granodioirte with 70 TCA stringers that are pyrite bearing							
									OXI	2I		
						LT	GY		BLE	2I		
						LT	BN		SIL	3I	Py	1
64.00	67.50	3.50	GRD	MG	unaltered granodiorite							
						MD	GY					
67.50	68.00	0.50	GRD	MG	set of 3 pyrite bearing 70 TAC stringers 3 mm wide							
						MD	GY		SIL	1I	Py	0.5
68.00	69.00	1.00	GRD	MG	unaltered granoioirte							
						MD	GY					
69.00	72.00	3.00	GRD	MG	patchy weak argillic altered granodioirte							
						MD	GY		ARG	1I		
72.00	72.75	0.75	GRD	MG	weakly propylitic and silicified granodioirte							
						LT	BN		PRO	3I		
						LT	GY		SIL	1I		
72.75	72.90	0.15	GRD	MG	faulted, brecciated granodioirte with a 60 TCA sharp upper and lower contact.							
						LT	GY		SIL	2I		
						LT	BN		OXI	3I		
									BLE	2I		
72.90	74.13	1.23	GRD	MG	moderately argillic altered granodiorite							
						LT	WH		ARG	2I		
						LT	GY					
74.13	75.70	1.57	GRD	FG	fine grained light grey gano, moderately silicified .without any sulfide bearing veins within. No min							
						LT	GY		SIL	3I		
75.70	76.80	1.10	GRD	MG	medium grained, weakly porpylitic and silicified granodioirte							
						MD	GN		OXI	2I		
						MD	BN		PRO	2I		
						MD	GY		SIL	2I		
76.80	78.30	1.50	GRD	MG	strongly siliifie, moderately propylitic altered granodiorite with 70 TCA pyrite bearing veinlets							
						MD	BN		SIL	4I	Py	1
						LT	BN		OXI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									BLE	2I		
						LT	GY		PRO	2I		
78.30	80.00	1.70	GRD	MG	unaltered granodioirte							
						MD	GY					
80.00	80.20	0.20	GRD	MG	one pyrite vein 3 cm wide with pyrite within; 80 TCA							
						MD	GY					
						MD	GN		SIL	3I	Py	10
80.20	81.50	1.30	GRD	MG	unaltered granodioirte							
						MD	GY					
81.50	82.70	1.20	GRD	MG	weakly silicified granodioirte with 3 pyrite bearing quartz stringers 70 TCA rangin in size from 1-2 cm							
						MD	GY		SIL	1I	Py	5
82.70	85.20	2.50	GRD	MG	unaltered granodioirte							
						MD	GY					
85.20	87.00	1.80	GRD	MG	weak to moderately argillic altered granodioirte							
						LT	WH					
						LT	GY		ARG	3I		
87.00	91.50	4.50	GRD	MG	propylitic and argillic altere granodiooirte							
						LT	GY					
						MD	GY		ARG	2I		
						LT	GN		PRO	2I		
91.50	99.40	7.90	GRD	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart							
						MD	GY		PRO	2I	Py	0.5
						LT	GY		ARG	2I		
						LT	GN					
99.40	99.59	0.19	VEN	MG	smokey grey quartz carbonate vein with semimassive pyrite and weak sphalerite, trends 70 TCA							
						MD	GY		SIL	5I	Py	10
						LT	WH					
						DK	GY				Sp	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
99.59	102.00	2.41	GRD	MG	propylitic, argillic and silceous granodioirte with series of 70 TCA pyrite stringers, typically spaced 15-20 cm apart							
						MD	GY		ARG	2I	Py	0.5
						LT	GN		PRO	2I		
						LT	GY		SIL	2I		
102.00	104.00	2.00	GRD	MG	unaltered granodioirte							
						MD	GY					
104.00	109.50	5.50	GRD	MG	propylitic, argillic and siliceous ranodioirte with 70 TCA pyrite stringers, 2 veinelts contain trace sphalerite and galena							
						LT	GY		ARG	2I	Sp	0.1
						LT	GN		PRO	2I	Gn	0.1
									SIL	2I	Py	1
109.50	116.00	6.50	GRD	MG	unaltered granodioirte							
						MD	GY					
116.00	118.87	2.87	GRD	MG	moderately argillic and trace perviasvely silicified granodioirote with 70 TCA pyrite stringers with bleacehd alteration haloes							
						MD	GN		PRO	2I	Py	0.5
						MD	GY		SIL	1I		
118.87	127.00	8.13	GRD	MG	unaltered granodioirte							
						MD	GY					
127.00	129.00	2.00	GRD	MG	weakly fractured, fragmental grd with carbonate and minor hem on frx surfaces							
						MD	GY					
						LT	GN		HEM	1I		
129.00	129.54	0.54	GRD	MG	unaltered granoioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.05	3	0.00	0	--	1H	6W	Overburden
1.52	3.05	1.53	1.11	73	0.00	0	--	1H	6W	Overurden going to extremly oxidized material at 1.75m
3.05	7.62	4.57	4.4	96	0.00	0	--	1H	5W	Extremely oxidized rubble and gouge
7.62	9.14	1.52	1.52	100	0.00	0	--	2H	5W	Extremely oxidized rubble and gouge
9.14	12.19	3.05	2.7	89	0.00	0	--	2H	5W	Extremely oxidized rubble and gouge
12.19	15.24	3.05	2.96	97	1.13	37	--	3H	4W	Oxidized rock and joint surfaces
15.24	18.29	3.05	2.94	96	1.49	49	--	4H	3W	Oxidized rock and joint surfaces. Highly weathered between 15.40-16.00m
18.29	21.34	3.05	3.04	100	1.55	51	--	4H	3W	Oxidized joint surfaces
21.34	24.38	3.04	2.71	89	0.16	5	--	3H	4W	Oxidized rock and joint surfaces.
24.38	27.43	3.05	2.89	95	1.22	40	--	3H	4W	Oxidized rock and joint surfaces.
27.43	30.48	3.05	2.95	97	0.10	3	--	3H	4W	Oxidized rock and joint surfaces.
30.48	36.58	6.10	5.96	98	3.23	53	--	4H	2W	Some oxidized joint surfaces.
36.58	39.62	3.04	3.04	100	0.80	26	--	4H	2W	Some oxidized joint surfaces. Crumbly section between 38m - 39.6m
39.62	42.67	3.05	3.05	100	1.29	42	--	4H	2W	Some oxidized joint surfaces.
42.67	45.72	3.05	3.05	100	0.61	20	--	3H	3W	Some oxidized joint surfaces and core
45.72	48.77	3.05	2.95	97	0.47	15	--	3H	3W	Some Oxidized joint surfaces and patchy oxidation in core.
48.77	51.82	3.05	3.05	100	0.89	29	--	3H	3W	Some Oxidized joint surfaces and patchy oxidation in core.
51.82	54.86	3.04	2.89	95	1.06	35	--	3H	3W	Some Oxidized joint surfaces and patchy oxidation in core.
54.86	57.91	3.05	3.05	100	2.14	70	--	4H	3W	Some Oxidized joint surfaces and patchy oxidation in core.
57.91	60.96	3.05	2.88	94	2.04	67	--	4H	3W	Some Oxidized joint surfaces and patchy oxidation in core.
60.96	64.01	3.05	2.97	97	2.26	74	--	3H	3W	Oxidized rock and joint surfaces.
64.01	67.06	3.05	3.05	100	1.96	64	--	4H	2W	Oxidized joint surfaces.
67.06	70.10	3.04	3.04	100	2.10	69	--	4H	2W	Some oxidized joint surfaces.
70.10	73.15	3.05	3.05	100	1.23	40	--	3H	2W	Some oxidized joint surfaces.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
73.15	76.20	3.05	3.05	100	1.94	64	--	3H	2W	some oxidized joint surfaces.
76.20	79.25	3.05	2.98	98	1.31	43	--	3H	2W	Some Oxidized joint surfaces.
79.25	82.30	3.05	3.05	100	2.34	77	--	4H	2W	some Oxidized joint surfaces.
82.30	85.34	3.04	3	99	1.82	60	--	4H	2W	Some Oxidized joint surfaces
85.34	88.39	3.05	2.97	97	1.03	34	--	4H	2W	
88.39	91.44	3.05	2.89	95	1.89	62	--	3H	2W	some oxidized joint surfaces
91.44	94.49	3.05	2.87	94	1.78	58	--	3H	2W	some oxidized joint surfaces, 2cm fault gauge/ clay
94.49	97.54	3.05	2.98	98	2.43	80	--	3H	2W	
97.54	100.58	3.04	2.95	97	1.45	48	--	3H	2W	oxidized fracture surfaces
100.58	103.63	3.05	2.78	91	0.84	28	--	3H	3W	oxidized joint surfaces
103.63	106.68	3.05	2.95	97	2.40	79	--	4H	2W	
106.68	109.73	3.05	2.8	92	1.89	62	--	3H	2W	
109.73	112.78	3.05	2.98	98	1.97	65	--	4H	2W	some oxidized joint surfaces
112.78	115.82	3.04	2.79	92	1.11	37	--	3H	3W	some oxidized fracture surfaces
115.82	118.87	3.05	2.86	94	1.36	45	--	3H	2W	
118.87	121.92	3.05	2.91	95	1.07	35	--	2H	2W	Highly fractured
121.92	124.97	3.05	2.77	91	0.56	18	--	3H	2W	highly fractured
124.97	126.49	1.52	1.18	78	0.00	0	--	2H	3W	Highly fractured
126.49	129.54	3.05	2.79	91	1.04	34	--	3H	3W	Highly fractured, some oxidized fracture surfaces

Magnetic Suscepatibility

KL -19-463

Klaza Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	0.258	GRD	
2	0.258	OVB	
3	0.037	GRD	
4	0.607	GRD	
5	0.14	GRD	
6	0.11	GRD	
7	0.101	GRD	
8	0.09	GRD	
9	0.147	GRD	
10	0.58	QFP	
11	0.16	QFP	
12	0.397	GRD	
13	7.32	GRD	
14	2.77	GRD	
15	0.7	GRD	
16	0.41	GRD	
16	0.41	GRD	
17	0.148	GRD	
18	3.16	GRD	
19	0.59	GRD	
20	0.616	GRD	
21	16.52	GRD	
22	0.427	GRD	
23	0.316	GRD	
23	0.316	GRD	
24	1.18	GRD	
25	6.5	GRD	
25	6.5	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
26	15.7	GRD	
26	15.7	GRD	
27	0.28	GRD	
28	3.78	GRD	
29	5.4	GRD	
30	0.646	GRD	
31	10.64	GRD	
32	12.3	GRD	
33	5.015	GRD	
34	16.96	GRD	
35	0.235	GRD	
35	0.235	GRD	
36	0.613	GRD	
37	13.03	GRD	
38	12.37	GRD	
39	18.21	GRD	
40	17.98	GRD	
40	17.98	GRD	
41	15.2	GRD	
42	8.146	GRD	
42	8.146	GRD	
43	0.523	GRD	
43	0.523	GRD	
44	1.521	GRD	
45	7	GRD	
46	0.339	GRD	
47	2.326	GRD	
48	0.93	GRD	
49	0.32	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
50	0.51	GRD	
50	0.51	GRD	
51	0.65	GRD	
52	0.396	GRD	
53	0.169	GRD	
54	0.122	GRD	
55	0.29	GRD	
55	0.29	GRD	
56	0.418	GRD	
56	0.418	GRD	
57	8.62	GRD	
58	1.32	GRD	
59	17.11	GRD	
60	2.667	GRD	
61	0.443	GRD	
62	0.136	GRD	
63	3.04	GRD	
64	9.37	GRD	
64	9.37	GRD	
65	18.2	GRD	
66	5.523	GRD	
67	11.69	GRD	
68	16.09	GRD	
68	16.09	GRD	
69	0.776	GRD	
69	0.776	GRD	
70	13.89	GRD	
71	0.265	GRD	
72	0.228	GRD	
72	0.228	GRD	
73	0.185	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
74	0.315	GRD	
75	0.111	GRD	
76	0.238	GRD	
77	0.119	GRD	
78	0.346	GRD	
79	13.64	GRD	
80	0.913	GRD	
80	0.913	GRD	
81	10.28	GRD	
82	0.559	GRD	
83	5.261	GRD	
84	8.442	GRD	
85	7.116	GRD	
86	0.53	GRD	
87	0.284	GRD	
87	0.284	GRD	
88	0.144	GRD	
89	0.143	GRD	
90	0.431	GRD	
91	0.17	GRD	
92	0.502	GRD	
93	0.134	GRD	
94	0.242	GRD	
95	0.245	GRD	
96	1.853	GRD	
97	7.475	GRD	
98	0.339	GRD	
99	0.45	GRD	
100	0.88	GRD	
101	0.55	GRD	
102	6.697	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
102	6.697	GRD	
103	10.2	GRD	
104	0.233	GRD	
104	0.233	GRD	
105	8.9	GRD	
106	1.17	GRD	
107	9.72	GRD	
108	0.188	GRD	
109	0.796	GRD	
110	0.74	GRD	
111	0.271	GRD	
112	0.419	GRD	
113	0.511	GRD	
114	2.533	GRD	
115	0.356	GRD	
116	0.893	GRD	
116	0.893	GRD	
117	0.237	GRD	
118	0.657	GRD	
119	19.22	GRD	
120	24.87	GRD	
121	20	GRD	
122	15.33	GRD	
123	18.55	GRD	
124	0.4	GRD	
125	18.5	GRD	
126	1.18	GRD	
127	2.59	GRD	
127	2.59	GRD	
128	14.5	GRD	
129	9.449	GRD	EOH

Depth (m)	Magnetic Susceptibility	Unit	Comments
129	9.449	GRD	EOH

KL -19-463

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W602883	☐	19-112	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602913	☐	19-114	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602930	☐	19-114	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602935	☐	19-114	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602947	☐	19-116	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602967	☐	19-116	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602975	☐	19-116	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602874	☐	19-112	low grade		☑	☐	☐
2.00	3.50	1.50	GRD, OVB	1.15	77	W602872	☐	19-112	low grade		☐	☐	☐
3.50	5.00	1.50	GRD	1.23	82	W602873	☐	19-112	low grade		☐	☐	☐
5.00	6.50	1.50	GRD	1.50	100	W602875	☐	19-112	low grade		☐	☐	☐
6.50	8.00	1.50	GRD	1.40	93	W602876	☐	19-112	low grade		☐	☐	☐
8.00	9.50	1.50	GRD	1.50	100	W602877	☐	19-112	low grade		☐	☐	☐
9.50	11.00	1.50	QFP	1.40	93	W602878	☐	19-112	low grade		☐	☐	☐
11.00	11.70	0.70	QFP	0.70	100	W602879	☐	19-112	low grade		☐	☐	☐
11.70	12.25	0.55	GRD, QFP	0.55	100	W602880	☐	19-112	low grade		☐	☐	☐
12.25	13.75	1.50	GRD	1.45	97	W602881	☐	19-112	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
13.75	15.25	1.50	GRD, GRD	1.40	93	W602882	☐	19-112	low grade		☐	☐	☐
15.25	16.75	1.50	GRD	1.45	97	W602884	☐	19-112	low grade		☐	☐	☐
16.75	18.25	1.50	GRD	1.50	100	W602885	☐	19-112	low grade		☐	☐	☐
18.25	19.75	1.50	GRD	1.48	99	W602886	☐	19-112	low grade		☐	☐	☐
19.75	21.25	1.50	GRD	1.42	95	W602887	☐	19-112	low grade		☐	☐	☐
19.75	21.25	1.50	GRD	1.42	95	W602888	☐	19-112	low grade		☐	☑	☐
21.25	22.75	1.50	GRD	1.50	100	W602889	☐	19-112	low grade		☐	☐	☐
22.75	24.25	1.50	GRD	1.42	95	W602890	☐	19-112	low grade		☐	☐	☐
24.25	25.52	1.27	GRD	1.25	98	W602891	☐	19-112	low grade		☐	☐	☐
25.52	27.00	1.48	GRD	1.48	100	W602892	☐	19-112	low grade		☐	☐	☐
27.00	28.50	1.50	GRD	1.45	97	W602893	☐	19-112	low grade		☐	☐	☐
28.50	30.00	1.50	GRD	1.50	100	W602894	☐	19-112	low grade		☐	☐	☐
28.50	30.00	1.50	GRD	1.50	100	W602895	☐	19-112	low grade		☐	☐	☑
30.00	31.50	1.50	GRD	1.48	99	W602896	☐	19-112	low grade		☐	☐	☐
31.50	33.00	1.50	GRD	1.50	100	W602897	☐	19-112	low grade		☐	☐	☐
33.00	34.40	1.40	GRD	1.38	99	W602898	☐	19-112	low grade		☐	☐	☐
34.40	35.00	0.60	GRD	0.60	100	W602899	☐	19-112	low grade		☐	☐	☐
35.00	36.41	1.41	GRD, GRD	1.40	99	W602900	☐	19-112	low grade		☐	☐	☐
36.41	37.91	1.50	GRD	1.50	100	W602901	☐	19-114	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
37.91	39.41	1.50	GRD	1.50	100	W602902	☐	19-114	low grade		☐	☐	☐
39.41	40.90	1.49	GRD	1.49	100	W602903	☐	19-114	low grade		☐	☐	☐
40.90	42.00	1.10	GRD	1.10	100	W602904	☐	19-114	low grade		☐	☐	☐
42.00	43.00	1.00	GRD, GRD	1.00	100	W602905	☐	19-114	low grade		☐	☐	☐
43.00	44.50	1.50	GRD, GRD	1.50	100	W602906	☐	19-114	low grade		☐	☐	☐
44.50	46.00	1.50	GRD	1.50	100	W602907	☐	19-114	low grade		☐	☐	☐
44.50	46.00	1.50	GRD	1.50	100	W602908	☐	19-114	low grade		☐	☐	☑
46.00	47.50	1.50	GRD	1.50	100	W602909	☐	19-114	low grade		☐	☐	☐
47.50	48.40	0.90	GRD	0.90	100	W602910	☐	19-114	low grade		☐	☐	☐
48.40	48.88	0.48	GRD	0.45	94	W599272	☐	19-113	high grade		☐	☐	☐
48.88	49.45	0.57	GRD	0.55	96	W602911	☐	19-114	low grade		☐	☐	☐
49.45	50.50	1.05	GRD	1.05	100	W602912	☐	19-114	low grade		☐	☐	☐
50.50	51.15	0.65	GRD	0.65	100	W602914	☐	19-114	low grade		☐	☐	☐
51.15	51.45	0.30	GRD	0.30	100	W599273	☐	19-113	high grade		☐	☐	☐
51.45	52.50	1.05	GRD	1.00	95	W602915	☐	19-114	low grade		☐	☐	☐
52.50	53.33	0.83	GRD	0.82	99	W602916	☐	19-114	low grade		☐	☐	☐
53.33	53.70	0.37	GRD	0.35	95	W599274	☐	19-113	high grade		☐	☐	☐
53.70	55.00	1.30	GRD	1.20	92	W602917	☐	19-114	low grade		☐	☐	☐
55.00	56.00	1.00	GRD, GRD	1.00	100	W602918	☐	19-114	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
56.00	57.00	1.00	GRD, GRD	1.00	100	W602919	☐	19-114	low grade		☐	☐	☐
57.00	58.50	1.50	GRD	1.50	100	W602920	☐	19-114	low grade		☐	☐	☐
58.50	60.00	1.50	GRD	1.50	100	W602921	☐	19-114	low grade		☐	☐	☐
58.50	60.00	1.50	GRD	1.50	100	W602922	☐	19-114	low grade		☐	☑	☐
60.00	60.70	0.70	GRD	0.70	100	W602923	☐	19-114	low grade		☐	☐	☐
60.70	61.08	0.38	GRD	0.35	92	W599275	☐	19-113	high grade		☐	☐	☐
61.08	61.75	0.67	GRD	0.65	97	W602924	☐	19-114	low grade		☐	☐	☐
61.75	62.05	0.30	GRD	0.30	100	W599276	☐	19-113	high grade		☐	☐	☐
62.05	63.00	0.95	GRD	0.95	100	W602925	☐	19-114	low grade		☐	☐	☐
63.00	64.00	1.00	GRD	1.00	100	W602926	☐	19-114	low grade		☐	☐	☐
64.00	65.50	1.50	GRD, GRD	1.50	100	W602927	☐	19-114	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W602928	☐	19-114	low grade		☐	☐	☐
67.00	68.50	1.50	GRD	1.50	100	W602929	☐	19-114	low grade		☐	☐	☐
68.50	70.00	1.50	GRD	1.50	100	W602931	☐	19-114	low grade		☐	☐	☐
70.00	71.50	1.50	GRD	1.50	100	W602932	☐	19-114	low grade		☐	☐	☐
71.50	73.00	1.50	GRD	1.50	100	W602933	☐	19-114	low grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.50	100	W602934	☐	19-114	low grade		☐	☐	☐
74.50	76.00	1.50	GRD	1.50	100	W602936	☐	19-114	low grade		☐	☐	☐
76.00	76.50	0.50	GRD	0.50	100	W602937	☐	19-114	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
76.50	77.20	0.70	GRD	0.70	100	W602938	☐	19-114	low grade		☐	☐	☐
77.20	78.50	1.30	GRD	1.25	96	W602939	☐	19-114	low grade		☐	☐	☐
78.50	80.00	1.50	GRD	1.50	100	W602940	☐	19-114	low grade		☐	☐	☐
80.00	80.30	0.30	GRD, GRD	0.30	100	W602941	☐	19-116	low grade		☐	☐	☐
80.30	81.80	1.50	GRD	1.50	100	W602942	☐	19-116	low grade		☐	☐	☐
81.80	82.30	0.50	GRD	0.50	100	W602943	☐	19-116	low grade		☐	☐	☐
82.30	82.80	0.50	GRD	0.50	100	W602944	☐	19-116	low grade		☐	☐	☐
82.80	84.00	1.20	GRD	1.20	100	W602945	☐	19-116	low grade		☐	☐	☐
84.00	85.50	1.50	GRD	1.50	100	W602946	☐	19-116	low grade		☐	☐	☐
85.50	87.00	1.50	GRD	1.50	100	W602948	☐	19-116	low grade		☐	☐	☐
87.00	88.50	1.50	GRD, GRD	1.50	100	W602949	☐	19-116	low grade		☐	☐	☐
88.50	90.00	1.50	GRD	1.50	100	W602950	☐	19-116	low grade		☐	☐	☐
90.00	91.50	1.50	GRD	1.50	100	W602951	☐	19-116	low grade		☐	☐	☐
91.50	93.00	1.50	GRD, GRD	1.50	100	W602952	☐	19-116	low grade		☐	☐	☐
91.50	93.00	1.50	GRD, GRD	1.50	100	W602953	☐	19-116	low grade		☐	☑	☐
93.00	94.50	1.50	GRD	1.50	100	W602954	☐	19-116	low grade		☐	☐	☐
94.50	96.00	1.50	GRD	1.50	100	W602955	☐	19-116	low grade		☐	☐	☐
96.00	97.50	1.50	GRD	1.50	100	W602956	☐	19-116	low grade		☐	☐	☐
97.50	98.50	1.00	GRD	1.00	100	W602957	☐	19-116	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
98.50	99.35	0.85	GRD	0.80	94	W602958	☐	19-116	low grade		☐	☐	☐
99.35	99.65	0.30	GRD	0.30	100	W599277	☐	19-113	high grade		☐	☐	☐
99.65	100.50	0.85	GRD	0.80	94	W602959	☐	19-116	low grade		☐	☐	☐
100.50	101.50	1.00	GRD	1.00	100	W602960	☐	19-116	low grade		☐	☐	☐
100.50	101.50	1.00	GRD	1.00	100	W602961	☐	19-116	low grade		☐	☐	☑
101.50	102.10	0.60	GRD	0.60	100	W602962	☐	19-116	low grade		☐	☐	☐
102.10	103.60	1.50	GRD	1.48	99	W602963	☐	19-116	low grade		☐	☐	☐
103.60	104.05	0.45	GRD	0.45	100	W602964	☐	19-116	low grade		☐	☐	☐
104.05	104.75	0.70	GRD	0.70	100	W599278	☐	19-113	high grade		☐	☐	☐
104.75	106.25	1.50	GRD	1.50	100	W602965	☐	19-116	low grade		☐	☐	☐
106.25	107.75	1.50	GRD	1.50	100	W602966	☐	19-116	low grade		☐	☐	☐
107.75	108.30	0.55	GRD	0.52	95	W602968	☐	19-116	low grade		☐	☐	☐
108.30	109.00	0.70	GRD	0.70	100	W602969	☐	19-116	low grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.50	100	W602970	☐	19-116	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.50	100	W602971	☐	19-116	low grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.15	77	W602972	☐	19-116	low grade		☐	☐	☐
113.50	115.00	1.50	GRD	1.50	100	W602973	☐	19-116	low grade		☐	☐	☐
115.00	116.50	1.50	GRD	1.50	100	W602974	☐	19-116	low grade		☐	☐	☐
116.50	118.00	1.50	GRD	1.50	100	W602976	☐	19-116	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
118.00	119.00	1.00	GRD	1.00	100	W602977	☐	19-116	low grade		☐	☐	☐
119.00	120.50	1.50	GRD	1.50	100	W602978	☐	19-116	low grade		☐	☐	☐
120.50	122.00	1.50	GRD	1.50	100	W602979	☐	19-116	low grade		☐	☐	☐
122.00	123.50	1.50	GRD	1.50	100	W602980	☐	19-116	low grade		☐	☐	☐
123.50	125.00	1.50	GRD	1.50	100	W602981	☐	19-117	lo grade		☐	☐	☐
125.00	126.50	1.50	GRD	1.50	100	W602982	☐	19-117	lo grade		☐	☐	☐
126.50	128.00	1.50	GRD	1.50	100	W602983	☐	19-117	lo grade		☐	☐	☐
128.00	129.54	1.54	GRD	1.50	97	W602984	☐	19-117	lo grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-112	W602874	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-112	W602883	0.00	0.00	1.70	70	☐	☐	☐	☑ KL-STD6	me6
19-114	W602913	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-114	W602930	0.00	0.00	1.76	500	☐	☐	☐	☑ KL-STD6	Klaza 6
19-114	W602935	0.00	0.00	1.63	240	☐	☐	☐	☑ KL-STD6	kl6
19-116	W602947	0.00	0.00	1.38	130	☐	☐	☐	☑ ME-16	ME-16
19-116	W602967	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
19-116	W602975	0.00	0.00	1.67	340	☐	☐	☐	☑ KL-STD6	kl6
19-112	W602872	2.00	3.50	0.06	1970	☐	☐	☐	☐	
19-112	W602873	3.50	5.00	0.13	1830	☐	☐	☐	☐	
19-112	W602875	5.00	6.50	0.25	1470	☐	☐	☐	☐	
19-112	W602876	6.50	8.00	0.07	1880	☐	☐	☐	☐	
19-112	W602877	8.00	9.50	0.08	1940	☐	☐	☐	☐	
19-112	W602878	9.50	11.00	0.02	1620	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-112	W602879	11.00	11.70	0.49	770	☐	☐	☐	☐	
19-112	W602880	11.70	12.25	0.60	660	☐	☐	☐	☐	
19-112	W602881	12.25	13.75	0.03	1710	☐	☐	☐	☐	
19-112	W602882	13.75	15.25	0.03	2390	☐	☐	☐	☐	
19-112	W602884	15.25	16.75	0.04	2750	☐	☐	☐	☐	
19-112	W602885	16.75	18.25	0.01	3050	☐	☐	☐	☐	
19-112	W602886	18.25	19.75	0.04	2450	☐	☐	☐	☐	
19-112	W602887	19.75	21.25	0.04	2300	☐	☐	☐	☐	
19-112	W602888	19.75	21.25	0.06	2220	☑	☐	☐	☐	14 dup
19-112	W602889	21.25	22.75	0.16	1790	☐	☐	☐	☐	
19-112	W602890	22.75	24.25	0.04	1870	☐	☐	☐	☐	
19-112	W602891	24.25	25.52	0.04	2460	☐	☐	☐	☐	
19-112	W602892	25.52	27.00	0.01	2440	☐	☐	☐	☐	
19-112	W602893	27.00	28.50	0.01	1790	☐	☐	☐	☐	
19-112	W602894	28.50	30.00	0.02	1560	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-112	W602895	28.50	30.00	0.03	1570	☐	☑	☐	☐	coarse dup
19-112	W602896	30.00	31.50	0.01	1950	☐	☐	☐	☐	
19-112	W602897	31.50	33.00	0.03	2090	☐	☐	☐	☐	
19-112	W602898	33.00	34.40	0.05	2190	☐	☐	☐	☐	
19-112	W602899	34.40	35.00	0.10	1260	☐	☐	☐	☐	
19-112	W602900	35.00	36.41	0.04	2130	☐	☐	☐	☐	
19-114	W602901	36.41	37.91	0.01	2020	☐	☐	☐	☐	
19-114	W602902	37.91	39.41	0.01	2250	☐	☐	☐	☐	
19-114	W602903	39.41	40.90	0.01	1900	☐	☐	☐	☐	
19-114	W602904	40.90	42.00	0.01	2200	☐	☐	☐	☐	
19-114	W602905	42.00	43.00	0.20	2010	☐	☐	☐	☐	
19-114	W602906	43.00	44.50	3.38	750	☐	☐	☐	☐	
19-114	W602907	44.50	46.00	0.03	2100	☐	☐	☐	☐	
19-114	W602908	44.50	46.00	0.03	2290	☐	☑	☐	☐	coarse dup
19-114	W602909	46.00	47.50	0.08	2090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-114	W602910	47.50	48.40	0.03	1940	☐	☐	☐	☐	
19-113	W599272	48.40	48.88	0.55	100	☐	☐	☐	☐	hi garde
19-114	W602911	48.88	49.45	0.18	150	☐	☐	☐	☐	
19-114	W602912	49.45	50.50	0.04	1230	☐	☐	☐	☐	
19-114	W602914	50.50	51.15	0.16	1030	☐	☐	☐	☐	
19-113	W599273	51.15	51.45	13.30	30	☐	☐	☐	☐	hi g
19-114	W602915	51.45	52.50	0.16	210	☐	☐	☐	☐	
19-114	W602916	52.50	53.33	0.14	390	☐	☐	☐	☐	
19-113	W599274	53.33	53.70	1.93	120	☐	☐	☐	☐	hi g
19-114	W602917	53.70	55.00	0.28	140	☐	☐	☐	☐	
19-114	W602918	55.00	56.00	0.06	1430	☐	☐	☐	☐	
19-114	W602919	56.00	57.00	0.10	920	☐	☐	☐	☐	
19-114	W602920	57.00	58.50	0.05	2130	☐	☐	☐	☐	
19-114	W602921	58.50	60.00	0.01	2290	☐	☐	☐	☐	
19-114	W602922	58.50	60.00	0.01	2350	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-114	W602923	60.00	60.70	0.24	180	☐	☐	☐	☐	
19-113	W599275	60.70	61.08	0.19	190	☐	☐	☐	☐	
19-114	W602924	61.08	61.75	0.31	130	☐	☐	☐	☐	
19-113	W599276	61.75	62.05	1.02	330	☐	☐	☐	☐	
19-114	W602925	62.05	63.00	0.02	2020	☐	☐	☐	☐	
19-114	W602926	63.00	64.00	0.01	1920	☐	☐	☐	☐	
19-114	W602927	64.00	65.50	0.01	2510	☐	☐	☐	☐	
19-114	W602928	65.50	67.00	0.03	2440	☐	☐	☐	☐	
19-114	W602929	67.00	68.50	0.06	2040	☐	☐	☐	☐	
19-114	W602931	68.50	70.00	0.04	1900	☐	☐	☐	☐	
19-114	W602932	70.00	71.50	0.01	2320	☐	☐	☐	☐	
19-114	W602933	71.50	73.00	0.09	1720	☐	☐	☐	☐	
19-114	W602934	73.00	74.50	0.02	2060	☐	☐	☐	☐	
19-114	W602936	74.50	76.00	0.04	1710	☐	☐	☐	☐	
19-114	W602937	76.00	76.50	0.06	1150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-114	W602938	76.50	77.20	0.09	1410	☐	☐	☐	☐	
19-114	W602939	77.20	78.50	0.03	1500	☐	☐	☐	☐	
19-114	W602940	78.50	80.00	0.10	2250	☐	☐	☐	☐	
19-116	W602941	80.00	80.30	19.05	320	☐	☐	☐	☐	
19-116	W602942	80.30	81.80	0.04	2100	☐	☐	☐	☐	
19-116	W602943	81.80	82.30	0.11	1790	☐	☐	☐	☐	
19-116	W602944	82.30	82.80	0.99	540	☐	☐	☐	☐	
19-116	W602945	82.80	84.00	0.17	2020	☐	☐	☐	☐	
19-116	W602946	84.00	85.50	0.12	2300	☐	☐	☐	☐	
19-116	W602948	85.50	87.00	0.16	770	☐	☐	☐	☐	
19-116	W602949	87.00	88.50	0.08	3840	☐	☐	☐	☐	
19-116	W602950	88.50	90.00	0.17	1670	☐	☐	☐	☐	
19-116	W602951	90.00	91.50	0.12	1590	☐	☐	☐	☐	
19-116	W602952	91.50	93.00	0.14	1550	☐	☐	☐	☐	
19-116	W602953	91.50	93.00	0.09	1500	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-116	W602954	93.00	94.50	0.06	1260	☐	☐	☐	☐	
19-116	W602955	94.50	96.00	0.03	680	☐	☐	☐	☐	
19-116	W602956	96.00	97.50	0.03	2860	☐	☐	☐	☐	
19-116	W602957	97.50	98.50	0.05	800	☐	☐	☐	☐	
19-116	W602958	98.50	99.35	0.03	1730	☐	☐	☐	☐	
19-113	W599277	99.35	99.65	2.05	90	☐	☐	☐	☐	hi grade
19-116	W602959	99.65	100.50	0.03	1740	☐	☐	☐	☐	
19-116	W602960	100.50	101.50	0.13	1110	☐	☐	☐	☐	
19-116	W602961	100.50	101.50	0.10	1110	☐	☑	☐	☐	coarse up
19-116	W602962	101.50	102.10	0.07	770	☐	☐	☐	☐	
19-116	W602963	102.10	103.60	0.01	2220	☐	☐	☐	☐	
19-116	W602964	103.60	104.05	0.10	380	☐	☐	☐	☐	
19-113	W599278	104.05	104.75	1.91	40	☐	☐	☐	☐	hi g
19-116	W602965	104.75	106.25	0.94	1980	☐	☐	☐	☐	
19-116	W602966	106.25	107.75	0.09	1630	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-116	W602968	107.75	108.30	0.28	130	☐	☐	☐	☐	
19-116	W602969	108.30	109.00	1.11	250	☐	☐	☐	☐	
19-116	W602970	109.00	110.50	0.03	2510	☐	☐	☐	☐	
19-116	W602971	110.50	112.00	0.03	1700	☐	☐	☐	☐	
19-116	W602972	112.00	113.50	0.03	2020	☐	☐	☐	☐	
19-116	W602973	113.50	115.00	0.26	160	☐	☐	☐	☐	
19-116	W602974	115.00	116.50	0.03	2070	☐	☐	☐	☐	
19-116	W602976	116.50	118.00	0.02	1190	☐	☐	☐	☐	
19-116	W602977	118.00	119.00	0.01	1670	☐	☐	☐	☐	
19-116	W602978	119.00	120.50	0.01	2350	☐	☐	☐	☐	
19-116	W602979	120.50	122.00	0.00	2160	☐	☐	☐	☐	
19-116	W602980	122.00	123.50	0.01	2120	☐	☐	☐	☐	
19-117	W602981	123.50	125.00	0.01	2150	☐	☐	☐	☐	
19-117	W602982	125.00	126.50	0.02	1980	☐	☐	☐	☐	
19-117	W602983	126.50	128.00	0.01	2230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-117	W602984	128.00	129.54	0.02	2310	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
32.30	32.50	ST		80	NUL	2	pyrite bearing quartz veinlets (2)			
								Py	0.5	DI
42.00	42.02	VT	37	80	NUL	1	pyrite bearing quartz veinlet			
								Py	1	DI
43.47	43.50	VT	37	30	NUL	1	pyrite bearing quartz veinlet			
								Py	50	DI
48.48	48.80	ST		30	NUL	1	semimassive pyrite zone, within heavily silicified granodioirte			
								Py	50	DI
48.85	50.20	ST		70	NUL	20	sporadic stockwork of pyrite veinlets in silicified granodioirte			
								Py	10	DI
51.21	51.33	VN	37	70	NUL	1	semimassive pyritic quartz vein with feingrained galena			
								Py	25	DI
								Gn	1	DI
54.00	55.00	ST		70	NUL	3	pyrite bearing quartz veinlets			
								Py	0.5	DI
56.00	57.00	ST		70	NUL	4	four small pyrite bearing quartz veinlets			
								Py	1	DI
61.00	61.70	ST		30	NUL	2	two massive pyrite veins, 1 cm wide, within silicified granodioitre			
								Py	10	MA
61.74	61.79	VN	37	30	NUL	1	massive pyrite vein 3 cm wide			
								Py	100	MA
61.84	61.91	VN	37	30	NUL	1	massive pyrite vein, 4 cm wide			
								Py	100	MA
63.00	64.00	ST		70	NUL	5	pyrite bearing quartz stringers			
								Py	1	DI
65.50	66.00	ST		80	NUL	2	pyrite bearing quartz veinlets with trace sphalerite			
								Sp	0.1	DI
								Py	1	DI
67.50	68.00	ST		70	NUL	3	pyrite bearing quartz veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2	DI
72.75	72.90	FT	42	40	NUL	1	brecciated gouged granodioirte, sharp upper and lower contact			
	72.80	FT	42	40	NUL	1	gouged, breciiated granodioirte sharp upper and loewr contact			
80.05	80.08	VT	37	80	NUL	1	pyrite bearing quartz venlet			
								Py	10	DI
82.00	82.50	ST		60	NUL	3	pyrite bearing quartz venlets			
								Py	1	DI
91.00	104.00	ST		70	NUL	50	pyrite bearing quartz stringers			
								Py	1	DI
104.15	104.50	ST		80	NUL	2	semimassive pyrite veinlets 4 cm wide with sphaleire and galena on outer margin			
								Gn	1	DI
								Sp	1	DI
								Py	15	DI
104.50	110.50	ST		70	NUL	10	pyrite bearing quartz veinlet			
								Py	1	DI
116.00	117.00	ST		70	NUL	6	pyrite bearing quartz veinlets			
								Py	1	DI
118.00	118.87	ST		70	NUL	6	pyrite bearing quartz stringers			
								Py	1	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382940	6889279	1466.156	140.21

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-464

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 30 - Oct 01, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
5	148.56	-49.7	Reflex
140	39.76	-49.1	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.3	1.3	OVB
1.3	3	1.7	OVB
3	6.1	3.1	GRD
6.1	10	3.9	GRD
10	10.5	0.5	GRD
10.5	11.9	1.4	GRD
11.9	11.98	0.08	VEN
11.98	17.42	5.44	GRD
17.42	18.5	1.08	GRD
18.5	22.8	4.3	GRD
22.8	26.5	3.7	GRD
26.5	27.9	1.4	GRD
27.9	28.4	0.5	VEN
28.4	30.3	1.9	GRD
30.3	33.1	2.8	GRD
33.1	33.53	0.43	GRD

SAMPLES	
Numbers:	W591701, W595801 to W595906, W599279 to W599280, W599284 to W599286, W602985 to W603000
Total:	128
Batch:	113, 117, 118, 120, 121
Certificates:	WH19255744, WH19255747, WH19255752, WH19255763, WH19255769

COMMENTS

33.53	39	5.47	GRD
39	40.5	1.5	GRD
40.5	44	3.5	GRD
44	45.72	1.72	GRD
45.72	48	2.28	GRD
48	48.5	0.5	GRD
48.5	50	1.5	GRD
50	51.25	1.25	GRD
51.25	51.82	0.57	GRD
51.82	55.5	3.68	GRD
55.5	57	1.5	GRD
57	62.25	5.25	GRD
62.25	62.85	0.6	GRD
62.85	63.05	0.2	VEN
63.05	64.37	1.32	GRD
64.37	64.57	0.2	VEN
64.57	67	2.43	GRD
67	68	1	GRD
68	68.72	0.72	GRD
68.72	68.92	0.2	APL
68.92	70.3	1.38	GRD
70.3	74.3	4	GRD
74.3	77	2.7	GRD
77	84.3	7.3	GRD
84.3	85.7	1.4	GRD
85.7	86.5	0.8	GRD
86.5	91	4.5	GRD
91	91.44	0.44	GRD
91.44	91.7	0.26	VEN
91.7	93.42	1.72	GRD
93.42	93.55	0.13	VEN
93.55	98.5	4.95	GRD

98.5	101.23	2.73	GRD
101.23	102	0.77	GRD
102	103.4	1.4	GRD
103.4	105.25	1.85	GRD
105.25	106.68	1.43	GRD
106.68	111.75	5.07	GRD
111.75	115.2	3.45	GRD
115.2	120.25	5.05	GRD
120.25	121.3	1.05	GRD
121.3	122	0.7	GRD
122	123	1	GRD
123	124.2	1.2	GRD
124.2	125.05	0.85	GRD
125.05	126.75	1.7	GRD
126.75	127.25	0.5	VEN
127.25	128	0.75	GRD
128	131.5	3.5	GRD
131.5	132	0.5	GRD
132	133	1	GRD
133	134.2	1.2	GRD
134.2	140.21	6.01	GRD

Box Log

KL -19-464

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.3	5.7
2	5.7	9.28
3	9.28	13.07
4	13.07	17.42
5	17.42	21.23
6	21.23	24.89
7	24.89	28.63
8	28.63	32.86
9	32.86	37.12
10	37.12	41.28
11	41.28	45.47
12	45.47	49.5
13	49.5	53.82
14	53.82	58.03
15	58.03	62.25
16	62.25	66.36
17	66.36	70.68
18	70.68	75
19	75	79.39
20	79.39	83.51
21	83.51	87.75
22	87.75	91.95
23	91.95	96.12
24	96.12	100.19
25	100.19	104.26
26	104.26	108.25
27	108.25	112.72
28	112.72	116.82
29	116.82	121
30	121	125.37
31	125.37	129.66
32	129.66	133.47
33	133.47	137.9
34	137.9	140.21

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-464									
	28.22	9	NTW	VEN	1028.1	772.3	4.04	4.0	
	62.92	12	NTW	VEN	880.7	578.5	2.6	2.9	
	91.53	12	NTW	VEN	1049.1	710.5	3.09	3.1	
	126.92	10	NTW	VEN	809	548.8	2.86	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	OVB	--	overbudrne							
1.30	3.00	1.70	OVB	--	overburden and soil							
						MD	BN					
3.00	6.10	3.10	GRD	MG	oxidized, rubbly to gouged granodioirte							
						MD	BN		OXI	3I		
						LT	BN		BLE	2I		
6.10	10.00	3.90	GRD	MG	trace pervasively silicifife d, oxidized on frx surfaces, bleached granodioirte with weak propylitic alteration							
						MD	GY		SIL	1I		
						MD	GN		OXI	2I		
						MD	BN		PRO	2I		
									BLE	2I		
10.00	10.50	0.50	GRD	MG	gouged granodioirte, light whiteish grey							
						LT	WH					
						LT	GY					
10.50	11.90	1.40	GRD	MG	weakly bleached and oxidized granodiorte with trace pyrite stringers							
						MD	BN		SIL	1I	Py	0.1
									OXI	2I		
									BLE	2I		
11.90	11.98	0.08	VEN	MG	vein trending 80 TCA with gouge on upper and lower contact, has weak pyrite within							
						LT	WH		SIL	5I	Py	0.5
									CLY	5I		
11.98	17.42	5.44	GRD	MG	weakly oxidized, patchily silicified and propylitic altered granodiorite with oxidative staining pervaisve thorughout							
						MD	GY		BLE	2I		
						MD	BN		OXI	2I		
						LT	BN		SIL	1I		
17.42	18.50	1.08	GRD	MG	silicified, propylitic altered grd with dissemianted pyrite							
						MD	GY		SIL	2I		
						LT	GY		PRO	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.50	22.80	4.30	GRD	MG	oxidized, moderately arillic altered granodioirte with bleaching and ox staining, fractures and framgental							
						MD	GY		BLE	2I		
						MD	BN		OXI	2I		
									ARG	2I		
22.80	26.50	3.70	GRD	MG	unalterd granodioirte							
						MD	GY					
26.50	27.90	1.40	GRD	MG	silicifed, oxidized granodioirte with ox staining throughout							
						MD	BN		OXI	3I		
									SIL	1I		
27.90	28.40	0.50	VEN	MG	banded semimassive pyrite +- sphal +- galena trending 60 TCA with a harp upper and lower contact . One small 5 cm section has a weak brecciated textures							
						MD	GY				Gn	2
						LT	WH				Sp	1
						DK	GY		SIL	5I	Py	15
28.40	30.30	1.90	GRD	MG	weakly oxidized and trace propylitic altered grandioirtr							
						MD	BN		PRO	1I		
						MD	GY		SIL	1I		
30.30	33.10	2.80	GRD	MG	unaltered granodioirte							
						MD	GY					
33.10	33.53	0.43	GRD	MG	propylitic altered granodiorte							
						MD	GY					
						MD	GN		PRO	2I		
33.53	39.00	5.47	GRD	MG	unaltered granodioirte							
						MD	GY					
39.00	40.50	1.50	GRD	MG	weakly clay altered and argillic altered granodioirte							
						MD	GN		CLY	2I		
						MD	BN		ARG	2I		
						LT	GY		OXI	1I		
40.50	44.00	3.50	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.00	45.72	1.72	GRD	MG	moderatel propylitic altered granodiooitrr							
						MD	GN		PRO	3I		
						MD	GY					
45.72	48.00	2.28	GRD	MG	moderately proplitic altered granodiorite with patch silicification							
						MD	GN		PRO	3I		
						MD	GY					
48.00	48.50	0.50	GRD	MG	silicified and porpylitic altered grd with 2 py bearing veinlets 80 TCA							
						LT	GN		SIL	3I		
						LT	GY		PRO	3I	Py	1
48.50	50.00	1.50	GRD	MG	moderately argillic and weak propylitic altered granodiorite							
						LT	GN		ARG	3I		
						LT	GY		SIL	1I		
									PRO	2I		
50.00	51.25	1.25	GRD	MG	moderately argillic altered granodioirte							
						LT	GY		ARG	3I		
						LT	GN					
51.25	51.82	0.57	GRD	MG	weakly pervasively clay alterd, potentially faulted interval of grd							
						LT	GN		CLY	4I		
						LT	GY					
51.82	55.50	3.68	GRD	MG	moderately propylitic and weakl argillic altered granodioirte with wea pervaisve silicification							
						MD	GY		PRO	3I		
						LT	GN		SIL	2I		
						LT	GY					
55.50	57.00	1.50	GRD	MG	oddly coloured, dark reddish green to medium green, almost brecciated looking granodiorte.							
						MD	GN		SIL	3I		
						MD	RD					
57.00	62.25	5.25	GRD	MG	patchily proplitic, pervasively trace silicified, and patchy argillic altered granodioirte with weak stockwork dark grey stringers without sulfide							
						MD	GY		SIL	3I		
						MD	GN		PRO	3I		
						DK	GY		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
62.25	62.85	0.60	GRD	MG	strongly silicified granodioirte with dissemianted prite in groundmass							
						MD	GY		SIL	3I	Py	1
62.85	63.05	0.20	VEN	MG	80 TCA trending semimassive pyrite quartz vein, with two bounding milky quartz veins 2 cm wide, and a opaque quartz section in the middle. Small hairline fracutres extend throughout, and there is disseminated patchy pyrite thorughout entire sample							
						LT	GY					
						LT	WH		SIL	5I	Py	15
63.05	64.37	1.32	GRD	MG	strongly silicified, propylitic altered granodioirte with dissem py in groundmass							
						MD	GY		PRO	4I	Py	1
						MD	GN		SIL	3I		
64.37	64.57	0.20	VEN	MG	brecciated quartz vein with trace pyrite along bands trending 80 TCA. Gouged upper contact in same orienation							
						MD	GY		SIL	4I		
						LT	BN		PRO	2I	Py	5
						LT	GY		CLY	3I		
64.57	67.00	2.43	GRD	MG	weakly propylitic altered granodioirte with trace sulfide barren strginers							
						MD	GN		PRO	2I		
67.00	68.00	1.00	GRD	MG	unaltered granodioirte							
68.00	68.72	0.72	GRD	MG	moderately propylitic altered granodioirte							
						MD	GN		PRO	3I		
						MD	GN					
68.72	68.92	0.20	APL	FG	finegraeind pinkish brown aplite dyke trending 70 TCA							
						LT	BN					
						LT	PK					
68.92	70.30	1.38	GRD	MG	moderately propylitic altered granodioirte							
						MD	GN		PRO	2I		
						MD	GY					
70.30	74.30	4.00	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
74.30	77.00	2.70	GRD	MG	weakly propylitic and weakly argillic altered granodioirt							
						MD	GY		PRO	2I		
						MD	GN		ARG	2I		
77.00	84.30	7.30	GRD	MG	unaltered granodioirte							
						MD	GY					
84.30	85.70	1.40	GRD	MG	strongly silicified, strongly proplitic altered granodioirte with two pyrite bearing veins trending 80 TCA; one is 2 cm wide, the other is 1 cm wide.							
						MD	GN		SIL	3I	Py	10
									PRO	4I		
85.70	86.50	0.80	GRD	MG	unaltered granodioirte							
						MD	GY					
86.50	91.00	4.50	GRD	MG	pervasively silicified granodiorite with patchy propylitic alteration							
						MD	GN		SIL	3I		
						LT	GN					
						LT	GY		PRO	3I		
91.00	91.44	0.44	GRD	MG	strongly propylitic altered granodorite with weak dissemianted pyrite within							
						MD	GN		PRO	4I	Py	0.5
91.44	91.70	0.26	VEN	MG	semimassive pyrite quartz vein with banded blebby pyrite, trace arsenopyrite, and trace galena and sphalerite. Sharp upper and lower contact trending 70 TCA							
						LT	GY		SIL	5I	Sp	0.5
						LT	WH				Py	15
											As	0.1
											Gn	0.5
91.70	93.42	1.72	GRD	MG	propylitic and silicified granodioirte with weak dissem py and py stringers 80 TCA thorughout							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	3I		
93.42	93.55	0.13	VEN	MG	banded quartz with weak rhodochrosite vein, with trace blebby pyrite and weak colloform texture. Trends 70 TCA							
						LT	WH		SIL	4I	Py	1
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
93.55	98.50	4.95	GRD	MG	moderately silicified and propylitic altered granodioirte with weak 70 TCA stringers barren of sulfide							
						MD	GN		PRO	1I		
						MD	GY					
98.50	101.23	2.73	GRD	MG	unaltered granodioirte							
						MD	GY					
101.23	102.00	0.77	GRD	MG	moderately silicified and propylitic atered granodiorite with 2 veinlets 1 cm wide with pyrite							
						MD	GY		SIL	2I	Py	1
						MD	GN		PRO	3I		
102.00	103.40	1.40	GRD	MG	faulted, fracuted granodioirte that is relatively unaltered besides numerous fractures							
						MD	GY					
103.40	105.25	1.85	GRD	MG	unaltered granodioirte							
105.25	106.68	1.43	GRD	MG	moderately silicified and propylitic altered granodiorite with one 5 cm section of weakl cuggy 70 TCA veins, with weak pyrite. Pyrite is dissem throughout							
						MD	GN		SIL	3I		
						MD	GY		PRO	3I	Py	1
106.68	111.75	5.07	GRD	MG	unaltered granodioirte							
						MD	GY					
111.75	115.20	3.45	GRD	MG	weakly propylitic and fractured granodiorite with low angele fractures that are carbonate filled							
						MD	GN		PRO	1I		
						MD	GY					
115.20	120.25	5.05	GRD	MG	moderately propylitic and argillic altered granodioirte with 60 TCA quartz strigners with no sulfide							
						LT	GN		ARG	3I		
						LT	GY		PRO	1I		
120.25	121.30	1.05	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
121.30	122.00	0.70	GRD	MG	Silicified and propylitic altered granodioirte with 30 TCA quartz veinlets with no sulfide							
						MD	GN		SIL	3I		
						LT	GY					
						LT	GN		PRO	3I		
122.00	123.00	1.00	GRD	MG	unaltered granodioirte							
						MD	GY					
123.00	124.20	1.20	GRD	MG	silicified and wekaly propylitic an argillic altered granodioirte							
						MD	GY		SIL	2I		
						MD	GN		ARG	2I		
									PRO	2I		
124.20	125.05	0.85	GRD	MG	unaltered granodioirte							
						MD	GY					
125.05	126.75	1.70	GRD	MG	moderately silicified and propylitic and argillic altered granodioirte with pyrite bearing quartz stinger veinlets 80 TCA							
						LT	GN		SIL	4I	Py	5
						LT	GY		PRO	3I		
									ARG	3I		
126.75	127.25	0.50	VEN	MG	70 TCA upper and lower contact, quartz carbonate vein with semimassive sulfide mineralization. Banded pyrite, with lesser galena and sphalerite, and trace arsenopyrite and chalcopyrite. Banded texture for upper 30 cm of vein, and lower portion of vein is brecciated in nature. Bounded by heavily silicified and propylitic altered granodioirte with disseminated pyrite thorguhout as well as pyrite bearing stringers							
						LT	GY		SIL	5I	As	0.5
						LT	WH				Py	10
											Sp	1
											Gn	1
127.25	128.00	0.75	GRD	MG	silicified and propyltiic altered granodioirtw tih weak disseminated pyrite throughout groundmass							
						LT	GY		SIL	3I	Py	1
						LT	GN		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
128.00	131.50	3.50	GRD	MG	strongly argillic and clay altered granodioirte, likely represent a fault, which means the vein above is a hanging wall vein.							
						LT	WH		PRO	2I		
						LT	GY		CLY	3I		
						LT	GN		ARG	4I		
131.50	132.00	0.50	GRD	MG	silicified and porpylitic altered portion of grano with dissem py							
						MD	GY		SIL	3I	Py	1
						MD	GN		PRO	2I		
132.00	133.00	1.00	GRD	MG	unaltered granodiorte							
						MD	GY					
133.00	134.20	1.20	GRD	MG	moderately propylitic and silicified, weakly patchy argillic altered granodioirte with one 30 TCA rhodochrosite veinlet. No sulfide							
						MD	GN		PRO	3I		
						MD	GY		ARG	2I		
						LT	GY		SIL	3I		
134.20	140.21	6.01	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.30	1.30	OVB	OVB	--	overbudrne
1.30	3.00	1.70	OVB	OVB	--	overburden and soil
3.00	6.10	3.10	GRD	GRDA	MG	oxidized, rubbly to gouged granodioirte
6.10	10.00	3.90	GRD	GRDA	MG	trace pervasively silicifife, oxidized on frx surfaces, bleached granodioirte with weak propylitic alteration
10.00	10.50	0.50	GRD	GRDF	MG	gouged granodioirte, light whiteish grey
10.50	11.90	1.40	GRD	GRDA	MG	weakly bleached and oxidized granodiorte with trace pyrite stringers
11.90	11.98	0.08	VEN	VEIN	MG	vein trending 80 TCA with gouge on upper and lower contact, has weak pyrite within
11.98	17.42	5.44	GRD	GRDA	MG	weakly oxidized, patchily silicified and propylitic altered granodiorite with oxidative staining pervaisve thorughout
17.42	18.50	1.08	GRD	GRDM	MG	silicified, propylitic altered grd with dissemianted pyrite
18.50	22.80	4.30	GRD	GRDA	MG	oxidized, moderately arillic altered granodioirte with bleaching and ox staining, fractures and framgental
22.80	26.50	3.70	GRD	GRD	MG	unalterd granodioirte
26.50	27.90	1.40	GRD	GRDA	MG	silicifed, oxidized granodioirte with ox staining throughout
27.90	28.40	0.50	VEN	VEIN	MG	banded semimassive pyrite +- sphal +- galena trending 60 TCA with a harp upper and lower contact . One small 5 cm section has a weak brecciated textures
28.40	30.30	1.90	GRD	GRDA	MG	weakly oxidized and trace propylitic altered grandioirtr
30.30	33.10	2.80	GRD	GRD	MG	unaltered granodioirte
33.10	33.53	0.43	GRD	GRDA	MG	propylitic altered granodiorte
33.53	39.00	5.47	GRD	GRD	MG	unaltered granodioirte
39.00	40.50	1.50	GRD	GRDA	MG	weakly clay altered and argillic altered granodioirte
40.50	44.00	3.50	GRD	GRD	MG	unaltered granodioirte
44.00	45.72	1.72	GRD	GRDA	MG	moderatel propylitic altered granodiooitrr
45.72	48.00	2.28	GRD	GRDA	MG	moderately proplitic altered granodiorite with patch silicification

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
48.00	48.50	0.50	GRD	GRDM	MG	silicified and porpylitic altered grd with 2 py bearing veinlets 80 TCA
48.50	50.00	1.50	GRD	GRDA	MG	moderately argillic and weak propylitic altered granodiorite
50.00	51.25	1.25	GRD	GRDA	MG	moderately argillic altered granodioirte
51.25	51.82	0.57	GRD	GRDF	MG	weakly pervasively clay alterd, potentially faulted interval of grd
51.82	55.50	3.68	GRD	GRDA	MG	moderately propylitic and weakl argillic altered granodioirte with wea pervaisve silicification
55.50	57.00	1.50	GRD	GRDA	MG	oddly coloured, dark reddish green to medium green, almost brecciated looking granodiorte.
57.00	62.25	5.25	GRD	GRDA	MG	patchily proplitic, pervasively trace silicified, and patchy argillic altered granodioirte with weak stockwork dark grey stringers without sulfide
62.25	62.85	0.60	GRD	GRDM	MG	strongly silicified granodioirte with dissemianted prite in groundmass
62.85	63.05	0.20	VEN	VEIN	MG	80 TCA trending semimassive pyrite quartz vein, with two bounding milky quartz veins 2 cm wide, and a opaque quartz section in the middle. Small hairline fracutres extend throughout, and there is disseminated patchy pyrite thorughout entire sample
63.05	64.37	1.32	GRD	GRDM	MG	strongly silicified, propylitic altered granodioirte with dissem py in groundmass
64.37	64.57	0.20	VEN	VEIN	MG	brecciated quartz vein with trace pyrite along bands trending 80 TCA. Gouged upper contact in same orienation
64.57	67.00	2.43	GRD	GRDA	MG	weakly propylitic altered granodioirte with trace sulfide barren strginers
67.00	68.00	1.00	GRD	GRD	MG	unaltered granodioirte
68.00	68.72	0.72	GRD	GRDA	MG	moderately propylitic altered granodioirte
68.72	68.92	0.20	APL	DYK	FG	finegraeind pinkish brown aplite dyke trending 70 TCA
68.92	70.30	1.38	GRD	GRDA	MG	moderately propylitic altered granodioirte
70.30	74.30	4.00	GRD	GRD	MG	unaltered granodioirte
74.30	77.00	2.70	GRD	GRDA	MG	weakly propylitic and weakly argillic altered granodioirt
77.00	84.30	7.30	GRD	GRD	MG	unaltered granodioirte
84.30	85.70	1.40	GRD	GRDM	MG	strongly silicified, strongly proplitic altered granodioirte with two pyrite bearing veins trending 80 TCA; one is 2 cm wide, the other is 1 cm wide.
85.70	86.50	0.80	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
86.50	91.00	4.50	GRD	GRDA	MG	pervasively silicified granodiorite with patchy propylitic alteration
91.00	91.44	0.44	GRD	GRDM	MG	strongly propylitic altered granodorite with weak dissemianted pyrite within
91.44	91.70	0.26	VEN	VEIN	MG	semimassive pyrite quartz vein with banded blebby pyrite, trace arsenopyrite, and trace galena and sphalerite. Sharp upper and lower contact trending 70 TCA
91.70	93.42	1.72	GRD	GRDM	MG	propylitic and silicified granodioirte with weak dissem py and py stringers 80 TCA thorughout
93.42	93.55	0.13	VEN	VEIN	MG	banded quartz with weak rhodochrosite vein, with trace blebby pyrite and weak colloform texture. Trends 70 TCA
93.55	98.50	4.95	GRD	GRDA	MG	moderately silicified and propylitic altered granodioirte with weak 70 TCA stringers barren of sulfide
98.50	101.23	2.73	GRD	GRD	MG	unaltered granodioirte
101.23	102.00	0.77	GRD	GRDM	MG	moderately silicified and propylitic atered granodiorite with 2 veinlets 1 cm wide with pyrite
102.00	103.40	1.40	GRD	GRDF	MG	faulted, fracuted granodioirte that is relatively unaltered besides numerous fractures
103.40	105.25	1.85	GRD	GRD	MG	unaltered granodioirte
105.25	106.68	1.43	GRD	GRDM	MG	moderately silicified and propylitic altered granodiorite with one 5 cm section of weakl cuggy 70 TCA veins, with weak pyrite. Pyrite is dissem throughout
106.68	111.75	5.07	GRD	GRD	MG	unaltered granodioirte
111.75	115.20	3.45	GRD	GRDA	MG	weakly propylitic and fractured granodiorite with low angele fractures that are carbonate filled
115.20	120.25	5.05	GRD	GRDA	MG	moderately propylitic and argillic altered granodioirte with 60 TCA quartz strigners with no sulfide
120.25	121.30	1.05	GRD	GRD	MG	unaltered granodioirte
121.30	122.00	0.70	GRD	GRDA	MG	Silicified and propylitic altered granodioirte with 30 TCA quartz veinlets with no sulfide
122.00	123.00	1.00	GRD	GRD	MG	unaltered granodioirte
123.00	124.20	1.20	GRD	GRDA	MG	silicified and wekaly propylitic an argillic altered granodioirte
124.20	125.05	0.85	GRD	GRD	MG	unaltered granodioirte
125.05	126.75	1.70	GRD	GRDM	MG	moderately silicified and propylitic and argillic altered granodioirte with pyrite bearing quartz stinger veinlets 80 TCA

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
126.75	127.25	0.50	VEN	VEIN	MG	70 TCA upper and lower contact, quartz carbonate vein with semimassive sulfide mineralization. Banded pyrite, with lesser galena and sphalerite, and trace arsenopyrite and chalcopyrite. Banded texture for upper 30 cm of vein, and lower portion of vein is brecciated in nature. Bounded by heavily silicified and propylitic altered granodioirte with disseminated pyrite thorguhout as well as pyrite bearing stringers
127.25	128.00	0.75	GRD	GRDM	MG	silicified and propyltiic altered granodioirtw tih weak disseminated pyrite throughout groundmass
128.00	131.50	3.50	GRD	GRDA	MG	strongly argillic and clay altered granodioirte, likely represent a fault, which means the vein above is a hanging wall vein.
131.50	132.00	0.50	GRD	GRDM	MG	silicified and porpylitic altered portion of grano with dissem py
132.00	133.00	1.00	GRD	GRD	MG	unaltered granodiorte
133.00	134.20	1.20	GRD	GRDA	MG	moderately propylitic and silicified, weakly patchy argillic altered granodioirte with one 30 TCA rhodochrosite veinlet. No sulfide
134.20	140.21	6.01	GRD	GRD	MG	unaltered granodioirte

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	OVB	--	overbudrne							
1.30	3.00	1.70	OVB	--	overburden and soil							
						MD	BN					
3.00	6.10	3.10	GRD	MG	oxidized, rubbly to gouged granodioirte							
						MD	BN		OXI	3I		
						LT	BN		BLE	2I		
6.10	10.00	3.90	GRD	MG	trace pervasively silicifife d, oxidized on frx surfaces, bleached granodioirte with weak propylitic alteration							
						MD	GY		OXI	2I		
									SIL	1I		
						MD	BN		PRO	2I		
						MD	GN		BLE	2I		
10.00	10.50	0.50	GRD	MG	gouged granodioirte, light whiteish grey							
						LT	WH					
						LT	GY					
10.50	11.90	1.40	GRD	MG	weakly bleached and oxidized granodiorte with trace pyrite stringers							
						MD	BN		SIL	1I	Py	0.1
									BLE	2I		
									OXI	2I		
11.90	11.98	0.08	VEN	MG	vein trending 80 TCA with gouge on upper and lower contact, has weak pyrite within							
						LT	WH		CLY	5I	Py	0.5
									SIL	5I		
11.98	17.42	5.44	GRD	MG	weakly oxidized, patchily silicified and propylitic altered granodiorite with oxidative staining pervaisve thorughout							
						MD	GY		OXI	2I		
						LT	BN		BLE	2I		
						MD	BN		SIL	1I		
17.42	18.50	1.08	GRD	MG	silicified, propylitic altered grd with dissemianted pyrite							
						MD	GY		SIL	2I	Py	0.5
						LT	GY		PRO	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.50	22.80	4.30	GRD	MG	oxidized, moderately arillic altered granodioirte with bleaching and ox staining, fractures and framgental							
						MD	BN		ARG	2I		
									OXI	2I		
						MD	GY		BLE	2I		
22.80	26.50	3.70	GRD	MG	unalterd granodioirte							
						MD	GY					
26.50	27.90	1.40	GRD	MG	silicifed, oxidized granodioirte with ox staining throughout							
									SIL	1I		
						MD	BN		OXI	3I		
27.90	28.40	0.50	VEN	MG	banded semimassive pyrite +- sphal +- galena trending 60 TCA with a harp upper and lower contact . One small 5 cm section has a weak brecciated textures							
						DK	GY		SIL	5I	Gn	2
						MD	GY				Sp	1
						LT	WH				Py	15
28.40	30.30	1.90	GRD	MG	weakly oxidized and trace propylitic altered grandioirtr							
						MD	GY		PRO	1I		
						MD	BN		SIL	1I		
30.30	33.10	2.80	GRD	MG	unaltered granodioirte							
						MD	GY					
33.10	33.53	0.43	GRD	MG	propylitic altered granodiorte							
						MD	GY		PRO	2I		
						MD	GN					
33.53	39.00	5.47	GRD	MG	unaltered granodioirte							
						MD	GY					
39.00	40.50	1.50	GRD	MG	weakly clay altered and argillic altered granodioirte							
						MD	GN		OXI	1I		
						LT	GY		CLY	2I		
						MD	BN		ARG	2I		
40.50	44.00	3.50	GRD	MG	unaltered granodioirte							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.00	45.72	1.72	GRD	MG	moderatel propylitic altered granodiooitrr							
						MD	GY		PRO	3I		
						MD	GN					
45.72	48.00	2.28	GRD	MG	moderately proplitic altered granodiorite with patch silicification							
						MD	GN		PRO	3I		
						MD	GY					
48.00	48.50	0.50	GRD	MG	silicified and porpylitic altered grd with 2 py bearing veinlets 80 TCA							
						LT	GY		PRO	3I	Py	1
						LT	GN		SIL	3I		
48.50	50.00	1.50	GRD	MG	moderately argillic and weak propylitic altered granodiorite							
						LT	GY		SIL	1I		
									ARG	3I		
						LT	GN		PRO	2I		
50.00	51.25	1.25	GRD	MG	moderately argillic altered granodioirte							
						LT	GY					
						LT	GN		ARG	3I		
51.25	51.82	0.57	GRD	MG	weakly pervasively clay alterd, potentially faulted interval of grd							
						LT	GY		CLY	4I		
						LT	GN					
51.82	55.50	3.68	GRD	MG	moderately propylitic and weakl argillic altered granodioirte with wea pervaisve silicification							
						MD	GY					
						LT	GY		PRO	3I		
						LT	GN		SIL	2I		
55.50	57.00	1.50	GRD	MG	oddly coloured, dark reddish green to medium green, almost brecciated looking granodiorte.							
						MD	RD					
						MD	GN		SIL	3I		
57.00	62.25	5.25	GRD	MG	patchily proplitic, pervasively trace silicified, and patchy argillic altered granodioirte with weak stockwork dark grey stringers without sulfide							
						DK	GY		ARG	3I		
						MD	GY		PRO	3I		
						MD	GN		SIL	3I		
62.25	62.85	0.60	GRD	MG	strongly silicified granodioirte with dissemianted prite in groundmass							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	3I	Py	1
62.85	63.05	0.20	VEN	MG	80 TCA trending semimassive pyrite quartz vein, with two bounding milky quartz veins 2 cm wide, and a opaque quartz section in the middle. Small hairline fracutres extend throughout, and there is disseminated patchy pyrite thorughout entire sample							
						LT	GY		SIL	5I	Py	15
						LT	WH					
63.05	64.37	1.32	GRD	MG	strongly silicified, propylitic altered granodioirte with dissem py in groundmass							
						MD	GY		PRO	4I	Py	1
						MD	GN		SIL	3I		
64.37	64.57	0.20	VEN	MG	brecciated quartz vein with trace pyrite along bands trending 80 TCA. Gouged upper contact in same orienation							
						MD	GY		SIL	4I		
						LT	GY		CLY	3I		
						LT	BN		PRO	2I	Py	5
64.57	67.00	2.43	GRD	MG	weakly propylitic altered granodioirte with trace sulfide barren strginers							
						MD	GN		PRO	2I		
67.00	68.00	1.00	GRD	MG	unaltered granodioirte							
68.00	68.72	0.72	GRD	MG	moderately propylitic altered granodioirte							
						MD	GN		PRO	3I		
						MD	GN					
68.72	68.92	0.20	APL	FG	finegraeind pinkish brown aplite dyke trending 70 TCA							
						LT	PK					
						LT	BN					
68.92	70.30	1.38	GRD	MG	moderately propylitic altered granodioirte							
						MD	GN					
						MD	GY		PRO	2I		
70.30	74.30	4.00	GRD	MG	unaltered granodioirte							
						MD	GY					
74.30	77.00	2.70	GRD	MG	weakly propylitic and weakly argillic altered granodioirt							
						MD	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		ARG	2I		
77.00	84.30	7.30	GRD	MG	unaltered granodioirte							
						MD	GY					
84.30	85.70	1.40	GRD	MG	strongly silicified, strongly proplitic altered granodioirte with two pyrite bearing veins trending 80 TCA; one is 2 cm wide, the other is 1 cm wide.							
						MD	GN		SIL	3I	Py	10
									PRO	4I		
85.70	86.50	0.80	GRD	MG	unaltered granodioirte							
						MD	GY					
86.50	91.00	4.50	GRD	MG	pervasively silicified granodiorite with patchy propylitic alteration							
						MD	GN		SIL	3I		
						LT	GY					
						LT	GN		PRO	3I		
91.00	91.44	0.44	GRD	MG	strongly propylitic altered granodorite with weak dissemianted pyrite within							
						MD	GN		PRO	4I	Py	0.5
91.44	91.70	0.26	VEN	MG	semimassive pyrite quartz vein with banded blebby pyrite, trace arsenopyrite, and trace galena and sphalerite. Sharp upper and lower contact trending 70 TCA							
											Gn	0.5
						LT	WH				Sp	0.5
											As	0.1
						LT	GY		SIL	5I	Py	15
91.70	93.42	1.72	GRD	MG	propylitic and silicified granodioirte with weak dissem py and py stringers 80 TCA thorughout							
						MD	GN		SIL	2I	Py	0.5
						MD	GY		PRO	3I		
93.42	93.55	0.13	VEN	MG	banded quartz with weak rhodochrosite vein, with trace blebby pyrite and weak colloform texture. Trends 70 TCA							
						DK	GY		SIL	4I	Py	1
						LT	PK					
						LT	WH					
93.55	98.50	4.95	GRD	MG	trace silicified and propylitic altered granodioirte with weak 70 TCA stringers barren of sulfide							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						MD	GN		PRO	1I		
98.50	101.23	2.73	GRD	MG	unaltered granodioirte							
						MD	GY					
101.23	102.00	0.77	GRD	MG	moderately silicified and propylitic atered granodiorite with 2 veinlets 1 cm wide with pyrite							
						MD	GN		PRO	3I		
						MD	GY		SIL	2I	Py	1
102.00	103.40	1.40	GRD	MG	faulted, fracuted granodioirte that is relatively unaltered besides numerous fractures							
						MD	GY					
103.40	105.25	1.85	GRD	MG	unaltered granodioirte							
105.25	106.68	1.43	GRD	MG	moderately silicified and propylitic altered granodiorite with one 5 cm section of weakl cuggy 70 TCA veins, with weak pyrite. Pyrite is dissem throughout							
						MD	GN		PRO	3I		
						MD	GY		SIL	3I	Py	1
106.68	111.75	5.07	GRD	MG	unaltered granodioirte							
						MD	GY					
111.75	115.20	3.45	GRD	MG	weakly propylitic and fractured granodiorite with low angele fractures that are carbonate filled							
						MD	GN					
						MD	GY		PRO	1I		
115.20	120.25	5.05	GRD	MG	moderately propylitic and argillic altered granodioirte with 60 TCA quartz strigners with no sulfide							
						LT	GN		PRO	1I		
						LT	GY		ARG	3I		
120.25	121.30	1.05	GRD	MG	unaltered granodioirte							
						MD	GY					
121.30	122.00	0.70	GRD	MG	Silicified and propylitic altered granodioirte with 30 TCA quartz veinlets with no sulfide							
						LT	GN					
						LT	GY		PRO	3I		
						MD	GN		SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
122.00	123.00	1.00	GRD	MG	unaltered granodioirte							
						MD	GY					
123.00	124.20	1.20	GRD	MG	silicified and wekaly propylitic an argillic altered granodioirte							
						MD	GN		PRO	2I		
									ARG	2I		
						MD	GY		SIL	2I		
124.20	125.05	0.85	GRD	MG	unaltered granodioirte							
						MD	GY					
125.05	126.75	1.70	GRD	MG	moderately silicified and propylitic and argillic altered granodioirte with pyrite bearing quartz stinger veinlets 80 TCA							
						LT	GN		PRO	3I	Py	5
						LT	GY		ARG	3I		
									SIL	4I		
126.75	127.25	0.50	VEN	MG	70 TCA upper and lower contact, quartz carbonate vein with semimassive sulfide mineralization. Banded pyrite, with lesser galena and sphalerite, and trace arsenopyrite and chalcopyrite. Banded texture for upper 30 cm of vein, and lower portion of vein is brecciated in nature. Bounded by heavily silicified and propylitic altered granodioirte with disseminated pyrite thorguhout as well as pyrite bearing stringers							
											Py	10
											As	0.5
						LT	GY				Gn	1
						LT	WH		SIL	5I	Sp	1
127.25	128.00	0.75	GRD	MG	silicified and propyltiic altered granodioirtw tih weak disseminated pyrite throughout groundmass							
						LT	GN		SIL	3I	Py	1
						LT	GY		PRO	3I		
128.00	131.50	3.50	GRD	MG	strongly argillic and clay altered granodioirte, likely represent a fault, which means the vein above is a hanging wall vein.							
						LT	WH		ARG	4I		
						LT	GY		CLY	3I		
						LT	GN		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
131.50	132.00	0.50	GRD	MG	silicified and porpylitic altered portion of grano with dissem py							
						MD	GN		PRO	2I	Py	1
						MD	GY		SIL	3I		
132.00	133.00	1.00	GRD	MG	unaltered granodiorte							
						MD	GY					
133.00	134.20	1.20	GRD	MG	moderately propylitic and silicified, weakly patchy argillic altered granodioirte with one 30 TCA rhodochrosite veinlet. No sulfide							
						LT	GY		PRO	3I		
						MD	GY		SIL	3I		
						MD	GN		ARG	2I		
134.20	140.21	6.01	GRD	MG	unaltered granodioirte							
						MD	GY					

KL -19-464

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	6.10	6.10	3.53	58	0.00	0	--	2H	5W	Overburden and highly weathered rock and clay (GOU?)
6.10	7.62	1.52	1.36	89	0.35	23	--	2H	4W	strong weathering and oxidation on joint surfaces/fracture surfaces. Patchy weathering in core.
7.62	10.67	3.05	3.03	99	0.25	8	--	3H	4W	strong weathering and oxidation on joint surfaces/fracture surfaces. Patchy weathering in core.
10.67	15.24	4.57	4.5	98	2.21	48	--	3H	3W	strong weathering and oxidation on joint surfaces/fracture surfaces. Patchy weathering in core.
15.24	18.29	3.05	3.05	100	1.59	52	--	3H	3W	strong weathering and oxidation on joint surfaces/fracture surfaces. Patchy weathering in core.
18.29	21.34	3.05	3.05	100	0.95	31	--	3H	3W	Weathering and oxidation on joint/fracture surfaces.
21.34	24.38	3.04	3.04	100	0.74	24	--	3H	3W	Weathering and oxidation on joint/fracture surfaces.
24.38	27.43	3.05	3.05	100	0.82	27	--	3H	3W	Weathering and oxidation on joint/fracture surfaces.
27.43	30.48	3.05	3.05	100	1.49	49	--	3H	3W	Weathering and oxidation on joint/fracture surfaces.
30.48	33.53	3.05	3.05	100	1.98	65	--	4H	2W	some Weathering and oxidation on joint/fracture surfaces.
33.53	38.10	4.57	4.44	97	3.32	73	--	4H	2W	Some Weathering and oxidation on joint/fracture surfaces.
38.10	41.15	3.05	2.77	91	1.18	39	--	4H	2W	Weathering and oxidation on joint/fracture surfaces. Rubble/crumbly section between 39.60-40.30m
41.15	42.67	1.52	1.52	100	1.48	97	--	4H	1W	Some moderate weathering and oxidation on joint/fracture surfaces.
42.67	45.72	3.05	3.05	100	2.28	75	--	4H	1W	
45.72	51.82	6.10	5.93	97	2.92	48	--	4H	1W	rubbly sections at 48.5m, 49.5m, 51.25-51.8m
51.82	57.94	6.12	6.05	99	4.41	72	--	3H	1W	
57.94	60.96	3.02	3.02	100	1.75	58	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
60.96	64.01	3.05	3.05	100	1.78	58	--	3H	2W	Some oxidation on fracture surfaces, limonitic
64.01	70.10	6.09	6.09	100	4.19	69	--	4H	2W	Minor oxidation n fracture surfaces
70.10	76.20	6.10	6.05	99	5.85	96	--	4H	1W	
76.20	79.25	3.05	3.05	100	2.21	72	--	4H	1W	3 minor crumbly jointing around 77m, ~20cm spacing, ~40TCA
79.25	82.30	3.05	3.05	100	2.65	87	--	4H	1W	
82.30	85.34	3.04	3.04	100	1.86	61	--	4H	1W	
85.34	88.39	3.05	3.05	100	2.57	84	--	4H	1W	
88.39	91.44	3.05	3.05	100	2.87	94	--	4H	1W	
91.44	94.49	3.05	3.05	100	1.84	60	--	3H	1W	
94.49	97.54	3.05	3.01	99	2.68	88	--	3H	1W	Trace of sulphides in joints at 50TAC
97.54	100.58	3.04	2.93	96	2.20	72	--	4H	1W	Trace of sulphides in joints
100.58	103.63	3.05	2.99	98	1.67	55	--	3H	1W	
103.63	106.68	3.05	3.05	100	1.29	42	--	3H	1W	
106.68	112.78	6.10	6.09	100	5.13	84	--	4H	1W	Minor sulphides, chlorite, and cay minerals on fracture surfaces
112.78	115.82	3.04	3.04	100	1.07	35	--	4H	1W	Minor sulphides, chlorite, and clay minerals on fracture surfaces
115.82	118.87	3.05	3.02	99	2.09	69	--	4H	1W	
118.87	124.97	6.10	6.1	100	4.40	72	--	4H	1W	small rubbly zone, ~5cm, at 122.9m
124.97	128.02	3.05	3.05	100	1.81	59	--	3H	1W	good vein at 127m
128.02	132.59	4.57	4.47	98	0.82	18	--	3H	1W	rubbly sections throughout run. Generally FBX>GOU
132.59	135.64	3.05	3.05	100	2.48	81	--	4H	1W	
135.64	138.68	3.04	3.04	100	2.63	87	--	4H	1W	
138.68	140.21	1.53	1.52	99	1.17	76	--	4H	1W	crumble/rubble section at bottom of run.

KL -19-464

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	OVB	
2	8.07	OVB	
3	0.675	GRD	
3	0.675	OVB	
4	0.161	GRD	
5	0.326	GRD	
6	0.3	GRD	
7	0.268	GRD	
8	0.234	GRD	
9	0.39	GRD	
10	0.249	GRD	
10	0.249	GRD	
11	0.265	GRD	
12	0.145	GRD	
13	0.61	GRD	
14	0.275	GRD	
15	0.225	GRD	
16	0.75	GRD	
17	0.615	GRD	
18	0.355	GRD	
19	9.882	GRD	
20	0.54	GRD	
21	0.446	GRD	
22	0.278	GRD	
23	0.313	GRD	
24	0.477	GRD	
25	0.314	GRD	
26	0.251	GRD	
27	0.822	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.159	VEN	
29	0.85	GRD	
30	9.07	GRD	
31	29.19	GRD	
32	19.62	GRD	
33	24.23	GRD	
34	28.71	GRD	
35	19.84	GRD	
36	20.63	GRD	
37	30.49	GRD	
38	0.472	GRD	
39	6.444	GRD	
39	6.444	GRD	
40	1.11	GRD	
41	0.288	GRD	
42	0.499	GRD	
43	0.266	GRD	
44	0.35	GRD	
44	0.35	GRD	
45	0.37	GRD	
46	0.233	GRD	
47	0.215	GRD	
48	11.75	GRD	
48	11.75	GRD	
49	0.49	GRD	
50	0.77	GRD	
50	0.77	GRD	
51	0.57	GRD	
52	0.344	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
53	0.319	GRD	
54	0.25	GRD	
55	0.347	GRD	
56	0.25	GRD	
57	0.25	GRD	
57	0.25	GRD	
58	0.54	GRD	
59	0.47	GRD	
60	0.457	GRD	
61	0.257	GRD	
62	0.247	GRD	
63	0.316	VEN	
64	0.27	GRD	
65	0.165	GRD	
66	0.396	GRD	
67	0.17	GRD	
67	0.17	GRD	
68	0.355	GRD	
68	0.355	GRD	
69	0.427	GRD	
70	16.6	GRD	
71	19.3	GRD	
72	0.52	GRD	
73	0.239	GRD	
74	1.75	GRD	
75	0.289	GRD	
76	2.07	GRD	
77	20.34	GRD	
77	20.34	GRD	
78	26.28	GRD	
79	6.48	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
80	27.12	GRD	
81	12.02	GRD	
82	19.01	GRD	
83	1.64	GRD	
84	9.8	GRD	
85	0.733	GRD	
86	3.2	GRD	
87	0.516	GRD	
88	0.19	GRD	
89	0.287	GRD	
90	0.279	GRD	
91	0.276	GRD	
91	0.276	GRD	
92	0.306	GRD	
93	0.155	GRD	
94	0.89	GRD	
95	0.445	GRD	
96	0.252	GRD	
97	0.878	GRD	
98	0.622	GRD	
99	17.33	GRD	
100	24.96	GRD	
101	0.553	GRD	
102	0.639	GRD	
102	0.639	GRD	
103	0.657	GRD	
104	2.225	GRD	
105	0.358	GRD	
106	0.159	GRD	
107	0.3	GRD	
108	0.484	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
109	14.03	GRD	
110	24.3	GRD	
111	2.47	GRD	
112	0.917	GRD	
113	1.715	GRD	
114	0.417	GRD	
115	0.288	GRD	
116	0.62	GRD	
117	5.7	GRD	
118	0.395	GRD	
119	0.56	GRD	
120	6.454	GRD	
121	4.188	GRD	
122	2.515	GRD	
122	2.515	GRD	
123	2.334	GRD	
123	2.334	GRD	
124	0.354	GRD	
125	0.379	GRD	
126	0.221	GRD	
127	0.862	VEN	
128	0.293	GRD	
128	0.293	GRD	
129	0.277	GRD	
130	0.18	GRD	
131	0.407	GRD	
132	1.572	GRD	
132	1.572	GRD	
133	0.787	GRD	
133	0.787	GRD	
134	0.53	GRD	
135	11.56	GRD	
136	1.53	GRD	
137	19.71	GRD	
138	11.09	GRD	
139	12.35	GRD	
140	1.906	GRD	EOH

KL -19-464

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W595894	☐	19-120	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W591701	☐	19-121	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602988	☐	19-117	lo grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595886	☐	19-120	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595880	☐	19-120	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595854	☐	19-118	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595847	☐	19-118	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595835	☐	19-118	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595806	☐	19-117	lo grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W602994	☐	19-117	lo grade		☑	☐	☐
2.00	3.50	1.50	OVB	1.00	67	W602985	☐	19-117	lo grade		☐	☐	☐
3.50	5.00	1.50	GRD	1.30	87	W602986	☐	19-117	lo grade		☐	☐	☐
5.00	6.50	1.50	GRD	1.34	89	W602987	☐	19-117	lo grade		☐	☐	☐
6.50	8.00	1.50	GRD	1.43	95	W602989	☐	19-117	lo grade		☐	☐	☐
8.00	9.50	1.50	GRD	1.50	100	W602990	☐	19-117	lo grade		☐	☐	☐
9.50	11.00	1.50	GRD	1.50	100	W602991	☐	19-117	lo grade		☐	☐	☐
11.00	11.90	0.90	GRD	0.90	100	W602992	☐	19-117	lo grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
11.90	12.20	0.30	GRD, VEN	0.30	100	W602993	☐	19-117	lo grade		☐	☐	☐
12.20	13.25	1.05	GRD	1.05	100	W602995	☐	19-117	lo grade		☐	☐	☐
13.25	14.75	1.50	GRD	1.50	100	W602996	☐	19-117	lo grade		☐	☐	☐
14.75	16.00	1.25	GRD	1.23	98	W602997	☐	19-117	lo grade		☐	☐	☐
16.00	17.50	1.50	GRD	1.50	100	W602998	☐	19-117	lo grade		☐	☐	☐
17.50	18.29	0.79	GRD	0.79	100	W602999	☐	19-117	lo grade		☐	☐	☐
17.50	18.29	0.79	GRD	0.79	100	W603000	☐	19-117	lo grade		☐	☑	☐
18.29	19.50	1.21	GRD	1.20	99	W595801	☐	19-117	lo grade		☐	☐	☐
19.50	21.00	1.50	GRD	1.50	100	W595802	☐	19-117	lo grade		☐	☐	☐
21.00	22.00	1.00	GRD	1.00	100	W595803	☐	19-117	lo grade		☐	☐	☐
22.00	23.50	1.50	GRD	1.50	100	W595804	☐	19-117	lo grade		☐	☐	☐
23.50	25.00	1.50	GRD	1.45	97	W595805	☐	19-117	lo grade		☐	☐	☐
25.00	26.50	1.50	GRD	1.50	100	W595807	☐	19-117	lo grade		☐	☐	☐
26.50	27.90	1.40	GRD, GRD	1.40	100	W595808	☐	19-117	lo grade		☐	☐	☐
27.90	28.48	0.58	GRD, VEN	0.55	95	W599279	☐	19-113	high grade		☐	☐	☐
27.90	28.48	0.58	GRD, VEN	0.55	95	W599280	☐	19-113	high grade		☐	☑	☐
28.48	29.50	1.02	GRD	1.00	98	W595809	☐	19-117	lo grade		☐	☐	☐
29.50	31.00	1.50	GRD	1.50	100	W595810	☐	19-117	lo grade		☐	☐	☐
31.00	32.50	1.50	GRD	1.50	100	W595811	☐	19-117	lo grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.50	33.50	1.00	GRD	0.99	99	W595812	☐	19-117	lo grade		☐	☐	☐
33.50	35.00	1.50	GRD	1.50	100	W595813	☐	19-117	lo grade		☐	☐	☐
33.50	35.00	1.50	GRD	1.50	100	W595814	☐	19-117	lo grade		☐	☐	☑
35.00	36.50	1.50	GRD	1.48	99	W595815	☐	19-117	lo grade		☐	☐	☐
36.50	38.00	1.50	GRD	1.50	100	W595816	☐	19-117	lo grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.50	100	W595817	☐	19-117	lo grade		☐	☐	☐
39.50	41.00	1.50	GRD	1.50	100	W595818	☐	19-117	lo grade		☐	☐	☐
41.00	42.50	1.50	GRD	1.50	100	W595819	☐	19-117	lo grade		☐	☐	☐
42.50	44.00	1.50	GRD	1.48	99	W595820	☐	19-117	lo grade		☐	☐	☐
44.00	45.45	1.45	GRD, GRD	1.42	98	W595821	☐	19-118	low grade		☐	☐	☐
45.45	46.50	1.05	GRD	1.05	100	W595822	☐	19-118	low grade		☐	☐	☐
46.50	48.00	1.50	GRD	1.50	100	W595823	☐	19-118	low grade		☐	☐	☐
48.00	48.50	0.50	GRD, GRD	0.50	100	W595824	☐	19-118	low grade		☐	☐	☐
48.50	49.75	1.25	GRD, GRD	1.25	100	W595825	☐	19-118	low grade		☐	☐	☐
49.75	51.25	1.50	GRD	1.50	100	W595826	☐	19-118	low grade		☐	☐	☐
51.25	52.75	1.50	GRD, GRD	1.50	100	W595827	☐	19-118	low grade		☐	☐	☐
51.25	52.75	1.50	GRD, GRD	1.50	100	W595828	☐	19-118	low grade		☐	☑	☐
52.75	54.25	1.50	GRD	1.50	100	W595829	☐	19-118	low grade		☐	☐	☐
54.25	55.75	1.50	GRD	1.50	100	W595830	☐	19-118	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
55.75	57.25	1.50	GRD	1.50	100	W595831	☐	19-118	low grade		☐	☐	☐
57.25	58.75	1.50	GRD	1.50	100	W595832	☐	19-118	low grade		☐	☐	☐
58.75	60.25	1.50	GRD	1.50	100	W595833	☐	19-118	low grade		☐	☐	☐
60.25	61.75	1.50	GRD	1.50	100	W595834	☐	19-118	low grade		☐	☐	☐
61.75	62.80	1.05	GRD	1.00	95	W595836	☐	19-118	low grade		☐	☐	☐
62.80	63.10	0.30	GRD	0.30	100	W599284	☐	19-113	high grade		☐	☐	☐
63.10	63.67	0.57	GRD	0.55	96	W595837	☐	19-118	low grade		☐	☐	☐
63.67	64.57	0.90	GRD	0.90	100	W595838	☐	19-118	low grade		☐	☐	☐
64.57	65.50	0.93	VEN, GRD	0.90	97	W595839	☐	19-118	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W595840	☐	19-118	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W595841	☐	19-118	low grade		☐	☐	☑
67.00	68.50	1.50	GRD, GRD	1.50	100	W595842	☐	19-118	low grade		☐	☐	☐
68.50	70.00	1.50	GRD	1.50	100	W595843	☐	19-118	low grade		☐	☐	☐
70.00	71.00	1.00	GRD	1.00	100	W595844	☐	19-118	low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.50	100	W595845	☐	19-118	low grade		☐	☐	☐
72.50	74.00	1.50	GRD	1.50	100	W595846	☐	19-118	low grade		☐	☐	☐
74.00	75.50	1.50	GRD	1.50	100	W595848	☐	19-118	low grade		☐	☐	☐
75.50	77.00	1.50	GRD	1.50	100	W595849	☐	19-118	low grade		☐	☐	☐
77.00	78.50	1.50	GRD, GRD	1.50	100	W595850	☐	19-118	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
78.50	80.00	1.50	GRD	1.48	99	W595851	☐	19-118	low grade		☐	☐	☐
80.00	81.50	1.50	GRD	1.50	100	W595852	☐	19-118	low grade		☐	☐	☐
81.50	83.00	1.50	GRD	1.50	100	W595853	☐	19-118	low grade		☐	☐	☐
83.00	84.30	1.30	GRD	1.28	98	W595855	☐	19-118	low grade		☐	☐	☐
84.30	85.15	0.85	GRD, GRD	0.83	98	W595856	☐	19-118	low grade		☐	☐	☐
85.15	86.00	0.85	GRD	0.85	100	W595857	☐	19-118	low grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.48	99	W595858	☐	19-118	low grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.45	97	W595859	☐	19-118	low grade		☐	☐	☐
89.00	90.40	1.40	GRD	1.40	100	W595860	☐	19-118	low grade		☐	☐	☐
90.40	91.40	1.00	GRD	0.98	98	W595861	☐	19-120	low grade		☐	☐	☐
91.40	91.70	0.30	GRD	0.30	100	W599285	☐	19-113	high grade		☐	☐	☐
91.70	92.30	0.60	GRD, VEN	0.60	100	W595862	☐	19-120	low grade		☐	☐	☐
92.30	93.35	1.05	GRD	1.03	98	W595863	☐	19-120	low grade		☐	☐	☐
93.35	93.65	0.30	GRD	0.30	100	W595864	☐	19-120	low grade		☐	☐	☐
93.65	94.65	1.00	GRD	1.00	100	W595865	☐	19-120	low grade		☐	☐	☐
94.65	96.00	1.35	GRD	1.35	100	W595866	☐	19-120	low grade		☐	☐	☐
96.00	97.50	1.50	GRD	1.50	100	W595867	☐	19-120	low grade		☐	☐	☐
96.00	97.50	1.50	GRD	1.50	100	W595868	☐	19-120	low grade		☐	☐	☑
97.50	99.00	1.50	GRD	1.50	100	W595869	☐	19-120	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
99.00	100.50	1.50	GRD	1.50	100	W595870	☐	19-120	low grade		☐	☐	☐
100.50	101.23	0.73	GRD	0.73	100	W595871	☐	19-120	low grade		☐	☐	☐
101.23	102.00	0.77	GRD, GRD	0.75	97	W595872	☐	19-120	low grade		☐	☐	☐
102.00	103.40	1.40	GRD, GRD	1.40	100	W595873	☐	19-120	low grade		☐	☐	☐
102.00	103.40	1.40	GRD, GRD	1.40	100	W595874	☐	19-120	low grade		☐	☑	☐
103.40	104.15	0.75	GRD, GRD	0.75	100	W595875	☐	19-120	low grade		☐	☐	☐
104.15	105.25	1.10	GRD	1.10	100	W595876	☐	19-120	low grade		☐	☐	☐
105.25	106.15	0.90	GRD, GRD	0.90	100	W595877	☐	19-120	low grade		☐	☐	☐
106.15	107.50	1.35	GRD	1.30	96	W595878	☐	19-120	low grade		☐	☐	☐
107.50	109.00	1.50	GRD	1.48	99	W595879	☐	19-120	low grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.45	97	W595881	☐	19-120	low grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.46	97	W595882	☐	19-120	low grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.50	100	W595883	☐	19-120	low grade		☐	☐	☐
113.50	115.00	1.50	GRD	1.50	100	W595884	☐	19-120	low grade		☐	☐	☐
115.00	116.50	1.50	GRD	1.50	100	W595885	☐	19-120	low grade		☐	☐	☐
116.50	117.25	0.75	GRD	0.75	100	W595887	☐	19-120	low grade		☐	☐	☐
117.25	118.75	1.50	GRD	1.50	100	W595888	☐	19-120	low grade		☐	☐	☐
118.75	120.25	1.50	GRD	1.50	100	W595889	☐	19-120	low grade		☐	☐	☐
120.25	121.75	1.50	GRD, GRD	1.50	100	W595890	☐	19-120	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
121.75	123.00	1.25	GRD	1.25	100	W595891	☐	19-120	low grade		☐	☐	☐
123.00	124.00	1.00	GRD, GRD	1.00	100	W595892	☐	19-120	low grade		☐	☐	☐
124.00	125.05	1.05	GRD	1.03	98	W595893	☐	19-120	low grade		☐	☐	☐
125.05	125.80	0.75	GRD, GRD	0.75	100	W595895	☐	19-120	low grade		☐	☐	☐
125.80	126.42	0.62	GRD	0.60	97	W595896	☐	19-120	low grade		☐	☐	☐
126.42	127.25	0.83	GRD	0.80	96	W599286	☐	19-113	high grade		☐	☐	☐
127.25	128.00	0.75	VEN, GRD	0.73	97	W595897	☐	19-120	low grade		☐	☐	☐
128.00	129.50	1.50	GRD, GRD	1.45	97	W595898	☐	19-120	low grade		☐	☐	☐
129.50	130.75	1.25	GRD	1.23	98	W595899	☐	19-120	low grade		☐	☐	☐
130.75	132.25	1.50	GRD	1.45	97	W595900	☐	19-120	low grade		☐	☐	☐
132.25	133.50	1.25	GRD	1.20	96	W595901	☐	19-121	low grade		☐	☐	☐
133.50	135.00	1.50	GRD	1.50	100	W595902	☐	19-121	low grade		☐	☐	☐
135.00	136.50	1.50	GRD	1.50	100	W595903	☐	19-121	low grade		☐	☐	☐
136.50	138.00	1.50	GRD	1.50	100	W595904	☐	19-121	low grade		☐	☐	☐
138.00	139.00	1.00	GRD	1.00	100	W595905	☐	19-121	low grade		☐	☐	☐
139.00	140.21	1.21	GRD	1.20	99	W595906	☐	19-121	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-120	W595880	0.00	0.00	1.77	70	☐	☐	☐	☑ KL-STD6	kl6
19-120	W595886	0.00	0.00	1.75	70	☐	☐	☐	☑ KL-STD6	kl-6
19-120	W595894	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-117	W595806	0.00	0.00	1.68	270	☐	☐	☐	☑ KL-STD6	kl6
19-117	W602988	0.00	0.00	1.53	140	☐	☐	☐	☑ ME-16	me-16
19-117	W602994	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-121	W591701	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
19-118	W595835	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
19-118	W595847	0.00	0.00	1.69	270	☐	☐	☐	☑ KL-STD6	KL6
19-118	W595854	0.00	0.00	1.76	1020	☐	☐	☐	☑ KL-STD6	kl6
19-117	W602985	2.00	3.50	0.06	2640	☐	☐	☐	☐	
19-117	W602986	3.50	5.00	0.05	2440	☐	☐	☐	☐	
19-117	W602987	5.00	6.50	0.02	3000	☐	☐	☐	☐	
19-117	W602989	6.50	8.00	0.02	3720	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-117	W602990	8.00	9.50	0.06	710	☐	☐	☐	☐	
19-117	W602991	9.50	11.00	0.17	550	☐	☐	☐	☐	
19-117	W602992	11.00	11.90	0.13	200	☐	☐	☐	☐	
19-117	W602993	11.90	12.20	0.16	210	☐	☐	☐	☐	
19-117	W602995	12.20	13.25	0.11	560	☐	☐	☐	☐	
19-117	W602996	13.25	14.75	0.04	2320	☐	☐	☐	☐	
19-117	W602997	14.75	16.00	0.04	1110	☐	☐	☐	☐	
19-117	W602998	16.00	17.50	0.03	2320	☐	☐	☐	☐	
19-117	W602999	17.50	18.29	0.59	870	☐	☐	☐	☐	
19-117	W603000	17.50	18.29	1.13	330	☑	☐	☐	☐	
19-117	W595801	18.29	19.50	0.04	2710	☐	☐	☐	☐	
19-117	W595802	19.50	21.00	0.02	2160	☐	☐	☐	☐	
19-117	W595803	21.00	22.00	0.10	1170	☐	☐	☐	☐	
19-117	W595804	22.00	23.50	0.03	2320	☐	☐	☐	☐	
19-117	W595805	23.50	25.00	0.03	2850	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-117	W595807	25.00	26.50	0.02	3750	☐	☐	☐	☐	
19-117	W595808	26.50	27.90	0.13	740	☐	☐	☐	☐	
19-113	W599279	27.90	28.48	3.89	30	☐	☐	☐	☐	hi grade
19-113	W599280	27.90	28.48	2.13	20	☑	☐	☐	☐	1/4 up
19-117	W595809	28.48	29.50	0.02	2490	☐	☐	☐	☐	
19-117	W595810	29.50	31.00	0.00	2270	☐	☐	☐	☐	
19-117	W595811	31.00	32.50	0.00	2370	☐	☐	☐	☐	
19-117	W595812	32.50	33.50	0.01	2050	☐	☐	☐	☐	
19-117	W595813	33.50	35.00	0.00	2340	☐	☐	☐	☐	
19-117	W595814	33.50	35.00	0.00	2320	☐	☑	☐	☐	coarse dup
19-117	W595815	35.00	36.50	0.01	2310	☐	☐	☐	☐	
19-117	W595816	36.50	38.00	0.00	2310	☐	☐	☐	☐	
19-117	W595817	38.00	39.50	0.01	2200	☐	☐	☐	☐	
19-117	W595818	39.50	41.00	0.01	2030	☐	☐	☐	☐	
19-117	W595819	41.00	42.50	0.01	2490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-117	W595820	42.50	44.00	0.04	3770	☐	☐	☐	☐	
19-118	W595821	44.00	45.45	0.04	2740	☐	☐	☐	☐	
19-118	W595822	45.45	46.50	0.07	3290	☐	☐	☐	☐	
19-118	W595823	46.50	48.00	0.03	2750	☐	☐	☐	☐	
19-118	W595824	48.00	48.50	0.50	380	☐	☐	☐	☐	
19-118	W595825	48.50	49.75	0.01	2340	☐	☐	☐	☐	
19-118	W595826	49.75	51.25	0.02	3190	☐	☐	☐	☐	
19-118	W595827	51.25	52.75	0.02	3890	☐	☐	☐	☐	
19-118	W595828	51.25	52.75	0.01	4080	☑	☐	☐	☐	1/4 dup
19-118	W595829	52.75	54.25	0.06	3020	☐	☐	☐	☐	
19-118	W595830	54.25	55.75	0.02	3030	☐	☐	☐	☐	
19-118	W595831	55.75	57.25	0.01	3180	☐	☐	☐	☐	
19-118	W595832	57.25	58.75	0.01	2990	☐	☐	☐	☐	
19-118	W595833	58.75	60.25	0.02	4160	☐	☐	☐	☐	
19-118	W595834	60.25	61.75	0.02	2600	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-118	W595836	61.75	62.80	0.03	1050	☐	☐	☐	☐	
19-113	W599284	62.80	63.10	1.19	50	☐	☐	☐	☐	hi grade
19-118	W595837	63.10	63.67	0.12	560	☐	☐	☐	☐	
19-118	W595838	63.67	64.57	0.13	230	☐	☐	☐	☐	
19-118	W595839	64.57	65.50	0.03	1240	☐	☐	☐	☐	
19-118	W595840	65.50	67.00	0.02	2030	☐	☐	☐	☐	
19-118	W595841	65.50	67.00	0.01	2400	☐	☑	☐	☐	coarse dup
19-118	W595842	67.00	68.50	0.01	3050	☐	☐	☐	☐	
19-118	W595843	68.50	70.00	0.02	2280	☐	☐	☐	☐	
19-118	W595844	70.00	71.00	0.01	2080	☐	☐	☐	☐	
19-118	W595845	71.00	72.50	0.02	2140	☐	☐	☐	☐	
19-118	W595846	72.50	74.00	0.02	1900	☐	☐	☐	☐	
19-118	W595848	74.00	75.50	0.01	2270	☐	☐	☐	☐	
19-118	W595849	75.50	77.00	0.01	2290	☐	☐	☐	☐	
19-118	W595850	77.00	78.50	0.00	2210	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-118	W595851	78.50	80.00	0.00	2710	☐	☐	☐	☐	
19-118	W595852	80.00	81.50	0.00	2500	☐	☐	☐	☐	
19-118	W595853	81.50	83.00	0.00	2430	☐	☐	☐	☐	
19-118	W595855	83.00	84.30	0.01	2040	☐	☐	☐	☐	
19-118	W595856	84.30	85.15	0.20	510	☐	☐	☐	☐	
19-118	W595857	85.15	86.00	0.02	1870	☐	☐	☐	☐	
19-118	W595858	86.00	87.50	0.01	2440	☐	☐	☐	☐	
19-118	W595859	87.50	89.00	0.01	2630	☐	☐	☐	☐	
19-118	W595860	89.00	90.40	0.01	2570	☐	☐	☐	☐	
19-120	W595861	90.40	91.40	0.04	1440	☐	☐	☐	☐	
19-113	W599285	91.40	91.70	3.65	40	☐	☐	☐	☐	hi grade'
19-120	W595862	91.70	92.30	0.10	740	☐	☐	☐	☐	
19-120	W595863	92.30	93.35	0.08	770	☐	☐	☐	☐	
19-120	W595864	93.35	93.65	7.33	250	☐	☐	☐	☐	
19-120	W595865	93.65	94.65	0.03	1130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-120	W595866	94.65	96.00	0.20	2780	☐	☐	☐	☐	
19-120	W595867	96.00	97.50	0.03	2240	☐	☐	☐	☐	
19-120	W595868	96.00	97.50	0.02	2170	☐	☑	☐	☐	coarse dup
19-120	W595869	97.50	99.00	0.02	1730	☐	☐	☐	☐	
19-120	W595870	99.00	100.50	0.01	2570	☐	☐	☐	☐	
19-120	W595871	100.50	101.23	0.01	2030	☐	☐	☐	☐	
19-120	W595872	101.23	102.00	0.84	200	☐	☐	☐	☐	
19-120	W595873	102.00	103.40	0.03	1660	☐	☐	☐	☐	
19-120	W595874	102.00	103.40	0.03	2040	☑	☐	☐	☐	1/4 dup
19-120	W595875	103.40	104.15	0.04	1520	☐	☐	☐	☐	
19-120	W595876	104.15	105.25	0.01	2030	☐	☐	☐	☐	
19-120	W595877	105.25	106.15	0.49	300	☐	☐	☐	☐	
19-120	W595878	106.15	107.50	0.01	2420	☐	☐	☐	☐	
19-120	W595879	107.50	109.00	0.01	2330	☐	☐	☐	☐	
19-120	W595881	109.00	110.50	0.01	2420	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-120	W595882	110.50	112.00	0.01	2140	☐	☐	☐	☐	
19-120	W595883	112.00	113.50	0.01	1850	☐	☐	☐	☐	
19-120	W595884	113.50	115.00	0.01	1550	☐	☐	☐	☐	
19-120	W595885	115.00	116.50	0.01	1900	☐	☐	☐	☐	
19-120	W595887	116.50	117.25	0.01	2360	☐	☐	☐	☐	
19-120	W595888	117.25	118.75	0.02	3730	☐	☐	☐	☐	
19-120	W595889	118.75	120.25	0.01	2320	☐	☐	☐	☐	
19-120	W595890	120.25	121.75	0.01	2190	☐	☐	☐	☐	
19-120	W595891	121.75	123.00	0.01	2520	☐	☐	☐	☐	
19-120	W595892	123.00	124.00	0.04	2420	☐	☐	☐	☐	
19-120	W595893	124.00	125.05	0.11	1660	☐	☐	☐	☐	
19-120	W595895	125.05	125.80	0.08	1590	☐	☐	☐	☐	
19-120	W595896	125.80	126.42	0.62	200	☐	☐	☐	☐	
19-113	W599286	126.42	127.25	3.64	30	☐	☐	☐	☐	hi grade
19-120	W595897	127.25	128.00	0.09	1050	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-120	W595898	128.00	129.50	0.27	2520	☐	☐	☐	☐	
19-120	W595899	129.50	130.75	0.03	1850	☐	☐	☐	☐	
19-120	W595900	130.75	132.25	0.07	850	☐	☐	☐	☐	
19-121	W595901	132.25	133.50	0.01	830	☐	☐	☐	☐	
19-121	W595902	133.50	135.00	0.01	2710	☐	☐	☐	☐	
19-121	W595903	135.00	136.50	0.01	2530	☐	☐	☐	☐	
19-121	W595904	136.50	138.00	0.01	2550	☐	☐	☐	☐	
19-121	W595905	138.00	139.00	0.01	2820	☐	☐	☐	☐	
19-121	W595906	139.00	140.21	0.03	2910	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
8.90	9.00	ST		50	NUL	2	pyrite bearing quartz veinlets			
								Py	0.5	DI
10.05	10.40	GO	34	60	NUL	1	gouged fault with pyrite			
								Py	1	DI
11.90	11.98	VN	37	90	NUL	1	pyrite baring quartz vein			
								Py	15	DI
17.50	18.00	ST		70	NUL	2	pyrite bearing quartz veinlets			
								Py	1	DI
27.90	28.45	VN	37	60	NUL	1	semimassive pyrite with minor galena and sphalerite qurtz vein			
								Gn	1	BN
								Py	20	DI
								Sp	1	BN
45.00	45.50	ST		60	NUL	1	pyrite bearing quartz veinlet			
								Py	0.5	DI
48.00	48.50	ST		80	NUL	2	pyrite bearing stringer veinlets			
								Py	1	DI
62.90	63.05	VN	37	70	NUL	1	silicified quartz vein with pyrite and galena and sphalrite			
								Py	5	BN
								Gn	0.1	DI
								Sp	0.1	DI
64.30	64.57	VB	37	70	NUL	1	quartz vein breccia with weak pyrite thorughout			
								Py	0.1	DI
70.00	70.30	ST		70	NUL	4	silicified granodioirt with pyrite beraing quatz stringers			
								Py	1	DI
79.90	79.92	VT	37	80	NUL	1	pyrite bearing stringer veinlet			
								Py	1	DI
84.30	85.00	ST		70	NUL	2	pyrite bearing stringer veinlets			
								Py	1	DI
91.44	91.70	VN	37	70	NUL	1	semimassive pyritic quartz vein with weak brecciated texture and bebby dissemianted pyrite thorughout			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	50	DI
91.70	92.30	ST		70	NUL	5	pyrite bearing stringer veinlets			
								Py	0.5	DI
92.45	92.52	VN	37	70	NUL	1	weakp yrite beaing rhodochrosite vein			
								Py	2	DI
101.23	102.00	ST		70	NUL	2	pyrite bearing stringer veinlets			
103.50	104.15	ST		70	NUL	2	pyrite bearing stringer veinlets			
107.00	108.20	ST		70	NUL	3	pyrite bearing stringer veinlets			
								Py	0.1	DI
112.35	112.38	VN	37	70	NUL	1	quartz carbonate vinlet with colloform textures			
113.00	115.00	FT	42	10	NUL	1	fracutes that parallel TCA, probably faults. Entire interval is fractured			
117.25	118.50	ST		40	NUL	8	quartz veinlets, finge grained, almost chalcedonic; no sulfdie			
121.30	121.75	ST		30	NUL	2	pyrite bearing stringer veinlet			
								Py	0.1	DI
125.50	126.00	ST		80	NUL	3	pyrite bearing stringer veinlets			
126.75	127.25	VN	37	70	NUL	1	semimasisve sulfide vein with pyrite, galena, sphalerite and trace chalco and arsenopyrite			
								Sp	1	BN
								Gn	1	BN
								Ch	0.1	DI
								Py	10	BN
								As	0.1	DI
131.50	132.00	ST		70	NUL	4	pyrite bearing stringer veinlets			
								Py	1	DI
133.10	133.12	ST		70	NUL	1	pyrite bearing stringer veinlets			
								Py	0.5	DI
134.10	134.13	VT	37	20	NUL	1	rhodocrhosite veinlet			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382626	6888797	1434.827	146.34

ZONE: Exploration

SECTION:

HOLE: KL -19-465

CLAIM: YB35416

Contractor: Kluane Drilling

Drill: 2

Core Size: NTW

Casing Depth: 5m, Out

Drilling Dates: Sep 30 - Oct 02, 2019

Geology Logged By: K. Willms

SURVEY			
Depth (m)	Azimuth	Dip	Method
9	173.66	-50	Reflex
144	34.96	-50.7	Reflex

TARGET: Eastern Chevron

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.04	1.04	-?-
1.04	12.6	11.56	QFP
12.6	17.31	4.71	GRD
17.31	26.23	8.92	GRD
26.23	53	26.77	GRD
53	56.41	3.41	GRD
56.41	59.74	3.33	QFP
59.74	70.41	10.67	GRD
70.41	73.8	3.39	GRD
73.8	84	10.2	GRD
84	121.79	37.79	GRD
121.79	125.3	3.51	GRD
125.3	125.6	0.3	VEN
125.6	132.22	6.62	GRD
132.22	137.7	5.48	GRD
137.7	144	6.3	GRD

SAMPLES	
Numbers:	W594294 to W594378, W599254, W599256, W599258 to W599260
Total:	90
Batch:	085, 105, 109, 110
Certificates:	WH19255767, WH19255803, WH19255805, WH19255819, WH19300252, WH19312105

COMMENTS
Block error - 146.34 is actual EOH vs. 144.37m (KD timesheet)

144	146.34	2.34	GRD

Box Log

KL -19-465

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.04	4.38
2	4.38	7.59
3	7.59	10.67
4	10.67	13.81
5	13.81	16.96
6	16.96	21.34
7	21.34	25.6
8	25.6	29.67
9	29.67	33.62
10	33.62	37.39
11	37.39	40.95
12	40.95	45.1
13	45.1	49.55
14	49.55	53.84
15	53.84	58.06
16	58.06	62.48
17	62.48	66.68
18	66.68	71.02
19	71.02	75.48
20	75.48	79.93
21	79.93	83.88
22	83.88	88.11
23	88.11	92.59
24	92.59	97.11
25	97.11	101.56
26	101.56	106.02
27	106.02	110.41
28	110.41	114.77
29	114.77	119.07
30	119.07	123.47
31	123.47	127.69
32	127.69	132.07
33	132.07	136.06
34	136.06	140.29
35	140.29	144.46
36	144.46	146.34

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-465									
	23.11	10	NTW	GRD	719.4	471	2.54	2.9	
	74.68	13	NTW	GRD	1018.1	675.6	2.77	3.0	
	128.66	13	NTW	GRD	1023.1	675.5	2.78	2.9	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.04	1.04	-?-	--	No recovery - Overburden - Casing							
1.04	12.60	11.56	QFP	FG	brown weathering quartz feldspar porphyry dyke that is light grey in colour outside of weathered zones. Dyke is highly fractured and rubbly in places, with local fault zones within.							
						LT	BR	RB	OXI	2I		
						LT	GY					
12.60	17.31	4.71	GRD	MG	Unaltered granodiorite with local areas of weakly propylitic alteration. Minor oxidation found along fractures.							
						MD	GY	FR	PRO	2I		
						LT	GN		PRO	1I		
17.31	17.42	0.11	GRD	MG	Argillic altered granodiorite with trace zones of propylitic overprinting. Local unaltered zones intermittently within. Altered granodiorite carries pyrite stringers and veinlets throughout. 20cm zone of green brecciated dyke found within granodiorite.							
						MD	WH		ARG	2I		
						LT	GN	FR	PRO	1I	Py	3
17.42	17.65	0.23	QFP	FG	green brecciated quartz feldspar porphyry dyke found within granodiorite.							
17.65	19.53	1.88	GRD	MG	Argillic altered granodiorite with trace zones of propylitic overprinting. Local unaltered zones intermittently within. Altered granodiorite carries pyrite stringers and veinlets throughout. 20cm zone of green brecciated dyke found within granodiorite.							
19.53	20.88	1.35	GRD	MG	Unaltered granodiorite.							
20.88	26.23	5.35	GRD	MG	Mineralized zone of phyllic to argillic altered granodiorite with narrow propylitic/chlorite altered zones. Granodiorite hosts abundant stringers, veinlets and vein zones throughout which host sulphide mineralization. Mineralized zones are locally associated with gouged shear/joint/fault zones.							
											As	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	3
											Sp	3
											Gn	3
26.23	31.00	4.77	GRD	MG	Unaltered granodiorite with minor zones of weak propylitic alteration. Propylitic altered zones are slightly siliceous and carry quartz veining. Granodiorite is highly fractured from 35-40m and cut by low angle (<10 degrees) quartz veins.							
						MD	GN	FR	PRO	2I	Sp	1
								PA	SIL	2I	Py	1
31.00	31.70	0.70	GRD	MG	Propylitic altered granodiorite hosting low angle quartz veins that carry disseminated to blebby pyrite.							
						MD	GN				Py	3
31.70	34.53	2.83	GRD	MG	unaltered granodiorite.							
34.53	38.10	3.57	GRD	MG	weakly propylitic altered granodiorite with low angle quartz veining. Highly fractured zone.							
									PRO	2I	Py	2
38.10	53.00	14.90	GRD	MG	Unaltered granodiorite with locally fractured zones.							
53.00	56.41	3.41	GRD	MG	Light green, weakly propylitic to trace phyllic altered granodiorite. Granodiorite is locally quartz/pyrite flooded and has locally siliceous intervals. Ends at contact with light brown/green quartz feldspar porphyry dyke.							
						LT	WH	PA	PHC	1I	Py	4
						LT	GN		PRO	2I		
									SIL	2I		
56.41	58.06	1.65	QFP	FG	Light green to faintly brown, fine grained quartz feldspar porphyry dyke cutting granodiorite. Dyke has a minor finger of granodiorite within (25cm) at 58m. Dyke is weakly fractured and has microstringers of carbonate throughout. Lower footwall contact is anastomosing and slightly gradational.							
						LT	BR	PA			Py	2
						LT	GN					
58.06	58.28	0.22	GRD	MG	Propylitic altered granodiorite interval within quartz feldspar porphyry dyke. Hosts minor disseminated pyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	2I	Py	3
58.28	59.74	1.46	QFP	FG	Light green to faintly brown, fine grained quartz feldspar porphyry dyke cutting granodiorite. Dyke has a minor finger of granodiorite within (25cm) at 58m. Dyke is weakly fractured and has microstringers of carbonate throughout. Lower footwall contact is anastomosing and slightly gradational.							
59.74	70.41	10.67	GRD	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite.							
						MD	GN		PRO	2I	Py	2
						MD	WH		ARG	3I	Gn	0.1
						LT	GN	PA	SIL	2I	Sp	0.1
									PRO	3I		
									ARG	2I		
70.41	73.80	3.39	GRD	MG	medium grained, unaltred to trace propylitic altered granodiorite. Trace narrow carbonate striners present within.							
73.80	84.00	10.20	GRD	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite.							
						MD	GN		ARG	2I	Sp	1
						MD	WH		PRO	2I	Py	3
						LT	GN	PA	PRO	3I	Cp	1
									SIL	2I	Gn	1
84.00	88.74	4.74	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.							
						MD	GN	PA	ARG	1I	Gn	0.1
											Sp	0.1
											As	0.1
									PRO	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Cp	0.1
88.74	89.70	0.96	GRD	MG	Propylitic to weakly phyllic altered granodiorite within large unaltered interval. Quartz veinlets throughout.							
						MD	GN					
						LT	GN					
89.70	108.38	18.68	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.							
108.38	109.10	0.72	GRD	MG	weakly propylitic altered granodiorite with minor carbonate/quartz stringers that host disseminated pyrite. Minor breccia textures present in veinlets.							
						MD	GN	BX	PRO	2I	Py	3
109.10	121.79	12.69	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.							
121.79	125.30	3.51	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
						MD	GN				As	1
						MD	WH				Gn	1
						LT	GN	PA			Sp	1
											Py	1
125.30	125.60	0.30	VEN	CG	Quartz vein found within argillic/phyllic altered granodiorite that has been overprinted within silica flooding. Quartz vein is composed of massive pyrite.							
						MD	WH	MA	PHC	4I	Py	70
						LT	WH		ARG	2I		
									SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
125.60	132.22	6.62	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
132.22	137.70	5.48	GRD	MG	Unaltered to trace propylitic altered granodiorite with minor quartz carbonate stringers throughout. Local patches of decomposed and crumbling argillic altered granodiorite within (134m)							
						MD	WH	PA	ARG	3I		
						MD	GN	FR	ARG	2I	Py	1
									PRO	2I		
137.70	144.00	6.30	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
						MD	WH	PA	ARG	3I	Py	2
						MD	GN		PRO	2I		
						LT	GN		PHC	3I		
									ARG	2I		
									PHC	2I		
144.00	146.34	2.34	GRD	MG	unaltered granodiorite at end of hole.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.04	1.04	-?-	---	--	No recovery - Overburden - Casing
1.04	12.60	11.56	QFP	DYK	FG	brown weathering quartz feldspar porphyry dyke that is light grey in colour outside of weathered zones. Dyke is highly fractured and rubbly in places, with local fault zones within.
12.60	17.31	4.71	GRD	GRD	MG	Unaltered granodiorite with local areas of weakly propylitic alteration. Minor oxidation found along fractures.
17.31	17.42	0.11	GRD	GRDM	MG	Argillic altered granodiorite with trace zones of propylitic overprinting. Local unaltered zones intermittently within. Altered granodiorite carries pyrite stringers and veinlets throughout. 20cm zone of green brecciated dyke found within granodiorite.
17.42	17.65	0.23	QFP	GRDM	FG	green brecciated quartz feldspar porphyry dyke found within granodiorite.
17.65	19.53	1.88	GRD	GRDM	MG	Argillic altered granodiorite with trace zones of propylitic overprinting. Local unaltered zones intermittently within. Altered granodiorite carries pyrite stringers and veinlets throughout. 20cm zone of green brecciated dyke found within granodiorite.
19.53	20.88	1.35	GRD	GRDM	MG	Unaltered granodiorite.
20.88	26.23	5.35	GRD	GRDM	MG	Mineralized zone of phyllic to argillic altered granodiorite with narrow propylitic/chlorite altered zones. Granodiorite hosts abundant stringers, veinlets and vein zones throughout which host sulphide mineralization. Mineralized zones are locally associated with gouged shear/joint/fault zones.
26.23	31.00	4.77	GRD	GRD	MG	Unaltered granodiorite with minor zones of weak propylitic alteration. Propylitic altered zones are slightly siliceous and carry quartz veining. Granodiorite is highly fractured from 35-40m and cut by low angle (<10 degrees) quartz veins.
31.00	31.70	0.70	GRD	GRD	MG	Propylitic altered granodiorite hosting low angle quartz veins that carry disseminated to blebby pyrite.
31.70	34.53	2.83	GRD	GRD	MG	unaltered granodiorite.
34.53	38.10	3.57	GRD	GRD	MG	weakly propylitic altered granodiorite with low angle quartz veining. Highly fractured zone.
38.10	53.00	14.90	GRD	GRD	MG	Unaltered granodiorite with locally fractured zones.
53.00	56.41	3.41	GRD	GRDA	MG	Light green, weakly propylitic to trace phyllic altered granodiorite. Granodiorite is locally quartz/pyrite flooded and has locally siliceous intervals. Ends at contact with light brown/green quartz feldspar porphyry dyke.
56.41	58.06	1.65	QFP	DYK	FG	Light green to faintly brown, fine grained quartz feldspar porphyry dyke cutting granodiorite. Dyke has a minor finger of granodiorite within (25cm) at 58m. Dyke is weakly fractured and has microstringers of carbonate throughout. Lower footwall contact is anastomosing and slightly gradational.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
58.06	58.28	0.22	GRD	DYK	MG	Propylitic altered granodiorite interval within quartz feldspar porphyry dyke. Hosts minor disseminated pyrite.
58.28	59.74	1.46	QFP	DYK	FG	Light green to faintly brown, fine grained quartz feldspar porphyry dyke cutting granodiorite. Dyke has a minor finger of granodiorite within (25cm) at 58m. Dyke is weakly fractured and has microstringers of carbonate throughout. Lower footwall contact is anastomosing and slightly gradational.
59.74	70.41	10.67	GRD	GRDM	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite.
70.41	73.80	3.39	GRD	GRD	MG	medium grained, unaltred to trace propylitic altered granodiorite. Trace narrow carbonate striners present within.
73.80	84.00	10.20	GRD	GRDM	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite.
84.00	88.74	4.74	GRD	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.
88.74	89.70	0.96	GRD	GRD	MG	Propylitic to weakly phyllic altered granodiorite within large unaltered interval. Quartz veinlets throughout.
89.70	108.38	18.68	GRD	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.
108.38	109.10	0.72	GRD	GRD	MG	weakly propylitic altered granodiorite with minor carbonate/quartz stringers that host disseminated pyrite. Minor breccia textures present in veinlets.
109.10	121.79	12.69	GRD	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.
121.79	125.30	3.51	GRD	GRDM	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.
125.30	125.60	0.30	VEN	VEIN	CG	Quartz vein found within argillic/phyllic altered granodiorite that has been overprinted within silica flooding. Quartz vein is composed of massive pyrite.
125.60	132.22	6.62	GRD	GRDM	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.
132.22	137.70	5.48	GRD	GRD	MG	Unaltered to trace propylitic altered granodiorite with minor quartz carbonate stringers throughout. Local patches of decomposed and crumbling argillic altered granodiorite within (134m)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
137.70	144.00	6.30	GRD	GRDM	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.
144.00	146.34	2.34	GRD	GRD	MG	unaltered granodiorite at end of hole.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.04	1.04	-?-	--	No recovery - Overburden - Casing							
1.04	12.60	11.56	QFP	FG	brown weathering quartz feldspar porphyry dyke that is light grey in colour outside of weathered zones. Dyke is highly fractured and rubbly in places, with local fault zones within.							
						LT	BR	RB	OXI	2I		
						LT	GY					
12.60	17.31	4.71	GRD	MG	Unaltered granodiorite with local areas of weakly propylitic alteration. Minor oxidation found along fractures.							
						MD	GY	FR	PRO	2I		
						LT	GN		PRO	1I		
17.31	26.23	8.92	GRD	MG	Argillic altered granodiorite with trace zones of propylitic overprinting. Local unaltered zones intermittently within. Altered granodiorite carries pyrite stringers and veinlets throughout. Altered granodiorite zones carry quartz carbonate veinlet zones, veins and breccia veins which host galena, pyrite, sphalerite.							
											As	2
						LT	GN		PRO	1I	Sp	2
						MD	WH	FR	ARG	2I	Py	2
											Gn	2
26.23	53.00	26.77	GRD	MG	Unaltered granodiorite with minor zones of weak propylitic alteration. Propylitic altered zones are slightly siliceous and carry quartz veining. Granodiorite is highly fractured from 35-40m and cut by low angle (<10 degrees) quartz veins.							
								FR	SIL	2I	Py	1
						MD	GN	PA	PRO	2I	Sp	1
53.00	56.41	3.41	GRD	MG	Light green, weakly propylitic to trace phyllic altered granodiorite. Granodiorite is locally quartz/pyrite flooded and has locally siliceous intervals. Ends at contact with light brown/green quartz feldspar porphyry dyke.							
						LT	WH	PA	SIL	2I	Py	4
						LT	GN		PHC	1I		
									PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
56.41	59.74	3.33	QFP	FG	Light green to faintly brown, fine grained quartz feldspar porphyry dyke cutting granodiorite. Dyke has a minor finger of granodiorite within (25cm) at 58m. Dyke is weakly fractured and has microstringers of carbonate throughout. Lower footwall contact is anastomosing and slightly gradational.							
						LT	BR	PA			Py	2
						LT	GN					
59.74	70.41	10.67	GRD	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite.							
						LT	GN		PRO	3I	Sp	0.1
									PRO	2I		
						MD	WH		SIL	2I	Py	2
									ARG	3I		
						MD	GN	PA	ARG	2I	Gn	0.1
70.41	73.80	3.39	GRD	MG	medium grained, unaltred to trace propylitic altered granodiorite. Trace narrow carbonate striners present within.							
73.80	84.00	10.20	GRD	MG	Variably altered zone of propylitic to argillic/propylitic altered granodiorite, with very narrow unaltered zones within. Granodiorite is cut by stringers and veinlets throughout entire interval that are mineralized with pyrite +- galena, sphalerite, chalcopyrite.							
									SIL	2I	Cp	1
						MD	GN		PRO	2I	Gn	1
						LT	GN		PRO	3I	Py	3
						MD	WH	PA	ARG	2I	Sp	1
84.00	121.79	37.79	GRD	MG	Large interval of unalered granodiorite that has itermittent, but generally narrow propylitic +- argillic alteration zones that host sulphide bearing veinlets and veining. Sulphide comprises dominantly pyrite.							
									ARG	1I	As	0.1
						MD	GN	PA	PRO	2I	Sp	0.1
											Cp	0.1
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.1
121.79	125.30	3.51	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
											Sp	1
						MD	GN				Gn	1
						LT	GN				As	1
						MD	WH	PA			Py	1
125.30	125.60	0.30	VEN	CG	Quartz vein found within argillic/phyllic altered granodiorite that has been overprinted within silica flooding. Quartz vein is composed of massive pyrite.							
						MD	WH	MA	PHC	4I	Py	70
									SIL	3I		
						LT	WH		ARG	2I		
125.60	132.22	6.62	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
132.22	137.70	5.48	GRD	MG	Unaltered to trace propylitic altered granodiorite with minor quartz carbonate stringers throughout. Local patches of decomposed and crumbling argillic altered granodiorite within (134m)							
						MD	GN	PA	PRO	2I		
						MD	WH	FR	ARG	3I	Py	1
									ARG	2I		
137.70	144.00	6.30	GRD	MG	Variably altered, alternating zones of argillic, propylitic, phyllic and propylitic/argillic altered granodiorite that host quartz veining throughout. Veining is mineralized, with sulphide amount and content dependant on alteration type proximal to veins.							
									PHC	3I		
						MD	WH	PA	ARG	3I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN		PRO	2I		
						LT	GN		ARG	2I		
									PHC	2I		
144.00	146.34	2.34	GRD	MG	unaltered granodiorite at end of hole.							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.04	1.04	0	0	0.00	0	--	--	--	OVB
1.04	1.52	0.48	0.44	92	0.00	0	--	1H	6W	OVB
1.52	3.04	1.52	1.03	68	0.00	0	--	1H	5W	Highly fractured
3.04	4.57	1.53	1.34	88	0.18	12	--	1H	5W	
4.57	6.09	1.52	1.18	78	0.16	11	--	1H	5W	
6.09	7.62	1.53	1.38	90	0.96	63	--	1H	4W	
7.62	9.14	1.52	1.31	86	0.90	59	--	2H	4W	
9.14	10.67	1.53	1.32	86	0.53	35	--	1H	4W	
10.67	12.19	1.52	1.48	97	0.59	39	--	2H	3W	
12.19	13.72	1.53	1.45	95	0.50	33	--	2H	4W	
13.72	15.24	1.52	1.23	81	0.77	51	--	3H	3W	
15.24	16.76	1.52	1.52	100	0.89	59	--	2H	2W	
16.76	18.29	1.53	1.46	95	0.77	50	--	3H	2W	
18.29	21.34	3.05	2.61	86	1.31	43	--	3H	3W	
21.34	22.86	1.52	1.22	80	0.29	19	--	4H	2W	
22.86	25.91	3.05	2.59	85	1.43	47	--	3H	1W	
25.91	28.96	3.05	2.82	92	2.06	68	--	4H	1W	
28.96	31.79	2.83	2.76	98	1.96	69	--	4H	1W	
31.79	33.07	1.28	1.05	82	0.14	11	--	3H	2W	
33.07	34.75	1.68	1.64	98	0.88	52	--	3H	1W	
34.75	36.06	1.31	1.14	87	0.40	31	--	3H	1W	
36.06	38.10	2.04	1.85	91	0.51	25	--	4H	1W	
38.10	41.15	3.05	2.64	87	1.17	38	--	4H	1W	
41.15	43.43	2.28	2.19	96	1.65	72	--	4H	1W	
43.43	46.54	3.11	2.87	92	2.39	77	--	4H	1W	
46.54	49.68	3.14	3.05	97	3.00	96	--	4H	1W	
49.68	52.82	3.14	3.05	97	2.83	90	--	4H	1W	
52.82	53.34	0.52	0.5	96	0.39	75	--	3H	1W	
53.34	56.39	3.05	3.05	100	2.88	94	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
56.39	58.06	1.67	1.57	94	0.90	54	--	3H	1W	
58.06	59.44	1.38	1.36	99	0.52	38	--	3H	1W	
59.44	62.48	3.04	2.98	98	2.63	87	--	4H	1W	
62.48	65.53	3.05	3.05	100	2.98	98	--	4H	1W	
65.53	67.82	2.29	2.29	100	1.63	71	--	3H	1W	
67.82	70.87	3.05	3.03	99	2.73	90	--	3H	1W	
70.87	72.15	1.28	1.18	92	1.08	84	--	4H	1W	
72.15	74.68	2.53	2.53	100	2.40	95	--	4H	1W	
74.68	76.20	1.52	1.52	100	1.52	100	--	4H	1W	
76.20	79.25	3.05	3.05	100	2.62	86	--	4H	1W	
79.25	82.30	3.05	2.99	98	2.28	75	--	3H	1W	
82.30	84.73	2.43	2.43	100	1.08	44	--	3H	1W	
84.73	87.26	2.53	2.53	100	1.90	75	--	4H	1W	
87.26	89.92	2.66	2.66	100	2.33	88	--	4H	1W	
89.92	92.96	3.04	2.99	98	2.90	95	--	4H	1W	
92.96	96.01	3.05	3.02	99	2.77	91	--	4H	1W	
96.01	98.85	2.84	2.62	92	2.10	74	--	3H	1W	
98.85	101.96	3.11	2.7	87	1.58	51	--	3H	1W	
101.96	105.00	3.04	2.83	93	2.52	83	--	4H	1W	
105.00	108.05	3.05	2.89	95	2.41	79	--	4H	1W	
108.05	110.03	1.98	1.73	87	0.69	35	--	3H	2W	
110.03	112.78	2.75	2.41	88	1.52	55	--	3H	2W	
112.78	115.06	2.28	2.03	89	1.70	75	--	4H	1W	
115.06	117.35	2.29	1.96	86	1.59	69	--	4H	1W	
117.35	118.87	1.52	1.36	89	0.93	61	--	4H	1W	
118.87	121.92	3.05	2.75	90	2.04	67	--	4H	1W	
121.92	124.97	3.05	2.74	90	1.98	65	--	4H	1W	
124.97	126.49	1.52	1.42	93	1.19	78	--	3H	2W	
126.49	128.02	1.53	1.21	79	0.47	31	--	3H	1W	
128.02	131.06	3.04	2.88	95	1.52	50	--	4H	1W	
131.06	132.59	1.53	1.4	92	1.00	65	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
132.59	135.64	3.05	2.67	88	1.25	41	--	2H	3W	
135.64	137.16	1.52	1.44	95	0.96	63	--	3H	1W	
137.16	140.21	3.05	2.57	84	1.66	54	--	3H	2W	
140.21	141.73	1.52	1.51	99	0.96	63	--	4H	1W	
141.73	144.78	3.05	2.53	83	1.13	37	--	3H	2W	
144.78	146.34	1.56	1.54	99	1.13	72	--	4H	1W	

Magnetic Suscepatibility

KL -19-465

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	-?-	Highly fractured
2	0	QFP	Highly fractured
3	0.147	QFP	
4	0.16	QFP	
5	0.199	QFP	
6	0.163	QFP	
7	0.142	QFP	
8	0.363	QFP	
9	0.224	QFP	
10	0.236	QFP	
11	0.282	QFP	
12	0.221	QFP	
13	1.192	GRD	
14	17.56	GRD	
15	6.105	GRD	
16	12.13	GRD	
17	5.218	GRD	
18	1.089	GRD	
19	3.404	GRD	
20	6.719	GRD	
21	0.614	GRD	
22	0.312	GRD	
23	0.206	GRD	
24	0.205	GRD	
25	0.541	GRD	
26	15.06	GRD	
27	14.6	GRD	
28	10.45	GRD	
29	17.56	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	8.368	GRD	
31	10.61	GRD	
32	0.298	GRD	
33	0.283	GRD	
34	5.548	GRD	
35	0	GRD	Highly fractured
36	14.24	GRD	
37	9.552	GRD	
38	0	GRD	Highly fractured
39	4.059	GRD	
40	2.418	GRD	
41	11.41	GRD	
42	4.789	GRD	
43	0.888	GRD	
44	0.418	GRD	
45	8.89	GRD	
46	14.55	GRD	
47	7.251	GRD	
48	0.242	GRD	
49	2.472	GRD	
50	15.66	GRD	
51	12.71	GRD	
52	13.92	GRD	
53	0.896	GRD	
53	0.896	GRD	
54	4.279	GRD	
55	0.502	GRD	
56	0.481	GRD	
57	0.259	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
58	0.523	QFP	
59	0.27	QFP	
60	0.463	GRD	
61	0.994	GRD	
62	0.423	GRD	
63	0.399	GRD	
64	0.758	GRD	
65	0.328	GRD	
66	0.403	GRD	
67	0.411	GRD	
68	3.094	GRD	
69	4.378	GRD	
70	0.363	GRD	
71	0.893	GRD	
72	12.21	GRD	Fractured
73	11.77	GRD	
74	0.738	GRD	
75	0.456	GRD	
76	0.524	GRD	
77	0.652	GRD	
78	0.526	GRD	
79	0.419	GRD	
80	0.433	GRD	
81	0.326	GRD	
82	0.678	GRD	
83	0.168	GRD	
84	0.517	GRD	
84	0.517	GRD	
85	7.123	GRD	
86	0.702	GRD	
87	0.445	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
88	0.422	GRD	
89	0.106	GRD	
90	0.583	GRD	
91	0.469	GRD	
92	0.845	GRD	
93	11.93	GRD	
94	0.279	GRD	
95	13.13	GRD	
96	0.943	GRD	
97	1.45	GRD	
98	17.81	GRD	
99	22.11	GRD	
100	7.352	GRD	
101	0.518	GRD	
102	0.468	GRD	
103	0.443	GRD	
104	10.12	GRD	
105	21.43	GRD	
106	18.21	GRD	
107	0.498	GRD	
108	0.612	GRD	
108	0.479	GRD	
109	10.44	GRD	Highly fractured
110	15.64	GRD	
111	3.528	GRD	
112	15.74	GRD	
113	17.24	GRD	
114	9.457	GRD	
115	0.526	GRD	
116	9.795	GRD	
117	2.405	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
118	7.292	GRD	
119	14.27	GRD	
120	1.792	GRD	
121	4.925	GRD	
122	0.318	GRD	
123	0.227	GRD	
124	13.92	GRD	
125	0.432	GRD	
126	0.196	GRD	
127	3.525	GRD	
128	0.321	GRD	
129	0.403	GRD	
130	10.43	GRD	
131	6.922	GRD	
132	12.9	GRD	
133	11.9	GRD	
134	0.495	GRD	
135	7.285	GRD	
136	12.4	GRD	
137	6.018	GRD	
138	8.306	GRD	
139	1.651	GRD	
140	0.416	GRD	
141	10.38	GRD	
142	0.341	GRD	
143	0.574	GRD	
144	10.89	GRD	
144	10.89	GRD	
145	10.13	GRD	
146	2.554	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-465

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W594322	☐	19-105	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594328	☐	19-105	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594338	☐	19-109	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594354	☐	19-109	low grade	ME-6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594367	☐	19-109	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594300	☐	19-105	low grade	ME-6	☐	☐	☐
5.40	6.40	1.00	QFP	0.80	80	W594294	☐	19-105	low grade		☐	☐	☐
17.31	18.51	1.20	GRD, GRD	1.20	100	W594295	☐	19-105	low grade		☐	☐	☐
18.51	19.59	1.08	GRD	1.08	100	W594296	☐	19-105	low grade		☐	☐	☐
19.59	20.81	1.22	GRD	1.22	100	W594297	☐	19-105	low grade		☐	☐	☐
20.81	21.98	1.17	GRD	1.17	100	W594298	☐	19-105	low grade		☐	☐	☐
21.98	22.98	1.00	GRD	1.00	100	W594299	☐	19-105	low grade		☐	☐	☐
22.98	23.84	0.86	GRD	0.76	88	W599254	☐	19-085	high grade		☐	☐	☐
23.84	25.24	1.40	GRD	1.40	100	W594302	☐	19-105	low grade		☐	☐	☐
25.24	26.18	0.94	GRD	0.94	100	W594303	☐	19-105	low grade		☐	☐	☐
26.18	27.11	0.93	GRD	0.93	100	W594304	☐	19-105	low grade		☐	☐	☐
30.60	31.79	1.19	GRD	1.19	100	W594305	☐	19-105	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
31.79	32.77	0.98	GRD	0.98	100	W594306	☐	19-105	low grade		☐	☐	☐
31.79	32.77	0.98	GRD	0.98	100	W594307	☐	19-105	low grade		☐	☐	☑
32.77	34.89	2.12	GRD	2.12	100	W594308	☐	19-105	low grade		☐	☐	☐
34.89	36.06	1.17	GRD	1.02	87	W594309	☐	19-105	low grade		☐	☐	☐
36.06	38.67	2.61	GRD	2.38	91	W594310	☐	19-105	low grade		☐	☐	☐
38.67	39.40	0.73	GRD	0.73	100	W594311	☐	19-105	low grade		☐	☐	☐
39.40	42.34	2.94	GRD	2.77	94	W594312	☐	19-105	low grade		☐	☐	☐
42.34	43.33	0.99	GRD	0.99	100	W594313	☐	19-105	low grade		☐	☐	☐
43.33	43.68	0.35	GRD	0.35	100	W594301	☐	19-105	low grade		☐	☐	☐
43.68	44.55	0.87	GRD	0.87	100	W594314	☐	19-105	low grade		☐	☐	☐
43.68	44.55	0.87	GRD	0.87	100	W594315	☐	19-105	low grade		☐	☑	☐
44.55	45.53	0.98	GRD	0.98	100	W594316	☐	19-105	low grade		☐	☐	☐
45.53	48.45	2.92	GRD	2.92	100	W594317	☐	19-105	low grade		☐	☐	☐
48.45	48.92	0.47	GRD	0.47	100	W594318	☐	19-105	low grade		☐	☐	☐
51.81	52.92	1.11	GRD	1.11	100	W594319	☐	19-105	low grade		☐	☐	☐
52.92	54.49	1.57	GRD	1.57	100	W594320	☐	19-105	low grade		☐	☐	☐
54.49	54.86	0.37	GRD	0.37	100	W594321	☐	19-105	low grade		☐	☐	☐
54.86	56.42	1.56	GRD	1.56	100	W594323	☐	19-105	low grade		☐	☐	☐
56.42	58.03	1.61	QFP	1.51	94	W594324	☐	19-105	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
58.03	59.78	1.75	QFP	1.65	94	W594325	☐	19-105	low grade		☐	☐	☐
59.78	60.19	0.41	GRD	0.41	100	W594326	☐	19-105	low grade		☐	☐	☐
60.19	62.35	2.16	GRD	2.16	100	W594327	☐	19-105	low grade		☐	☐	☐
62.35	63.93	1.58	GRD	1.58	100	W594329	☐	19-105	low grade		☐	☐	☐
63.93	64.88	0.95	GRD	0.95	100	W594330	☐	19-105	low grade		☐	☐	☐
64.88	66.16	1.28	GRD	1.28	100	W594331	☐	19-105	low grade		☐	☐	☐
66.16	67.29	1.13	GRD	1.13	100	W594332	☐	19-105	low grade		☐	☐	☐
67.29	68.25	0.96	GRD	0.96	100	W594333	☐	19-105	low grade		☐	☐	☐
68.25	69.79	1.54	GRD	1.54	100	W594334	☐	19-109	low grade		☐	☐	☐
69.79	70.56	0.77	GRD	0.77	100	W594335	☐	19-109	low grade		☐	☐	☐
70.56	73.56	3.00	GRD	3.00	100	W594336	☐	19-109	low grade		☐	☐	☐
73.56	74.63	1.07	GRD	1.07	100	W594337	☐	19-109	low grade		☐	☐	☐
74.63	74.93	0.30	GRD	0.30	100	W599256	☐	19-085	high grade		☐	☐	☐
74.93	76.45	1.52	GRD	1.52	100	W594339	☐	19-109	low grade		☐	☐	☐
76.45	78.13	1.68	GRD	1.68	100	W594340	☐	19-109	low grade		☐	☐	☐
78.13	78.45	0.32	GRD	0.32	100	W594341	☐	19-109	low grade		☐	☐	☐
78.45	79.55	1.10	GRD	1.10	100	W594342	☐	19-109	low grade		☐	☐	☐
79.55	80.35	0.80	GRD	0.80	100	W594343	☐	19-109	low grade		☐	☐	☐
79.55	80.35	0.80	GRD	0.80	100	W594344	☐	19-109	low grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
80.35	80.86	0.51	GRD	0.51	100	W599258	☐	19-085	high grade		☐	☐	☐
80.86	81.68	0.82	GRD	0.82	100	W594345	☐	19-109	low grade		☐	☐	☐
81.68	83.88	2.20	GRD	2.20	100	W594346	☐	19-109	low grade		☐	☐	☐
83.88	86.46	2.58	GRD	2.48	96	W594347	☐	19-109	low grade		☐	☐	☐
86.46	87.34	0.88	GRD	0.88	100	W594348	☐	19-109	low grade		☐	☐	☐
87.34	88.76	1.42	GRD	1.42	100	W594349	☐	19-109	low grade		☐	☐	☐
88.76	89.78	1.02	GRD	1.02	100	W594350	☐	19-109	low grade		☐	☐	☐
89.78	91.27	1.49	GRD	1.49	100	W594351	☐	19-109	low grade		☐	☐	☐
91.27	92.59	1.32	GRD	1.32	100	W594352	☐	19-109	low grade		☐	☐	☐
100.04	101.56	1.52	GRD	1.52	100	W594353	☐	19-109	low grade		☐	☐	☐
101.56	103.25	1.69	GRD	1.59	94	W594355	☐	19-109	low grade		☐	☐	☐
106.91	107.93	1.02	GRD	1.02	100	W594356	☐	19-109	low grade		☐	☐	☐
107.93	109.12	1.19	GRD	1.19	100	W594357	☐	19-109	low grade		☐	☐	☐
109.12	110.03	0.91	GRD	0.91	100	W594358	☐	19-109	low grade		☐	☐	☐
117.55	118.25	0.70	GRD	0.70	100	W594359	☐	19-109	low grade		☐	☐	☐
120.60	121.92	1.32	GRD	1.32	100	W594360	☐	19-109	low grade		☐	☐	☐
121.92	123.62	1.70	GRD	1.70	100	W594361	☐	19-109	low grade		☐	☐	☐
123.62	124.64	1.02	GRD	1.02	100	W594362	☐	19-109	low grade		☐	☐	☐
124.64	125.21	0.57	GRD	0.57	100	W594363	☐	19-109	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
124.64	125.21	0.57	GRD	0.57	100	W594364	☐	19-109	low grade		☐	☑	☐
125.21	125.58	0.37	GRD	0.37	100	W599259	☐	19-085	high grade		☐	☐	☐
125.58	126.13	0.55	VEN	0.55	100	W594365	☐	19-109	low grade		☐	☐	☐
126.13	126.94	0.81	GRD	0.81	100	W594366	☐	19-109	low grade		☐	☐	☐
126.94	128.43	1.49	GRD	1.39	93	W594368	☐	19-109	low grade		☐	☐	☐
128.43	128.79	0.36	GRD	0.36	100	W599260	☐	19-085	high grade		☐	☐	☐
128.79	129.55	0.76	GRD	0.75	99	W594369	☐	19-109	low grade		☐	☐	☐
129.55	131.22	1.67	GRD	1.66	99	W594370	☐	19-109	low grade		☐	☐	☐
131.22	132.36	1.14	GRD	1.14	100	W594371	☐	19-109	low grade		☐	☐	☐
132.36	133.56	1.20	GRD	1.20	100	W594372	☐	19-109	low grade		☐	☐	☐
137.80	138.85	1.05	GRD	0.95	90	W594373	☐	19-109	low grade		☐	☐	☐
138.85	139.59	0.74	GRD	0.74	100	W594374	☐	19-110	low grade		☐	☐	☐
139.59	140.62	1.03	GRD	1.03	100	W594375	☐	19-110	low grade		☐	☐	☐
140.62	142.64	2.02	GRD	2.02	100	W594376	☐	19-110	low grade		☐	☐	☐
142.64	144.00	1.36	GRD	1.36	100	W594377	☐	19-110	low grade		☐	☐	☐
144.00	146.34	2.34	GRD, GRD	2.34	100	W594378	☐	19-110	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	5.40			☐	☐	☐	☐	
19-105	W594300	0.00	0.00	0.29	410	☐	☐	☐	☑ ME-6	
19-105	W594322	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-105	W594328	0.00	0.00	0.29	360	☐	☐	☐	☑ ME-6	
19-109	W594338	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-109	W594354	0.00	0.00	0.25	610	☐	☐	☐	☑ ME-6	
19-109	W594367	0.00	0.00	1.76	1150	☐	☐	☐	☑ KL-STD6	
19-105	W594294	5.40	6.40	0.00	4470	☐	☐	☐	☐	
		6.40	17.31			☐	☐	☐	☐	
19-105	W594295	17.31	18.51	0.02	2240	☐	☐	☐	☐	
19-105	W594296	18.51	19.59	0.03	1860	☐	☐	☐	☐	
19-105	W594297	19.59	20.81	0.01	2360	☐	☐	☐	☐	
19-105	W594298	20.81	21.98	0.01	2730	☐	☐	☐	☐	
19-105	W594299	21.98	22.98	1.09	660	☐	☐	☐	☐	
19-085	W599254	22.98	23.84	2.67	380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-105	W594302	23.84	25.24	0.04	1280	☐	☐	☐	☐	
19-105	W594303	25.24	26.18	0.42	370	☐	☐	☐	☐	
19-105	W594304	26.18	27.11	0.01	2570	☐	☐	☐	☐	
		27.11	30.60			☐	☐	☐	☐	
19-105	W594305	30.60	31.79	0.01	2740	☐	☐	☐	☐	
19-105	W594306	31.79	32.77	0.10	270	☐	☐	☐	☐	
19-105	W594307	31.79	32.77	0.10	300	☐	☑	☐	☐	
19-105	W594308	32.77	34.89	0.04	1850	☐	☐	☐	☐	
19-105	W594309	34.89	36.06	0.12	1000	☐	☐	☐	☐	
19-105	W594310	36.06	38.67	0.03	2520	☐	☐	☐	☐	
19-105	W594311	38.67	39.40	0.42	1490	☐	☐	☐	☐	
19-105	W594312	39.40	42.34	0.09	2300	☐	☐	☐	☐	
19-105	W594313	42.34	43.33	0.03	2910	☐	☐	☐	☐	
19-105	W594301	43.33	43.68	0.11	160	☐	☐	☐	☐	
19-105	W594314	43.68	44.55	0.16	2270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-105	W594315	43.68	44.55	0.09	2180	☑	☐	☐	☐	
19-105	W594316	44.55	45.53	0.02	2320	☐	☐	☐	☐	
19-105	W594317	45.53	48.45	0.01	2280	☐	☐	☐	☐	
19-105	W594318	48.45	48.92	0.10	2230	☐	☐	☐	☐	
		48.92	51.81			☐	☐	☐	☐	
19-105	W594319	51.81	52.92	0.02	2430	☐	☐	☐	☐	
19-105	W594320	52.92	54.49	0.06	2060	☐	☐	☐	☐	
19-105	W594321	54.49	54.86	0.64	190	☐	☐	☐	☐	
19-105	W594323	54.86	56.42	0.09	1880	☐	☐	☐	☐	
19-105	W594324	56.42	58.03	0.00	1800	☐	☐	☐	☐	
19-105	W594325	58.03	59.78	0.16	2670	☐	☐	☐	☐	
19-105	W594326	59.78	60.19	0.02	1410	☐	☐	☐	☐	
19-105	W594327	60.19	62.35	0.02	2210	☐	☐	☐	☐	
19-105	W594329	62.35	63.93	0.02	2320	☐	☐	☐	☐	
19-105	W594330	63.93	64.88	0.07	1440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-105	W594331	64.88	66.16	0.37	260	☐	☐	☐	☐	
19-105	W594332	66.16	67.29	0.05	2020	☐	☐	☐	☐	
19-105	W594333	67.29	68.25	0.07	2310	☐	☐	☐	☐	
19-109	W594334	68.25	69.79	0.03	2090	☐	☐	☐	☐	
19-109	W594335	69.79	70.56	0.10	2020	☐	☐	☐	☐	
19-109	W594336	70.56	73.56	0.05	2250	☐	☐	☐	☐	
19-109	W594337	73.56	74.63	0.31	1930	☐	☐	☐	☐	
19-085	W599256	74.63	74.93	11.40	60	☐	☐	☐	☐	
19-109	W594339	74.93	76.45	0.12	1570	☐	☐	☐	☐	
19-109	W594340	76.45	78.13	0.05	2270	☐	☐	☐	☐	
19-109	W594341	78.13	78.45	2.74	580	☐	☐	☐	☐	
19-109	W594342	78.45	79.55	0.03	2380	☐	☐	☐	☐	
19-109	W594343	79.55	80.35	0.31	2060	☐	☐	☐	☐	
19-109	W594344	79.55	80.35	0.20	2180	☑	☐	☐	☐	
19-085	W599258	80.35	80.86	9.84	110	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-109	W594345	80.86	81.68	0.61	750	☐	☐	☐	☐	
19-109	W594346	81.68	83.88	0.19	1580	☐	☐	☐	☐	
19-109	W594347	83.88	86.46	0.04	2620	☐	☐	☐	☐	
19-109	W594348	86.46	87.34	0.11	1930	☐	☐	☐	☐	
19-109	W594349	87.34	88.76	0.08	2080	☐	☐	☐	☐	
19-109	W594350	88.76	89.78	0.04	2440	☐	☐	☐	☐	
19-109	W594351	89.78	91.27	0.18	2700	☐	☐	☐	☐	
19-109	W594352	91.27	92.59	0.04	2560	☐	☐	☐	☐	
		92.59	######			☐	☐	☐	☐	
19-109	W594353	100.04	101.56	0.01	3190	☐	☐	☐	☐	
19-109	W594355	101.56	103.25	0.02	3070	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-109	W594356	106.91	107.93	0.02	2320	☐	☐	☐	☐	
19-109	W594357	107.93	109.12	0.03	1870	☐	☐	☐	☐	
19-109	W594358	109.12	110.03	0.00	2280	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-109	W594359	117.55	118.25	0.08	2140	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-109	W594360	120.60	121.92	0.11	2030	☐	☐	☐	☐	
19-109	W594361	121.92	123.62	0.46	690	☐	☐	☐	☐	
19-109	W594362	123.62	124.64	0.06	1640	☐	☐	☐	☐	
19-109	W594363	124.64	125.21	0.13	160	☐	☐	☐	☐	
19-109	W594364	124.64	125.21	2.79	610	☑	☐	☐	☐	
19-085	W599259	125.21	125.58	0.56	110	☐	☐	☐	☐	
19-109	W594365	125.58	126.13	0.18	530	☐	☐	☐	☐	
19-109	W594366	126.13	126.94	0.14	720	☐	☐	☐	☐	
19-109	W594368	126.94	128.43	0.07	1590	☐	☐	☐	☐	
19-085	W599260	128.43	128.79	1.00	180	☐	☐	☐	☐	
19-109	W594369	128.79	129.55	0.08	1200	☐	☐	☐	☐	
19-109	W594370	129.55	131.22	0.07	2440	☐	☐	☐	☐	
19-109	W594371	131.22	132.36	0.13	1830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-109	W594372	132.36	133.56	0.02	2230	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-109	W594373	137.80	138.85	0.04	2130	☐	☐	☐	☐	
19-110	W594374	138.85	139.59	0.26	2010	☐	☐	☐	☐	
19-110	W594375	139.59	140.62	0.09	2140	☐	☐	☐	☐	
19-110	W594376	140.62	142.64	0.04	2360	☐	☐	☐	☐	
19-110	W594377	142.64	144.00	0.16	850	☐	☐	☐	☐	
19-110	W594378	144.00	146.34	0.05	2290	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.09	6.38	FT	42	67	NUL	1	light white to grey fault zone within grey quartz feldspar porphyry dyke. Fault is comprised of clay gouge throughout.			
12.31	12.60	FT	42	55	NUL	1	15cm fault zone found along the contact between granodiorite and quartz feldspar porphyry dyke. Rubbly and fault gouged. QFP dyke has carbonate veining along FW of contact.			
18.71	18.79	BX	34	60	NUL	1	fractured black breccia zone cuttting weakly phyllic altered granodiorite. Breccia has cobble sized clasts of granodiorite within, and hosts minor disseminated pyrite.			
								Py	2	DI
22.60	22.70	FT	42	80	NUL	1	Mineralized clay fault zone hosting pyrite. Disseminated pyrite found along the outer selvedges of the fault zone (granodiorite) for up to 15cm. Gouge is pale grey to orange coloured.			
								Py	7	DI
23.00	23.39	VN	37	50	NUL	3	Faulted vein zone within propylitic to phyllic altered granodiorite. Vein zone consists of pale grey to orange clay gouged veinlets found along the outside of a 3.5m quartz vein that hosts disseminated to blebby pyrite, galena, sphalerite, arsenopyrite and trace sulphosalts(?) (ghost bladed arsenopyrite or sulphosalts)			
								Sp	2	DI
								Gn	5	BL
								As	2	BL
								As	2	BA
								Py	5	BL
23.76	23.84	VB	37	85	NUL	1	8cm carbonate vein breccia cutting weakly phyllic/propylitic altered granodiorite. Minor interstitial quartz is present. Vein breccia hosts trace disseminated pyrite.			
								Py	1	DI
24.00	26.18	VT	37	70	NUL	11	carbonate +- quartz veinlets with trace disseminated pyrite, up to 1 cm wide, cutting phyllic altered granodiorite.			
								Py	3	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
25.35	25.55	VN	37	75	NUL	1	clay gouged, faulted, vein that displays moderate oxidation. Vein hosts blebby pyrite. Granodiorite around the vein/fault zone is siliceous.			
								Py	9	BL
32.70	32.77	VT	37	60	NUL	1	Stacked pyrite stringer zone within siliceous, propylitic altered granodiorite zone that is highly fractured.			
								Py	15	DI
33.01	34.00	VT	37	5	NUL	1	low angle quartz vein cutting unaltered granodiorite. Hosts minor pyrite. Trace epidote found along vein selvedges.			
								Py	2	DI
36.03	36.08	VN	37	70	NUL	1	5cm quartz vein hosting blebby to semi-massive pyrite throughout, cutting unaltered granodioriote that is fractured. Pyrite is locally weathered to orange colour. 1cm propylitic alteration halo found around vein.			
								Py	65	BL
38.60	39.00	VN	37	5	NUL	1	Low angle 2cm quartz vein hosting disseminated pyrite. Vein is hosted in trace propylitic altered granodiorite (dominantly unaltered). Found at the end of highly fractured granodiorite zone.			
41.70	41.73	VN	37	15	NUL	1	Low angle quartz vein hosting disseminated pyrite. Vein is hosted in unaltered to trace propylitic altered granodiorite.			
								Py	3	DI
48.67	48.70	BX	34	60	NUL	1	Brecciated quartz-carbonate vein within propylitic altered granodiorite. Displays net texture.			
65.00	66.00	VT	37	70	NUL	5	Quartz +- carbonate veinletss cutting argillic/proplitic altered granodiorite. Veinlets host disseminated galena, sphalerite, arsenopyite and pyrite. Veins are spaced ~80cm apart, but cut granodiorite in pairs. Net textured and weakly crackle brecciated carbonate stringers and veinlets cut granodiorite around this zone at a low angle (15-30TCA).			
								Gn	4	DI
								Sp	5	DI
								As	6	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	6	DI
73.90	73.92	VT	37	80	NUL	1	1.5cm quartz vein hosting blebby pyrite.			
								Py	4	BL
74.68	74.90	VN	37	78	NUL	2	Quartz vein zone found within argillic to phyllic altered granodiorite. Quartz veins carry minor interstitial carbonate. Vein zone comprised of two veins (3, 7cm) and minor vienlets between. Lowest footwall vein hosts blebby pyrite, red to honey brown sphalerite, arsenopyrite and minor disseminated galena. Upper veins are dominated by large bands of bladed arsenopyrite and pyrite with minor sphalerite.			
								Gn	2	DI
								Py	3	BL
								As	8	BA
								Sp	7	BL
78.18	78.19	VN	37	68	NUL	1	pyrite, galena quartz vein hosted in propylitic altered granodiorite.			
								Gn	10	BL
								Py	15	BL
81.61	81.62	VN	37	70	NUL	1	Pyrite vein cuttinng phyllic altered granodiorite.			
								Py	100	BN
86.20	91.00	ST		68	NUL	13	Quartz stringers found throughout trace propylitic altered granodiorite. Stringers have minor presence of carbonate, and host pyrite and chalcopyrite throughout veinlets. Stringer TCA measurements vary from 60 to 90, but on averate are at 68 TCA.			
								Cp	4	DI
								Py	6	DI
91.20	91.22	VN	37	60	NUL	1	1.5cm quartz vein hosted in weakly propylitic altered granodiorite. Vein hosts blebs of pyrite and chalcopyrite.			
								Cp	2	BL
								Py	8	BL
118.18	118.20	VN	37	75	NUL	1	2cm quartz vein hosting blebby pyrite. Found within a mafic, magnetic patch within unaltered granodiorite.			
								Py	6	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
122.60	122.62	VN	37	70	NUL	1	2cm quartz vein hosted in propylitic/phyllic altered granodiorite. Vein hosts blebby pyrite.			
								Py	10	BL
123.61	123.81	VB	37	55	NUL	1	Brecciated and colloform textured quartz-carbonate vein hosted in phyllic altered granodiorite. Breccia vein consists of bands of white carbonate, smokey quartz and milky quartz with interstitial pyrite, galena and sphalerite throughout. Selvedges of breccia vein have pyrite stringers eminating from main vein.			
								As	6	DI
								Py	10	DI
								Gn	4	DI
126.04	126.17	VN	37	85	NUL	0	Quartz vein cutting siliceous, strongly phyllic/argillic altered granodiorite hosting blebby banded pyrite.			
								Py	50	BL
129.46	129.48	VN	37	63	NUL	1	Quartz carbonate vein cutting moderately propylitic/argillic altered granodiorite. Vein hosts banded pyrite.			
								Py	40	BN
131.51	131.62	VN	37	68	NUL	1	quartz-carbonate vein network cutting propylitic altered (chlorite rich) granodiorite. Veinlets host disseminated pyrite with minor disseminated arsenopyite.			
								Py	8	DI
								As	2	DI
132.22	132.23	VT	37	60	NUL	1	1cm quartz veinlet with a propylitic alteration halo found in unaltered granodiorite. Vein hosts disseminated pyrite.			
								Py	4	DI
135.98	136.02	VT	37	70	NUL	2	quartz carbonate veinlets cutting weakly propylitic altered granodiorite.			
139.24	139.27	VB	37	60	NUL	1	quartz-carbonate breccia vein with smokey black breccia. Minor granodiorite clasts (<1mm) in size. Trace disseminated pyrite within.			
								Py	0.5	DI
139.89	140.21	VT	37	68	NUL	2	two quartz-carbonate stringer veins cutting weakly phyllic altered granodiorite. Stringers host banded pyrite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	7	BN
142.65	142.80	VB	37	90	NUL	2	Quartz-carbonate breccia vein zone covering a 5cm breccia vein and multiple mineralized stringers and veinlets eminating from the breccia as a net textured zone. Quartz, smokey quartz and carbonate are interstitially mixed in the breccia zone. Zone hosts disseminated to blebby pyrite, arseenopyrite.			
								As	1	DI
								Py	12	DI

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382845	6889245	1462.029	122.22

ZONE: Eastern BRX

SECTION:

HOLE: KL -19-466

CLAIM: YC37990

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 0m, Out

Drilling Dates: Sep 01 - Oct 02, 2019

Geology Logged By: R. Burke

SURVEY			
Depth (m)	Azimuth	Dip	Method
17	35.06	-50.7	Reflex
122	36.86	-50.5	Reflex

TARGET: Resource infill

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.15	1.15	-?-
1.15	4.9	3.75	GRD
4.9	7	2.1	GRD
7	8	1	FLT
8	9.1	1.1	GRD
9.1	19.5	10.4	GRD
19.5	31	11.5	GRD
31	49.75	18.75	GRD
49.75	53.65	3.9	GRD
53.65	61	7.35	GRD
61	62.45	1.45	GRD
62.45	81.4	18.95	GRD
81.4	87.3	5.9	GRD
87.3	90.74	3.44	GRD
90.74	93.75	3.01	GRD
93.75	104.15	10.4	GRD

SAMPLES	
Numbers:	W594401 to W594450, W594453 to W594500, W595907 to W595915, W599283, W599287 to W599289
Total:	111
Batch:	113, 119, 122, 123
Certificates:	WH19255737, WH19255759, WH19255763, WH19255775

COMMENTS

Hole ended due to reaming shell falling out of rods. Half to full shift required to drill through shell to advance to 125m EOH

104.15	108.5	4.35	GRD
108.5	121	12.5	GRD
121	122.22	1.22	GRD

Box Log

KL -19-466

Klaza

Eastern BRX Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.15	5.43
2	5.43	9.65
3	9.65	13.9
4	13.9	18.15
5	18.15	22
6	22	25.6
7	25.6	29.55
8	29.55	33.56
9	33.56	37.53
10	37.53	41.66
11	41.66	45.91
12	45.91	50.01
13	50.01	54.33
14	54.33	58.49
15	58.49	62.45
16	62.45	66.7
17	66.7	71.07
18	71.07	75.35
19	75.35	79.56
20	79.56	83.36
21	83.36	87.7
22	87.7	92
23	92	95.92
24	95.92	100
25	100	104.15
26	104.15	108.22
27	108.22	112.39
28	112.39	117
29	117	121.3
30	121.3	122.22

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-466									
	61.77	12	NTW	GRD	860.6	555.9	2.54	2.8	
	86.81	20	NTW	GRD	1541	1049.3	2.73	3.1	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.15	1.15	-?-	--	NO recovery							
1.15	4.90	3.75	GRD	MG	Intensely decomposed and crumbly granodiorite that is likely partially overburden mix. Strongly oxidized.							
						MD	BR	RB	OXI	5I		
						MD	OR					
4.90	7.00	2.10	GRD	MG	Strongly oxidized granodiorite that is a result of surface weathering. Granodiorite is strongly fractured and rubbly, with gouge throughouy. No alteration is visible.							
						MD	OR	FR	OXI	4I		
						MD	BR					
7.00	8.00	1.00	FLT	MG	Strongly clay gouged fault zone within granodiorite that displays range of colours from orange, yellow, grey, and deep green. Fault zone has pebble sized clasts of granodiorite throughout, and minor disseminated pyrite. Clasts of granodiorite are propylitic to phyllic altered.							
						MD	GY	RB	PHC	3I	Py	3
						MD	WH		CLY	5I		
						MD	BR		PRO	3I		
						MD	GN					
						MD	OR					
8.00	9.10	1.10	GRD	MG	weakly phyllic altered, pale bleached granodiorite with microfractures of clay gouged throughout from nearby fault zones.							
						LT	BG	PA	PHC	2I		
						LT	GN		CLY	2I		
						LT	WH		PRO	2I		
									OXI	2I		
									ARG	2I		
9.10	12.40	3.30	GRD	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.							
						LT	OR	PA	PRO	2I	Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	FR	OXI	1I	Py	2
									PHC	2I	Gn	2
12.40	13.40	1.00	GRD	MG	Weakly, but pervasively propylitic altered granodiorite with no mineralization.							
						LT	GN					
13.40	15.38	1.98	GRD	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.							
15.38	16.52	1.14	GRD	MG	Weakly but pervasively propylitic altered granodiorite with oxidized fracture planes and trace mineralized stringers.							
						LT	OR		PRO	2I	Py	2
						LT	GN		OXI	1I		
16.52	19.50	2.98	GRD	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.							
19.50	31.00	11.50	GRD	MG	weakly, but pervasively oxidized granodirite with underlying propylitic alteration throughout. Highly fractured. Granodiorite has microfractures that are rehealed with carbonate throughout.							
						LT	OR	FR	OXI	2I		
									PRO	1I		
31.00	49.75	18.75	GRD	MG	Unaltered granodiorite that has sporadic weakly propylitic altered zones within, up to 1m. Alteration is unconmmon throughout. Minor rubble zones present locally. Fractures throughout the area have clay and carbonate infill. Trace sulphide stringers present around 39m.							
						MD	GN	PA	PRO	2I	Py	0.1
49.75	53.65	3.90	GRD	MG	Moderately argillic altered granodiorite with trace propylitic overprinting. Narrow stringers of quartz and carbonate are present througout, along with a single light green, fine grained dyke.							
						MD	WH		ARG	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		PRO	1I	Py	2
									ARG	2I		
53.65	61.00	7.35	GRD	MG	Unaltered granodiorite with narrow sporadic interval of argillic alteration (up to 20cm).							
									ARG	2I		
									ARG	3I		
61.00	61.75	0.75	GRD	MG	Moderately to strongly argillic altered granodiorite with patchy trace propylitic overprinting (minor, spotty texture). 25 cm vein breccia zone found within.							
						MD	WH	PA	ARG	2I	Py	3
						LT	GN	BX	ARG	3I		
									PRO	1I		
61.75	62.00	0.25	BXA	FG	Strongly siliceous quartz carbonate breccia with clasts of smokey quartz and angular granodiorite clasts throughout.							
								BX	SIL	3I	Py	3
62.00	62.45	0.45	GRD	MG	Moderately to strongly argillic altered granodiorite with patchy trace propylitic overprinting (minor, spotty texture). 25 cm vein breccia zone found within.							
62.45	68.55	6.10	GRD	MG	Large interval lof unaltered granodiorite that is sporadically and locally cut by narrow pink aplite dykes. Interval has one area of siliceous phyllic alteration that hosts polymetallic veining (69m) (See detailed/secondary).							
						MD	GY		PHC	3I	Py	1
						MD	GN		SIL	3I	Gn	1
											Sp	1
											As	1
68.55	69.44	0.89	GRD	MG	Strongly siliceous zone of strongly phyllic altered granodiorite. Alteration zone hosts polymetallic veining throughout (See secondary)							
						MD	GN		PHC	4I	Py	5
						MD	GY		SIL	4I	Sp	5
											As	5
69.44	81.40	11.96	GRD	MG	Unaltered granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
81.40	87.30	5.90	GRD	MG	Moderately argillic altered granodiorite that transitions to unaltered granodiorite before becoming moderately siliceous/phyllic altered. Phyllic/siliceous zone is sporadically mneralized throughout with well mineralized polymetallic veins.							
						MD	WH	BN	PHC	3I	Sp	2
						MD	GN		ARG	1I	Gn	2
						MD	GY		SIL	3I	As	2
											Py	2
87.30	90.74	3.44	GRD	MG	Zone of unaltered granodiorite with minor narrow argillic patch.							
90.74	93.75	3.01	GRD	MG	Argillic altered granodiorite zone surrounded by larger unaltered granodiorite zone.							
93.75	104.15	10.40	GRD	MG	Unaltered granodiorite with rubbly zones throughout and minor argilllic patches.							
								PA	ARG	2I		
104.15	108.50	4.35	GRD	MG	Weakly to moderately sliceous and highly fractured zone of granodiorite with minor pyrite throughout.							
108.50	121.00	12.50	GRD	MG	Unaltered granodiorite with minor fractures throughout.							
121.00	122.22	1.22	GRD	MG	Weakly siliceous propylitic altered granodiorite. Hghly fractured and clay gouged.							
						MD	GN	FR	PRO	2I		
									CLY	4I		

KL -19-466

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.15	1.15	-?-	---	--	NO recovery
1.15	4.90	3.75	GRD	GRD	MG	Intensely decomposed and crumbly granodiorite that is likely partially overburden mix. Strongly oxidized.
4.90	7.00	2.10	GRD	GRD	MG	Strongly oxidized granodiorite that is a result of surface weathering. Granodiorite is strongly fractured and rubbly, with gouge throughouy. No alteration is visible.
7.00	8.00	1.00	FLT	FLT	MG	Strongly clay gouged fault zone within granodiorite that displays range of colours from orange, yellow, grey, and deep green. Fault zone has pebble sized clasts of granodiorite throughout, and minor disseminated pyrite. Clasts of granodiorite are propylitic to phyllic altered.
8.00	9.10	1.10	GRD	GRDA	MG	weakly phyllic altered, pale bleached granodiorite with microfractures of clay gouged throughout from nearby fault zones.
9.10	12.40	3.30	GRD	GRDM	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.
12.40	13.40	1.00	GRD	GRDM	MG	Weakly, but pervasively propylitic altered granodiorite with no mineralization.
13.40	15.38	1.98	GRD	GRDM	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.
15.38	16.52	1.14	GRD	GRDM	MG	Weakly but pervasively propylitic altered granodiorite with oxidized fracture planes and trace mineralized stringers.
16.52	19.50	2.98	GRD	GRDM	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.
19.50	31.00	11.50	GRD	GRDA	MG	weakly, but pervasively oxidized granodirite with underlying propylitic alteration throughout. Highly fractured. Granodiorite has microfractures that are rehealed with carbonate throughout.
31.00	49.75	18.75	GRD	GRD	MG	Unaltered granodiorite that has sporadic weakly propylitic altered zones within, up to 1m. Alteration is unconmmon throughout. Minor rubble zones present locally. Fractures throughout the area have clay and carbonate infill. Trace sulphide stringers present around 39m.
49.75	53.65	3.90	GRD	GRDA	MG	Moderately argillic altered granodiorite with trace propylitic overprinting. Narrow stringers of quartz and carbonate are present througout, along with a single light green, fine grained dyke.
53.65	61.00	7.35	GRD	GRD	MG	Unaltered granodiorite with narrow sporadic interval of argillic alteration (up to 20cm).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
61.00	61.75	0.75	GRD	GRDA	MG	Moderately to strongly argillic altered granodiorite with patchy trace propylitic overprinting (minor, spotty texture). 25 cm vein breccia zone found within.
61.75	62.00	0.25	BXA	GRDA	FG	Strongly siliceous quartz carbonate breccia with clasts of smokey quartz and angular granodiorite clasts throughout.
62.00	62.45	0.45	GRD	GRDA	MG	Moderately to strongly argillic altered granodiorite with patchy trace propylitic overprinting (minor, spotty texture). 25 cm vein breccia zone found within.
62.45	68.55	6.10	GRD	GRD	MG	Large interval lof unaltered granodiorite that is sporadically and locally cut by narrow pink aplite dykes. Interval has one area of siliceous phyllic alteration that hosts polymetallic veining (69m) (See detailed/secondary).
68.55	69.44	0.89	GRD	GRD	MG	Strongly siliceous zone of strongly phyllic altered granodiorite. Alteration zone hosts polymetallic veining throughout (See secondary)
69.44	81.40	11.96	GRD	GRD	MG	Unaltered granodiorite.
81.40	87.30	5.90	GRD	GRDA	MG	Moderately argillic altered granodiorite that transitions to unaltered granodiorite before becoming moderately siliceous/phyllic altered. Phyllic/siliceous zone is sporadically mneralized throughout with well mineralized polymetallic veins.
87.30	90.74	3.44	GRD	GRD	MG	Zone of unaltered granodiorite with minor narrow argillic patch.
90.74	93.75	3.01	GRD	GRDA	MG	Argillic altered granodiorite zone surrounded by larger unaltered granodiorite zone.
93.75	104.15	10.40	GRD	GRD	MG	Unaltered granodiorite with rubbly zones throughout and minor argilllic patches.
104.15	108.50	4.35	GRD	GRDA	MG	Weakly to moderately sliceous and highly fractured zone of granodiorite with minor pyrite throughout.
108.50	121.00	12.50	GRD	GRD	MG	Unaltered granodiorite with minor fractures throughout.
121.00	122.22	1.22	GRD	GRDA	MG	Weakly siliceous propylitic altered granodiorite. Hghly fractured and clay gouged.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.15	1.15	-?-	--	NO recovery							
1.15	4.90	3.75	GRD	MG	Intensely decomposed and crumbly granodiorite that is likely partially overburden mix. Strongly oxidized.							
						MD	BR	RB	OXI	5I		
						MD	OR					
4.90	7.00	2.10	GRD	MG	Strongly oxidized granodiorite that is a result of surface weathering. Granodiorite is strongly fractured and rubbly, with gouge throughouy. No alteration is visible.							
						MD	BR					
						MD	OR	FR	OXI	4I		
7.00	8.00	1.00	FLT	MG	Strongly clay gouged fault zone within granodiorite that displays range of colours from orange, yellow, grey, and deep green. Fault zone has pebble sized clasts of granodiorite throughout, and minor disseminated pyrite. Clasts of granodiorite are propylitic to phyllic altered.							
						MD	OR	RB	PHC	3I	Py	3
						MD	WH		CLY	5I		
						MD	GY		PRO	3I		
						MD	BR					
						MD	GN					
8.00	9.10	1.10	GRD	MG	weakly phyllic altered, pale bleached granodiorite with microfractures of clay gouged throughout from nearby fault zones.							
						LT	BG		PRO	2I		
						LT	WH	PA	PHC	2I		
									ARG	2I		
						LT	GN		CLY	2I		
									OXI	2I		
9.10	19.50	10.40	GRD	MG	Interval of alternating pervasive phyllic and propylitic alteration (weak) that carries scattered mineralized stringer, breccia and quartz carbonate vein zones throguhout. Mineralization is seperated by weakly phyllic to propylitic altered granodiorite, up to 1m wide.							
						LT	OR	FR	PHC	2I	Gn	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PA	OXI	1I	Sp	2
									PRO	2I	Py	2
19.50	31.00	11.50	GRD	MG	weakly, but pervasively oxidized granodirite with underlying propylitic alteration throughout. Highly fractured. Granodiorite has microfractures that are rehealed with carbonate throughout.							
						LT	OR	FR	OXI	2I		
									PRO	1I		
31.00	49.75	18.75	GRD	MG	Unaltered granodiorite that has sporadic weakly propylitic altered zones within, up to 1m. Alteration is unconmmon throughout. Minor rubble zones present locally. Fractures throughout the area have clay and carbonate infill. Trace sulphide stringers present around 39m.							
						MD	GN	PA	PRO	2I	Py	0.1
49.75	53.65	3.90	GRD	MG	Moderately argillic altered granodiorite with trace propylitic overprinting. Narrow stringers of quartz and carbonate are present througout, along with a single light green, fine grained dyke.							
						LT	GN		ARG	3I	Py	2
						MD	WH		PRO	1I		
									ARG	2I		
53.65	61.00	7.35	GRD	MG	Unaltered granodiorite with narrow sporadic interval of argillic alteration (up to 20cm).							
									ARG	3I		
									ARG	2I		
61.00	62.45	1.45	GRD	MG	Moderately to strongly argillic altered granodiorite with patchy trace propylitic overprinting (minor, spotty texture). 25 cm vein breccia zone found within.							
									ARG	3I		
						MD	WH	PA	PRO	1I		
						LT	GN	BX	ARG	2I	Py	3
62.45	81.40	18.95	GRD	MG	Large interval lof unaltered granodiorite that is sporadically and locally cut by narrow pink aplite dykes. Interval has one area of siliceous phyllic alteration that hosts polymetallic veining (69m) (See detailed/secondary).							
											Py	1
											As	1
						MD	GN		SIL	3I	Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		PHC	3I	Gn	1
81.40	87.30	5.90	GRD	MG	Moderately argillic altered granodiorite that transitions to unaltered granodiorite before becoming moderately siliceous/phyllic altered. Phyllic/siliceous zone is sporadically mneralized throughout with well mineralized polymetallic veins.							
						MD	GY		SIL	3I	Gn	2
						MD	WH		PHC	3I	Py	2
											Sp	2
						MD	GN	BN	ARG	1I	As	2
87.30	90.74	3.44	GRD	MG	Zone of unaltered granodiorite with minor narrow argillic patch.							
90.74	93.75	3.01	GRD	MG	Argillic altered granodiorite zone surrounded by larger unaltered granodiorite zone.							
93.75	104.15	10.40	GRD	MG	Unaltered granodiorite with rubbly zones throughout and minor argilllic patches.							
								PA	ARG	2I		
104.15	108.50	4.35	GRD	MG	Weakly to moderately sliceous and highly fractured zone of granodiorite with minor pyrite throughout.							
108.50	121.00	12.50	GRD	MG	Unaltered granodiorite with minor fractures throughout.							
121.00	122.22	1.22	GRD	MG	Weakly siliceous propylitic altered granodiorite. Hghly fractured and clay gouged.							
						MD	GN	FR	CLY	4I		
									PRO	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.32	21	0.10	7	--	1H	6W	Overburden
1.52	4.57	3.05	2.55	84	0.00	0	--	1H	6W	Overburden
4.57	7.62	3.05	2.75	90	0.00	0	--	1H	5W	Extremely weathered
7.62	10.67	3.05	2.85	93	0.00	0	--	1H	3W	Very fractured GOU/FBX, moderatly oxidized near top of section
10.67	16.76	6.09	6.05	99	1.90	31	--	2H	2W	Highly fractured through section, more intensly fractured in top 2m of section
16.76	19.81	3.05	3.05	100	0.45	15	--	3H	3W	oxidation on fractures.
19.81	22.86	3.05	3.05	100	0.74	24	--	3H	3W	Oxidation on fractures
22.86	25.91	3.05	2.97	97	1.15	38	--	3H	3W	Oxidation on fractures
25.91	28.96	3.05	3.05	100	1.58	52	--	3H	2W	Some oxidation on fractures
28.96	31.09	2.13	2.06	97	0.00	0	--	3H	3W	rubble zome through majoirty of run. Moderately oxidized throughout. Small GOU<FBX at 29.45m
31.09	33.53	2.44	2.44	100	1.64	67	--	4H	1W	Minor oxidized joint surfaces.
33.53	36.58	3.05	3.02	99	2.24	73	--	4H	1W	
36.58	39.62	3.04	3	99	1.87	62	--	3H	1W	Highly fractured zone (40cm) at 36.58m. Trace of sulphides in joints at 60TAc.
39.62	42.67	3.05	2.95	97	2.59	85	--	3H	1W	
42.67	45.72	3.05	3.05	100	2.53	83	--	4H	1W	
45.72	48.77	3.05	3.05	100	2.37	78	--	4H	1W	
48.77	50.29	1.52	1.5	99	0.87	57	--	4H	1W	
50.29	53.34	3.05	2.99	98	2.77	91	--	3H	1W	
53.34	56.39	3.05	3.05	100	2.55	84	--	4H	1W	
56.39	57.91	1.52	1.52	100	1.40	92	--	4H	2W	
57.91	60.96	3.05	2.95	97	1.80	59	--	4H	2W	
60.96	64.01	3.05	3.05	100	2.51	82	--	3H	2W	
64.01	67.06	3.05	3.05	100	1.49	49	--	4H	1W	
67.06	70.10	3.04	2.93	96	2.63	87	--	4H	1W	
70.10	73.15	3.05	3.05	100	2.32	76	--	4H	1W	
73.15	76.20	3.05	3.05	100	2.43	80	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
76.20	79.25	3.05	3.05	100	1.85	61	--	4H	1W	
79.25	82.30	3.05	2.31	76	0.66	22	--	2H	4W	Highly fractured
82.30	85.34	3.04	2.88	95	1.89	62	--	4H	2W	Oxidized fracture surfaces
85.34	88.39	3.05	2.83	93	1.61	53	--	3H	3W	oxidized fracture/ vein surfaces
88.39	91.44	3.05	2.78	91	1.76	58	--	3H	2W	oxidized fracture surfaces
91.44	94.49	3.05	2.76	90	1.36	45	--	3H	3W	Oxidized fracture surfaces
94.49	97.54	3.05	2.67	88	1.57	51	--	3H	2W	Oxidized fracture surfaces
97.54	100.58	3.04	2.51	83	0.49	16	--	3H	2W	Fractured/ rubble zone
100.58	103.63	3.05	2.79	91	1.44	47	--	4H	2W	Oxidized fracture surfaces
103.63	106.68	3.05	2.48	81	1.11	36	--	4H	2W	Fracture gouge/ clay
106.68	109.73	3.05	2.64	87	1.59	52	--	3H	3W	
109.73	112.78	3.05	2.9	95	1.80	59	--	4H	2W	Oxidized joint surfaces
112.78	115.82	3.04	2.85	94	2.23	73	--	4H	2W	Oxidized joint surfaces
115.82	118.87	3.05	2.88	94	2.39	78	--	4H	2W	
118.87	121.92	3.05	2.42	79	1.38	45	--	3H	2W	Fractured zone
121.92	122.22	0.30	0.2	67	0.00	0	--	1H	3W	rubble

KL -19-466

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0	-?-	
2	0	GRD	
3	0	GRD	
4	0	GRD	
5	0.301	GRD	
6	0.17	GRD	
7	0.19	GRD	
7	0.19	FLT	
8	0.25	GRD	
8	0.25	FLT	
9	0.586	GRD	
10	0.27	GRD	
11	0.25	GRD	
12	0.4	GRD	
13	0.326	GRD	
14	0.27	GRD	
15	0.512	GRD	
16	0.519	GRD	
17	0.354	GRD	
18	0.33	GRD	
19	0.242	GRD	
20	0.85	GRD	
21	0.4	GRD	
22	0.341	GRD	
23	0.17	GRD	
24	0.328	GRD	
25	0.197	GRD	
26	0.133	GRD	
27	0.28	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.311	GRD	
29	0.695	GRD	
30	0.322	GRD	
31	12.99	GRD	
31	12.99	GRD	
32	0.52	GRD	
33	18.17	GRD	
34	9.152	GRD	
35	0.682	GRD	
36	1.369	GRD	
37	0.946	GRD	
38	0.363	GRD	
39	1.372	GRD	
40	0.944	GRD	
41	19.88	GRD	
42	0.366	GRD	
43	0.65	GRD	
44	7.379	GRD	
45	0.828	GRD	
46	21.87	GRD	
47	2.637	GRD	
48	22.17	GRD	
49	21.21	GRD	
50	0.82	GRD	
51	1.747	GRD	
52	0.366	GRD	
53	0.338	GRD	
54	15.7	GRD	
55	24.43	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	8.199	GRD	
57	9.571	GRD	
58	13.96	GRD	
59	11.37	GRD	
60	2.585	GRD	
61	6.679	GRD	
61	6.679	GRD	
62	0.374	GRD	
63	12.65	GRD	
64	19.31	GRD	
65	5.181	GRD	
66	0.395	GRD	
67	0.242	GRD	
68	4.43	GRD	
69	0.714	GRD	
70	17.27	GRD	
71	8.203	GRD	
72	1.189	GRD	
73	14.26	GRD	
74	0.738	GRD	
75	20.77	GRD	
76	1.297	GRD	
77	4.534	GRD	
78	6.317	GRD	
79	17.8	GRD	
80	2.194	GRD	
81	10.68	GRD	highly fractured
82	0.705	GRD	highly fractured
83	13.81	GRD	
84	0.323	GRD	
85	0.764	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
86	0.235	GRD	
87	0.201	GRD	
88	4.832	GRD	
89	1.034	GRD	
90	2.507	GRD	
91	0.312	GRD	
92	0.797	GRD	
93	0.331	GRD	
94	0.141	GRD	
95	0.332	GRD	
96	0.465	GRD	
97	0.67	GRD	
98	2.244	GRD	
99	11.73	GRD	highly fractured
100	3.923	GRD	
101	16.69	GRD	
102	25.81	GRD	
103	22.23	GRD	
104	22.25	GRD	
105	0.198	GRD	
106	0.796	GRD	
107	0.658	GRD	
108	0.155	GRD	
109	18.78	GRD	
110	19.62	GRD	
111	22.32	GRD	
112	21.2	GRD	
113	1.479	GRD	
114	24.08	GRD	
115	26.32	GRD	
116	13.16	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
117	20.43	GRD	
118	13.61	GRD	
119	25	GRD	
120	0.679	GRD	
121	0.242	GRD	
121	0.242	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -19-466

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W594427	☐	19-122	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594466	☐	19-119	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594472	☐	19-119	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594480	☐	19-119	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594500	☐	19-122	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595912	☐	19-123	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599289	☐	19-113	high grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594406	☐	19-122	low grade		☑	☐	☐
2.00	3.50	1.50	GRD	1.50	100	W594453	☐	19-123	low grade		☐	☐	☐
3.50	5.00	1.50	GRD	1.50	100	W594454	☐	19-123	low grade		☐	☐	☐
5.00	6.00	1.00	GRD	1.00	100	W594455	☐	19-123	low grade		☐	☐	☐
6.00	6.91	0.91	GRD	0.87	96	W594456	☐	19-123	low grade		☐	☐	☐
6.91	8.00	1.09	GRD	1.09	100	W594457	☐	19-119	low grade		☐	☐	☐
8.00	9.08	1.08	GRD, FLT	1.08	100	W594458	☐	19-119	low grade		☐	☐	☐
9.08	9.95	0.87	GRD	0.87	100	W594459	☐	19-119	low grade		☐	☐	☐
9.08	9.95	0.87	GRD	0.87	100	W594460	☐	19-119	low grade		☐	☑	☐
9.95	11.40	1.45	GRD	1.35	93	W594461	☐	19-119	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
11.40	12.90	1.50	GRD	1.50	100	W594462	☐	19-119	low grade		☐	☐	☐
12.90	13.58	0.68	GRD	0.68	100	W594463	☐	19-119	low grade		☐	☐	☐
13.58	14.65	1.07	GRD	1.07	100	W594464	☐	19-119	low grade		☐	☐	☐
14.65	15.38	0.73	GRD	0.73	100	W599283	☐	19-113	high grade		☐	☐	☐
15.38	16.52	1.14	GRD	1.14	100	W594465	☐	19-119	low grade		☐	☐	☐
16.52	17.25	0.73	GRD	0.73	100	W594467	☐	19-119	low grade		☐	☐	☐
17.25	17.89	0.64	GRD	0.64	100	W594468	☐	19-119	low grade		☐	☐	☐
17.89	18.55	0.66	GRD	0.66	100	W594469	☐	19-119	low grade		☐	☐	☐
18.55	19.49	0.94	GRD	0.94	100	W594470	☐	19-119	low grade		☐	☐	☐
19.49	21.00	1.51	GRD	1.51	100	W594471	☐	19-119	low grade		☐	☐	☐
21.00	22.50	1.50	GRD	1.50	100	W594473	☐	19-119	low grade		☐	☐	☐
22.50	24.00	1.50	GRD	1.50	100	W594474	☐	19-119	low grade		☐	☐	☐
24.00	25.34	1.34	GRD	1.34	100	W594475	☐	19-119	low grade		☐	☐	☐
25.34	26.00	0.66	GRD	0.66	100	W594476	☐	19-119	low grade		☐	☐	☐
26.00	27.50	1.50	GRD	1.50	100	W594477	☐	19-119	low grade		☐	☐	☐
27.50	29.00	1.50	GRD	1.50	100	W594478	☐	19-119	low grade		☐	☐	☐
29.00	29.63	0.63	GRD	0.63	100	W594479	☐	19-119	low grade		☐	☐	☐
29.63	31.00	1.37	GRD	1.37	100	W594481	☐	19-119	low grade		☐	☐	☐
31.00	32.50	1.50	GRD, GRD	1.50	100	W594482	☐	19-119	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.50	34.00	1.50	GRD	1.50	100	W594483	☐	19-119	low grade		☐	☐	☐
34.00	35.00	1.00	GRD	1.00	100	W594484	☐	19-119	low grade		☐	☐	☐
35.00	36.00	1.00	GRD	1.00	100	W594485	☐	19-119	low grade		☐	☐	☐
35.00	36.00	1.00	GRD	1.00	100	W594486	☐	19-119	low grade		☐	☐	☑
36.00	37.00	1.00	GRD	1.00	100	W594487	☐	19-119	low grade		☐	☐	☐
37.00	38.00	1.00	GRD	1.00	100	W594488	☐	19-119	low grade		☐	☐	☐
38.00	39.26	1.26	GRD	1.26	100	W594489	☐	19-119	low grade		☐	☐	☐
39.26	40.76	1.50	GRD	1.50	100	W594490	☐	19-119	low grade		☐	☐	☐
40.76	42.26	1.50	GRD	1.50	100	W594491	☐	19-119	low grade		☐	☐	☐
42.26	43.75	1.49	GRD	1.49	100	W594492	☐	19-119	low grade		☐	☐	☐
43.75	44.75	1.00	GRD	1.00	100	W594493	☐	19-119	low grade		☐	☐	☐
44.75	45.65	0.90	GRD	0.90	100	W594494	☐	19-119	low grade		☐	☐	☐
45.65	47.15	1.50	GRD	1.50	100	W594495	☐	19-119	low grade		☐	☐	☐
47.15	48.65	1.50	GRD	1.50	100	W594496	☐	19-119	low grade		☐	☐	☐
48.65	49.75	1.10	GRD	1.10	100	W594497	☐	19-122	low grade		☐	☐	☐
49.75	51.25	1.50	GRD, GRD	1.50	100	W594498	☐	19-122	low grade		☐	☐	☐
51.25	52.75	1.50	GRD	1.50	100	W594499	☐	19-122	low grade		☐	☐	☐
52.75	53.65	0.90	GRD	0.90	100	W594401	☐	19-122	low grade		☐	☐	☐
53.65	55.15	1.50	GRD, GRD	1.50	100	W594402	☐	19-122	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
55.15	56.65	1.50	GRD	1.50	100	W594403	☐	19-122	low grade		☐	☐	☐
56.65	58.65	2.00	GRD	2.00	100	W594404	☐	19-122	low grade		☐	☐	☐
58.65	60.15	1.50	GRD	1.50	100	W594405	☐	19-122	low grade		☐	☐	☐
60.15	61.65	1.50	GRD	1.50	100	W594407	☐	19-122	low grade		☐	☐	☐
61.65	62.10	0.45	GRD	0.42	93	W595914	☐	19-123	low grade		☐	☐	☐
62.10	63.00	0.90	GRD	0.90	100	W594408	☐	19-122	low grade		☐	☐	☐
63.00	64.00	1.00	GRD	1.00	100	W594409	☐	19-122	low grade		☐	☐	☐
64.00	65.50	1.50	GRD	1.50	100	W594410	☐	19-122	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W594411	☐	19-122	low grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.50	100	W594412	☐	19-122	low grade		☐	☐	☑
67.00	68.55	1.55	GRD	1.55	100	W594413	☐	19-122	low grade		☐	☐	☐
68.55	69.44	0.89	GRD	0.89	100	W594414	☐	19-122	low grade		☐	☐	☐
69.44	71.00	1.56	GRD	0.56	36	W594415	☐	19-122	low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.50	100	W594416	☐	19-122	low grade		☐	☐	☐
72.50	74.00	1.50	GRD	1.50	100	W594417	☐	19-122	low grade		☐	☐	☐
72.50	74.00	1.50	GRD	1.50	100	W594418	☐	19-122	low grade		☐	☑	☐
74.00	75.50	1.50	GRD	1.50	100	W594419	☐	19-122	low grade		☐	☐	☐
75.50	76.29	0.79	GRD	0.79	100	W594420	☐	19-122	low grade		☐	☐	☐
76.29	77.80	1.51	GRD	1.51	100	W594421	☐	19-122	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
77.80	79.30	1.50	GRD	1.50	100	W594422	☐	19-122	low grade		☐	☐	☐
79.30	80.00	0.70	GRD	0.70	100	W594423	☐	19-122	low grade		☐	☐	☐
80.00	81.46	1.46	GRD	1.46	100	W594424	☐	19-122	low grade		☐	☐	☐
81.46	82.66	1.20	GRD	1.14	95	W594425	☐	19-122	low grade		☐	☐	☐
82.66	83.87	1.21	GRD	1.21	100	W594426	☐	19-122	low grade		☐	☐	☐
83.87	85.42	1.55	GRD	1.55	100	W594428	☐	19-122	low grade		☐	☐	☐
85.42	86.42	1.00	GRD	1.00	100	W599287	☐	19-113	high grade		☐	☐	☐
86.42	87.17	0.75	GRD	0.75	100	W599288	☐	19-113	high grade		☐	☐	☐
87.17	88.67	1.50	GRD	1.50	100	W594429	☐	19-122	low grade		☐	☐	☐
88.67	90.17	1.50	GRD	1.50	100	W594430	☐	19-122	low grade		☐	☐	☐
90.17	90.77	0.60	GRD	0.60	100	W594431	☐	19-122	low grade		☐	☐	☐
90.77	92.27	1.50	GRD	1.50	100	W594432	☐	19-122	low grade		☐	☐	☐
92.27	93.77	1.50	GRD	1.50	100	W594433	☐	19-122	low grade		☐	☐	☐
93.77	95.27	1.50	GRD	1.50	100	W594434	☐	19-122	low grade		☐	☐	☐
95.27	96.77	1.50	GRD	1.50	100	W594435	☐	19-122	low grade		☐	☐	☐
96.77	97.68	0.91	GRD	0.86	95	W594436	☐	19-122	low grade		☐	☐	☐
97.68	98.20	0.52	GRD	0.52	100	W594437	☐	19-123	low grade		☐	☐	☐
98.20	99.70	1.50	GRD	1.50	100	W594438	☐	19-123	low grade		☐	☐	☐
99.70	101.20	1.50	GRD	1.50	100	W594439	☐	19-123	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
99.70	101.20	1.50	GRD	1.50	100	W594440	☐	19-123	low grade		☐	☑	☐
101.20	102.70	1.50	GRD	1.50	100	W594441	☐	19-123	low grade		☐	☐	☐
102.70	104.15	1.45	GRD	1.45	100	W594442	☐	19-123	low grade		☐	☐	☐
104.15	105.07	0.92	GRD, GRD	0.92	100	W594443	☐	19-123	low grade		☐	☐	☐
105.07	106.37	1.30	GRD	1.30	100	W594444	☐	19-123	low grade		☐	☐	☐
106.37	107.87	1.50	GRD	1.50	100	W594445	☐	19-123	low grade		☐	☐	☐
107.87	108.50	0.63	GRD	0.63	100	W594446	☐	19-123	low grade		☐	☐	☐
108.50	110.00	1.50	GRD, GRD	1.50	100	W594447	☐	19-123	low grade		☐	☐	☐
108.50	110.00	1.50	GRD, GRD	1.50	100	W594448	☐	19-123	low grade		☐	☐	☑
110.00	111.50	1.50	GRD	1.50	100	W594449	☐	19-123	low grade		☐	☐	☐
111.50	113.00	1.50	GRD	1.50	100	W594450	☐	19-123	low grade		☐	☐	☐
113.00	114.50	1.50	GRD	1.50	100	W595907	☐	19-123	low grade		☐	☐	☐
114.50	116.00	1.50	GRD	1.50	100	W595908	☐	19-123	low grade		☐	☐	☐
116.00	117.50	1.50	GRD	1.50	100	W595909	☐	19-123	low grade		☐	☐	☐
117.50	119.00	1.50	GRD	1.50	100	W595910	☐	19-123	low grade		☐	☐	☐
119.00	120.50	1.50	GRD	1.50	100	W595911	☐	19-123	low grade		☐	☐	☐
120.50	121.30	0.80	GRD	0.80	100	W595913	☐	19-123	low grade		☐	☐	☐
121.30	122.22	0.92	GRD	0.85	92	W595915	☐	19-123	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	2.00			☐	☐	☐	☐	
19-122	W594406	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-122	W594427	0.00	0.00	1.70	480	☐	☐	☐	☑ KL-STD6	
19-119	W594466	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-119	W594472	0.00	0.00	1.79	540	☐	☐	☐	☑ KL-STD6	
19-119	W594480	0.00	0.00	1.76	120	☐	☐	☐	☑ KL-STD6	
19-122	W594500	0.00	0.00	1.70	310	☐	☐	☐	☑ KL-STD6	
19-123	W595912	0.00	0.00	1.81	130	☐	☐	☐	☑ KL-STD6	
19-113	W599289	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-123	W594453	2.00	3.50	0.45	2520	☐	☐	☐	☐	
19-123	W594454	3.50	5.00	0.21	2640	☐	☐	☐	☐	
19-123	W594455	5.00	6.00	0.03	1830	☐	☐	☐	☐	
19-123	W594456	6.00	6.91	0.08	1430	☐	☐	☐	☐	
19-119	W594457	6.91	8.00	8.50	400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-119	W594458	8.00	9.08	0.03	1610	☐	☐	☐	☐	
19-119	W594459	9.08	9.95	0.07	1910	☐	☐	☐	☐	
19-119	W594460	9.08	9.95	0.08	1890	☑	☐	☐	☐	
19-119	W594461	9.95	11.40	0.05	2650	☐	☐	☐	☐	
19-119	W594462	11.40	12.90	0.03	1260	☐	☐	☐	☐	
19-119	W594463	12.90	13.58	0.13	1590	☐	☐	☐	☐	
19-119	W594464	13.58	14.65	0.03	1460	☐	☐	☐	☐	
19-113	W599283	14.65	15.38	1.11	330	☐	☐	☐	☐	
19-119	W594465	15.38	16.52	0.02	1590	☐	☐	☐	☐	
19-119	W594467	16.52	17.25	0.06	1350	☐	☐	☐	☐	
19-119	W594468	17.25	17.89	0.24	700	☐	☐	☐	☐	
19-119	W594469	17.89	18.55	0.01	2010	☐	☐	☐	☐	
19-119	W594470	18.55	19.49	0.05	2460	☐	☐	☐	☐	
19-119	W594471	19.49	21.00	0.00	2530	☐	☐	☐	☐	
19-119	W594473	21.00	22.50	0.02	2640	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-119	W594474	22.50	24.00	0.14	2640	☐	☐	☐	☐	
19-119	W594475	24.00	25.34	0.03	1190	☐	☐	☐	☐	
19-119	W594476	25.34	26.00	1.10	80	☐	☐	☐	☐	
19-119	W594477	26.00	27.50	0.05	1060	☐	☐	☐	☐	
19-119	W594478	27.50	29.00	0.50	1890	☐	☐	☐	☐	
19-119	W594479	29.00	29.63	1.07	110	☐	☐	☐	☐	
19-119	W594481	29.63	31.00	0.04	2180	☐	☐	☐	☐	
19-119	W594482	31.00	32.50	0.01	2570	☐	☐	☐	☐	
19-119	W594483	32.50	34.00	0.01	2830	☐	☐	☐	☐	
19-119	W594484	34.00	35.00	0.02	2980	☐	☐	☐	☐	
19-119	W594485	35.00	36.00	0.02	2850	☐	☐	☐	☐	
19-119	W594486	35.00	36.00	0.02	2840	☐	☑	☐	☐	coarse up
19-119	W594487	36.00	37.00	0.14	930	☐	☐	☐	☐	
19-119	W594488	37.00	38.00	0.90	410	☐	☐	☐	☐	
19-119	W594489	38.00	39.26	0.24	2050	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-119	W594490	39.26	40.76	0.05	2330	☐	☐	☐	☐	
19-119	W594491	40.76	42.26	0.01	2280	☐	☐	☐	☐	
19-119	W594492	42.26	43.75	0.01	2200	☐	☐	☐	☐	
19-119	W594493	43.75	44.75	0.01	2430	☐	☐	☐	☐	
19-119	W594494	44.75	45.65	0.03	1560	☐	☐	☐	☐	
19-119	W594495	45.65	47.15	0.01	2210	☐	☐	☐	☐	
19-119	W594496	47.15	48.65	0.01	2440	☐	☐	☐	☐	
19-122	W594497	48.65	49.75	0.01	2320	☐	☐	☐	☐	
19-122	W594498	49.75	51.25	0.02	2580	☐	☐	☐	☐	
19-122	W594499	51.25	52.75	0.03	2520	☐	☐	☐	☐	
19-122	W594401	52.75	53.65	0.73	2130	☐	☐	☐	☐	
19-122	W594402	53.65	55.15	0.01	2240	☐	☐	☐	☐	
19-122	W594403	55.15	56.65	0.01	2210	☐	☐	☐	☐	
19-122	W594404	56.65	58.65	0.94	1380	☐	☐	☐	☐	
19-122	W594405	58.65	60.15	0.01	2370	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-122	W594407	60.15	61.65	0.02	2160	☐	☐	☐	☐	
19-123	W595914	61.65	62.10	0.09	420	☐	☐	☐	☐	
19-122	W594408	62.10	63.00	0.01	2180	☐	☐	☐	☐	
19-122	W594409	63.00	64.00	0.01	2340	☐	☐	☐	☐	
19-122	W594410	64.00	65.50	0.01	2350	☐	☐	☐	☐	
19-122	W594411	65.50	67.00	0.10	2590	☐	☐	☐	☐	
19-122	W594412	65.50	67.00	0.09	2610	☐	☑	☐	☐	
19-122	W594413	67.00	68.55	0.01	2580	☐	☐	☐	☐	
19-122	W594414	68.55	69.44	1.10	550	☐	☐	☐	☐	
19-122	W594415	69.44	71.00	0.01	2540	☐	☐	☐	☐	
19-122	W594416	71.00	72.50	0.01	2260	☐	☐	☐	☐	
19-122	W594417	72.50	74.00	0.01	2280	☐	☐	☐	☐	
19-122	W594418	72.50	74.00	0.01	2320	☑	☐	☐	☐	
19-122	W594419	74.00	75.50	0.01	2200	☐	☐	☐	☐	
19-122	W594420	75.50	76.29	0.01	1330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-122	W594421	76.29	77.80	0.01	2360	☐	☐	☐	☐	
19-122	W594422	77.80	79.30	0.01	2300	☐	☐	☐	☐	
19-122	W594423	79.30	80.00	0.01	2300	☐	☐	☐	☐	
19-122	W594424	80.00	81.46	0.01	2620	☐	☐	☐	☐	
19-122	W594425	81.46	82.66	0.02	2300	☐	☐	☐	☐	
19-122	W594426	82.66	83.87	0.04	1990	☐	☐	☐	☐	
19-122	W594428	83.87	85.42	0.05	2390	☐	☐	☐	☐	
19-113	W599287	85.42	86.42	0.98	60	☐	☐	☐	☐	
19-113	W599288	86.42	87.17	0.59	210	☐	☐	☐	☐	
19-122	W594429	87.17	88.67	0.01	2110	☐	☐	☐	☐	
19-122	W594430	88.67	90.17	0.01	2500	☐	☐	☐	☐	
19-122	W594431	90.17	90.77	0.01	2350	☐	☐	☐	☐	
19-122	W594432	90.77	92.27	0.02	2670	☐	☐	☐	☐	
19-122	W594433	92.27	93.77	0.01	2110	☐	☐	☐	☐	
19-122	W594434	93.77	95.27	0.03	1490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-122	W594435	95.27	96.77	0.02	1640	☐	☐	☐	☐	
19-122	W594436	96.77	97.68	0.11	260	☐	☐	☐	☐	
19-123	W594437	97.68	98.20	0.33	1780	☐	☐	☐	☐	
19-123	W594438	98.20	99.70	0.01	2390	☐	☐	☐	☐	
19-123	W594439	99.70	101.20	0.11	2450	☐	☐	☐	☐	
19-123	W594440	99.70	101.20	0.01	2480	☑	☐	☐	☐	
19-123	W594441	101.20	102.70	0.01	2570	☐	☐	☐	☐	
19-123	W594442	102.70	104.15	0.01	2370	☐	☐	☐	☐	
19-123	W594443	104.15	105.07	0.14	300	☐	☐	☐	☐	
19-123	W594444	105.07	106.37	0.20	940	☐	☐	☐	☐	
19-123	W594445	106.37	107.87	0.04	1790	☐	☐	☐	☐	
19-123	W594446	107.87	108.50	0.02	2250	☐	☐	☐	☐	
19-123	W594447	108.50	110.00	0.01	2410	☐	☐	☐	☐	
19-123	W594448	108.50	110.00	0.01	2400	☐	☑	☐	☐	
19-123	W594449	110.00	111.50	0.01	2400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-123	W594450	111.50	113.00	0.01	2270	☐	☐	☐	☐	
19-123	W595907	113.00	114.50	0.00	2350	☐	☐	☐	☐	
19-123	W595908	114.50	116.00	0.00	2330	☐	☐	☐	☐	
19-123	W595909	116.00	117.50	0.00	2420	☐	☐	☐	☐	
19-123	W595910	117.50	119.00	0.00	2440	☐	☐	☐	☐	
19-123	W595911	119.00	120.50	0.01	2230	☐	☐	☐	☐	
19-123	W595913	120.50	121.30	0.01	2060	☐	☐	☐	☐	
19-123	W595915	121.30	122.22	0.02	1710	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
13.30	13.40	VB	37	65	NUL	1	Strongly phyllic altered quartz carbonate breccia zone found along pervasively but weakly propylitic altered granodiorite. Breccia zone hosts dissseminated to blebby pyrite, galena, sphalerite.			
								Gn	4	BL
								Sp	4	BL
								Py	3	BL
14.70	14.82	VN	37	55	NUL	1	Interstially mixed and banded quartz carbonate vein cutting phyllic altered granodiorite. Vein hosts blebby sphalerite, galena and pyrite along the rim of centre-line carbonate bands. Trace arsenopyrite may be visible(?)			
								Py	5	BL
								Sp	10	BL
								Gn	5	BL
15.30	15.32	VT	37	-	NUL	1	Faulted and gouged quartz carbonate stringer zone hosting disseminated blebs of pyrite, sphalerite and galena.			
								Py	5	BL
								Gn	8	BL
								Sp	8	BL
17.30	17.86	VN	37	70	NUL	3	Siliceous smokey quartz vein zone consisting of strongly mineralized stringers throughout. Veinlets host disseminated pyrite and trace arsenopyrite.			
								Py	5	DI
								As	0.5	DI
18.55	19.10	VB	37	75	NUL	2	Oxidized interval of granodiorite carrying two quartz-carbonate veins and breccia veins. Veining consists of banded, interstitially mixed quartz and carbonate, while breccia is dominantly carbonate with minor clay gouge and quartz. Vein zone hosts pyrite.			
								Py	3	DI
19.39	19.46	GO	34	70	NUL	1	Orange oxidized, limonitic clay gouge breccia zone within pervasively oxidized granodiorite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
29.40	29.42	VN	37	-	NUL	1	Intensely oxidized clay gouge vein that displays strong limonitic replacement. Found within oxidized granodiorite.			
								Li	80	IN
36.20	36.23	VN	37	68	NUL	1	2.5cm quartz vein wiith propylitic alterato halo found within unaltered granodiorite. Vein hosts blebby pyrite throughout.			
								Py	70	BL
57.40	57.44	VN	37	80	NUL	1	Quartz vein hosting blebby pyrite and arsenopyrte. Found alongside a carbonate vein on upper selvedge.			
								As	35	DI
								Py	30	BL
61.73	62.05	BX	34	70	NUL	1	quartz carbonate breccia zone within argillic altered granodiorite. Breccia consists of quartz, smokey quartz and milky white carbonate. Angular breccia clasts, up to cobble sized are present within of altered granodiorite, smokey quartz. Minor pyrite found in bands and as part of breccia matrix is present locally within.			
								Py	3	DI
64.87	65.89	DY	37	60	NUL	1	pink aplite dyke			
68.55	69.40	VN	37	70	NUL	2	tacked quartz veinlets and a larger quartz carbonate breccia vein found within a zone of siliceous and phyllic altered granodiorite. Stacked veinlets and stringer are narrow but tightly spaced, hosting disseminated to blebby pyritie. The lower quartz carbonate vein comprise interstitially mixed quartz-carbonate with smokey quartz and hosts disseminated pyrite, sphalerite, arsenopyrite and trace galena.			
								Sp	5	DI
								Gn	0.5	DI
								As	10	DI
								Py	20	DI
81.60	82.50	VT	37	60	NUL	2	Two narrow (1cm) quartz carbonate veinlets in argillic and oxidized granodiorite. Veinlets have a smokey quartz centre line and disseminated pyrite.			
								Py	1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
85.61	85.72	VN	37	80	NUL	1	Quartz vein found alongside gouged fracture zone (5cm on footwall side). Vei hosts blebby pyrite throughout.			
								Py	5	DI
								Py	15	BL
86.00	86.20	VN	37	70	NUL	1	Two narrow quartz veinlets with banded carbonate. Vein host disseminated pyrite throughout.			
								Py	60	DI
97.00	97.13	VN	37	40	NUL	1	Quartz carbonate veinlet zone that has net texture. Hosts blebby pyrite.			
								Py	4	BL
104.30	105.07	VT	37	75	NUL	1	quartz veinlets and veins cutting siliceous and propyliti altered granodiorite. Veins host blebby to semi massive pyrite throughout.			
								Py	10	BL
105.10	105.70	FT	42	-	NUL	1	Intensely gouged fracture zone			
114.40	114.50	DY	37	60	NUL	1	pink aplite dyke cutting unaltered granodiorite.			
115.53	115.57	DY	37	70	NUL	1	red to pink aplite dyke cutting unaltered granodiorite.			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382691	6888724	1427.971	174.35

ZONE: Exploration

SECTION:

HOLE: KL -19-467

CLAIM: YB35415

Contractor: Kluane Drilling

Drill: 1

Core Size: NTW

Casing Depth: 0m, Out

Drilling Dates: Oct 02 - Oct 03, 2019

Geology Logged By: K. Willms

SURVEY			
Depth (m)	Azimuth	Dip	Method
9	182.26	-49.8	Reflex
174	38.66	-49.8	Reflex

TARGET: Eastern Chevron

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.3	2.3	-?-
2.3	3.05	0.75	GRD
3.05	4.6	1.55	FLT
4.6	6.9	2.3	GRD
6.9	10.65	3.75	VEN
10.65	19.81	9.16	GRD
19.81	26.52	6.71	GRD
26.52	27.43	0.91	GRD
27.43	29.11	1.68	FLT
29.11	30	0.89	GRD
30	45	15	QFP
45	46.36	1.36	FLR
46.36	49	2.64	GRD
49	54	5	GRD
54	56.5	2.5	GRD
56.5	57.26	0.76	VEN

SAMPLES	
Numbers:	W594379 to W594400, W594451 to W594452, W594501 to W594550, W599266 to W599271, W599281 to W599282
Total:	82
Batch:	085, 110, 113, 115
Certificates:	WH19255741, WH19255763, WH19255767, WH19255803

COMMENTS

HTW reduced to NTW at 12m

57.26	59.38	2.12	GRD
59.38	85.86	26.48	QFP
85.86	95.6	9.74	GRD
95.6	96.7	1.1	VEN
96.7	102.56	5.86	GRD
102.56	103.18	0.62	BXA
103.18	124.58	21.4	GRD
124.58	125.08	0.5	VEN
125.08	134.4	9.32	GRD
134.4	142.25	7.85	GRD
142.25	146.7	4.45	GRD
146.7	149.35	2.65	MAF
149.35	153	3.65	GRD
153	155.25	2.25	GRD
155.25	169.55	14.3	GRD
169.55	174.35	4.8	GRD

Box Log

KL -19-467

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.38	4.57
2	4.57	7.23
3	7.23	10.58
4	10.58	13.72
5	13.72	17
6	17	21.34
7	21.34	25.51
8	25.51	29.34
9	29.34	33.56
10	33.56	38
11	38	41.68
12	41.68	45.76
13	45.76	50.08
14	50.08	54.5
15	54.5	58.63
16	58.63	62.82
17	62.82	67.28
18	67.28	71.72
19	71.72	76.11
20	76.11	80.44
21	80.44	84.64
22	84.64	89.06
23	89.06	93.52
24	93.52	97.81
25	97.81	102.2
26	102.2	106.6
27	106.6	111.08
28	111.08	115.56
29	115.56	119.83
30	119.83	124.09
31	124.09	128.43
32	128.43	132.77
33	132.77	137
34	137	141.33
35	141.33	145.73
36	145.73	150.17
37	150.17	154.4
38	154.4	158.59
39	158.59	162.92
40	162.92	166.9
41	166.9	171.22
42	171.22	174.35

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -19-467									
	8.63	13	HTW	VEN	960.4	606.6	1.92	2.7	
	24.38	21	NTW	GRD	1487.1	963.3	2.5	2.8	
	57	16	NTW	VEN	1207	796	2.67	2.9	
	102.87	12	NTW	BXA	847	542.3	2.5	2.8	smokey quartz-carbonate black breccia hosting blebby to semi massive pyrite.
	144	11	NTW	GRD	823.1	561.3	2.65	3.1	
	145.47	18	NTW	GRD	1196.2	766.9	2.35	2.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.30	2.30	-?-	--	Overburden							
2.30	3.05	0.75	GRD	MG	Unaltered granodiorite with pervasive orange/brown weathering along fracture planes. Interval is fractured and rubbly.							
						MD	BR	RB	OXI	3I		
								FR				
3.05	4.60	1.55	FLT	MG	Orange to red to pale white coloured, intensely gouged and rubbly fault zone within granodiorite unit. Interval consists of pebble and smaller sized clasts of granodiorite, along with strongly oxidized gouge and fractured rock material. No visible sulphides present, but suspected.							
						MD	OR	FR	OXI	5I		
						DK	RD	RB	CLY	5I		
						DK	OR					
4.60	6.90	2.30	GRD	MG	weakly propylitic altered granodiorite with moderate to strongly oxidized overprinting, especially along fractures. Oxidation is pervasive throughout.							
						MD	BR	FR	OXI	3I		
						MD	OR					
6.90	10.65	3.75	VEN	MG	Quartz-carbonate vein zone within pervasively oxidized granodiorite (unable to determine true original alteration, but likely phyllic?). Vein zone consists of two large quartz-carbonate breccia veins with net and crackle breccia textures throughout. Vein breccias host massive pyrite, disseminated galena, arsenopyrite and minor disseminated galena. Carbonate brecciates smokey quartz and quartz seen in veining. Veins run 45 TCA.							
						MD	GN	NE	PHC	3I	Gn	3
						MD	GY	CR	OXI	3I	As	3
						MD	BL	BN	PHC	2I	Py	8
						MD	OR					
						DK	OR	BX				
10.65	19.81	9.16	GRD	MG	moderately to strongly argillic altered granodiorite with oxidation along fractures trhoughout. Minor hematitic staining and hematite stringers are present around 14.50m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	WH		ARG	2I		
						LT	GN	FR	HEM	2I	Py	1
									OXI	2I		
									OXI	3I		
									HEM	1I		
									ARG	3I		
19.81	26.52	6.71	GRD	MG	Moderately to strongly phyllic altered granodiorite that hosts an immense vein zone comprising numerous mineralized stringers and veinlets, clay gouge zones and minor fault zones, and larger quartz to quartz carbonate breccia veins. See Secondary Structures for more detailed descriptions. Veins appear associated with a large rubbly fault zone found in footwall ~1m below this interval. Fault and gouge zones in the vein zone are likely a feeder structures eminating from this larger structure. Net textured veinlets of carbonate throughout.							
26.52	27.43	0.91	GRD	MG	Unaltered granodiorite found between intense fault zone (footwall) and intense vein zone (hanging wall).							
27.43	29.11	1.68	FLT	MG	Intensely faulted and rubbled fault zone found along the footwall of immense vein zone. Rubbled fault zone consists of broken down pebble sized granodiorite that ranges from moderately oxidized to unaltered.							
						MD	OR	RB				
						MD	GY	FR				
29.11	30.00	0.89	GRD	MG	Argillic to weakly propylitic altered granodiorite found along the contact with light grey/green quartz feldspar porphyry dyke. Contact is slightly gouged with immense clay stringers, but sharp.							
30.00	45.00	15.00	QFP	FG	Fine to medium grained, light grey quartz feldspar porphyry dyke. Dyke has irregular coarser grained feldspar clasts throughout. Minor gouge zones from faults are present within. Lower contact is faulted.							
45.00	46.00	1.00	GRD	MG	Faulted argilic to propylitic altered granodiorite. Has minor black stringers and quartz carbonate within.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
46.00	46.36	0.36	QFP	FG	Fine grained light to medium grey quartz feldspar dyke.							
46.36	49.00	2.64	GRD	MG	Weakly phyllic to propylitic altered granodiorite found underlying intermixed QFP-GRD transition contact zone. Granodiorite is peppered with fine mm-scale stringers that locally carry disseminated pyrite.							
						MD	GN		PRO	2I	Py	1
						LT	GN		PHC	2I		
49.00	54.00	5.00	GRD	MG	Unaltered granodiorite with locally argillic/propylitic altered intrrervals throughout. Quartz stringers and veinlets are present in altered zones that carry polymetallic mineralization.							
						LT	GN	PA	ARG	2I	Py	1
						LT	WH		PRO	2I		
54.00	56.50	2.50	GRD	MG	Moderately siliceous, phyllic to argillic altered granodiorite. Granodiorite has mineralized stringers and veinlets throughout.							
						MD	GN	FR	PHC	3I	Sp	2
									PHC	2I		
									ARG	2I	Gn	2
									SIL	2I	Py	2
									SIL	3I		
56.50	57.26	0.76	VEN	--	Moderate to strongly phyllic/argillic altered granodiorite hosting a series of mineralized quartz-carbonate veinlets throughout, along with three main veins (2cm, 8cm, 15cm wide). Veins are comprised of quartz carbonate and are brecciated throughout. Veins host blebby to semi massive pyrite, blebby to disseminated sphalerite, galena and arsenopyrite.							
						DK	GY	SW	SIL	3I	Sp	4
						DK	GN	MA	PHC	4I	As	1
						DK	WH	BX	ARG	2I	Py	3
									PHC	3I	Gn	2
									SIL	2I	Py	7
57.26	59.38	2.12	GRD	MG	Weakly to moderately propylitic altered granodiorite with narrow carbonate stringers cutting locally. Found a the contact of GRD-QFP.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
59.38	85.86	26.48	QFP	FG	Fine grained light grey quartz feldspar porphyry dyke that transitions in colour to deep grey/purple colour towards end of interval (starting at ~72m).							
85.86	95.60	9.74	GRD	MG	Alternating zones of argillic and propylitic altered granodiorite found along the lower contact of QFP-GRD. Interval is mineralized with sulphide stringers throughout zones of alteration.							
						MD	WH	PA	ARG	3I	As	1
						MD	GN		PRO	2I	Sp	1
									PRO	3I	Py	2
									ARG	2I	Gn	1
95.60	96.70	1.10	VEN	--	Vein zone found within an interval of moderately to strongly argillic altered granodiorite with trace propylitic overprinting. Vein zone is comprised of an upper quartz-carbonate breccia zone (60cm) that hosts disseminated pyrite throughout, followed by a pyrite-arsenopyrite quartz veining throughout the lower interval, up to 10cm.							
						MD	GY	MA	ARG	3I	Py	10
						MD	WH	BX			Gn	5
											Py	5
											Sp	5
											As	5
96.70	102.56	5.86	GRD	MG	Unaltered granodiorite with minor patchy propylitic alteration.							
102.56	103.18	0.62	BXA	MG	Quartz-smokey quartz breccia zone hosted within unaltered to weakly propylitic altered granodiorite. Breccia vein consists of carbonate phase that is brecciated by smokey quartz and black breccia material. Minor disseminated pyrite is present throughout.							
						MD	BL	BX	SIL	2I	Py	4
103.18	124.58	21.40	GRD	MG	Unaltered granodiorite with sporadic intervals of propylitic alteration within, up o 1.5m. Altered zone at 118.5m has quartz stringers and vuggy quartz carbonate veining							
						MD	GN	PA	PRO	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
124.58	125.08	0.50	VEN	--	Zone of three quartz veins (4-6cm) within srongly phyllic/argillic altered granodiorite. Veins are comprised of quartz and carbonate that are interstitially banded, and host blebby to semi massive pyrite and minor sphalerite.							
						MD	WH	PA	PHC	3I	Sp	5
						MD	GY	BN	ARG	2I	Py	25
									SIL	3I	Py	15
125.08	134.40	9.32	GRD	MG	Alternating argillic/propylitic/unatlered granodiorite with minor carboante and quartz stringers throughou.							
134.40	142.25	7.85	GRD	MG	Unaltered granodiorite.							
142.25	146.70	4.45	GRD	MG	Phyllic altered granodiorite with weak argillic overprinting. Granodiorite is mineralized throughout with quartz veins, quartz carbonate breccias and vienlets throughout. Unit is defined by two major veins (144m, 145.50m) that are 24, 10cm respectively.							
						MD	WH	PA	ARG	2I	Sp	3
						MD	GN		SIL	2I	Py	2
									PHC	4I	Py	5
									PHC	3I		
146.70	149.35	2.65	MAF	FG	dark grey to black, fine grained mafic dyke. Dyke has narrow white carbonate stringers throughout entire interval.							
						MD	BL					
						DK	GY	AN				
149.35	153.00	3.65	GRD	MG	Propylitic to phyllic altered granodiorite hosting sporadic mineralized quartz and quartz carbonate veins and veinlets throughout. Spaced ~35cm apart.							
						MD	GY	PA	PHC	3I	Sp	1
						DK	GN		PHC	4I	Py	3
									PRO	3I		
153.00	155.25	2.25	GRD	MG	Unaltered granodiorite with minor carbonate stringers.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
155.25	169.55	14.30	GRD	MG	Alternating intervals of unaltered granodiorite and moderately propylitic to propylitic/argillic altered granodiorite. Altered granodiorite zones typically arry minor quartz or carbonate stringers, but are typically unmineralized. Unaltered and altered intervals are ~1-2m wide on average.							
169.55	174.35	4.80	GRD	MG	Unaltered granodiorite.							

KL -19-467

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	2.30	2.30	-?-	OVB	--	Overburden
2.30	3.05	0.75	GRD	GRD	MG	Unaltered granodiorite with pervasive orange/brown weathering along fracture planes. Interval is fractured and rubbly.
3.05	4.60	1.55	FLT	FLTM	MG	Orange to red to pale white coloured, intensely gouged and rubbly fault zone within granodiorite unit. Interval consists of pebble and smaller sized clasts of granodiorite, along with strongly oxidized gouge and fractured rock material. No visible sulphides present, but suspected.
4.60	6.90	2.30	GRD	GRDA	MG	weakly propylitic altered granodiorite with moderate to strongly oxidized overprinting, especially along fractures. Oxidation is pervasive throughout.
6.90	10.65	3.75	VEN	VEIN	MG	Quartz-carbonate vein zone within pervasively oxidized granodiorite (unable to determine true original alteration, but likely phyllic?). Vein zone consists of two large quartz-carbonate breccia veins with net and crackle breccia textures throughout. Vein breccias host massive pyrite, disseminated galena, arsenopyrite and minor disseminated galena. Carbonate brecciates smokey quartz and quartz seen in veining. Veins run 45 TCA.
10.65	19.81	9.16	GRD	GRDA	MG	moderately to strongly argillic altered granodiorite with oxidation along fractures trhoughout. Minor hematitic staining and hematite stringers are present around 14.50m.
19.81	26.52	6.71	GRD	VEIN	MG	Moderately to strongly phyllic altered granodiorite that hosts an immense vein zone comprising numerous mineralized stringers and veinlets, clay gouge zones and minor fault zones, and larger quartz to quartz carbonate breccia veins. See Secondary Structures for more detailed descriptions. Veins appear associated with a large rubbly fault zone found in footwall ~1m below this interval. Fault and gouge zones in the vein zone are likely a feeder structures eminating from this larger structure. Net textured veinlets of carbonate throughout.
26.52	27.43	0.91	GRD	GRD	MG	Unaltered granodiorite found between intense fault zone (footwall) and intense vein zone (hanging wall).
27.43	29.11	1.68	FLT	FLT	MG	Intensely faulted and rubbled fault zone found along the footwall of immense vein zone. Rubbled fault zone consists of broken down pebble sized granodiorite that ranges from moderately oxidized to unaltered.
29.11	30.00	0.89	GRD	GRDA	MG	Argillic to weakly propylitic altered granodiorite found along the contact with light grey/green quartz feldspar porphyry dyke. Contact is slightly gouged with immense clay stringers, but sharp.
30.00	45.00	15.00	QFP	DYK	FG	Fine to medium grained, light grey quartz feldspar porphyry dyke. Dyke has irregular coarser grained feldspar clasts throughout. Minor gouge zones from faults are present within. Lower contact is faulted.
45.00	46.00	1.00	GRD	FLTM	MG	Faulted argilic to propylitic altered granodiorite. Has minor black stringers and quartz carbonate within.
46.00	46.36	0.36	QFP	FLTM	FG	Fine grained light to medium grey quartz feldspar dyke.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
46.36	49.00	2.64	GRD	GRDA	MG	Weakly phyllic to propylitic altered granodiorite found underlying intermixed QFP-GRD transition contact zone. Granodiorite is peppered with fine mm-scale stringers that locally carry disseminated pyrite.
49.00	54.00	5.00	GRD	GRD	MG	Unaltered granodiorite with locally argillic/propylitic altered intrrervals throughout. Quartz stringers and veinlets are present in altered zones that carry polymetallic mineralization.
54.00	56.50	2.50	GRD	GRDM	MG	Moderately siliceous, phyllic to argillic altered granodiorite. Granodiorite has mineralized stringers and veinlets throughout.
56.50	57.26	0.76	VEN	VEIN	--	Moderate to strongly phyllic/argillic altered granodiorite hosting a series of mineralized quartz-carbonate veinlets throughout, along with three main veins (2cm, 8cm, 15cm wide). Veins are comprised of quartz carbonate and are brecciated throughout. Veins host blebby to semi massive pyrite, blebby to disseminated sphalerite, galena and arsenopyrite.
57.26	59.38	2.12	GRD	GRDA	MG	Weakly to moderately propylitic altered granodiorite with narrow carbonate stringers cutting locally. Found a the contact of GRD-QFP.
59.38	85.86	26.48	QFP	DYK	FG	Fine grained light grey quartz feldspar porphyry dyke that transitions in colour to deep grey/purple colour towards end of interval (starting at ~72m).
85.86	95.60	9.74	GRD	GRDA	MG	Alternating zones of argillic and propylitic altered granodiorite found along the lower contact of QFP-GRD. Interval is mineralized with sulphide stringers throughout zones of alteration.
95.60	96.70	1.10	VEN	VEIN	--	Vein zone found within an interval of moderately to strongly argillic altered granodiorite with trace propylitic overprinting. Vein zone is comprised of an upper quartz-carbonate breccia zone (60cm) that hosts disseminated pyrite throughout, followed by a pyrite-arsenopyrite quartz veining throughout the lower interval, up to 10cm.
96.70	102.56	5.86	GRD	GRD	MG	Unaltered granodiorite with minor patchy propylitic alteration.
102.56	103.18	0.62	BXA	VEIN	MG	Quartz-smokey quartz breccia zone hosted within unaltered to weakly propylitic altered granodiorite. Breccia vein consists of carbonate phase that is brecciated by smokey quartz and black breccia material. Minor disseminated pyrite is present throughout.
103.18	124.58	21.40	GRD	GRD	MG	Unaltered granodiorite with sporadic intervals of propylitic alteration within, up o 1.5m. Altered zone at 118.5m has quartz stringers and vuggy quartz carbonate veining
124.58	125.08	0.50	VEN	VEIN	--	Zone of three quartz veins (4-6cm) within srongly phyllic/argillic altered granodiorite. Veins are comprised of quartz and carbonate that are interstitially banded, and host blebby to semi massive pyrite and minor sphalerite.
125.08	134.40	9.32	GRD	GRDA	MG	Alternating argillic/propylitic/unatlered granodiorite with minor carboante and quartz stringers throughou.
134.40	142.25	7.85	GRD	GRD	MG	Unaltered granodiorite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
142.25	146.70	4.45	GRD	GRDM	MG	Phyllic altered granodiorite with weak argillic overprinting. Granodiorite is mineralized throughout with quartz veins, quartz carbonate breccias and vienlets throughout. Unit is defined by two major veins (144m, 145.50m) that are 24, 10cm respectively.
146.70	149.35	2.65	MAF	DYK	FG	dark grey to black, fine grained mafic dyke. Dyke has narrow white carbonate stringers throughout entire interval.
149.35	153.00	3.65	GRD	GRDM	MG	Propylitic to phyllic altered granodiorite hosting sporadic mineralized quartz and quartz carbonate veins and veinlets throughout. Spaced ~35cm apart.
153.00	155.25	2.25	GRD	GRD	MG	Unaltered granodiorite with minor carbonate stringers.
155.25	169.55	14.30	GRD	GRDA	MG	Alternating intervals of unaltered granodiorite and moderately propylitic to propylitic/argillic altered granodiorite. Altered granodiorite zones typically arry minor quartz or carbonate stringers, but are typically unmineralized. Unaltered and altered intervals are ~1-2m wide on average.
169.55	174.35	4.80	GRD	GRD	MG	Unaltered granodiorite.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.30	2.30	-?-	--	Overburden							
2.30	3.05	0.75	GRD	MG	Unaltered granodiorite with pervasive orange/brown weathering along fracture planes. Interval is fractured and rubbly.							
						MD	BR	FR	OXI	3I		
								RB				
3.05	4.60	1.55	FLT	MG	Orange to red to pale white coloured, intensely gouged and rubbly fault zone within granodiorite unit. Interval consists of pebble and smaller sized clasts of granodiorite, along with strongly oxidized gouge and fractured rock material. No visible sulphides present, but suspected. Fragments of quartz are present within.							
						DK	OR	RB	CLY	5I		
						DK	RD	FR	OXI	5I		
						MD	OR					
4.60	6.90	2.30	GRD	MG	weakly propylitic altered granodiorite with moderate to strongly oxidized overprinting, especially along fractures. Oxidation is pervasive throughout.							
						MD	BR	FR	OXI	3I		
						MD	OR					
6.90	10.65	3.75	VEN	MG	Quartz-carbonate vein zone within pervasively oxidized granodiorite (unable to determine true original alteration, but likely phyllic?). Vein zone consists of two large quartz-carbonate breccia veins with net and crackle breccia textures throughout. Vein breccias host massive pyrite, disseminated galena, arsenopyrite and minor disseminated galena. Carbonate brecciates smokey quartz and quartz seen in veining. Veins run 45 TCA.							
						MD	GN	NE	PHC	3I	Py	8
						MD	GY	BN				
						MD	BL	CR	PHC	2I	Gn	3
						MD	OR	BX	OXI	3I	As	3
						DK	OR					
10.65	19.81	9.16	GRD	MG	moderately to strongly argillic altered granodiorite with oxidation along fractures trhoughout. Minor hematitic staining and hematite stringers are present around 14.50m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									ARG	3I		
						MD	WH		OXI	3I		
									OXI	2I		
									ARG	2I		
						LT	GN	FR	HEM	1I	Py	1
									HEM	2I		
19.81	26.52	6.71	GRD	MG	Moderately to strongly phyllic altered granodiorite that hosts an immense vein zone comprising numerous mineralized stringers and veinlets, clay gouge zones and minor fault zones, and larger quartz to quartz carbonate breccia veins. See Secondary Structures for more detailed descriptions. Veins appear associated with a large rubbly fault zone found in footwall ~1m below this interval. Fault and gouge zones in the vein zone are likely a feeder structures eminating from this larger structure. Net textured veinlets of carbonate throughout.							
26.52	27.43	0.91	GRD	MG	Unaltered granodiorite found between intense fault zone (footwall) and intense vein zone (hanging wall).							
27.43	29.11	1.68	FLT	MG	Intensely faulted and rubbled fault zone found along the footwall of immense vein zone. Rubbled fault zone consists of broken down pebble sized granodiorite that ranges from moderately oxidized to unaltered.							
						MD	GY	RB				
						MD	OR	FR				
29.11	30.00	0.89	GRD	MG	Argillic to weakly propylitic altered granodiorite found along the contact with light grey/green quartz feldspar porphyry dyke. Contact is slightly gouged with immense clay stringers, but sharp.							
30.00	45.00	15.00	QFP	FG	Fine to medium grained, light grey quartz feldspar porphyry dyke. Dyke has irregular coarser grained feldspar clasts throughout. Minor gouge zones from faults are present within. Lower contact is faulted.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
45.00	46.36	1.36	FLR	MG	Intermixed, faulted contact zone between overlying QFP dyke and granodiorite. Granodiorite and QFP dyke are intermixed throughout interval. (QFP - GRD - QFP - GRD)							
						MD	GN	RB	PRO	3I		
									ARG	3I		
						MD	GY	FR	CLY	5I		
46.36	49.00	2.64	GRD	MG	Weakly phyllic to propylitic altered granodiorite found underlying intermixed QFP-GRD transition contact zone. Granodiorite is peppered with fine mm-scale stringers that locally carry disseminated pyrite.							
						LT	GN		ARG	2I	Py	1
						MD	GN		PRO	2I		
									PHC	2I		
49.00	54.00	5.00	GRD	MG	Unaltered granodiorite with locally argillic/propylitic altered intrrervals throughout. Quartz stringers and veinlets are present in altered zones that carry polymetallic mineralization.							
						LT	GN		ARG	2I		
						LT	WH	PA	PRO	2I	Py	1
54.00	56.50	2.50	GRD	MG	Moderately siliceous, phyllic to argillic altered granodiorite. Granodiorite has mineralized stringers and veinlets throughout.							
									SIL	2I		
									SIL	3I	Gn	2
									PHC	3I	Sp	2
						MD	GN	FR	PHC	2I	Py	2
									ARG	2I		
56.50	57.26	0.76	VEN	--	Moderate to strongly phyllic/argillic altered granodiorite hosting a series of mineralized quartz-carbonate veinlets throughout, along with three main veins (2cm, 8cm, 15cm wide). Veins are comprised of quartz carbonate and are brecciated throughout. Veins host blebby to semi massive pyrite, blebby to disseminated sphalerite, galena and arsenopyrite.							
						DK	WH	SW	SIL	3I	As	1
									ARG	2I	Py	3
						DK	GY	MA	PHC	3I	Gn	2
									PHC	4I	Sp	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	BX	SIL	2I	Py	7
57.26	59.38	2.12	GRD	MG	Weakly to moderately propylitic altered granodiorite with narrow carbonate stringers cutting locally. Found a the contact of GRD-QFP.							
59.38	85.86	26.48	QFP	FG	Fine grained light grey quartz feldspar porphyry dyke that transitions in colour to deep grey/purple colour towards end of interval (starting at ~72m).							
85.86	95.60	9.74	GRD	MG	Alternating zones of argillic and propylitic altered granodiorite found along the lower contact of QFP-GRD. Interval is mineralized with sulphide stringers throughout zones of alteration. Local unaltered granodiorite present in narrow intervals.							
						MD	GN	PA	ARG	2I	As	1
									ARG	3I	Sp	1
						MD	WH		PRO	3I	Gn	1
									PRO	2I	Py	2
95.60	96.70	1.10	VEN	--	Vein zone found within an interval of moderately to strongly argillic altered granodiorite with trace propylitic overprinting. Vein zone is comprised of an upper quartz-carbonate breccia zone (60cm) that hosts disseminated pyrite throughout, followed by a pyrite-arsenopyrite quartz veining throughout the lower interval, up to 10cm.							
						MD	WH	MA			Py	10
						MD	GY	BX	ARG	3I	Gn	5
											As	5
											Sp	5
											Py	5
96.70	102.56	5.86	GRD	MG	Unaltered granodiorite with minor patchy propylitic alteration.							
102.56	103.18	0.62	BXA	MG	Quartz-smokey quartz breccia zone hosted within unaltered to weakly propylitic altered granodiorite. Breccia vein consists of carbonate phase that is brecciated by smokey quartz and black breccia material. Minor disseminated pyrite is present throughout.							
						MD	BL	BX	SIL	2I	Py	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
103.18	124.58	21.40	GRD	MG	Unaltered granodiorite with sporadic intervals of propylitic alteration within, up o 1.5m. Altered zone at 118.5m has quartz stringers and vuggy quartz carbonate veining							
						MD	GN	PA	PRO	2I	Py	1
124.58	125.08	0.50	VEN	--	Zone of three quartz veins (4-6cm) within srongly phyllic/argillic altered granodiorite. Veins are comprised of quartz and carbonate that are interstitially banded, and host blebby to semi massive pyrite and minor sphalerite.							
									PHC	3I	Py	15
						MD	GY	PA	ARG	2I	Sp	5
						MD	WH	BN	SIL	3I	Py	25
125.08	134.40	9.32	GRD	MG	Alternating argillic/propylitic/unatlered granodiorite with minor carboante and quartz stringers throughou.							
						MD	WH	PA	PRO	2I		
									ARG	2I		
									PRO	3I		
						MD	GN		ARG	3I		
134.40	142.25	7.85	GRD	MG	Unaltered granodiorite.							
142.25	146.70	4.45	GRD	MG	Phyllic altered granodiorite with weak argillic overprinting. Granodiorite is mineralized throughout with quartz veins, quartz carbonate breccias and vienlets throughout. Unit is defined by two major veins (144m, 145.50m) that are 24, 10cm respectively. See Secondary Structures for vein details							
						MD	WH	PA	PHC	4I	Sp	3
						MD	GN		SIL	2I	Py	2
									ARG	2I	Py	5
									PHC	3I		
146.70	149.35	2.65	MAF	FG	dark grey to black, fine grained mafic dyke. Dyke has narrow white carbonate stringers throughout entire interval.							
						DK	GY	AN				
						MD	BL					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
149.35	153.00	3.65	GRD	MG	Propylitic to phyllic altered granodiorite hosting sporadic mineralized quartz and quartz carbonate veins and veinlets throughout. Spaced ~35cm apart.							
									PRO	3I		
						DK	GN	PA	PHC	4I	Sp	1
						MD	GY		PHC	3I	Py	3
153.00	155.25	2.25	GRD	MG	Unaltered granodiorite with minor carbonate stringers.							
155.25	169.55	14.30	GRD	MG	Alternating intervals of unaltered granodiorite and moderately propylitic to propylitic/argillic altered granodiorite. Altered granodiorite zones typically arry minor quartz or carbonate stringers, but are typically unmineralized. Unaltered and altered intervals are ~1-2m wide on average.							
									PRO	3I		
									ARG	2I		
169.55	174.35	4.80	GRD	MG	Unaltered granodiorite.							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.38	1.38	0	0	0.00	0	--	--	--	
1.38	1.52	0.14	0.12	86	0.00	0	--	4H	5W	
1.52	3.04	1.52	1.09	72	0.13	9	--	4H	5W	
3.04	4.57	1.53	1.23	80	0.00	0	--	1H	6W	
4.57	6.09	1.52	1.33	88	0.32	21	--	4H	5W	
6.09	7.62	1.53	1.53	100	0.76	50	--	4H	4W	
7.62	9.14	1.52	1.44	95	0.96	63	--	4H	4W	
9.14	10.67	1.53	1.51	99	1.24	81	--	3H	4W	
10.67	12.19	1.52	1.5	99	0.95	63	--	3H	4W	
12.19	13.72	1.53	1.53	100	1.18	77	--	3H	3W	
13.72	15.24	1.52	1.46	96	1.40	92	--	3H	2W	
15.24	18.29	3.05	2.92	96	2.59	85	--	3H	2W	
18.29	21.34	3.05	3.03	99	2.22	73	--	3H	3W	
21.34	24.38	3.04	2.95	97	2.24	74	--	4H	2W	
24.38	27.43	3.05	3.05	100	2.87	94	--	4H	2W	
27.43	29.11	1.68	1.66	99	0.00	0	--	--	2W	Highly fractured. Fine gravel rock interval.
29.11	32.00	2.89	2.42	84	0.30	10	--	2H	3W	Highly fractured
32.00	35.05	3.05	2.76	90	1.84	60	--	3H	2W	
35.05	38.10	3.05	2.59	85	0.96	31	--	2H	3W	Highly fractured
38.10	40.69	2.59	2.34	90	0.77	30	--	2H	4W	Highly fractured
40.69	43.74	3.05	2.64	87	0.87	29	--	2H	3W	
43.74	46.84	3.10	2.83	91	1.33	43	--	2H	2W	
46.84	49.89	3.05	2.93	96	2.54	83	--	3H	1W	
49.89	53.04	3.15	2.7	86	1.83	58	--	4H	1W	
53.04	56.18	3.14	3.04	97	2.36	75	--	3H	1W	
56.18	59.28	3.10	3.05	98	2.66	86	--	3H	1W	
59.28	62.38	3.10	3.05	98	1.94	63	--	3H	1W	
62.38	65.43	3.05	3.05	100	2.54	83	--	3H	1W	
65.43	68.58	3.15	3.02	96	2.47	78	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
68.58	71.63	3.05	3.05	100	3.05	100	--	3H	1W	
71.63	74.68	3.05	3	98	2.30	75	--	3H	1W	
74.68	77.72	3.04	3.04	100	2.99	98	--	3H	1W	
77.72	80.77	3.05	3.05	100	2.46	81	--	3H	1W	
80.77	83.21	2.44	2.41	99	1.81	74	--	3H	1W	
83.21	85.34	2.13	2.1	99	1.95	92	--	3H	1W	
85.34	88.39	3.05	2.92	96	2.01	66	--	3H	1W	
88.39	91.44	3.05	3.05	100	2.47	81	--	3H	1W	
91.44	94.49	3.05	3.05	100	2.99	98	--	3H	1W	
94.49	96.32	1.83	1.71	93	0.87	48	--	3H	1W	
96.32	97.54	1.22	1.22	100	1.07	88	--	3H	1W	
97.54	100.58	3.04	3.04	100	3.04	100	--	4H	1W	
100.58	103.02	2.44	2.4	98	1.88	77	--	3H	1W	
103.02	105.16	2.14	2.08	97	1.85	86	--	3H	1W	
105.16	108.20	3.04	3.02	99	2.46	81	--	4H	1W	
108.20	111.25	3.05	3.05	100	2.57	84	--	3H	1W	
111.25	114.30	3.05	3.02	99	2.63	86	--	4H	1W	
114.30	117.20	2.90	2.9	100	2.88	99	--	4H	1W	
117.20	120.25	3.05	2.54	83	1.50	49	--	3H	2W	fractured
120.25	123.29	3.04	2.75	90	1.86	61	--	4H	1W	
123.29	125.48	2.19	2.11	96	1.47	67	--	3H	1W	
125.48	128.02	2.54	2.41	95	2.11	83	--	4H	1W	
128.02	131.06	3.04	2.82	93	2.07	68	--	3H	1W	
131.06	134.11	3.05	2.97	97	1.97	65	--	4H	1W	
134.11	137.16	3.05	3.05	100	2.36	77	--	4H	1W	
137.16	140.21	3.05	3.05	100	2.83	93	--	4H	1W	
140.21	143.26	3.05	3.05	100	3.05	100	--	4H	1W	
143.26	146.30	3.04	3.04	100	2.31	76	--	3H	1W	
146.30	149.35	3.05	3.05	100	2.44	80	--	3H	1W	
149.35	152.40	3.05	3.05	100	2.15	70	--	3H	1W	
152.40	155.45	3.05	3.05	100	2.20	72	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
155.45	158.50	3.05	3.05	100	2.19	72	--	3H	1W	
158.50	161.54	3.04	3.04	100	1.86	61	--	3H	1W	
161.54	164.59	3.05	2.94	96	2.33	76	--	3H	1W	
164.59	167.64	3.05	3.05	100	1.69	55	--	3H	1W	
167.64	170.69	3.05	3	98	1.63	53	--	3H	1W	
170.69	172.21	1.52	1.44	95	1.44	95	--	3H	1W	
172.21	174.35	2.14	2.13	100	1.85	86	--	3H	1W	

Magnetic Suscepatibility

KL -19-467

Klaza Exploration Zone

Archer, Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	10.17	-?-	Overburden/ highly fractured
2	8.44	-?-	Highly fractured
3	6.88	GRD	Highly fractured
4	0.17	FLT	mud
5	0.333	GRD	
6	0.665	GRD	
7	0.32	VEN	
8	0.206	VEN	
9	0.316	VEN	
10	0.379	VEN	
11	0.417	GRD	
12	0.156	GRD	
13	0.366	GRD	
14	0.355	GRD	
15	0.577	GRD	
16	0.402	GRD	
17	0.277	GRD	
18	0.136	GRD	
19	0.236	GRD	
20	0.302	GRD	
21	0.257	GRD	
22	0.49	GRD	
23	0.69	GRD	
24	0.274	GRD	
25	0.204	GRD	
26	0.4	GRD	
27	1.099	GRD	
28	0.355	FLT	highly fractured/ rubble

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.661	FLT	highly fractured/ rubble
30	0.163	QFP	
30	0.163	GRD	
31	0.239	QFP	
32	0.237	QFP	
33	0.268	QFP	
34	0.303	QFP	
35	0.189	QFP	
36	0.262	QFP	
37	0.246	QFP	
38	0.159	QFP	
39	0.519	QFP	
40	0.289	QFP	
41	0.311	QFP	
42	0.258	QFP	
43	0.264	QFP	
44	0.186	QFP	
45	0.159	QFP	
45	0.159	FLR	
46	0.302	FLR	
47	0.585	GRD	
48	0.568	GRD	
49	0.703	GRD	
49	0.703	GRD	
50	0.275	GRD	
51	0.375	GRD	
52	0.23	GRD	
53	7.381	GRD	
54	0.61	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
54	0.61	GRD	
55	0.443	GRD	
56	0.752	GRD	
57	0.635	VEN	
58	0.683	GRD	
59	0.398	GRD	
60	0.259	QFP	
61	0.255	QFP	
62	0.253	QFP	
63	0.525	QFP	
64	0.283	QFP	
65	0.177	QFP	
66	0.206	QFP	
67	0.495	QFP	
68	0.332	QFP	
69	0.874	QFP	
70	0.275	QFP	
71	0.23	QFP	
72	0.186	QFP	
73	0.283	QFP	
74	0.741	QFP	
75	0.255	QFP	
76	0.21	QFP	
77	0.368	QFP	
78	0.209	QFP	
79	0.167	QFP	
80	0.207	QFP	
81	0.367	QFP	
82	0.892	QFP	
83	0.512	QFP	
84	0.325	QFP	
85	0.28	QFP	
86	0.324	GRD	
87	0.384	GRD	
88	0.349	GRD	
89	0.449	GRD	
90	0.435	GRD	
91	0.256	GRD	
92	0.257	GRD	
93	0.406	GRD	
94	0.341	GRD	
95	0.22	GRD	
96	0.264	VEN	
97	0.268	GRD	
98	0.479	GRD	
99	1.763	GRD	
100	1.55	GRD	
101	0.943	GRD	
102	0.299	GRD	
103	0.284	BXA	
104	1.252	GRD	
105	23.69	GRD	
106	6.619	GRD	
107	6.178	GRD	
108	0.975	GRD	
109	10.23	GRD	
110	5.312	GRD	
111	3.305	GRD	
112	1.256	GRD	
113	1.793	GRD	
114	1.948	GRD	
115	2.926	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
116	0.745	GRD	
117	0.58	GRD	
118	0.537	GRD	
119	0.236	GRD	highly fractured
120	0.434	GRD	
121	4.448	GRD	
122	1.346	GRD	
123	0.632	GRD	
124	0.516	GRD	
125	0.367	VEN	
126	0.419	GRD	
127	3.049	GRD	
128	0.575	GRD	
129	0.37	GRD	
130	2.808	GRD	
131	0.398	GRD	
132	24.1	GRD	
133	0.307	GRD	
134	10.86	GRD	
135	1.088	GRD	
136	6.945	GRD	
137	18.79	GRD	
138	16.4	GRD	
139	14.05	GRD	
140	1.14	GRD	
141	15.5	GRD	
142	14.05	GRD	
143	0.552	GRD	
144	0.02	GRD	
145	0.22	GRD	
146	0.36	GRD	
147	4.29	MAF	
148	5.28	MAF	
149	19.89	MAF	
150	0.418	GRD	
151	0.26	GRD	
152	0.299	GRD	
153	0.769	GRD	
153	0.769	GRD	
154	1.05	GRD	
155	6.7	GRD	
156	0.47	GRD	
157	0.35	GRD	
158	0.27	GRD	
159	0.34	GRD	
160	1.14	GRD	
161	0.388	GRD	
162	0.684	GRD	
163	0.8	GRD	
164	1.6	GRD	
165	3.56	GRD	
166	0.15	GRD	
167	1.22	GRD	
168	0.578	GRD	
169	0.407	GRD	
170	0.499	GRD	
171	12.68	GRD	
172	16.7	GRD	
173	7.732	GRD	
174	6.348	GRD	EOH

KL -19-467

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W594389	☐	19-110	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594506	☐	19-110	low grade	ME-16	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594526	☐	19-115	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594542	☐	19-115	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594550	☐	19-115	low grade	KL-STD6	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594381	☐	19-110	low grade		☑	☐	☐
2.75	3.80	1.05	GRD	0.93	89	W594379	☐	19-110	low grade		☐	☐	☐
3.80	4.57	0.77	FLT	0.77	100	W594380	☐	19-110	low grade		☐	☐	☐
4.57	5.94	1.37	FLT	1.34	98	W594382	☐	19-110	low grade		☐	☐	☐
5.94	6.75	0.81	GRD	0.81	100	W594383	☐	19-110	low grade		☐	☐	☐
6.75	7.45	0.70	GRD	0.61	87	W594384	☐	19-110	low grade		☐	☐	☐
7.45	8.89	1.44	VEN	1.39	97	W599266	☐	19-085	high grade		☐	☐	☐
8.89	9.58	0.69	VEN	0.69	100	W594385	☐	19-110	low grade		☐	☐	☐
9.58	11.56	1.98	VEN	1.98	100	W594386	☐	19-110	low grade		☐	☐	☐
11.56	13.08	1.52	GRD	1.52	100	W594387	☐	19-110	low grade		☐	☐	☐
13.08	14.26	1.18	GRD	1.18	100	W594388	☐	19-110	low grade		☐	☐	☐
18.52	19.80	1.28	GRD	1.28	100	W594390	☐	19-110	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
19.80	21.81	2.01	GRD	2.00	100	W594391	☐	19-110	low grade		☐	☐	☐
21.81	22.81	1.00	GRD	1.00	100	W594392	☐	19-110	low grade		☐	☐	☐
22.81	24.38	1.57	GRD	1.57	100	W594393	☐	19-110	low grade		☐	☐	☐
24.38	24.72	0.34	GRD	0.34	100	W599267	☐	19-085	high grade		☐	☐	☐
24.72	25.70	0.98	GRD	0.94	96	W594394	☐	19-110	low grade		☐	☐	☐
25.70	26.52	0.82	GRD	0.82	100	W599268	☐	19-113	high grade		☐	☐	☐
26.52	29.11	2.59	GRD, GRD	1.98	76	W594395	☐	19-110	low grade		☐	☐	☐
29.11	30.01	0.90	GRD, FLT	0.90	100	W594396	☐	19-110	low grade		☐	☐	☐
30.01	31.01	1.00	QFP	1.00	100	W594397	☐	19-110	low grade		☐	☐	☐
44.00	44.76	0.76	QFP	0.76	100	W594398	☐	19-110	low grade		☐	☐	☐
44.00	44.76	0.76	QFP	0.76	100	W594399	☐	19-110	low grade		☐	☑	☐
44.76	46.12	1.36	QFP	1.36	100	W594400	☐	19-110	low grade		☐	☐	☐
46.12	46.95	0.83	FLR	0.78	94	W594501	☐	19-110	low grade		☐	☐	☐
46.95	48.54	1.59	GRD	1.59	100	W594502	☐	19-110	low grade		☐	☐	☐
48.54	50.10	1.56	GRD	1.56	100	W594503	☐	19-110	low grade		☐	☐	☐
50.10	51.17	1.07	GRD	1.07	100	W594504	☐	19-110	low grade		☐	☐	☐
51.17	52.00	0.83	GRD	0.83	100	W594505	☐	19-110	low grade		☐	☐	☐
52.00	53.64	1.64	GRD	1.64	100	W594507	☐	19-110	low grade		☐	☐	☐
53.64	55.15	1.51	GRD	1.50	99	W594508	☐	19-110	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
55.15	56.50	1.35	GRD	1.35	100	W594509	☐	19-110	low grade		☐	☐	☐
55.15	56.50	1.35	GRD	1.35	100	W594510	☐	19-110	low grade		☐	☐	☑
56.50	57.30	0.80	VEN, GRD	0.80	100	W599269	☐	19-113	high grade		☐	☐	☐
57.30	59.38	2.08	GRD	2.06	99	W594511	☐	19-110	low grade		☐	☐	☐
85.86	86.90	1.04	GRD, QFP	1.04	100	W594512	☐	19-110	low grade		☐	☐	☐
86.90	87.88	0.98	GRD	0.92	94	W594513	☐	19-110	low grade		☐	☐	☐
87.88	89.27	1.39	GRD	1.39	100	W594514	☐	19-115	low grade		☐	☐	☐
89.27	90.00	0.73	GRD	0.73	100	W594515	☐	19-115	low grade		☐	☐	☐
90.00	93.00	3.00	GRD	3.00	100	W594516	☐	19-115	low grade		☐	☐	☐
93.00	95.25	2.25	GRD	2.25	100	W594517	☐	19-115	low grade		☐	☐	☐
95.25	96.20	0.95	GRD	0.95	100	W594518	☐	19-115	low grade		☐	☐	☐
95.25	96.20	0.95	GRD	0.95	100	W594519	☐	19-115	low grade		☐	☐	☑
96.20	96.82	0.62	VEN	0.62	100	W599270	☐	19-113	high grade		☐	☐	☐
96.82	97.95	1.13	GRD	1.13	100	W594520	☐	19-115	low grade		☐	☐	☐
102.56	103.18	0.62	BXA, GRD	0.62	100	W594521	☐	19-115	low grade		☐	☐	☐
114.90	117.02	2.12	GRD	1.12	53	W594522	☐	19-115	low grade		☐	☐	☐
117.02	118.18	1.16	GRD	1.16	100	W594523	☐	19-115	low grade		☐	☐	☐
118.18	119.15	0.97	GRD	0.97	100	W594524	☐	19-115	low grade		☐	☐	☐
123.29	124.58	1.29	GRD	1.29	100	W594525	☐	19-115	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
124.58	125.08	0.50	VEN, GRD	0.50	100	W599271	☐	19-113	high grade		☐	☐	☐
125.08	125.67	0.59	VEN, GRD	0.59	100	W594527	☐	19-115	low grade		☐	☐	☐
125.67	126.71	1.04	GRD	1.04	100	W594528	☐	19-115	low grade		☐	☐	☐
130.93	131.27	0.34	GRD	0.34	100	W594529	☐	19-115	low grade		☐	☐	☐
131.27	134.00	2.73	GRD	2.73	100	W594530	☐	19-115	low grade		☐	☐	☐
134.00	134.40	0.40	GRD	0.40	100	W594531	☐	19-115	low grade		☐	☐	☐
141.00	142.25	1.25	GRD	1.25	100	W594532	☐	19-115	low grade		☐	☐	☐
142.25	143.47	1.22	GRD, GRD	1.22	100	W594533	☐	19-115	low grade		☐	☐	☐
143.47	144.30	0.83	GRD	0.83	100	W599281	☐	19-113	high grade		☐	☐	☐
144.30	145.15	0.85	GRD	0.85	100	W594534	☐	19-115	low grade		☐	☐	☐
144.30	145.15	0.85	GRD	0.85	100	W594535	☐	19-115	low grade		☐	☑	☐
145.15	145.73	0.58	GRD	0.58	100	W599282	☐	19-113	high grade		☐	☐	☐
145.73	146.70	0.97	GRD	0.97	100	W594536	☐	19-115	low grade		☐	☐	☐
146.70	149.35	2.65	GRD, MAF	2.65	100	W594537	☐	19-115	low grade		☐	☐	☐
149.35	149.92	0.57	MAF, GRD	0.57	100	W594538	☐	19-115	low grade		☐	☐	☐
149.92	150.74	0.82	GRD	0.82	100	W594539	☐	19-115	low grade		☐	☐	☐
150.74	152.27	1.53	GRD	1.53	100	W594540	☐	19-115	low grade		☐	☐	☐
152.27	153.00	0.73	GRD	0.73	100	W594541	☐	19-115	low grade		☐	☐	☐
153.00	155.25	2.25	GRD, GRD	2.25	100	W594543	☐	19-115	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
155.25	155.95	0.70	GRD, GRD	0.70	100	W594544	☐	19-115	low grade		☐	☐	☐
155.95	157.78	1.83	GRD	1.83	100	W594545	☐	19-115	low grade		☐	☐	☐
157.78	158.59	0.81	GRD	0.81	100	W594546	☐	19-115	low grade		☐	☐	☐
158.59	160.89	2.30	GRD	2.30	100	W594547	☐	19-115	low grade		☐	☐	☐
160.89	161.54	0.65	GRD	0.65	100	W594548	☐	19-115	low grade		☐	☐	☐
164.63	165.79	1.16	GRD	1.16	100	W594549	☐	19-115	low grade		☐	☐	☐
165.79	168.19	2.40	GRD	2.40	100	W594451	☐	19-115	low grade		☐	☐	☐
168.19	169.55	1.36	GRD	1.36	100	W594452	☐	19-115	low grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
		0.00	2.75			☐	☐	☐	☐	
19-110	W594381	0.00	0.00	0.00	30	☐	☐	☑	☐	
19-110	W594389	0.00	0.00	1.59	150	☐	☐	☐	☑ ME-16	
19-110	W594506	0.00	0.00	1.54	150	☐	☐	☐	☑ ME-16	
19-115	W594526	0.00	0.00	1.79	140	☐	☐	☐	☑ KL-STD6	
19-115	W594542	0.00	0.00	0.01	30	☐	☐	☑	☐	
19-115	W594550	0.00	0.00	1.73	350	☐	☐	☐	☑ KL-STD6	
19-110	W594379	2.75	3.80	0.09	4200	☐	☐	☐	☐	
19-110	W594380	3.80	4.57	0.11	1760	☐	☐	☐	☐	
19-110	W594382	4.57	5.94	0.03	2340	☐	☐	☐	☐	
19-110	W594383	5.94	6.75	0.07	1590	☐	☐	☐	☐	
19-110	W594384	6.75	7.45	1.18	80	☐	☐	☐	☐	
19-085	W599266	7.45	8.89	0.79	1260	☐	☐	☐	☐	
19-110	W594385	8.89	9.58	0.11	2690	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-110	W594386	9.58	11.56	0.09	2580	☐	☐	☐	☐	
19-110	W594387	11.56	13.08	0.11	2380	☐	☐	☐	☐	
19-110	W594388	13.08	14.26	0.03	1780	☐	☐	☐	☐	
		14.26	18.52			☐	☐	☐	☐	
19-110	W594390	18.52	19.80	0.19	2850	☐	☐	☐	☐	
19-110	W594391	19.80	21.81	0.11	1440	☐	☐	☐	☐	
19-110	W594392	21.81	22.81	0.29	170	☐	☐	☐	☐	
19-110	W594393	22.81	24.38	0.08	770	☐	☐	☐	☐	
19-085	W599267	24.38	24.72	2.47	90	☐	☐	☐	☐	
19-110	W594394	24.72	25.70	0.41	250	☐	☐	☐	☐	
19-113	W599268	25.70	26.52	0.71	160	☐	☐	☐	☐	
19-110	W594395	26.52	29.11	0.04	2150	☐	☐	☐	☐	
19-110	W594396	29.11	30.01	0.01	1130	☐	☐	☐	☐	
19-110	W594397	30.01	31.01	0.00	1360	☐	☐	☐	☐	
		31.01	44.00			☐	☐	☐	☐	
19-110	W594398	44.00	44.76	0.00	1830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-110	W594399	44.00	44.76	0.00	2080	☑	☐	☐	☐	
19-110	W594400	44.76	46.12	0.09	1360	☐	☐	☐	☐	
19-110	W594501	46.12	46.95	0.04	1140	☐	☐	☐	☐	
19-110	W594502	46.95	48.54	0.04	1740	☐	☐	☐	☐	
19-110	W594503	48.54	50.10	0.05	1860	☐	☐	☐	☐	
19-110	W594504	50.10	51.17	0.04	1550	☐	☐	☐	☐	
19-110	W594505	51.17	52.00	0.12	1080	☐	☐	☐	☐	
19-110	W594507	52.00	53.64	0.08	2200	☐	☐	☐	☐	
19-110	W594508	53.64	55.15	0.23	1620	☐	☐	☐	☐	
19-110	W594509	55.15	56.50	0.73	670	☐	☐	☐	☐	
19-110	W594510	55.15	56.50	0.69	690	☐	☑	☐	☐	
19-113	W599269	56.50	57.30	2.95	100	☐	☐	☐	☐	
19-110	W594511	57.30	59.38	0.04	1680	☐	☐	☐	☐	
		59.38	85.86			☐	☐	☐	☐	
19-110	W594512	85.86	86.90	0.13	1810	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-110	W594513	86.90	87.88	0.21	1400	☐	☐	☐	☐	
19-115	W594514	87.88	89.27	0.13	2120	☐	☐	☐	☐	
19-115	W594515	89.27	90.00	3.72	230	☐	☐	☐	☐	
19-115	W594516	90.00	93.00	0.06	2060	☐	☐	☐	☐	
19-115	W594517	93.00	95.25	0.11	1950	☐	☐	☐	☐	
19-115	W594518	95.25	96.20	0.18	440	☐	☐	☐	☐	
19-115	W594519	95.25	96.20	0.18	380	☐	☑	☐	☐	
19-113	W599270	96.20	96.82	1.24	230	☐	☐	☐	☐	
19-115	W594520	96.82	97.95	0.04	1030	☐	☐	☐	☐	
		97.95	######			☐	☐	☐	☐	
19-115	W594521	102.56	103.18	1.07	220	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-115	W594522	114.90	117.02	0.30	2260	☐	☐	☐	☐	
19-115	W594523	117.02	118.18	0.31	1490	☐	☐	☐	☐	
19-115	W594524	118.18	119.15	0.13	1730	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-115	W594525	123.29	124.58	0.02	2320	☐	☐	☐	☐	
19-113	W599271	124.58	125.08	6.49	720	☐	☐	☐	☐	high grade
19-115	W594527	125.08	125.67	0.19	920	☐	☐	☐	☐	
19-115	W594528	125.67	126.71	0.04	2170	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-115	W594529	130.93	131.27	0.82	1030	☐	☐	☐	☐	
19-115	W594530	131.27	134.00	0.07	2120	☐	☐	☐	☐	
19-115	W594531	134.00	134.40	0.03	1500	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-115	W594532	141.00	142.25	0.12	2740	☐	☐	☐	☐	
19-115	W594533	142.25	143.47	0.06	180	☐	☐	☐	☐	
19-113	W599281	143.47	144.30	0.09	190	☐	☐	☐	☐	
19-115	W594534	144.30	145.15	0.20	200	☐	☐	☐	☐	
19-115	W594535	144.30	145.15	0.09	650	☑	☐	☐	☐	
19-113	W599282	145.15	145.73	0.07	250	☐	☐	☐	☐	
19-115	W594536	145.73	146.70	0.07	1200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
19-115	W594537	146.70	149.35	0.00	1510	☐	☐	☐	☐	
19-115	W594538	149.35	149.92	0.04	1680	☐	☐	☐	☐	
19-115	W594539	149.92	150.74	1.20	890	☐	☐	☐	☐	
19-115	W594540	150.74	152.27	0.04	2030	☐	☐	☐	☐	
19-115	W594541	152.27	153.00	0.18	2060	☐	☐	☐	☐	
19-115	W594543	153.00	155.25	0.05	2500	☐	☐	☐	☐	
19-115	W594544	155.25	155.95	0.07	1380	☐	☐	☐	☐	
19-115	W594545	155.95	157.78	0.08	2650	☐	☐	☐	☐	
19-115	W594546	157.78	158.59	0.03	1300	☐	☐	☐	☐	
19-115	W594547	158.59	160.89	0.03	2000	☐	☐	☐	☐	
19-115	W594548	160.89	161.54	0.07	2730	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	
19-115	W594549	164.63	165.79	0.05	2190	☐	☐	☐	☐	
19-115	W594451	165.79	168.19	0.04	1600	☐	☐	☐	☐	
19-115	W594452	168.19	169.55	0.03	1270	☐	☐	☐	☐	
		######	######			☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.88	6.93	VN	37	67	NUL	1	Massive pyrite vein cutting altered and oxidized granodiorite.			
								Py	100	IN
8.10	8.20	FT	42	-	NUL	1	grey and black gouged clay fault zone with band of semi massive pyrite within (2cm). Pyrite band runs 70TCA			
								Py	13	MA
14.00	14.20	ST		80	NUL	1	hematite filled stringers cutting argillic altered granodiorite.			
19.90	26.52	VT	37	-	NUL	20	Densely mineralized interval of phyllic altered granodiorite with patchy argillic overprinting. Veining consists of a network of smokey grey stringers and veinlets that host an array of sulphides, including pyrite (dominant), arsenopyrite and trace galena and sphalerite. Veinlet network is associated with large vein zones found within this interval (see detailed secondary structure logs within this interval).			
								Py	4	DI
								Sp	1	DI
								Gn	1	DI
								As	2	DI
20.49	20.56	BX	34	-	NUL	1	highly fracture quartz carbonate breccia zone with black breccia present. Minor disseminated pyrite throughout.			
								Py	3	DI
22.90	22.01	VB	37	40	NUL	1	quartz-carbonate-smokey quartz breccia vein hosted in phyllic altered granodiorite. Breccia zone hosts disseminated pyrite throughout.			
								Py	10	DI
24.43	24.70	VN	37	80	NUL	2	Two quartz-smokey quartz veins with banded carbonate within. Hosted in moderately phyllic altered granodiorite. Veins host semi-massive pyrite and fine disseminated pyrite throughout. Microfractures around veins are mineralized with pyrite stringers and clay gouge.			
								Py	35	MA
								As	3	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
25.00	25.40	FT	42	75	NUL	1	clay gouged fault zone within mineralized granodiorite zone. Clay gouge found along fractures, with disseminated pyrite.			
								Py	5	DI
25.45	25.51	VN	37	85	NUL	1	Quartz carbonate vein with pyrite and carbonate stringers eminated from the centre. Hosts disseminated pyrite throughout.			
26.00	26.43	VB	37	80	NUL	1	Breccia vein zone consisting of a 7cm banded carbonate vein (banded ankerite, white carbonate) with colloform/banded textures throughout, and net textured veinlets and stringers of carbonate, quartz and pyrite +- minor arsenopyrite throughout the rest of the interval. Vein zone hosted in phyllic altered granodiorite.			
								As	1	DI
								Py	9	DI
39.00	39.11	BX	34	70	NUL	1	black breccia cutting through light to medium grey QFP dyke.			
39.30	39.50	FT	42	-	NUL	1	intensely clay gouged fault zone found within quartz feldspar porphyry dyke. Contacts are too fractured and gouged to get measurement.			
45.00	45.25	FT	42	-	NUL	1	intensely clay gouged fault zone between QFP dyke and granodiorite.			
45.25	45.46	VT	37	50	NUL	1	net textured zone of quartz and smokey quartz carbonate veining with disseminated pyrite throughout.			
50.10	50.15	VT	37	40	NUL	1	net textured carbonate veins within propyliitic altered granodiorite.			
51.89	51.92	VN	37	50	NUL	1	Quartz vein hosted in unaltered granodiorite hosting blebby pyrite.			
								Py	50	BL
55.15	55.18	VN	37	60	NUL	1	quartz vein hosting blebby, zoned black to honey brown sphalerite, pyrite and minor galena. Found in phyllic to argillic altered granodiorite.			
								Py	3	BL
								Gn	1	BL
								Sp	10	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
86.92	86.94	VN	37	68	NUL	1	2cm quartz vein hosting blebby pyrite, sphalerite and galena throughout. Hosted in unaltered to trace propylitic altered granodiorite.			
								Sp	25	BL
								Py	25	BL
								Gn	25	BL
89.27	89.30	VN	37	40	NUL	1	low angle quartz carbonate vein hosting trace pyrite. Found within argillic/propylitic altered granodiorite.			
								Py	3	DI
102.56	103.18	BX	34	-	NUL	1	black breccia zone found in weakly phyllic to proylitic altered granodiorite. Breccia consists of quartz, carbonate, smokey quartz and clasts of altered granodiorite. Disseminated pyrite is found throughout.			
								Py	6	DI
118.15	118.18	VT	37	50	NUL	1	quartz carbonate stringer hosting disseminated pyrite.			
								Py	6	DI
118.80	119.00	VN	37	-	NUL	1	vuggy carbonate quartz vein hosted in propylitic altered granodiorite. Strongly rubbled so exact width is unknown.			
125.30	125.32	VN	37	70	NUL	1	quartz carbonate veinlet (1cm) with a siliceous propylitic halo (1cm). Hosts disseminated pyrite.			
								Py	8	DI
125.43	125.67	BX	34	30	NUL	1	black breccia with trace disseminated pyrite crosscutting a minor quartz veinlet (70TCA). Breccia and vein host disseminated pyrite.			
								Py	4	DI
131.00	131.06	VN	37	78	NUL	1	black breccia vein hosting disseminaetd pyrite and minor carbonae.			
								Py	4	DI
134.08	134.15	VB	37	65	NUL	1	quartz carbonate breccia vein hosting disseminated pyrite. Hosted in phyllic to unaltered granodiorite. Fault gouge found along footwall side.			
								Py	5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
143.87	144.10	VN	37	80	NUL	1	Quartz vein zone hosted in strongly phyllic altered granodiorite. Vein is categorized by more of a mineralized quartz flooding than a typical vein. Flooded by siliceous quartz and hosts bands of semi-massive pyrite throughout. Minor gouged microfractures also present.			
								Py	30	MA
145.55	145.73	VB	37	60	NUL	1	quartz carbonate vein zone hosting interstitial quartz that is brecciated by white carbonate. Vein hosts black seams within. Disseminated pyrite is scattered throughout.			
								Py	20	DI
150.00	150.10	VN	37	50	NUL	2	Two narrow smokey quartz carbonate veinlets (1.5cm) found in deep green coloured, propylitic altered granodiorite. Veins host disseminated pyrite within.			
								Py	8	DI
150.67	150.74	VN	37	67	NUL	1	Banded quartz carboante vein hosted in phyllic altered granodiorite. Vein hosts disseminated to blebby pyrite.			
								Py	15	DI
								Py	3	BL
152.23	152.25	BN		68	NUL	1	Band of quartz and carbonate hoste in phyllic altered granodiorite that hosts dissemianted pyrite.			
								Py	8	DI
158.35	158.42	VN	37	60	NUL	0	net textured carbonte vein zone found in propylitic altred granodiorite. No mineralizatoin			
167.80	167.87	VN	37	65	NUL	1	carbonate vein hosted in moderately argillic altered granodiorite that has trace propylitic overprinting. No visible mineralization.			
168.15	168.16	VT	37	65	NUL	1	quartz veinlet cutting moderately argillic altered granodiorite. Minor disseminated to blebby pyrite within.			
								Py	3	BL

APPENDIX VII

SIGNIFICANT DRILL INTERSECTIONS

Hole ID	Zone ID	From (m)	To (m)	Interval (m)*	Gold (g/t)	Silver (g/t)
KL-10-03	Central Klaza	32.96	35.5	2.54	4.34	71.2
and		62.08	112.36	50.28	1.1	23.5
including		62.08	64.74	2.67	2.41	130.1
including		86.93	106.68	19.75	2.29	36.1
including		86.93	89.55	2.62	13.05	143
KL-10-04	BRX	97.6	98.75	1.15	1.55	23.2
and		109.83	111	1.17	5.07	53.6
KL-10-06	Pika	21.64	25	3.36	32.52	34.3
KL-10-07	Central Klaza	33.5	34.5	1	1.91	38.5
and		57.8	58.8	1	5.51	107
and		128	164.5	36.5	3.23	117.7
including		134	149.3	15.3	7.2	260
including		138.5	139.5	1	39.3	709
including		146.77	149.3	2.53	24.7	1087
KL-10-09	Pika	25.4	26.4	1	2.89	78
KL-10-10	Central Klaza	137	211.3	74.3	0.7	8.3
including		137	146.3	9.3	1.51	7.4
including		137	139.15	2.15	3.81	21.5
including		145.1	146.3	1.2	4.12	7.8
including		178	211.3	33.3	1.04	14.7
including		178	179	1	8.78	182
including		203	204	1	3.81	19.8
including		210	211.3	1.3	12.9	181
KL-10-11	AEX	88	89	1	0.45	99.2

and		110.2	111.2	1	2.25	25
and	BRX	182	189.6	7.6	0.89	9.17
including		182	183	1	2.86	3.7
and including		188.66	189.6	0.94	3.43	66.8
and		199.2	200.2	1	1.48	43.6
and		218	219	1	2.66	8.2
KL-11-12	Central Klaza	107.08	108.1	1.02	3.06	253
and		194.4	196.36	1.96	1.98	49
and		217.34	225.8	8.46	1.75	42
including		221	225.8	4.8	2.8	70
and		257.7	258.72	1.02	3.7	7
KL-11-13	Central Klaza	89.23	94	4.77	1.71	34
and		137.23	139.16	1.93	1.13	37
and		156.45	203.61	47.16	0.52	6
including		156.45	165.46	9.01	1.24	12
KL-11-14	Central Klaza	120.1	121.1	1	1.75	32
and		155.13	156.07	0.94	0.58	135
and		231.76	232.79	1.03	7.99	45
and		289.68	307.46	17.78	1.14	12
including		289.68	297.79	8.11	2.39	22
KL-11-15	Central Klaza	76.66	87.12	10.46	4.24	15
and		109.8	111.18	1.38	1.98	56
KL-11-16	Central Klaza	55.28	57	1.72	1	16
and		79.71	94.82	15.11	2.89	49
including		88.04	94.82	6.78	6.09	101
KL-11-17	Central Klaza	141.42	142.5	1.08	9.68	211
and		207.27	219.3	12.03	3.78	25
including		215.36	219.3	3.94	11.25	72

and		267.11	269.58	2.47	3.98	20
KL-11-18	Central Klaza	72.48	75.26	2.78	0.94	12
and		131.22	172.77	41.55	0.75	18
including		131.22	136.25	5.03	1.07	84
and		153	172.77	19.77	1.03	9
KL-11-19	Central Klaza	176.28	177.79	1.51	1	19
and		204.49	234.91	30.42	1.27	12
including		232.02	234.91	2.89	7.81	43
KL-11-20	Central Klaza	61.29	62.37	1.08	0.57	83
and		118.12	119.14	1.02	1.48	78
and		213.94	215.79	1.85	1.84	3
and		226.55	228.21	1.66	1.29	55
and		262	263	1	11.9	12
and		274.3	277.22	2.92	1.99	16
and		314.29	317.34	3.05	1.54	7
and		345.47	356.32	10.85	1.75	11
KL-11-21	Central Klaza	133	145.34	12.34	1.25	31
including		133	134.92	1.92	7.24	176
and		166.48	171.88	5.4	2.37	23
KL-11-22	BRX	56.2	61.4	5.2	0.47	124
KL-11-23	BRX	109	110.55	1.55	3.99	229
KL-11-24	BRX	72	73.37	1.37	3.15	72
KL-11-25	Central Klaza	52.48	64.42	11.94	2.31	41
including		52.48	58.75	6.27	4.22	75
and		94.7	95.71	1.01	7.48	445

KL-11-26	Central Klaza	72.01	83.34	11.33	0.98	15
KL-11-27	Central Klaza	101.28	114.33	13.05	2.27	15
including		101.28	103.22	1.94	8.56	77
and		143.82	170.03	26.21	1.76	26
including		144.37	145.16	0.79	27.4	549
including		155.93	157.53	1.6	6.43	50
including		168.57	170.03	1.46	7.41	54
and		211.99	213.43	1.44	10.19	23
including		211.99	212.6	0.61	21.3	39
KL-11-28	Central Klaza	72.48	75.1	2.62	1.6	32
and		202	202.63	0.63	5.41	54
and		253.66	255.12	1.46	10.25	585
KL-11-29	BRX	31.9	41.24	9.34	1.95	147
including		31.9	34.9	3	3.29	407
KL-11-31	Central Klaza	229.73	231.72	1.99	2.58	19
and		248.52	249.53	1.01	5.07	98
KL-11-32	Central Klaza	70.36	71.34	0.98	0.68	98
and		117.09	118.04	0.98	4.2	16
and		122.81	123.43	0.62	2.47	14
KL-11-33	BRX	120.3	121.64	1.34	5.51	180
KL-11-34	Western Klaza	16.52	18.53	2.01	1.48	33
and		148.95	157.42	8.47	1.31	66
including		156.28	157.42	1.14	5.84	122
KL-11-35	BRX	112.42	115.44	3.02	3.03	84
including		126.74	130.6	3.86	5.85	92

KL-11-36	Western Klaza	59.42	62.46	3.04	0.41	165
and		136	138	2	1.61	102
and		174	176.02	2.02	1.48	32
and		242.71	245	2.29	1.37	32
KL-11-37	BRX	81.13	95.93	14.8	5.43	50
including		81.13	82.83	1.7	11.05	133
and including		88.95	90.17	1.22	34	298
and including		94.68	95.93	1.25	13.1	97
KL-11-38	Central Klaza	64.82	84.22	19.4	0.99	25
including		66.8	69.7	2.9	2.88	14
including		75.38	76.62	1.24	6	179
and		102.87	104.19	1.32	6.67	94
and		115.55	116.77	1.22	3.54	42
KL-11-39	BRX	151.29	152.94	1.65	23.5	239
KL-11-40	Central Klaza	63.33	68.02	4.69	5.39	26
and		82.36	83.36	1	4.48	5
and		130.6	137.68	7.08	0.7	13
and		175.65	177.17	1.57	2.06	11
KL-11-41	Central Klaza	183.63	193.31	9.68	1.59	9
and		207.44	212.58	5.14	1.16	12
and		253.31	254.75	1.44	3.09	12
and		306.93	308.31	1.38	1.08	17
and		340.3	341.3	1	2.6	16
KL-11-42	Regional	41.63	42.51	0.88	1.45	30
and		94.82	96.62	1.8	0.01	422

KL-11-43	Central Klaza	89.44	90.8	1.36	1.95	84
and		120.15	135.02	14.87	1.08	18
and		149.95	151.66	1.71	3.02	46
and		202.59	208.8	6.21	0.93	16
and		260.55	262.7	2.15	4.42	12
KL-11-44	Central Klaza	14.21	17.02	2.81	0.86	9
and		80.39	82.19	1.8	1.85	67
and		193	194.42	1.42	0.5	143
and		234	235	1	2.56	3
and		291.55	301.7	10.15	2.67	50
including		291.55	296.41	4.86	4.76	88
and		342.96	343.98	1.02	1.63	35
KL-11-45	Regional	125.64	127.1	1.46	1.05	51
and		134.95	136.25	1.3	2.94	94
KL-11-46	Central Klaza	179.03	204.51	25.48	0.53	11
including		179.03	188.15	9.12	0.88	22
and		242.9	243.71	0.81	11.95	151
and		293.48	294.68	1.2	4.25	16
KL-11-47	Central Klaza	57.72	61.48	3.76	6.93	36
and		73.86	74.86	1	2.79	52
and		145.39	157.52	12.13	1.18	14
including		156.52	157.52	1	9.28	78
KL-11-50	Central Klaza	51.05	53.95	2.9	14.05	30
and		108.49	125.01	16.52	1.18	6
and		199.35	214.22	14.87	1.02	8
and		252.02	253.48	1.46	4.71	19
KL-11-52	Central Klaza	149.24	166.09	16.85	1.2	8

and		192.51	193.53	1.02	2.48	49
and		257.37	265.55	8.18	2.22	19
including		263.08	263.58	0.5	31.1	208
KL-11-53	Central Klaza	33.38	34.28	0.9	3.26	4
and		45.27	58.26	12.99	0.77	5
including		45.27	49.89	4.62	1.41	7
and		174.67	176.46	1.79	8.19	30
KL-11-55	Central Klaza	82.85	84.43	1.5	4.87	35
and		244	255.34	11.34	0.76	10
and		264.46	265.58	1.12	3.08	57
and		276.8	284.22	7.42	0.67	46
and		308.25	311.22	2.97	2.26	21
and		369.64	370.64	1	3.37	141
KL-11-56	Central Klaza	109.12	121.63	12.51	5.03	14
and		232.23	233.23	1	9.34	76
KL-11-57	Central Klaza	60.05	71.95	11.9	0.58	8
including		67.63	71.95	4.32	0.96	10
KL-11-58	Central Klaza	18.62	20.42	1.8	2.79	26
and		61.32	62.32	1	2.85	47
and		70.07	71.35	1.28	13.05	60
and		179.28	196.7	17.42	1.5	36
including		182.66	184.86	2.2	4.38	192
including		187.56	188.96	1.4	5.11	27
including		195.7	196.7	1	3.81	112
and		238.07	239.51	1.44	2.46	28
and		248.97	249.97	1	5.45	18
and		264.2	265.2	1	3.66	112
and		290.03	291.03	1	3.84	44
KL-11-59	Central Klaza	107.65	119.22	11.57	0.57	12

including		117.67	119.22	1.55	1.2	6
KL-11-60	Central Klaza	66.14	67.06	0.92	4.45	6
and		90.03	96.38	6.35	1.17	16
and		133.19	138.01	4.82	1.42	22
and		234.62	239.95	5.33	0.82	6
and		261.21	265.95	4.74	0.86	17
and		293.41	295.33	1.92	1.17	17
KL-11-61	Central Klaza	15.04	17.47	2.43	2.03	23
and		24.28	27.35	3.07	1.76	7
and		75.08	82.2	7.12	1.39	19
and		160.63	184.9	24.27	1.21	8
and		279.86	286.66	6.8	0.81	7
and		299.75	301.05	1.3	1.42	105
and		308.73	309.98	1.25	2.92	41
KL-11-62	Central Klaza	51.81	55.4	3.59	3.81	14
and		161.03	173.2	12.17	0.65	25
including		161.03	163.68	2.65	1.5	71
and		275.03	276.03	1	1.02	169
and		299.05	300.7	1.65	7.17	14
KL-11-63	Central Klaza	69.77	71.2	1.43	6.29	342
and		125.41	126.41	1	1.84	111
and		300.67	310.92	10.25	1.17	15
including		300.67	301.67	1	8.17	91
KL-11-51x	Eastern Klaza	250.3	251.5	1.2	2.07	27.9
and		427.39	428.43	1.04	0.88	10.7
and		435.32	439.27	3.95	0.82	8.45
KL-12-64	Eastern Klaza	56.46	61.14	4.68	0.76	8.85
and		88.84	93.26	4.42	2.07	20.7
and		125	126.33	1.33	2.02	46.7

KL-12-65	Eastern Klaza	11.87	12.87	1	2.78	20
and		97.15	98.44	1.29	1.47	10.8
and		119.82	121.84	2.02	1.78	12.9
and		130.7	135.04	4.34	3.91	30.2
including		134.04	135.04	1	16.05	90.2
and		188.61	190.77	2.16	0.81	98
KL-12-66	BRX	51.28	59.98	8.7	0.74	35
including		58.98	59.98	1	2.63	261
and		63.39	64.39	1	2.5	24.6
and		80.53	81.53	1	2.93	15
and	Pika	276.95	277.9	0.95	0.64	130
KL-12-67	Eastern Klaza	119.98	121	1.02	2.34	234
and		131.7	135.15	3.45	1.03	129.12
including		132.7	133.95	1.25	2.07	341
and		203.78	206.35	2.57	3.07	23.1
KL-12-68	Eastern Klaza	53.18	54.18	1	5.19	34
and		88.82	96.55	7.73	0.81	6.35
including		88.82	90.78	1.96	1.16	14.21
and		93.97	96.55	2.58	1.26	5.43
and		122.2	123.2	1	34.1	47.5
and		174.65	178.14	3.49	1.14	107.28
and		236.97	238.41	1.44	1.52	16.75
and		254.64	256.74	2.1	0.22	68.2
KL-12-69	BRX	190.44	194.86	4.42	3.23	58.88
including		190.44	192.26	1.82	5.79	40.2
KL-12-70	Eastern Klaza	37.29	38.3	1.01	1.07	7.89
KL-12-71	Eastern Klaza	69.4	73.17	3.77	1.72	13.24

including		69.4	71	1.6	3.03	28
and		99.89	108.05	8.16	1.25	14.89
including		99.89	104.98	5.09	1.67	21.55
and		147.7	148.83	1.13	1.31	81.8
and		177.26	179.37	2.11	0.8	48.22
and		196.32	199.79	3.47	0.93	24.12
and		206.39	208.63	2.24	1.27	11.51
KL-12-72	BRX	178.48	179.81	1.33	10.6	23.2
and		203.19	210	6.81	1.55	11.02
including		203.19	204.4	1.21	4.48	15.1
KL-12-73	Eastern Klaza	38.25	41.57	3.32	0.98	28.8
and		64.55	65.55	1	2.3	36.2
and		165.3	166.5	1.2	0.62	84.1
and		237.75	238.82	1.07	2.06	6.15
KL-12-74	BRX	206.89	207.89	1	4.85	35.7
and		244.64	246.7	2.06	3.75	0.05
KL-12-75	Western Klaza	78.68	80.5	1.82	5.66	5.57
and		103.3	104.3	1	2.91	299
KL-12-76	Eastern Klaza	92	93.08	1.08	1.64	6.97
and		103.27	111.51	8.24	1.11	5.27
Including		103.27	104.53	1.26	3.22	6.82
and		173.94	175.35	1.41	0.77	86.4
KL-12-77	Eastern Klaza	58	59	1	14.65	392
and		193.04	199.26	6.22	1.39	16.07
and		194.26	195.26	1	7.43	65.2
KL-12-78	Eastern Klaza	48.22	57.27	9.05	1.12	38.5
and		97.05	98.05	1	2.43	22.6

and		191.43	193.45	2.02	1.08	9.02
and		203.85	205.98	2.13	1.3	4.67
KL-12-79	Western Klaza	91.56	94.77	3.21	3.18	516
including		92.65	93.77	1.12	7.47	1350
KL-12-80	Eastern Klaza	187.53	189.95	2.42	2.29	24.7
and		196.95	204.2	7.25	1.06	8.58
including		203.15	204.2	1.05	6.52	6.88
and		288	289.25	1.25	1.94	3.22
KL-12-81	Dickson	12.68	13.68	1	2.84	14.5
and		28.24	29.76	1.52	1.61	3.44
and		59.43	61.61	2.18	4.81	2.36
and		89.37	90.37	1	3.63	130
KL-12-82	Eastern Klaza	92.9	94.5	1.6	0.85	369
and		185.52	189.75	4.23	0.54	36.09
including		185.52	186.52	1	1.76	146
and		240.22	247.04	6.82	1.13	14.6
including		240.22	241.23	1.01	3.19	49.2
KL-12-83	Dickson	45.01	46.36	1.35	5.83	132
and		105.83	107.17	1.34	0.73	59.1
KL-12-85	Eastern Klaza	207.64	208.64	1	0.62	36.5
KL-12-86	Dickson	115.69	116.69	1	7.08	127
KL-12-87	Regional	194.5	196	1.5	1.19	7.06
KL-12-88	BRX	236.83	247.42	10.59	1.36	58.1
including		236.83	239.41	2.58	4.64	181

KL-12-89	Pika	55.39	57.59	2.2	3.84	43.2
KL-12-91	AEX?	98.02	99.07	1.05	17.65	119
and	BRX	295.13	296.5	1.37	3.27	33.6
and		333.89	336.13	2.24	0.73	19.5
KL-12-92	Pika	117.08	120.05	2.97	1.14	4.5
and	Herc	171.82	172.82	1	2.8	8.46
KL-12-95	Pika	121.65	123.08	1.43	1.38	0.74
and	Herc	250.57	252.85	2.28	3.39	205
and		258.75	259.75	1	1.38	53.7
KL-12-93	Pika	90.17	93.59	3.42	1.51	23.2
including		90.17	91.51	1.34	3.47	21.2
and		108.7	109.7	1	6.29	61.9
KL-12-96	BRX	329.74	345.36	15.62	5.78	111
including		329.74	332.06	2.32	25.1	621
and including		342.46	345.36	2.9	10.55	92.7
KL-12-97	AEX	63.85	65.33	1.48	1.15	5.54
and		72.74	75.29	2.55	1.57	4.26
and	BRX	223.86	225.69	1.83	1.61	12.7
and		236.92	248.51	11.59	1.71	6.44
including		236.92	238.23	1.31	13.05	17.65
KL-12-99	BRX	204.22	205.22	1	0.52	118
KL-12-100	Herc	208.55	209.55	1	0.45	61.4
and		247.04	248.04	1	1.31	29.3

KL-12-101	Dickson	44.37	45.6	1.23	2.37	34.4
KL-12-102	BRX	296.93	308.2	11.27	0.31	40.5
including		296.93	298.44	1.51	1.75	209
KL-12-103	AEX	19.28	20.28	1	1.16	35.7
and		26.07	29.9	3.83	1.21	49
including		28.38	29.9	1.52	1.9	111
KL-12-105	BRX	179.84	180.95	1.11	0.54	50
and		189.46	191.11	1.65	1.62	286
KL-12-106	BRX	227.99	228.99	1	1.01	59.3
and		250.36	251.36	1	3.42	116
KL-12-107	Western Klaza	111.49	112.49	1	4.64	191
and		121.73	122.73	1	1.18	3.42
and		204.8	206.08	1.28	2.13	4.94
KL-12-108	Dickson	73.71	77.09	3.38	3.09	78.6
KL-12-109	AEX	4.9	6.89	1.99	1.29	24.7
and	BRX	266.67	267.86	1.19	3.57	283
and		276.97	277.97	1	0.92	16.9
KL-12-110	Eastern Klaza	36.82	38.05	1.23	1.39	7.64
and		49.22	50.22	1	1.96	8.46
and		56.53	62.94	6.41	1.71	10.53
including		61.83	62.94	1.11	4.81	39.1
and		113.75	114.77	1.02	1.22	156
and		136.8	137.8	1	0.72	33.6
and		212.52	213.52	1	1.26	3.97

and		218.82	219.82	1	1.67	6.1
and		233	234.01	1.01	1.55	40.2
and		298.35	299.94	1.59	1.5	2.76
and		302.97	304.08	1.11	1.4	2.77
and		319.64	322.01	2.37	3.18	1.67
KL-12-112	BRX	262.34	263.11	0.77	1.74	167
and		266.09	267.09	1	1.08	19.8
KL-12-114	BRX	45.58	47.85	2.27	6.86	153
and		81.15	82.15	1	2.26	51.2
and	Pika	106.64	119.22	12.58	2.25	40
including		106.64	107.64	1	9.55	137
and including		117.7	119.22	1.52	11.3	233
and	Herc	183.51	185.85	2.34	1.32	8.4
KL-12-115	Western Klaza	180.42	181.53	1.11	1.6	1.08
and		214.47	221.59	7.12	4.51	332
including		214.47	215.5	1.03	2.98	1560
and including		219.48	221.59	2.11	13.75	357
KL-12-116	Eastern Klaza	115.75	116.75	1	0.53	53.6
and		211.09	212.09	1	2.56	2.31
and		226.79	227.92	1.13	2.15	8.35
and		229.24	230.62	1.38	0.98	19.6
and		273.35	274.35	1	0.98	12.9
and		297.74	298.79	1.05	3.81	6.6
and		323.81	325.22	1.41	0.7	34.9
and		368.5	369.51	1.01	1.76	11.65
and		396	397	1	1.22	0.59
KL-12-117	Chevron	108.81	109.81	1	1.73	38
KL-12-	BRX	158.42	166.05	7.63	0.62	33.3

118						
including		165.05	166.05	1	1.85	145
KL-12-120	Chevron	72.79	73.8	1.01	2.54	45.6
and		101.09	102.35	1.26	3.97	95.4
and		118.73	119.73	1	0.34	50
KL-12-121	Eastern Klaza	87.69	89.03	1.34	1.29	5.02
and		93.5	94.5	1	0.71	25.1
and		295.7	296.85	1.15	1.24	1.58
and		301.1	302.12	1.02	1.22	2.48
and		374.6	376.42	1.82	1.52	4.14
and		386.6	404.63	18.03	1.43	2.69
including		386.6	387.7	1.1	5.3	11.8
and including		393.79	396.09	2.3	3.88	4.38
KL-12-122	Western Klaza	35.45	37.2	1.75	0.48	82.5
and		160.2	161.5	1.3	0.7	40.1
and		207.07	208.07	1	2.42	37
and		235.45	238.35	2.9	1.44	15.83
including		235.45	237.16	1.71	2.09	20.3
and		301.2	302.25	1.05	15.9	333
KL-12-123	BRX	248.85	249.85	1	5.09	37.4
and		258.33	259.53	1.2	1.89	13.9
and		277.07	278.07	1	1.02	15.05
KL-12-124	Western Klaza	7.2	9.82	2.62	1.33	42.6
and		42	43	1	0.67	49.5
and		202.94	203.94	1	1.98	72.3
and		260.75	264.59	3.84	0.95	40.1
and		291.78	292.91	1.13	1.08	34.1
KL-12-125	BRX	202.93	203.98	1.05	3.94	18.2

and		225.17	228.69	3.52	1.83	17.81
including		225.17	226.51	1.34	2.69	29.9
and		236.83	237.83	1	1.56	18.55
and		252.07	257	4.93	2.86	20.2
including		252.07	253.44	1.37	5.75	8.05
and including		255.85	257	1.15	5.36	75.8
and		265.26	266.26	1	2.49	3.33
and		269.73	270.73	1	4.96	5.95
KL-12-126	BRX	65.3	68.95	3.65	1.31	43.9
including		65.3	66.4	1.1	1.62	116
and including		67.8	68.95	1.15	2.4	22.9
and	Pika	133.7	135.3	1.6	4.4	4.06
and		145.4	147.3	1.9	2.06	23.9
and		179.92	181.97	2.05	1.58	1.54
and		189.5	190.5	1	1.56	2.5
KL-12-127	Western Klaza	37.51	38.56	1.05	1.72	94.8
and		168.11	169.11	1	5.73	204
and		186.35	187.35	1	1.41	169
KL-12-128	BRX	160.74	162.15	1.41	1.15	10.85
and		163.8	164.8	1	0.8	23.6
and		171.48	174.15	2.67	1.08	0.96
KL-12-131	Western Klaza	168.8	172.3	3.5	1.28	14.69
including		168.8	169.9	1.1	2.75	1.05
and		243.09	246.5	3.41	1.28	135
including		243.09	245.25	2.16	1.25	207
and		291.5	292.5	1	0.55	46
KL-12-132	BRX	186.88	188.36	1.48	5.11	41.1
KL-12-	Central	104.2	105.2	1	0.82	88.4

133	Klaza					
and		136.25	137.27	1.02	1.03	28.3
and		160.63	161.63	1	1.62	105
and		237.41	239.41	2	2.36	218
including		237.41	238.41	1	3.22	400
and		260.45	261.45	1	1.92	13.6
and		292.77	293.77	1	2.13	19.3
and		334.3	336.1	1.8	2.78	29
and		359.93	360.93	1	0.66	265
and		383.27	384.27	1	0.97	16
and		422.76	423.76	1	1.57	55.3
and		439	445.7	6.7	11.9	5.23
including		439	440	1	5.25	8.32
and including		442.7	445.7	3	24.5	3.39
KL-12-134	BRX	65.6	66.9	1.3	0.36	53.1
KL-12-135	BRX	433.51	436.15	2.64	3.66	112
including		434.7	436.15	1.45	5.87	197
KL-14-136	BRX	58.3	58.8	0.5	2.98	12.5
KL-14-137	secondary	24.42	27.41	2.99	1.92	29.8
and	BRX	110.87	112.28	1.41	10.6	32.2
including		111.4	111.71	0.31	38.9	107
and		125.15	128.1	2.95	26.9	181
including		125.15	126.46	1.31	56.4	318
KL-14-138	BRX	131.8	132.43	0.63	40.5	536
KL-14-139	secondary	98.05	98.81	0.76	1.98	13

KL-14-141	secondary	109.4	110.35	0.95	1.84	13
and	BRX	137.21	138.31	1.1	29.9	660
KL-14-142	BRX	155.13	157.52	2.39	6.38	83.8
including		157.16	157.52	0.36	39	498
KL-14-143	BRX	118.92	120.2	1.28	2.23	47
and		123.4	125.05	1.65	28.9	669
KL-14-144	BRX	102.27	104.67	2.4	10.25	259
including		102.92	103.76	0.84	26.8	705
and		108.34	112.1	3.76	10.99	21
including		111.09	112.1	1.01	29.3	36.8
KL-14-145	BRX	96.99	99.89	2.9	10.79	121
including		96.99	97.76	0.77	13.05	310
and including		99.59	99.89	0.3	67.4	320
KL-14-146	secondary	63.36	64.36	1	3.62	24.9
KL-14-147	BRX	145.81	150.4	4.59	7.36	225
including		145.81	147.7	1.89	15.95	123
and including		149.56	150.4	0.84	4.06	946
KL-14-148	BRX	190.95	194.97	4.02	1.35	10.5
and	secondary	210.2	210.47	0.27	4.31	148
KL-14-149	BRX	60	60.95	0.95	0.76	2.51
KL-14-149		67.68	71.35	3.67	1.39	4.58

KL-14-149		76.03	77.53	1.5	0.51	15.7
KL-14-149		84.94	87.55	2.61	0.92	12.6
KL-14-150	BRX	46.49	49.47	2.98	26.71	172
incl.		46.49	47.17	0.68	51.5	181
and incl.		48.31	49.47	1.16	38.2	333
and		57.92	58.43	0.51	1.64	36.7
KL-14-151	BRXb	142.95	144.2	1.25	1.5	77.8
and	BRX	183.95	187.16	3.21	22.43	245
and		183.95	188.18	4.23	17.37	193
incl.		183.95	184.75	0.8	31	310
and incl.		186.44	187.16	0.72	64.9	725
KL-14-152	BRXb	6.24	9.66	3.42	1.63	5.54
and	BRX	61.2	64.24	3.04	7.86	61.3
incl.		62.14	62.83	0.69	25.2	163
KL-14-153	BRXb	17.37	18.09	0.72	8.74	71.2
and	BRX	63.3	67.1	3.8	4.47	23.8
incl.		66.7	67.1	0.4	19.1	112
and		71.45	73.51	2.06	14.3	142
incl.		72.75	73.51	0.76	32.2	252
and		63.3	73.51	10.21	4.59	38.1
KL-14-154	BRX	46.7	49.27	2.57	26.39	163
incl.		46.7	47.7	1	66.2	403
and		60.05	60.38	0.33	2.74	7.04
KL-14-155	BRX	105.6	106.02	0.42	6.14	369
and		116.7	117.02	0.32	3.09	18.8
KL-14-156	BRXb	114.03	114.5	0.47	6.05	101

and	BRX	196.32	198.81	2.49	5.68	253
incl.		197.84	198.81	0.97	14.3	513
KL-14-157	BRX	69.59	71.33	1.74	9.65	240
incl.		69.59	70.24	0.65	18.55	334
and		79.52	79.93	0.41	1.58	777
KL-14-158	BRX	144.65	146.04	1.39	12.28	123
incl.		144.65	145.57	0.92	17.27	175
and		163.12	163.88	0.76	27.84	291
incl.		163.12	163.62	0.5	42	432
KL-14-159	PEARL	22.86	25.91	3.05	1.52	8.61
and		184.4	184.83	0.43	1.9	3.2
and		215.15	215.8	0.65	2.23	23.8
KL-14-160	BRX	74.2	76.14	1.94	2.15	88.4
KL-14-161	BRX	36.91	37.37	0.46	0.47	110
KL-14-162	Pearl	38.35	40.08	1.73	2	7.27
and		52.25	52.7	0.45	2.94	64
KL-14-163	BRX	170.63	171.14	0.51	4.06	75.5
KL-14-165	BRX	84.3	88.35	4.05	1.3	59.9
incl.		84.3	85.34	1.04	4.7	190
KL-14-166	Central Klaza	32.37	35.52	3.15	1.62	59
incl.		32.37	32.9	0.53	3.09	118
and		48.75	49.8	1.05	1.64	147
and		70.62	71.63	1.01	0.15	154
and		98.68	100.15	1.47	2	17.4

KL-14-167	BRX	142.17	145.24	3.07	0.31	121
incl.		142.17	142.56	0.39	2.02	619
and		150.74	152.6	1.86	1.24	107
incl.		150.74	151.33	0.59	3.27	304
KL-14-168	BRX	141.93	144.38	2.45	0.55	39.9
incl.		141.93	142.34	0.41	1.68	114
and		149.1	149.55	0.45	1.84	116
KL-14-169	Central Klaza	77.28	78.46	1.18	6.01	72.7
and		88.35	95.2	6.85	0.68	10.7
incl.		94.8	95.2	0.4	6.57	116
and		126.2	126.74	0.54	3.37	112
and		138.4	141.02	2.62	3.87	38.3
incl.		140.06	141.02	0.96	7.13	46.6
KL-14-170	BRX	184.03	185.67	1.64	1.21	271
incl.		184.96	185.41	0.45	2.49	664
KL-14-171	Central Klaza	76.78	81.19	4.41	3.58	160
incl.		76.78	77.4	0.62	22.9	1100
and		137.22	137.95	0.73	11.85	56.4
KL-14-172	BRXb	180.31	182.22	1.91	2.85	20.4
and	BRX	261.29	265.74	4.45	6.65	157
incl.		261.29	262.3	1.01	27.8	656
KL-14-173	Central Klaza	74.9	76.83	1.93	3.03	39
and		104.3	105.37	1.07	1	291
KL-14-174	Central Klaza	35.92	37.39	1.47	4.08	71.1

KL-14-175	Central Klaza	87.47	88.72	1.25	1.58	128
and		129.2	130.17	0.97	4.67	34
and		142.17	144.12	1.95	1.72	12.6
and		150.05	150.65	0.6	1.98	66.6
and		185.83	187.2	1.37	1.04	58.9
and		201.35	204.6	3.25	1.67	29
incl.		201.35	202.41	1.06	2.1	62.1
KL-14-176	Western Klaza	58.61	58.86	0.25	10.25	130
KL-14-177	BRX	279.39	281.8	2.41	8.71	38.2
incl.		281.14	281.8	0.66	26.8	101
KL-14-178	Western Klaza	95.86	97.64	1.78	14.19	353
including		95.86	96.82	0.96	25.3	637
KL-14-179	Western Klaza	111.85	112.69	0.84	3.2	149
KL-14-180	secondary	45.2	46.2	1	1.64	361
and	Western Klaza	249.55	250.61	1.06	20.6	93.8
KL-14-181	BRX	285.06	287.45	2.39	10.21	115
incl.		286.34	287.45	1.11	20.73	235
KL-14-182	Klaza	183.89	184.71	0.82	14.6	778
KL-14-183	BRXb	163.68	164.84	1.16	3.62	107
and	BRX	225.44	226.01	0.57	2.88	16
and		231.52	232.16	0.64	2.99	53.2
and		261.22	261.59	0.37	35.5	359

KL-14-184	Western Klaza	163.62	170.65	7.03	3.55	41.6
including		163.62	163.86	0.24	12.6	1130
and including		169.99	170.65	0.66	30.9	5.28
KL-14-185	secondary	49.3	50.3	1	0.66	314
and	Western Klaza	147.17	149.74	2.57	3.94	270
including		147.17	148.85	1.68	5.2	168
KL-14-186	BRX	219.02	221.2	2.18	10.23	298
incl.		219.02	219.76	0.74	3.79	593
and incl.		220.74	221.2	0.46	41.8	433
KL-14-187	secondary	39.82	40.96	1.14	3.13	8.85
and	Western Klaza	203.3	203.82	0.52	8.35	96
and		212.26	212.52	0.26	5.11	420
KL-14-188	BRX	211.25	213.05	1.8	2.08	3.81
and		215.28	218.75	3.47	9.86	220
incl.		217.28	218.75	1.47	21.5	323
KL-14-189	Western Klaza	133.45	136.36	2.91	4.35	159
including		133.45	134.39	0.94	5.8	250
KL-14-190	Western Klaza	121.08	122.21	1.13	2.84	25.3
and		140.19	140.55	0.36	6.59	107
KL-14-192	BRX	230.3	235.13	4.83	2.08	30.6
incl.		230.3	231.2	0.9	8.92	63.5
KL-14-193	Central Klaza	157.49	158.11	0.62	2.63	53.3
and		180.5	180.7	0.2	2.25	169
and		249.84	253	3.16	2.59	9.16

incl.		252.71	253	0.29	23.6	55.1
KL-14-194	BRX	63.23	63.95	0.72	6.05	318
and		72.4	73.65	1.25	2.84	185
incl.		72.75	73.65	0.9	3.84	241
KL-14-195	BRX	214.94	218.57	3.63	3.21	18.7
incl.		214.94	215.51	0.57	6.14	44
and incl.		218.23	218.57	0.34	13.3	68.1
KL-14-196	BRX	57.72	62.33	4.61	1.92	214
incl.		57.72	58.78	1.06	2.65	359
and incl.		59.26	60.05	0.79	4.87	457
KL-14-197	BRX	79.7	80.43	0.73	6.76	978
KL-14-198	BRX	69.28	70.53	1.25	3.56	102
incl.		70.26	70.53	0.27	14.9	412
and		79.68	80.75	1.07	7.74	156
incl.		79.68	80.3	0.62	13.2	266
KL-14-199	Central Klaza	104.18	104.66	0.48	2.29	116
and		114.2	114.69	0.49	2.65	85
and		193.3	193.82	0.52	3.87	111
and		284.56	285.09	0.53	31.8	481
and		339.3	342.28	2.98	2.56	33.7
incl.		339.3	340.25	0.95	6.23	82
and		360.12	362.57	2.45	11.13	65.9
incl.		360.12	360.37	0.25	37.7	111
and incl.		362.25	362.57	0.32	55.3	406
and		377.15	377.67	0.52	2.3	122
KL-14-200	BRX	60.28	62.43	2.15	1.04	63.1
incl.		60.28	60.58	0.3	2.7	99.9

KL-14-201	Western Klaza	47.05	47.91	0.86	1.9	32.5
KL-14-202	BRX	69.05	69.35	0.3	2.49	80.2
KL-14-203	BRX	67.72	68.38	0.66	1.89	102
KL-14-204	Western Klaza	33.22	33.71	0.49	0.59	62.2
KL-14-205	BRX	76.76	79.11	2.35	1.28	104
incl.		77.51	78.33	0.82	2.49	203
KL-14-206	Western Klaza	83.7	85.71	2.01	2.56	757
KL-14-207	BRX	71.72	80.08	8.36	0.91	80
incl.		71.72	72.43	0.71	3.2	121
and incl.		74.33	74.93	0.6	5.4	110
and incl.		78.38	78.78	0.4	1.92	683
and incl.		79.73	80.08	0.35	1.96	582
KL-14-208	secondary	70.12	71.5	1.38	2.62	2.82
and	Western Klaza	129.38	129.89	0.51	16.45	208
KL-14-209	BRX	63.37	63.83	0.46	3.03	52.3
KL-14-210	Central Klaza	87.74	88.04	0.3	0.84	234
and		278.15	279.5	1.35	5.7	19.6
and		285.28	286.2	0.92	8.52	232
and		303.68	305.75	2.07	2.33	18.3
incl.		303.68	304.17	0.49	8.1	46.9

and		348.65	349.97	1.32	5.65	466
incl.		349.65	349.97	0.32	16.6	1900
KL-14-211	BRX	85.79	86.09	0.3	3.23	25
KL-14-212	Western Klaza	75.96	76.12	0.16	14.2	872
and		89.84	90.21	0.37	2.14	244
KL-14-213	BRX	56.61	57.71	1.1	7.79	128
incl.		57.04	57.71	0.67	12.15	196
KL-14-214	secondary	25.61	26.24	0.63	1.64	145
and	Western Klaza	72.27	73.54	1.27	7.74	427
including		72.27	72.7	0.43	14.35	1160
KL-14-215	BRX	73.03	73.75	0.72	10.2	95.8
KL-14-216	Western Klaza	55.74	56.61	0.87	13.92	495
including		55.74	55.93	0.19	49.5	1320
KL-14-217	BRX	57.7	60	2.3	2.71	10.4
incl.		58	58.3	0.3	17.2	36.3
and		71.39	82	10.61	0.89	29.6
incl.		73.9	74.91	1.01	3.12	76.1
and incl.		78.44	79.92	1.48	1.9	82.6
KL-14-218	Western Klaza	45.46	49.99	4.53	4.46	176
including		45.46	46.24	0.78	15.25	789
and including		49.69	49.99	0.3	25.1	544
KL-14-220	BYG	6	7.08	1.08	0.13	90.5
and		12.35	13.3	0.95	1.64	43.5

and		34.13	35.75	1.62	0.97	18.8
and	Western Klaza	267.63	270.06	2.43	2.82	61.2
including		269.6	270.06	0.46	9.83	305
and		277.19	278.65	1.46	15.38	741
including		277.19	277.72	0.53	33.2	1625
KL-14-221	Western Klaza	95.28	97.44	2.16	2.18	37.9
including		97.14	97.44	0.3	5.04	227
KL-14-222	Central Klaza	206.4	207.07	0.67	3.46	40.3
and		223.17	223.52	0.35	3.98	124
and		275.43	276.9	1.47	5.15	179
and		410.57	412.05	1.48	8.33	201
KL-14-224	BYG	17.89	19.57	1.68	11.22	10.6
and	Western Klaza	251.5	254.53	3.03	0.59	24.5
incl.		251.5	252.07	0.57	1.72	104
KL-14-229	BRX	301.81	302.9	1.09	3.68	38.2
incl.		302.57	302.9	0.33	10.9	94.7
KL-14-231	unnamed	133.25	133.91	0.66	4.31	15.7
KL-14-232	unnamed	48.36	49.69	1.33	2.29	38.8
and	Herc	196.41	196.66	0.25	8.06	175
and		204.14	204.69	0.55	6.75	25.4
KL-14-234	Pearl	97.28	99.85	2.57	2.09	5.68
and		128.79	129.2	0.41	5.97	13.6
and		263.86	264.26	0.4	4.2	15.8
KL-14-235	BRX	236.47	236.9	0.43	12.25	60.3
KL-14-	BRX	502.44	520.94	18.5	2.19	120

238						
incl.		519.57	520.94	1.37	16.29	1435
KL-14-239	unnamed	239.22	240.26	1.04	3.68	20.9
KL-15-240	Eastern BRX	35.05	36.05	1	3.41	2.26
including		46.9	51.6	4.7	1.24	8.54
and including		47.58	48.18	0.6	6.85	14.1
and including		51.18	51.6	0.42	2.11	41.6
and		69.33	69.83	0.5	1.72	30.7
and	Pika	107.4	110.63	3.23	3.22	48.2
including		107.4	109.81	2.41	4.08	63.5
and including		109.21	109.81	0.6	10.95	115
and	Secondary	155.77	157.58	1.81	2.02	0.87
KL-15-241	HW Central Klaza	32.77	33.57	0.8	0.8	61.4
and		134.03	134.76	0.73	2.26	29.5
and		145.33	148.77	3.44	0.66	48.4
including		145.33	145.67	0.34	5.29	214
and		205.69	206.11	0.42	1.7	161
and		222.21	222.94	0.73	1.18	4.66
and		257.96	258.35	0.39	1.89	28.2
and	Central Klaza	279.04	281.2	2.16	4.09	273
including		280.02	281.2	1.18	7.01	492
KL-15-242	Eastern BRX	44.81	47.85	3.04	1.01	85
including		47.23	47.85	0.62	2.46	156
and	Secondary	81.93	82.44	0.51	0.68	168
and	Pika	166.25	168.91	2.66	3.56	30
including		168.41	168.91	0.5	7.57	50.4

and	Secondary	174.82	178.34	3.52	1.55	12.3
including		176.98	177.73	0.75	4.9	28.5
and		190.95	191.5	0.55	3.98	16.2
KL-15-243	HW Central Klaza	20.43	20.73	0.3	0.15	183
and		53.76	54.12	0.36	0.19	814
and		75.62	76.92	1.3	0.1	99.8
and		151.2	152	0.8	1.96	38.5
and		156.61	157.04	0.43	2.11	20.3
and		206.74	207.55	0.81	2.22	512
including		207.04	207.55	0.51	3.1	720
and		336.89	337.45	0.56	1.86	42.6
and	Central Klaza	382.79	384.18	1.39	8.05	272
including		383.44	384.18	0.74	11.2	495
and	FW Central Klaza	454.99	455.29	0.3	2.95	7.54
and		489.18	489.58	0.4	2.73	295
and		492.68	492.98	0.3	3.67	314
KL-15-244	Eastern BRX	71.02	71.96	0.94	3.11	91.2
and	Secondary	99.89	102.23	2.34	0.87	3.92
and	Pika	130.57	135.28	4.71	1.07	7.14
including		132.83	133.3	0.47	7.54	49.3
and		196.84	198.59	1.75	6.01	192
including		196.84	197.68	0.84	11.55	396
KL-15-245	Secondary	105.44	105.9	0.46	2.77	837
and		137.03	137.42	0.39	0.8	259
and	Eastern BRX	151.87	152.98	1.11	1.35	18.1
and		157.37	157.73	0.36	1.05	234

and		161.42	166.93	5.51	2.21	21.4
including		161.42	161.83	0.41	7.45	129
and including		166.42	166.93	0.51	14.85	101
and	Secondary	188.5	188.8	0.3	11.05	8.26
and		193.34	194.88	1.54	1.06	0.81
and		198.01	200.09	2.08	1.29	4.34
and	Pika	205	206.35	1.35	4.06	19
including		205	205.58	0.58	8.47	42.1
and		263.46	263.77	0.31	1.01	43
and		265.09	266.17	1.08	1.67	66.8
including		265.75	266.17	0.42	3.5	168
KL-15-247	Western Klaza HW	5.18	5.76	0.58	5.51	907
and	Western Klaza	267.63	274.4	6.77	0.92	6.35
including		273.13	274.4	1.27	2.86	23.3
and	Western Klaza FW	293.62	293.96	0.34	7.28	75.5
KL-15-248	Secondary	63.69	64.59	0.9	4.27	98.1
and		73.45	76.25	2.8	3.25	40.5
including		75.37	76.25	0.88	8.79	110
and	AEX	97.32	97.74	0.42	26.9	576
and	Secondary	121.8	123.21	1.41	3.33	38.6
including		121.8	122.15	0.35	12.8	45.4
and		148.44	149.25	0.81	1.3	4.52
and		159.93	160.63	0.7	1.61	34
and		165.76	167.18	1.42	1.07	12.2
and		201.83	202.87	1.04	2.15	10.8
and		209.13	209.84	0.71	2.66	21.7
and	Eastern BRX	214.65	216.65	2	4.45	15.3

including		216.35	216.65	0.3	14.1	62.7
and		228.82	234.5	5.68	1.65	6.44
including		228.82	230.3	1.48	1	10.9
and including		233.67	234.5	0.83	9.24	19.4
and	Pika	272.48	273.22	0.74	4.68	5.3
including		272.89	273.22	0.33	8.17	8.29
KL-15-249	Western Klaza	195.36	197.5	2.14	2.84	357
including		195.36	195.76	0.4	12.1	1890
and	Western Klaza FW	235.63	236.41	0.78	2.18	313
KL-15-250	Secondary	19.55	19.89	0.34	11.25	489
and	AEX	25.92	26.24	0.32	2.91	78
and	Secondary	53.95	55.04	1.09	1.89	34.6
including		54.74	55.04	0.3	5.59	99.7
and		112.07	115.03	2.96	1	10
including		112.07	112.53	0.46	2.15	14.2
and including		113.89	114.71	0.82	2.02	24.9
and	Eastern BRX	133.43	137.5	4.07	1.1	18.4
including	Eastern BRX	136.87	137.5	0.63	4.5	51.4
and	Secondary	168.27	168.78	0.51	1.82	6.74
and		186.45	186.82	0.37	5.99	27.7
and	Pika	218.66	219	0.34	1.6	6.89
and		220.8	222.01	1.21	1.16	8.36
and		225.54	227.97	2.43	1.58	5.2
KL-15-251	Western Klaza HW	2.53	3.58	1.05	1.25	63.3
and		43.73	44.09	0.36	1.5	198

and	Western Klaza	211.79	213.35	1.56	3.62	102
including		211.79	212.09	0.3	12.55	524
and		214.9	215.34	0.44	1.34	2.29
and	Western Klaza FW	273.68	274	0.32	1.82	44.6
KL-15-252	AEX	113.53	113.87	0.34	1.37	10.3
and	Secondary	132.71	135.53	2.82	0.98	16
including		134.51	135.53	1.02	2.09	29.1
and		149.36	149.67	0.31	2.77	405
and		158.74	159.04	0.3	2.11	18.8
and		160.17	161.11	0.94	1.08	13.6
and	Eastern BRX	198	198.57	0.57	1.61	39.3
and	Eastern BRX	206.57	207.24	0.67	1.09	44.5
and	Pika	289.95	293.36	3.41	3.08	17.2
including		289.95	290.55	0.6	10.5	26.2
and including		292.96	293.36	0.4	10.4	104
KL-15-253	BYG	38.66	41.61	2.95	2.04	23.4
including		38.66	39.43	0.77	7.74	58.5
and	HW Western Klaza	72.66	74.59	1.93	1.72	27.3
and		221.57	223.05	1.48	2.56	40.5
and	Western Klaza	317.95	318.57	0.62	4.18	147
KL-15-254	HW Western BRX	227.5	227.96	0.46	1.08	45
and	Western BRX	287.23	288.42	1.19	6.67	143

including		287.23	288.12	0.89	8.16	174
and		293.91	296.01	2.1	3.57	83.9
including		295.53	296.01	0.48	13.4	325
KL-15-255	HW Central Klaza	89.29	89.59	0.3	5.85	54.1
and		132.29	132.59	0.3	1.22	11.4
and		163.59	163.89	0.3	2.78	153
and		179.09	179.39	0.3	4.12	49
and		197.88	198.18	0.3	0.25	177
and		204.63	204.93	0.3	1.85	10.9
and		263.24	263.58	0.34	0.56	85.4
and	Central Klaza	292.84	293.18	0.34	2.49	146
and		298.49	298.94	0.45	21.9	176
and	FW Central Klaza	357.44	358.4	0.96	6.9	302
KL-15-256	Western BRX	416.21	419.96	3.75	4.18	159
including		416.21	416.76	0.55	1.36	207
including		419	419.96	0.96	15.36	482
KL-15-257	HW Central Klaza	39.6	40.03	0.43	5.87	85
and		69.72	70.24	0.52	6.14	205
and	Central Klaza	93.15	94.08	0.93	0.67	80.7
and		101	110.47	9.47	1.25	22.4
including		101	102.07	1.07	5.64	81
and including		106.82	107.86	1.04	3.03	67.4
and		113.42	113.82	0.4	1.23	84.9
and		122.25	122.78	0.53	1.62	27.5
and		131.56	131.96	0.4	1.56	23

KL-15-258	Central Klaza	10.34	14.02	3.68	11.28	75.9
including		10.34	10.93	0.59	29.3	121
and including		11.58	11.95	0.37	16.35	50.8
and including		12.75	14.02	1.27	13.5	140
and	FW Central Klaza	43.93	45.91	1.98	5.05	68.7
KL-15-259	FW Central Klaza	51.38	52.34	0.96	5.99	165
KL-15-260	HW Western BRX	114.32	114.62	0.3	1.78	8.64
and	Western BRX	418.9	419.2	0.3	4.25	19.3
and		427.24	427.6	0.36	1.07	1.57
and		429.69	430.15	0.46	1.92	10.6
and		432.83	433.38	0.55	7.01	554
and		438.08	439.88	1.8	3.14	44.3
KL-15-261	Central Klaza	46.8	52.32	5.52	1.35	12.5
and	FW Central Klaza	108.01	112.29	4.28	3.41	19.2
including		109.42	111.5	2.08	5.2	24.7
and		151.41	151.73	0.32	3.01	422
and		156.37	157.05	0.68	5.53	45.9
KL-15-262	HW Central Klaza	25	25.93	0.93	6.16	65.2
including		25.4	25.93	0.53	9.81	105

and	Central Klaza	50.65	50.98	0.33	1.12	13.8
and		67.53	67.84	0.31	2.28	12.2
and	FW Central Klaza	105.14	105.81	0.67	9.84	14.6
and		144.87	145.18	0.31	31.6	100
and		175.42	175.81	0.39	0.57	510
and		198.53	198.83	0.3	1.64	16.4
and		200.47	200.77	0.3	3.06	15.2
KL-15-263	Secondary	105.53	105.86	0.33	6.13	69.9
KL-15-264	HW Western BRX	16.2	16.5	0.3	5.69	2.4
and		124.65	124.97	0.32	1.14	11.8
and	Western BRX	148.08	148.44	0.36	1.44	15
and		158.62	159.67	1.05	18.7	489
KL-15-265	BYG	38.68	41.63	2.95	5.51	141
including		38.68	39.11	0.43	13.95	546
including		40.18	40.86	0.68	8.46	212
and		46.68	48.39	1.71	2.07	107
including		46.98	47.62	0.64	4.44	264
and	HW Central Klaza	80.89	81.46	0.57	1.24	42.3
and		192.41	192.87	0.46	1.45	25.7
and		229.9	230.86	0.96	1.19	51.7
including		229.9	230.47	0.57	1.64	77.1
and	Central Klaza	289.87	290.21	0.34	14.55	981
and		297.31	297.91	0.6	2.67	21.5
and		300.58	301.73	1.15	4.93	102
including		300.58	301.1	0.52	9.86	212

and		325.22	326.08	0.86	4.61	18.6
and	FW Central Klaza	352.91	354.47	1.56	1.88	23.3
and		378.2	378.66	0.46	2.29	64
and		412.72	413.69	0.97	1.12	7.26
and		450.73	453.17	2.44	6.71	0.54
and		480.97	481.36	0.39	1.54	38.7
KL-15-266	Western BRX	155.57	156.23	0.66	5.35	111
KL-15-267	Central BRX	221.37	221.88	0.51	3.07	29.8
and		225.93	227.15	1.22	1	31.4
KL-15-268	Central BRX	108.93	109.33	0.4	1.94	172
and		118.68	119.32	0.64	4.3	355
KL-15-269	Central BRX	199	199.89	0.89	1.1	89.2
and		209.45	209.75	0.3	0.83	63.5
KL-15-270	Central Klaza	29.87	35.96	6.09	9.46	84.9
including		30.9	32.59	1.69	22.14	254
including		33.47	33.88	0.41	10.8	5.56
including		34.75	35.29	0.54	21.4	102
and	FW Central Klaza	38.9	39.28	0.38	1.38	1.76
and		47.96	48.27	0.31	12.3	75.6
and		71.73	72.77	1.04	11.29	120
including		72.04	72.45	0.41	20	285
and		122.79	124.72	1.93	1.28	16
and		125.59	126.51	0.92	3.84	39.1

KL-15-271	Western BRX	368.26	368.56	0.3	3.21	13.4
and		372.52	373.41	0.89	8.52	374
including		372.52	372.93	0.41	15.5	655
and		378.04	380.04	2	14.88	162
including		378.04	378.34	0.3	21.4	252
and including		379.39	380.04	0.65	34.9	369
and		383.8	384.23	0.43	0.7	17.2
KL-15-272	Central Klaza	94.01	94.64	0.63	1.01	6.11
and		97.48	102.84	5.36	1.89	10.9
including		97.48	98.59	1.11	5.09	14.9
and including		102.53	102.84	0.31	14.35	132
and		108.41	108.74	0.33	1.78	8.12
and		139.68	140.23	0.55	1.52	22.6
and	FW Central Klaza	192.14	192.44	0.3	7.28	173
and		220.46	220.76	0.3	2.79	40.6
and		224.06	224.36	0.3	5.76	341
and		243.23	244.26	1.03	10	25.5
KL-15-273	HW Central Klaza	18.16	18.49	0.33	2.03	139
and		39.06	42.83	3.77	1.35	17.7
including		42.44	42.83	0.39	11.2	135
and		68.19	68.6	0.41	1.48	16.8
and		77.93	78.23	0.3	1.62	145
and		82.18	82.51	0.33	2.27	51.3
and		107.74	108.04	0.3	4.2	73.3
and	Central Klaza	144.18	144.5	0.32	3.71	59
and		163.74	165.16	1.42	1.05	40.1
and		171.19	171.95	0.76	1.44	16.7
and		182.31	184	1.69	4.21	61.4

including		183.15	183.47	0.32	17.45	110
and		190.59	191.02	0.43	1.51	5.33
and		195.48	195.78	0.3	3.37	26.2
KL-15-274	Western BRX	367.65	368.91	1.26	9.97	471
including		368.47	368.91	0.44	12.75	727
and		371.96	372.44	0.48	8.15	107
KL-15-275	HW Central Klaza	83.58	84.01	0.43	1.74	64.3
and		152.06	152.38	0.32	7.31	240
and	Central Klaza	259.67	260.04	0.37	1.15	17.7
and		369.58	371.97	2.39	5.29	132
and	FW Central Klaza	424.33	424.68	0.35	4.13	510
KL-15-276	Western BRX	423.39	424.01	0.62	9.6	173
including		423.39	423.7	0.31	18	318
KL-15-277	HW Central Klaza	27.51	27.81	0.3	0.99	104
and		112.1	112.41	0.31	3.83	201
and	Central Klaza	157.83	158.48	0.65	2.18	18
and		181.61	182.08	0.47	1.88	77.5
and		184.74	185.25	0.51	1.92	56.4
and		206.53	207.26	0.73	7.75	36
and	FW Central Klaza	233.42	235.49	2.07	1.65	5.49
and		242.98	243.5	0.52	5.59	77
KL-15-278	Western Klaza	225.91	226.34	0.43	2.69	14

and		239	240.86	1.86	9.12	90.5
including		239	239.39	0.39	29.9	370
and		247.1	247.4	0.3	6.21	2.53
and		248.78	249.87	1.09	1.04	2.45
and		253.18	255.26	2.08	1.26	57.4
KL-15-279	HW Western BRX	371.84	372.56	0.72	2.73	0.72
and	Western BRX	460.68	461.13	0.45	4.76	85
KL-15-280	Secondary	16.89	17.21	0.32	1.63	2.15
and	BYG	78.13	78.44	0.31	6.53	2.56
and		87	88.08	1.08	1.77	73.3
and		92.21	92.7	0.49	2.16	0.64
and		113.73	114.08	0.35	9.84	195
KL-15-281	BYG	7.49	7.84	0.35	1	102
and		45.49	45.73	0.24	2.77	139
and		62.19	62.75	0.56	0.27	110
KL-15-282	BYG	79.52	80.09	0.57	1.62	39.9
and		82.77	87.48	4.71	1.45	49.2
including		85.06	85.39	0.33	7.26	452
KL-15-283	BYG	93.04	95.77	2.73	2.26	14.4
including		95.28	95.77	0.49	9.76	43.7
and	HW Central Klaza	151.57	151.96	0.39	4	35.7
KL-15-284	BYG	63.53	63.84	0.31	1.95	48
KL-15-285	BYG	73.58	73.93	0.35	0.48	98

and		76.6	76.9	0.3	0.16	334
and		92.31	93.39	1.08	3.19	6.94
including		92.31	92.85	0.54	5.81	9.61
and		95.25	95.74	0.49	1.42	7.06
and		97.64	98.9	1.26	1.81	6.37
and		101.96	102.29	0.33	1.47	4.24
and	HW Central Klaza	122.53	124.05	1.52	1.34	19.8
KL-15-286	HW Western BRX	328.81	329.11	0.3	1.01	8.99
and	Western BRX	353.49	355.93	2.44	2.55	30.3
including		355.63	355.93	0.3	8.32	113
KL-15-287	BYG	48.53	49.35	0.82	0.88	83.1
and		78.99	79.44	0.45	1.14	82.4
and	HW Central Klaza	95.4	95.7	0.3	0.49	74.2
and		97.52	97.83	0.31	1.47	17.6
KL-15-288	HW Central Klaza	36.55	37.1	0.55	1.31	8.2
and	Central Klaza	66.68	71.14	4.46	2.12	153
including		66.68	66.99	0.31	10.15	870
and		69.14	69.82	0.68	6.04	575
and	FW Central Klaza	106.9	109.11	2.21	3.8	187
including		108.43	109.11	0.68	7.46	541
and		111.92	112.24	0.32	1.52	21.7

KL-15-291	HW Western BRX	330.29	331.77	1.48	4.88	4.85
and	Western BRX	381.71	386.14	4.43	5.89	75.6
including		381.71	382.44	0.73	31.48	135
and including		385.66	386.14	0.48	1.68	454
and		388.31	389.56	1.25	4.02	150
KL-16-295	Stroshein	60.23	60.82	0.59	23	43
KL-16-300	Stroshein	255.12	265.88	10.76	2.06	5.86
including		257.89	260.98	3.09	5.29	10.97
including		26.047	260.98	0.51	25.9	26.6
KL-16-302	AEX	100.3	100.96	0.66	12.95	62.6
and		109.17	109.8	0.63	7.07	34.9
KL-16-307	BYG	75.29	75.62	0.33	3.63	483
KL-16-310	HW Central Klaza	9.16	13.4	4.24	4.21	45.6
including		11.56	12.71	1.15	13.1	119
and	Central Klaza	50.56	52.35	1.78	2.85	26.8
including		51.85	52.35	0.5	8.6	41.3
KL-16-312	Central Klaza	55.15	57.68	2.53	3.01	72.5
including		55.15	55.97	0.82	6.4	151
and	Central Klaza	82.22	83	0.78	7.18	61.6
KL-16-314	Rex	32.61	34	1.39	5.9	1.74

and		39.75	41.17	1.42	10.55	44.7
and		57	58.48	1.48	7.74	23.9
KL-16-315	HW Central Klaza	9.88	11	1.12	7.64	94
and	FW Central Klaza	156.7	159.1	2.4	3.55	31.7
		158.4	159.1	0.7	11.5	91.6
KL-16-316	HW Central Klaza	8.8	14.79	5.99	1.68	23.1
including		8.8	9.46	0.66	8.65	76.7
and	FW Central Klaza	157.73	158.77	1.04	6.37	26.5
KL-16-317	HW Central Klaza	17.72	22.04	4.32	17.01	121
including		17.72	19.34	1.62	12.45	41.5
and including		20.65	22.04	1.39	38	325
KL-16-318	HW Central Klaza	16.68	24.77	8.09	3.48	88.4
including		17.75	18.59	0.84	10.35	196
and including		24.21	24.77	0.56	33.2	957
KL-16-323	Central Klaza	61.72	63.62	1.9	4.88	51.4
including		61.72	62.24	0.52	15.25	115
and	FW Central Klaza	186.46	189.22	2.76	5.98	40.9
including		186.46	186.88	0.42	18.9	197

and including		188.71	189.22	0.51	16.6	55
KL-16-325	FW Central Klaza	128.58	130.09	1.51	6.36	299
KL-16-327	Eastern Klaza	48.84	51.56	2.72	2.47	6.76
including		48.84	49.5	0.66	8.16	25.3
and		86.34	87	0.66	6	162
KL-16-329	Eastern Klaza	72.49	74.27	1.78	5.41	129
KL-16-336	Stroshein	109.89	110.45	0.56	3.23	248
KL-16-337	Central Klaza	92	96.4	4.4	4.01	36
and	FW Central Klaza	164.59	167.05	2.46	10.25	52.9
KL-16-338	Central Klaza	64.12	67.57	3.45	6.61	74.7
including		64.83	65.28	0.45	31.6	164
including		66.93	67.57	0.64	8.51	222
KL-17-339	Central Klaza	18.25	18.7	0.45	1.73	9.18
and		37.98	41.76	3.78	3.79	48.2
incl.		37.98	38.22	0.24	12.75	223
and incl.		41	41.76	0.76	14.75	167
KL-17-341	Central Klaza	25.22	26.05	0.83	36.9	1280
and		35	38.75	3.75	1.79	21.2
and		43.3	43.7	0.4	11.55	305

and		71.01	71.98	0.97	0.24	140
and		73.06	74.93	1.87	0.8	121
KL-17-342	Central Klaza	26.19	26.76	0.57	9.99	63
and		62.77	63.36	0.59	1.5	283
and		66.36	67.15	0.79	1.26	13.3
and		83.5	90.3	6.8	1.41	8.49
and		98.7	103.17	4.47	3.64	89.7
incl.		102.54	103.17	0.63	19.5	554
KL-17-343	Central Klaza	88.4	89.03	0.63	4.61	87.5
and		98.31	103	4.69	4.13	205.1
incl.		101.84	103	1.16	12.65	419
KL-17-344	Central Klaza	6.2	7	0.8	7.37	112
and		17.79	18.74	0.95	4.49	57
and		39.2	48.18	8.98	2.09	49.9
incl.		41.43	42.56	1.13	14.1	331
KL-17-345	Central Klaza	8.23	9.48	1.25	1.84	5.36
and		25.55	31	5.45	1.86	24
and		52.67	53.25	0.58	2.36	46.4
KL-17-346	Central Klaza	26.61	29.57	2.96	4.78	22.7
and		40.34	40.68	0.34	6.26	32.6
and		45.19	45.75	0.56	1.1	71.9
and		59.55	61.36	1.81	2.08	12.9
and		66.11	67.27	1.16	1.9	5.21

and		73.46	74.74	1.28	1.78	13.2
and		84.78	86.34	1.56	2.83	41.6
and		110.88	111.65	0.77	1.03	8.1
KL-17-348	Central Klaza	20.42	21.15	0.73	1.09	79.2
and		33.62	35	1.38	1.29	12.8
and		44.32	45.1	0.78	2.29	41
KL-17-349	Central Klaza	26.52	28	1.48	1.18	59.2
and		61.17	62.53	1.36	3.64	109
and		73.25	73.55	0.3	11	203
KL-17-350	Central Klaza	23.66	24.77	1.11	4.28	305
and		56.33	57.1	0.77	1.15	37.7
and		62.38	63.62	1.24	1.24	47.5
and		73.25	74.52	1.27	2.43	91.1
KL-17-351	Central Klaza	37.5	39.53	2.03	1.54	91.6
and		43.56	44.08	0.52	3.7	86.5
KL-17-352	Central Klaza	25.26	25.94	0.68	1.47	31
and		33.39	34.73	1.34	5.2	32.6
and		45.47	45.8	0.33	3.78	8
and		85.42	86.29	0.87	1.87	125
and		114.3	114.63	0.33	21.2	244
and		127.96	128.41	0.45	2.82	14.4
KL-17-353	Central Klaza	9.35	11	1.65	6.1	27.8
and		43.29	44.81	1.52	2.8	87
and		51.63	52.47	0.84	1.03	10
and		92.86	93.43	0.57	5.56	412
and		136.69	137.73	1.04	1.26	3

KL-17-354	Central Klaza	63.81	64.56	0.75	1.8	16.1
and		77	77.85	0.85	1.51	8.33
and		94.85	95.59	0.74	1.01	20.6
and		137.55	142.76	5.21	1.08	11.9
incl.		137.55	139.16	1.61	2.19	25.8
incl.		142.34	142.76	0.42	4.66	40.5
KL-17-355	Central Klaza	39.16	39.65	0.49	14.35	93.5
and		88	88.34	0.34	3.44	142
and		121.14	122.54	1.4	3.03	31
incl.		121.14	121.64	0.5	3.48	59.1
and incl.		122.17	122.54	0.37	6.75	35.5
and		140.3	140.69	0.39	6.17	77.5
KL-17-356	Central Klaza	12.85	14.57	1.72	4.67	48.6
and		23.65	30.63	6.98	3	32.7
incl.		23.65	27.67	4.02	4.81	54.3
and		70.13	71.4	1.27	3.34	84.9
and		150.92	152.09	1.17	1.07	34.1
and		171.85	172.39	0.54	2.16	42
KL-17-357	Pika	81.05	81.53	0.48	1.38	34.9
and		90.09	90.8	0.71	1.18	14.4
KL-17-358	Pika	127	128.21	1.21	7.24	18.5
and		135.03	135.82	0.79	4.52	15.2
and		148.23	148.53	0.3	1.2	3.91
KL-17-359	Central Klaza	49.2	50.57	1.37	4.58	119
and		76.15	76.83	0.68	1.23	42.3
and		88.37	89	0.63	2.04	51.5
KL-17-360	Central Klaza	11.8	17.72	5.92	1.86	11.4

incl.		11.8	12.2	0.4	17.45	132
and		30	44.04	14.04	1.25	8.74
incl.		30	30.53	0.53	9.18	34.2
and		107.97	108.28	0.31	2.76	33.1
and		144.17	144.48	0.31	3.19	164
KL-17-361	Pika	77.09	77.49	0.4	6.76	57.8
and		92.05	92.5	0.45	2.21	20.4
KL-17-362	Pika	121	123.22	2.22	6.57	99
and		156.57	157.03	0.46	8.67	28.2
and		180.54	181.59	1.05	3.44	59
KL-17-363	BYG	11.7	12.28	0.58	5.85	173
and		43.07	43.68	0.61	3.82	10.5
and	Central Klaza	55.7	57.4	1.7	3.03	27.9
and		56.84	57.4	0.56	6.98	63.5
and		72.73	73.32	0.59	1.81	10.4
and		92.37	92.97	0.6	1.84	21.2
and		132.2	133.75	1.55	1.95	7.24
and		142.64	143.06	0.42	3.38	70.8
and		190.77	191.45	0.68	4.18	158
KL-17-364	AEX	29.28	32	2.72	1	56.9
and	Eastern BRX	107	108	1	1.13	28.6
and		129	129.61	0.61	5.39	11.5
and		149.53	150.04	0.51	2.4	161
and		176.79	177.5	0.71	2.78	26.6
and	Pika	196.81	197.41	0.6	1.09	53.5
and		245.6	246.03	0.43	2.05	11.2
KL-17-365	Central Klaza	40	40.47	0.47	8.71	25.8
and		51.7	53.28	1.58	7.76	16.2

and		105.37	114.75	9.38	4.08	44.2
incl.		112.82	114.75	1.93	14.14	116
and		124.27	124.81	0.54	4.73	35.5
KL-17-366	Central Klaza	47.6	50.5	2.9	7.57	65.6
incl.		47.6	48.28	0.68	20.4	122
and		69.09	69.45	0.36	21.9	874
and		114.38	114.91	0.53	2.7	168
and		127.53	128.06	0.53	1.07	11
and		145.22	145.74	0.52	11.05	256
and		157.78	158.1	0.32	9.97	441
and		166.8	167.55	0.75	1.19	33.5
and		209.24	210.42	1.18	12.35	81.1
incl.		209.24	209.63	0.39	21.5	32.7
KL-17-367	Eastern BRX	92.29	92.98	0.69	4.34	235
and		96.93	97.26	0.33	1.52	457
and		104.15	104.84	0.69	5.34	109
and		142.36	142.86	0.5	3.24	27.4
and		167.56	168	0.44	5.05	220
and		171.98	172.28	0.3	9.59	594
KL-17-368	Central Klaza	23.24	25.72	2.48	3.56	85.6
incl.		24.86	25.72	0.86	8.22	241
and		39	42	3	5.16	16.7
and		102	102.51	0.51	2.04	24.6
and		143.08	143.68	0.6	6.15	50.9
and		181.32	184.63	3.31	1.43	28.6
incl.		184.27	184.63	0.36	10.6	209
and		193.92	194.47	0.55	1.2	7.08
KL-17-369	Eastern BRX	55.8	56.25	0.45	1.4	408
and		57.34	60.33	2.99	1.06	38.5
and		63.76	65.28	1.52	3.81	197
and		123.59	124.59	1	1.32	188

and		129.11	131.5	2.39	1.94	1.89
KL-17-370	Central Klaza	13.4	20.34	6.94	4.18	30.1
incl.		13.4	13.7	0.3	27.1	105
incl.		16.16	17.25	1.09	15.02	147
incl.		20.03	20.34	0.31	12.6	21.5
and		25.66	28.2	2.54	3.94	7.64
incl.		27.83	28.2	0.37	19.9	31.2
and		78.94	79.44	0.5	1.23	8.15
and	Central Klaza	101.07	101.43	0.36	1.54	34.1
and		115.84	117.72	1.88	1.37	29.6
and		147.18	148.44	1.26	1.15	41.5
and		159.85	160.44	0.59	10.05	86.6
KL-17-371	Central Klaza	87	87.67	0.67	1.46	37.4
and	Central Klaza	106.21	106.7	0.49	3.94	236
and	Central Klaza	127.53	129	1.47	1.31	46.7
incl.	Central Klaza	127.53	127.96	0.43	3.12	115
and	Central Klaza	130.32	130.71	0.39	1.44	17.6
KL-17-372	AEX	45.88	51.69	5.81	4.41	23
incl.		49	50.16	1.16	17.1	77.7
and	Eastern BRX	83.11	84.11	1	1	0.77
and		121.32	121.76	0.44	12.8	151
and		182	182.52	0.52	5.51	60.2
and	Pika	223.44	227.49	4.05	1.13	32.4
incl.		223.44	224	0.56	3.72	51.2
incl.		226.66	227.49	0.83	2.24	102
and		242.1	242.81	0.71	1.27	1.58

KL-17-373	Central Klaza	8	9.11	1.11	1.68	8.07
and		14.93	16.13	1.2	12.09	43.7
incl.		15.69	16.13	0.44	30.4	111
and		36.93	37.92	0.99	2.71	19.6
and		45.95	46.25	0.3	8.71	52.6
and		112.21	113.36	1.15	1.43	17.3
and		131.42	132.46	1.04	2.33	18.4
and		155.96	157.45	1.49	3.47	15.6
KL-17-374	Central Klaza	33.29	34.2	0.91	2.7	13.9
and		51.97	56.28	4.31	3.15	10.1
incl.		52.77	53.21	0.44	8.44	37.2
incl.		55.02	56.28	1.26	6.8	8.39
and		96.12	96.62	0.5	2.44	8.3
and		159.39	160.05	0.66	1.21	14.9
and		169.93	171.2	1.27	3.38	11.5
and		172.82	173.65	0.83	1.31	12.8
KL-17-375	Eastern BRX	18.23	19	0.77	1.42	66.8
and		70.41	70.85	0.44	2.66	294
and		126.88	127.35	0.47	17.2	21.6
and		134.7	135.12	0.42	1.78	245
and		149.16	149.66	0.5	1.66	6
and	Pika	166.03	166.48	0.45	2.6	103
and		178.2	178.69	0.49	13.2	23
KL-17-376	Central Klaza	5.61	6.03	0.42	2.99	39.3
and		25.66	26.16	0.5	2.65	31
and		77.71	80.63	2.92	7	7.12
incl.		78.78	79.37	0.59	26.7	12.1
and		90.62	91.64	1.02	1.13	4.08
and		99.33	99.94	0.61	182	231
and		112.57	113.12	0.55	1.51	10.8
and		146.92	147.55	0.63	4.04	28.5
and		149.82	150.84	1.02	2.14	7.78

and		172.9	173.88	0.98	1.58	57.2
and		189.43	191.11	1.68	1.75	3.94
and		205.17	206.17	1	8.28	101
and		217.22	217.76	0.54	1.3	8.01
and	Central BRX	152.02	152.36	0.34	2.42	12
and		155.08	156.41	1.33	1.59	30.5
KL-17-378	BYG	34.19	35.66	1.47	2.96	25.2
and	Central Klaza	120	120.55	0.32	2.29	3.46
and		132.25	132.86	0.61	1.18	7.91
and		141.26	142.04	0.78	1.08	5.07
and		145.09	145.76	0.67	5.79	5.26
and		151.74	154.5	2.76	4.5	96
incl.		153.66	154.5	0.84	12.15	231
KL-17-379	Dickson	41.6	41.97	0.37	1.91	15.3
and		55.59	56.57	0.98	3.17	40.4
and	BYG	53.75	54.05	0.3	1.79	33.5
and		68.91	69.31	0.4	12.15	277
and	Central Klaza	190.64	191	0.36	8.34	68.1
and		197.55	201.87	4.32	4.1	46.3
and		225.11	225.44	0.33	4.82	185
and		230.89	231.2	0.31	5.09	103
and		238.4	239.88	1.48	5.21	92
incl.		239.48	239.88	0.4	16.6	321
and		245.97	246.6	0.63	5.92	89.9
KL-17-381	Central Klaza	100.48	101.55	1.07	1.42	16.5
and		136.25	136.99	0.74	1.28	6.1
and		147.89	149.29	1.4	6.55	42.3
incl.		148.77	149.29	0.52	16.3	63.1
and		170.3	170.8	0.5	2.19	22.8
and		199.55	199.97	0.42	2.14	138

KL-17-382	Dickson	52.16	52.59	0.43	0.58	345
and		146.89	147.73	0.84	2.09	5.36
and		301.64	302.26	0.62	4.89	38.6
and		322.83	324.88	2.05	2.73	3.05
KL-17-383	Central Klaza	24.53	25.58	1.05	13.38	397
incl.		24.53	25	0.47	22.9	601
and		43.8	44.81	1.01	2.56	12.7
and		93.3	93.8	0.5	1.04	18.8
and		124.26	125.56	1.3	4.07	31.6
incl.		125.26	125.56	0.3	14.3	107
and		133.92	134.52	0.6	5.03	8.63
KL-17-384	Central Klaza	65.76	71.36	5.6	3.09	7.01
incl.		65.76	66.54	0.78	13.2	16.9
and		82.35	82.73	0.38	6.79	54.7
and		95.16	96.65	1.49	5.34	47.6
incl.		96.1	96.65	0.55	12	80.1
and		131.4	132.88	1.48	3.55	23.2
and		142.15	142.73	0.58	1.66	28.4
KL-17-385	Central Klaza	17.95	19	1.05	12.2	57.5
and		26.1	27	0.9	12.6	166
and		38.85	41.2	2.35	4.18	15.9
and		60.66	62.27	1.61	5.22	179
and		81.52	82.2	0.68	7.22	64.6
and		88.9	89.62	0.72	2.59	57.3
KL-17-386	Dickson	251.41	251.74	0.33	1.1	874
and		257.58	258.08	0.5	1.56	444
KL-17-387	Central Klaza	65.06	67.35	2.29	2.26	37.3

and		80.23	80.57	0.34	2.06	30.6
and		86.38	86.86	0.48	2.02	19.4
and		105.97	107.07	1.1	5	111
incl.		105.97	106.37	0.4	12.2	292
and		129.52	130.15	0.63	2.06	71.1
and		134.65	135.08	0.43	4.76	95.7
and		157.5	158.09	0.59	4.5	115
KL-17-388	Central Klaza	51.68	55.42	3.74	10.94	81.7
including		53.48	53.95	0.47	64.8	250
and		102.46	109.55	7.09	2.17	76.3
including		102.66	103.07	0.41	18.8	941
including		109	109.55	0.55	12.25	222
and		118.57	120	1.43	1.51	12.6
and		144.46	145.39	0.93	3.23	14.2
KL-17-389	Central Klaza	77.33	77.83	0.5	1.62	25.8
and		94.81	95.27	0.46	2.46	49
and		144	144.9	0.9	1.57	21.4
and		150.61	151.49	0.88	2.12	28.8
and		154.27	155.77	1.5	1.34	43.4
and		166	173.41	7.41	3.77	24.7
including		168.71	172.4	3.69	6.84	44.5
and		176.35	177	0.65	1.49	14.6
and		187.45	189.84	2.39	1.61	8.81
including		187.45	187.84	0.39	8.39	42.4
and		193	198	5	1.63	11.1
including		194.65	195.28	0.63	9.6	51.5
KL-17-391	Central BRX	174.94	176.41	1.47	1.86	150
including		176	176.41	0.41	4.57	481
KL-17-392	Central Klaza	58	60.2	2.2	1.27	14.8
and		82.52	83.13	0.61	1.46	106
and		86.64	87.08	0.44	1.49	28.2

and		99.47	101.1	1.63	2.26	32.4
and		157.92	158.74	0.82	1.94	21.2
and		166.8	168.16	1.36	21.13	116
and		177.1	179.05	1.95	2.73	28.3
and		193.32	194.14	0.82	1.26	37.5
KL-17-393	Central BRX	114	114.91	0.91	2	89.1
KL-17-394	Central BRX	116.31	117	0.69	0.52	44.1
KL-17-395	New Discovery	61.76	63.48	1.72	2.21	7.71
and		112.49	113.06	0.57	1.09	2.5
and		121.06	121.38	0.32	1.31	9.3
and		186.82	187.59	0.77	1.08	10.3
KL-17-396	Western BRX	109.12	116	6.88	13.1	78.7
including		110.45	112.77	2.32	30.8	86.8
including		110.45	110.95	0.5	64.1	177
KL-17-397	Western BRX	67.9	69	1.1	23.9	222
KL-17-398	Western BRX	119.62	126.16	6.54	17.8	257
including		119.62	120.11	0.49	57.9	1055
including		122.62	126.16	3.54	24.35	319
including		124	124.52	0.52	62.6	550
KL-17-399	Bonus	8.09	9.18	1.09	1.7	14.15
and	Western BRX	74.91	75.49	0.58	1.28	26.8
KL-17-400	Bonus	27.14	29.57	2.43	1.32	0.77

and		34.34	35.48	1.14	1.82	8.8
and	Western BRX	100.11	102.64	2.53	9.01	150
including		100.11	100.71	0.6	28.9	416
KL-17-401	Bonus	54.06	57	2.94	3.49	37.1
including		56.56	57	0.44	18.55	189
and	Western BRX	108.63	111.26	2.63	94.09	545
including		109.81	110.72	0.91	196	608
KL-17-402	Western BRX	107.96	108.29	0.33	11.6	105
and		112.86	114.6	1.74	4.44	5.75
including		114.04	114.6	0.56	12.4	14.15
and		118.78	119.23	0.45	14.65	105
KL-17-403	New Discovery	57.95	60.04	2.09	1.81	109
and		174.59	184.71	10.12	1.16	18.7
including		174.59	175.35	0.76	6.91	80.2
including		184.14	184.71	0.57	6.75	75.1
and		231.03	231.49	0.46	12.6	312
and		245.36	246.22	0.86	9.43	180
and		275.65	276.93	1.28	1.08	46.6
and		302.83	303.77	0.94	5.63	91.4
and		312.06	312.46	0.4	1.13	15.2
KL-17-404	Bonus	65.34	66.02	0.68	9.23	88.1
and	Western BRX	113.82	115.56	1.74	23.7	652
KL-17-405	Bonus	154.66	155.12	0.46	6.42	97.6
and	Western BRX	192.23	192.75	0.52	29.9	265

KL-17-406	New Discovery	50.2	50.72	0.52	1.08	9.3
and		192	192.92	0.92	2.18	80.7
and		268.51	269	0.49	6.37	5
KL-17-407	Western BRX	174.91	177.18	2.27	5.98	82.3
including		175.58	176.15	0.57	12.7	93.1
and		187.1	189.28	2.18	16	271
including		188.1	188.82	0.72	35	457
KL-17-408	Western Klaza	52.27	55.53	3.26	2.3	172
including		52.27	52.6	0.33	17.6	1520
KL-17-409	Bonus	149.56	150	0.44	2.09	40.9
and	Western BRX	186.84	194.2	7.36	3.11	150
including		190.77	192.4	1.63	5.85	301
KL-17-411	Western Klaza	49.37	50.06	0.69	2.98	3.4
KL-17-412	Western Klaza	23.74	26	2.26	8.54	674
and		29	29.41	0.41	1.83	131
KL-17-413	Western BRX	135.33	136.07	0.74	1.06	23.6
and		139.29	143.68	4.39	4.9	76.1
including		139.29	140.76	1.47	13.81	113
KL-17-414	Western Klaza	64.34	65.35	1.01	6.18	441
including		65.04	65.35	0.31	15.45	1160
KL-17-415	Western Klaza	30	31.3	1.3	2.87	156
including		31	31.3	0.3	8.16	676

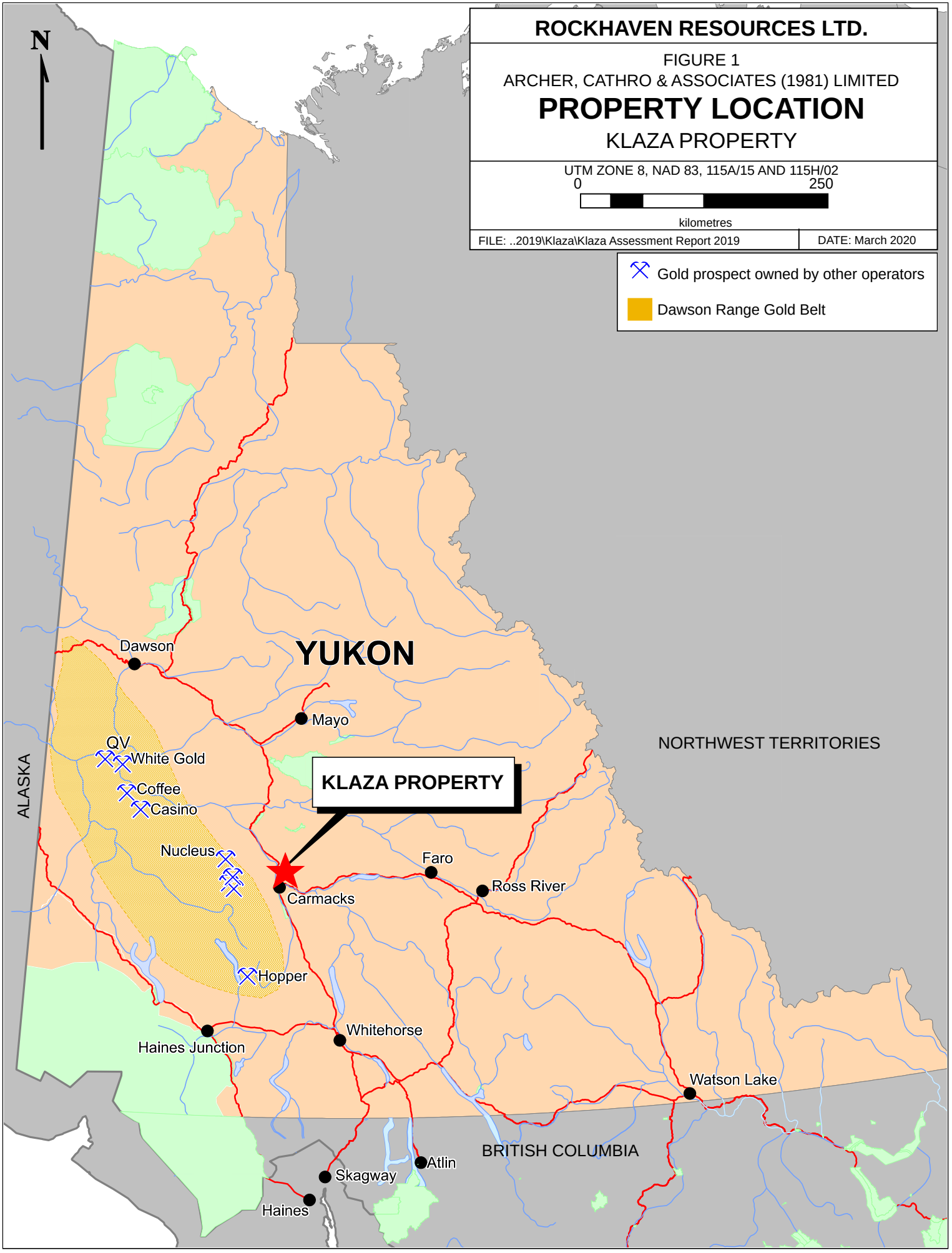
and		36.25	36.6	0.35	6.22	507
KL-17-416	Bonus	71.88	72.24	0.36	1.45	131
and	Western BRX	82.05	84.43	2.38	29.7	158
including		82.05	83.24	1.19	56.18	290
KL-17-417	Western BYG	7.96	8.29	0.33	2.09	39.4
and	Western Klaza	124.51	125.46	0.95	1.65	54.4
KL-17-419	Western BYG	21.69	22.3	0.61	1.32	74.5
and	Western Klaza	115.86	118.55	2.69	8.91	452
including		117.54	118.55	1.01	22.55	927
KL-17-421	Central Klaza	59.43	60.12	0.69	1.18	5.98
and		102.33	103	0.67	3	159
and		139.81	140.69	0.88	1.85	648
and		186.8	191.85	5.05	1.43	24
KL-17-422	Western BRX	50.06	51.15	1.09	37.21	402
and		60.33	61.04	0.71	9.94	762
KL-17-423	Western BRX	30.01	30.67	0.66	6.27	59.8
and		40.03	40.68	0.65	1.25	3.58
KL-17-424	Western BRX	46.8	47.57	0.77	2.82	15.6
KL-17-425	Central Klaza	44.6	46.65	2.05	2.19	45
and		50.12	50.76	0.64	2.02	20.4

KL-17-426	Central BRX	65.7	67.05	1.35	3.13	67.2
KL-17-427	Central Klaza	47.42	48.36	0.94	1.03	2.36
and		55.33	64.85	9.52	1.2	22.1
including		58.85	59.47	0.62	13.8	304
and		98.04	99.18	1.14	2.9	7.24
and		116.55	117.03	0.48	5.51	483
KL-17-428	Central BRX	4.15	4.63	0.48	1.87	38.2
and		55.44	57.6	2.16	7.76	641
including		56.5	56.91	0.41	25.7	1600
and		65.82	66.31	0.49	1.34	83
KL-17-429	Central BRX	50.56	51.66	1.1	3.69	285
including		50.56	50.9	0.34	10.2	372
KL-17-430	Central Klaza	25.42	27.27	1.85	1.06	16.5
and		38.48	39.14	0.66	2.02	86.1
and		40.15	40.73	0.58	1.27	6.35
KL-17-431	Central BRX	36.34	38.71	2.37	2.52	18.15
KL-17-427	Central Klaza	47.42	48.36	0.94	1.03	2.36
and		55.33	64.85	9.52	1.2	22.1
including		58.85	59.47	0.62	13.8	304
and		98.04	99.18	1.14	2.9	7.24
and		116.55	117.03	0.48	5.51	483

KL-17-428	Central BRX	4.15	4.63	0.48	1.87	38.2
and		55.44	57.6	2.16	7.76	641
including		56.5	56.91	0.41	25.7	1600
and		65.82	66.31	0.49	1.34	83
KL-17-429	Central BRX	50.56	51.66	1.1	3.69	285
including		50.56	50.9	0.34	10.2	372
KL-17-430	Central Klaza	25.42	27.27	1.85	1.06	16.5
and		38.48	39.14	0.66	2.02	86.1
and		40.15	40.73	0.58	1.27	6.35
KL-17-431	Central BRX	36.34	38.71	2.37	2.52	18.15
KL-19-435	Eastern Zones	70.46	70.96	0.50	11.50	90.40
KL-19-436	Central Pearl	228.17	229.65	1.48	1.57	238.0
KL-19-439	Central Pearl	266.63	268.23	1.60	5.28	1054.0
KL-19-441	Eastern Zones	63.29	65.57	2.28	3.07	13.7
KL-19-447	Eastern Zones	49.10	51.15	2.05	2.52	111.0

KL-19-448	Eastern Zones	117.65	137.19	19.54	0.58	9.2
KL-19-449	Central Pearl	125.20	126.10	0.90	7.11	58.7
and		133.84	134.30	0.46	3.72	1020.0
KL-19-450	Eastern Zones	73.10	102.50	29.40	0.67	8.7
KL-19-451	Eastern Zones	115.28	118.00	2.72	3.43	20.4
KL-19-454	Eastern Zones	99.85	100.40	0.55	15.90	74.6
KL-19-455	Western Pearl	260.93	261.24	0.31	7.97	834.0
KL-19-459	Western Pearl	181.00	181.91	0.91	6.52	235.0
KL-19-460	Eastern Zones	28.31	29.00	0.69	19.40	240.0
KL-19-466	Eastern Zones	6.91	8.00	1.09	8.50	10.6
KL-19-465	Eastern Chevron	74.63	81.68	7.05	1.53	10.2
incl.		74.63	74.93	0.30	11.40	48.2
incl.		80.35	81.68	1.33	4.15	23.1

* Represents the sample length. True widths are estimated to be approximately 80-90% of the interval.


ROCKHAVEN RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
250
kilometres
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020
Gold prospect owned by other operators
Dawson Range Gold Belt
N
YUKON
NORTHWEST TERRITORIES
BRITISH COLUMBIA
ALASKA
KLAZA PROPERTY
Dawson
Mayo
QV
White Gold
Coffee
Casino
Nucleus
Hopper
Carmacks
Faro
Ross River
Whitehorse
Haines Junction
Watson Lake
Atlin
Skagway
Haines

ROCKHAVEN RESOURCES LTD.

FIGURE 2A

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS – NW

KLAZA PROPERTY

0 5,000 meters

UTM ZONE 8, NAD 83

FILE: 2019/Klaza/Klaza Assesment Report 2019

DATE: March 2020

T.N.

2°1.13'

18°55'

Grid north

Magnetic north

Annual change
22.4'/year W

0 10,000 metres

365,000

370,000

375,000

380,000

6,900,000

6,895,000

6,890,000

ROCKHAVEN RESOURCES LTD.

FIGURE 2B

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS – SE

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 5,000

meters

FILE: 2019/Klaza/Klaza Assesment Report 2019

DATE: March 2020

T.N.

2°1.13'

18°55'

Grid north

Magnetic north

Annual change
22.4'/year W

0 10,000

metres

SEE INSET

6,890,000

6,885,000

6,880,000

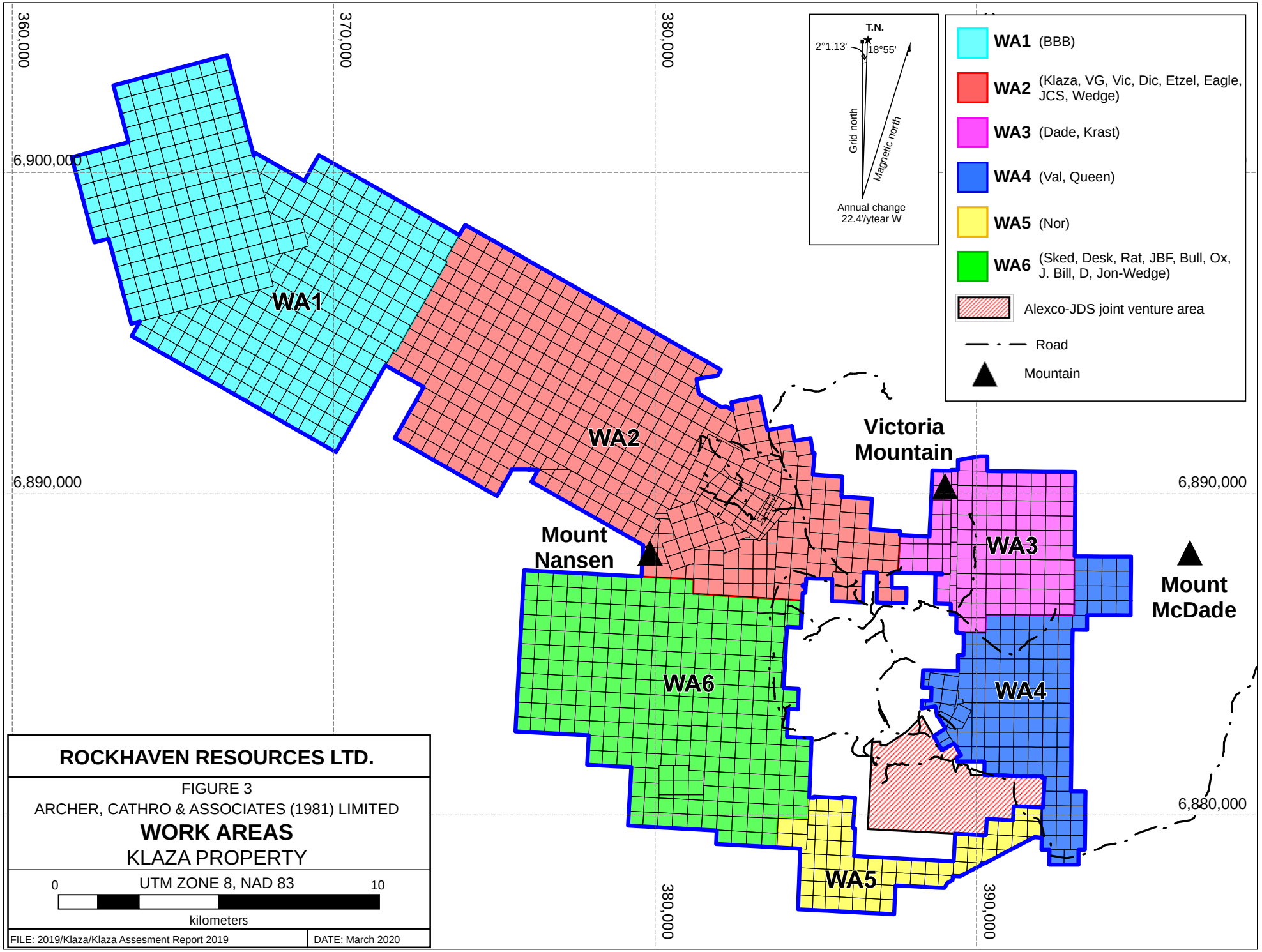
375,000

380,000

385,000

390,000

395,000



ROCKHAVEN RESOURCES LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WORK AREAS

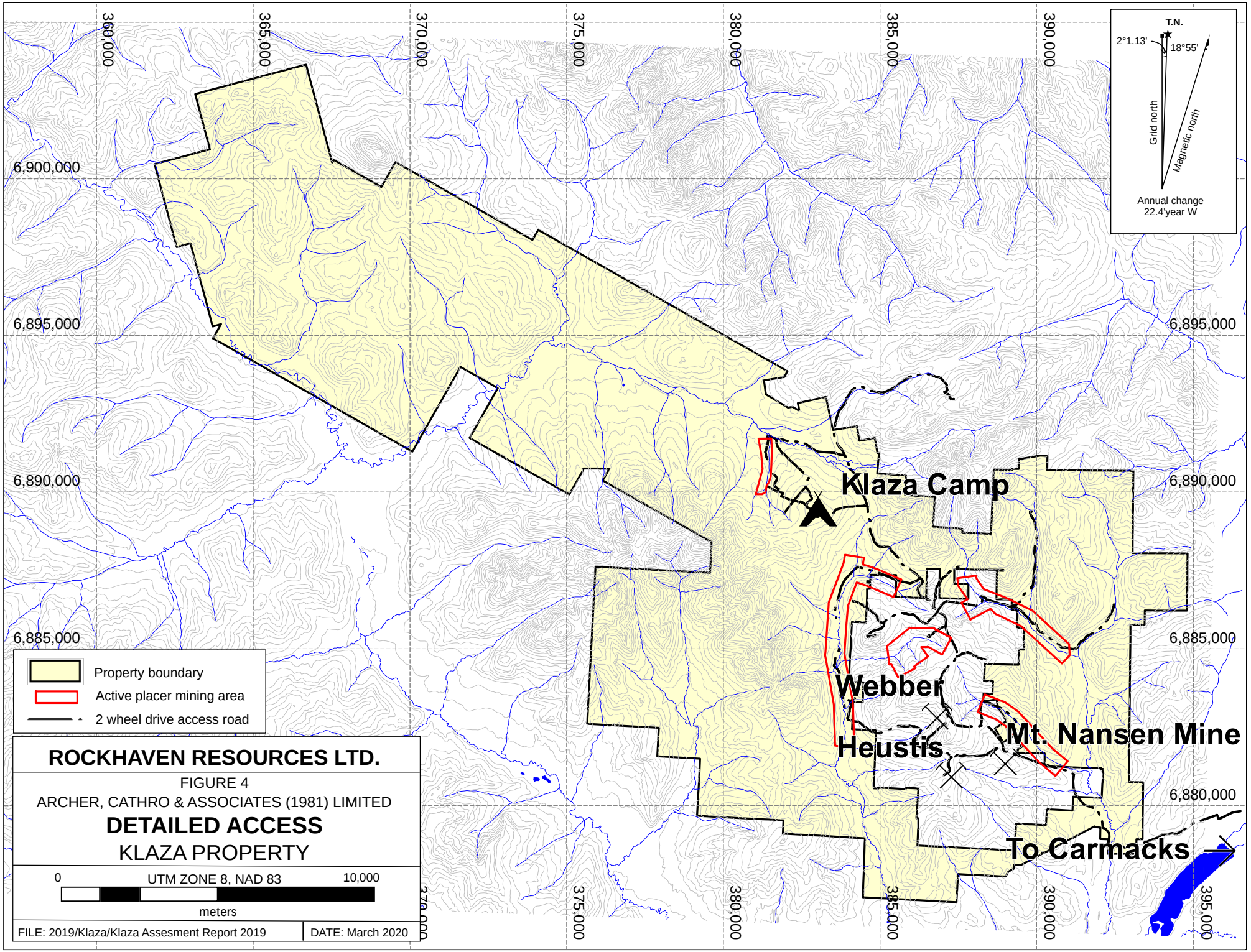
KLAZA PROPERTY

UTM ZONE 8, NAD 83

0 10

kilometers

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020


360,000
365,000
370,000
375,000
380,000
385,000
390,000
395,000
6,900,000
6,895,000
6,890,000
6,885,000
6,880,000
T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change
22.4'year W
Klaza Camp
Webber
Heustis
Mt. Nansen Mine
To Carmacks
Property boundary
Active placer mining area
2 wheel drive access road
ROCKHAVEN RESOURCES LTD.
FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DETAILED ACCESS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
10,000
meters
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020

ROCKHAVEN RESOURCES LTD.

FIGURE 5

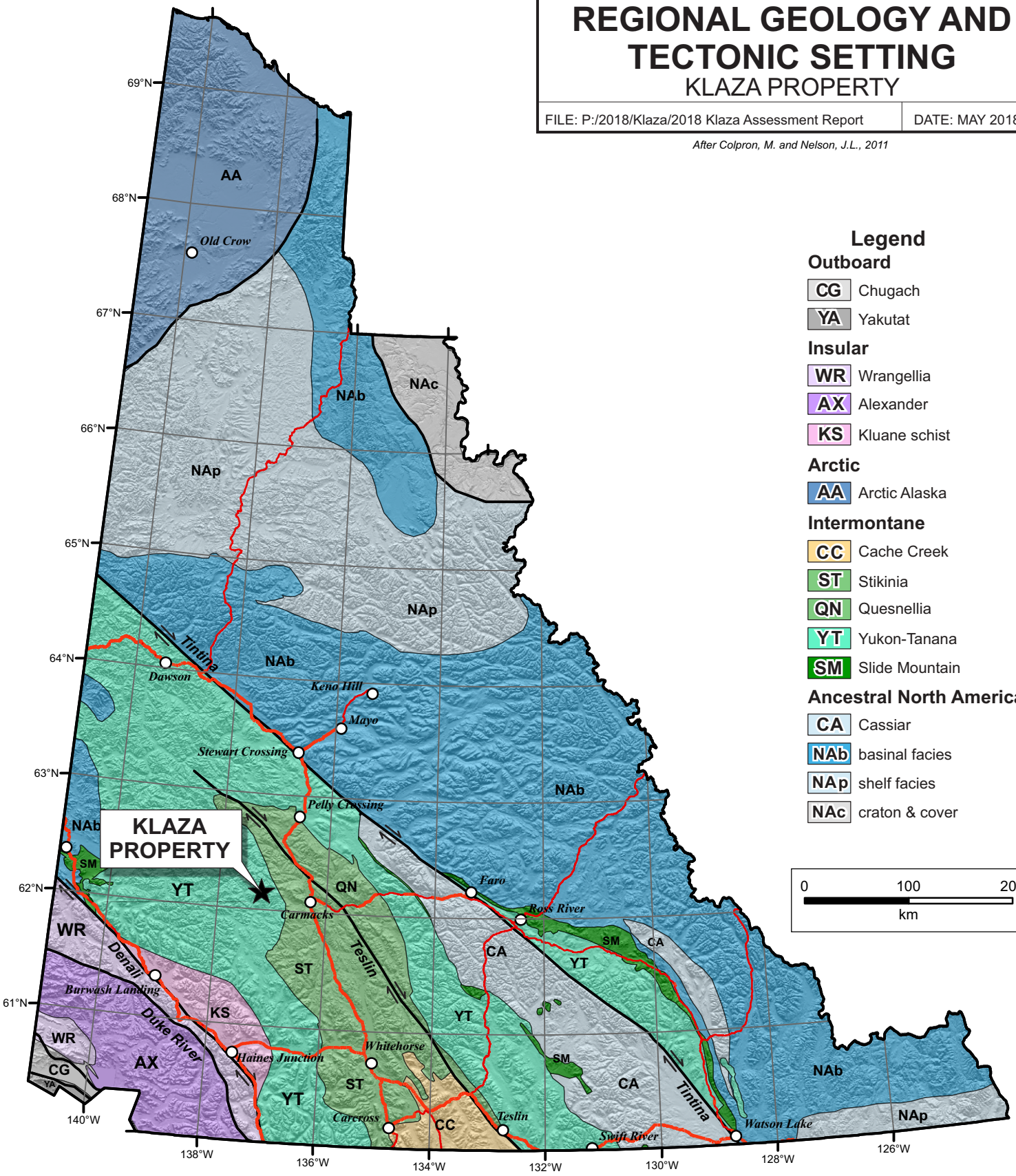
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

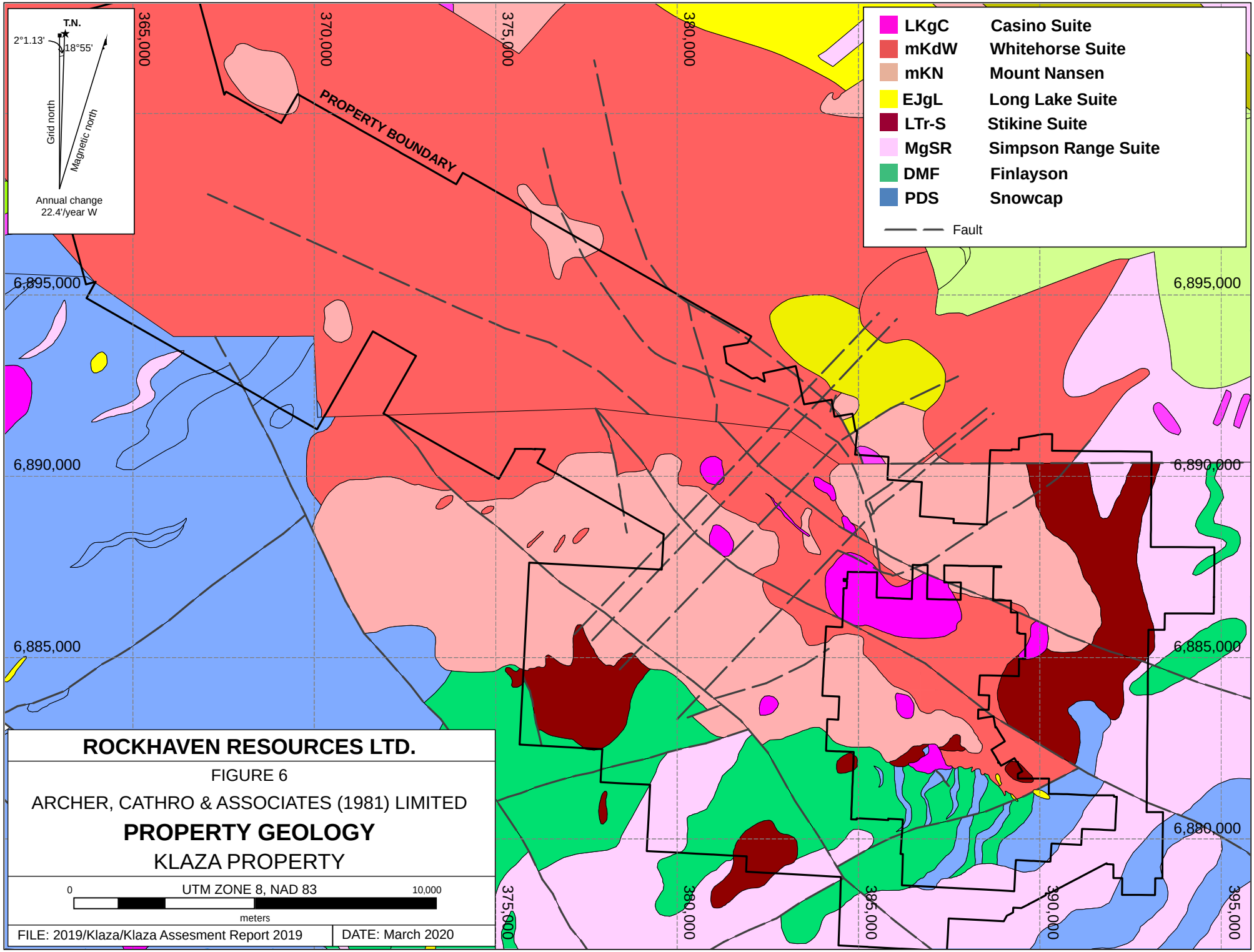
REGIONAL GEOLOGY AND TECTONIC SETTING

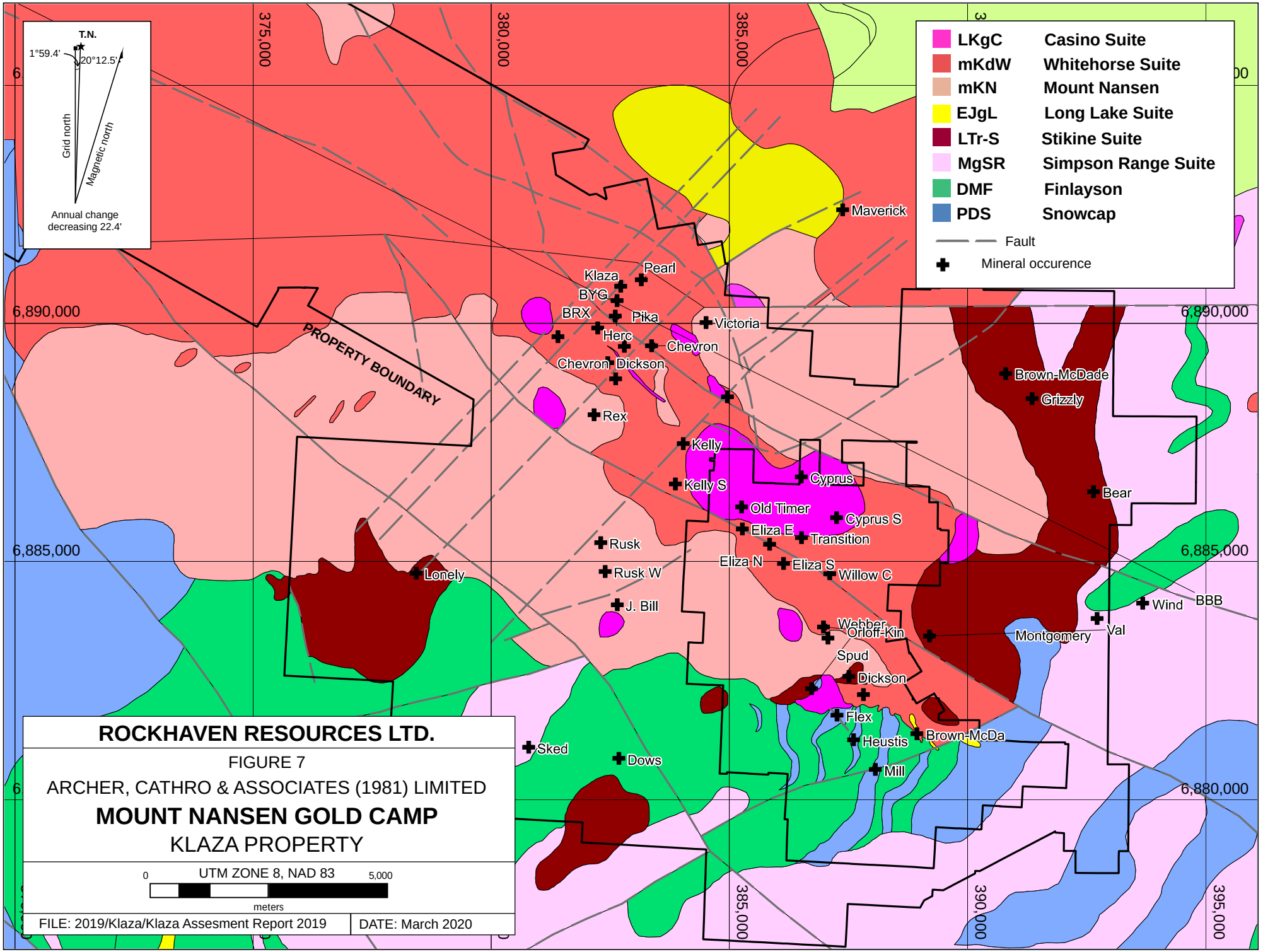
KLAZA PROPERTY

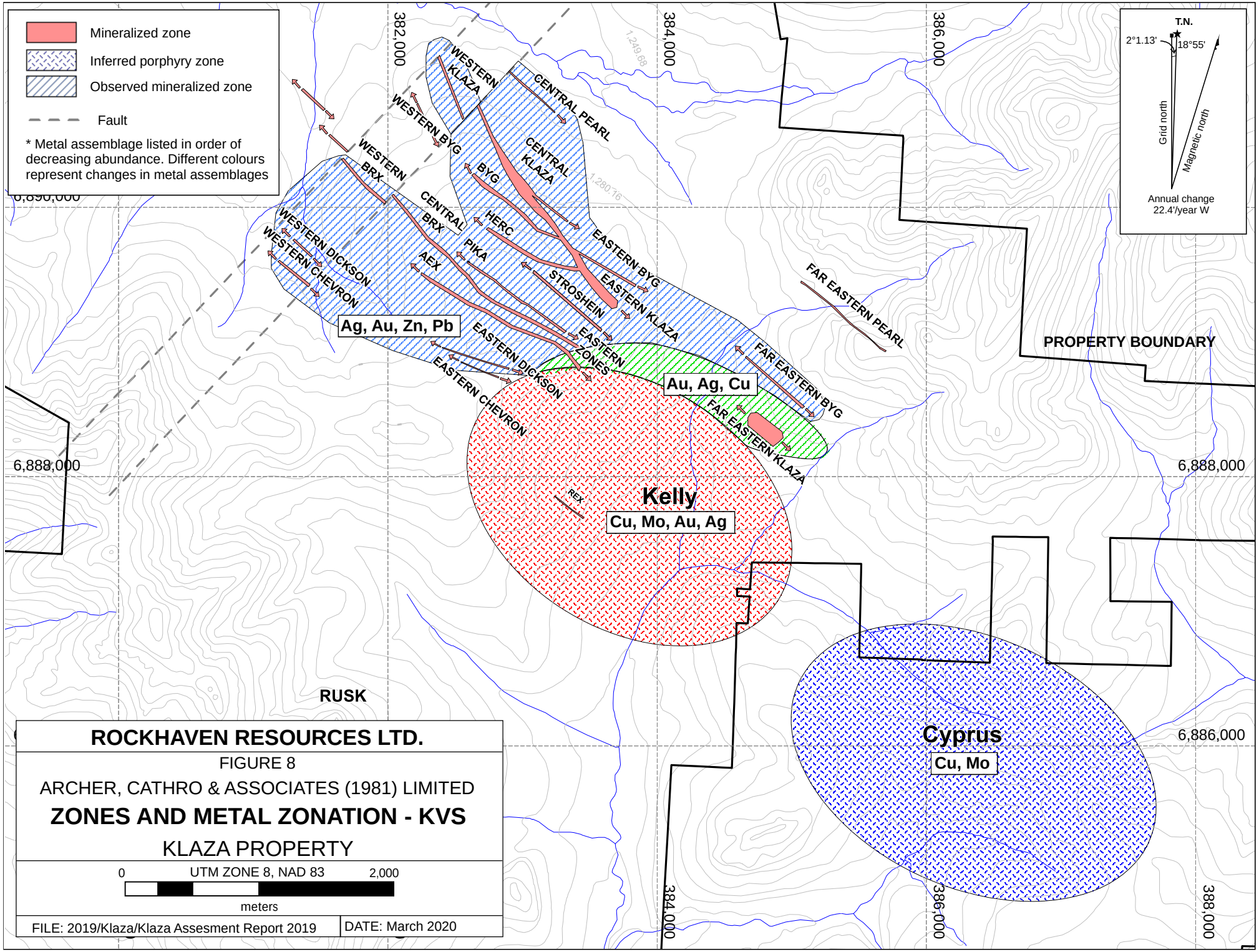
FILE: P:/2018/Klaza/2018 Klaza Assessment Report | DATE: MAY 2018

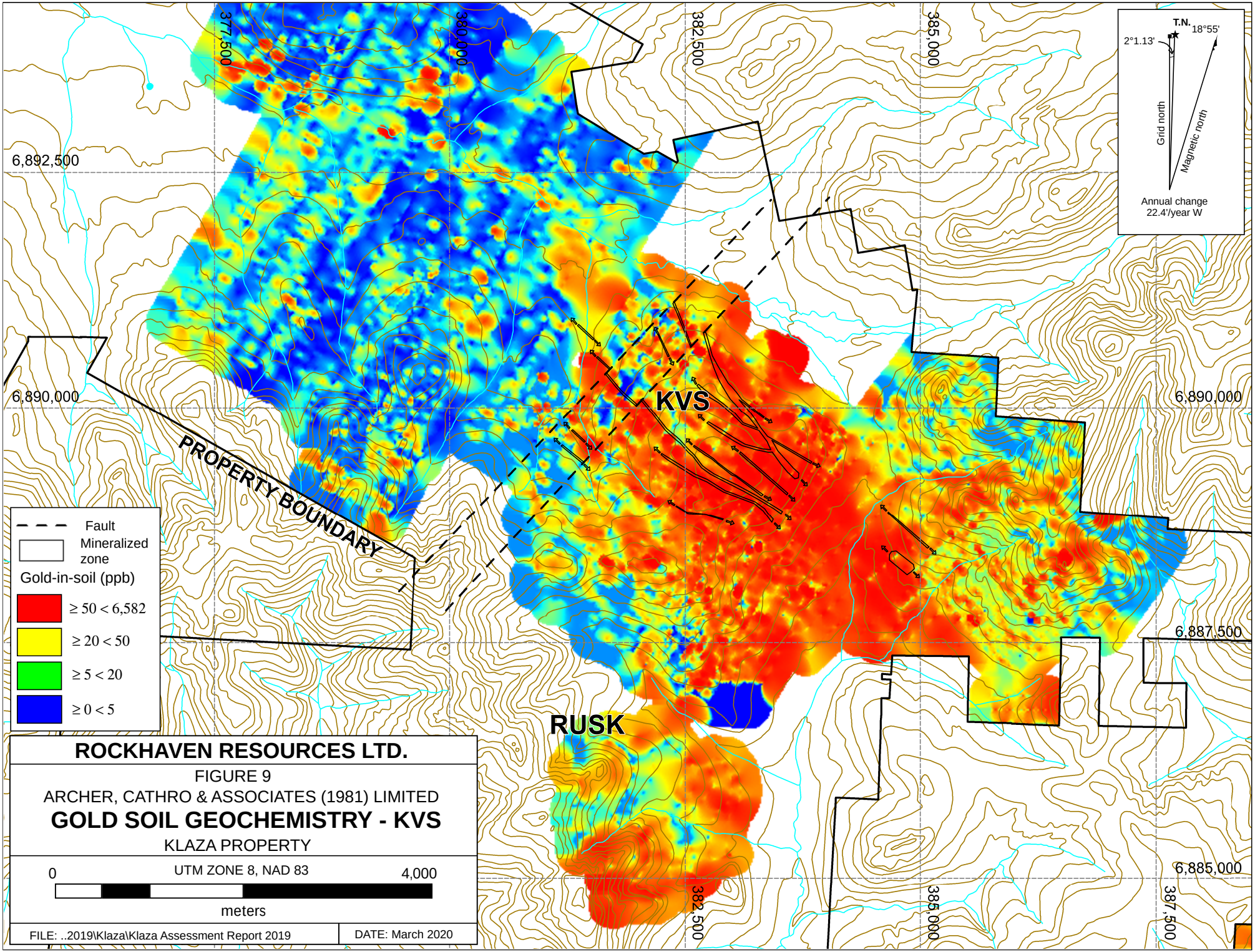
After Colpron, M. and Nelson, J.L., 2011

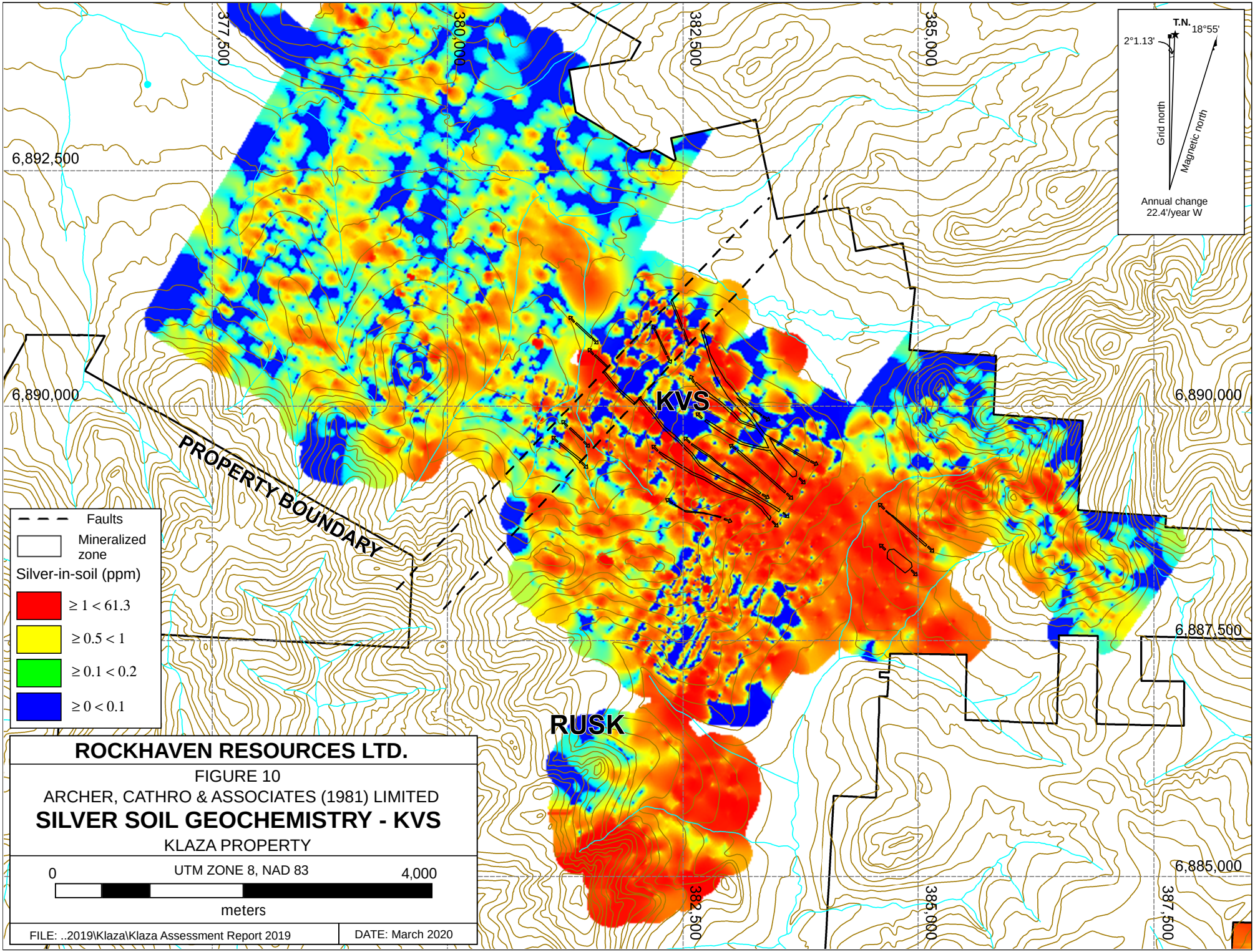


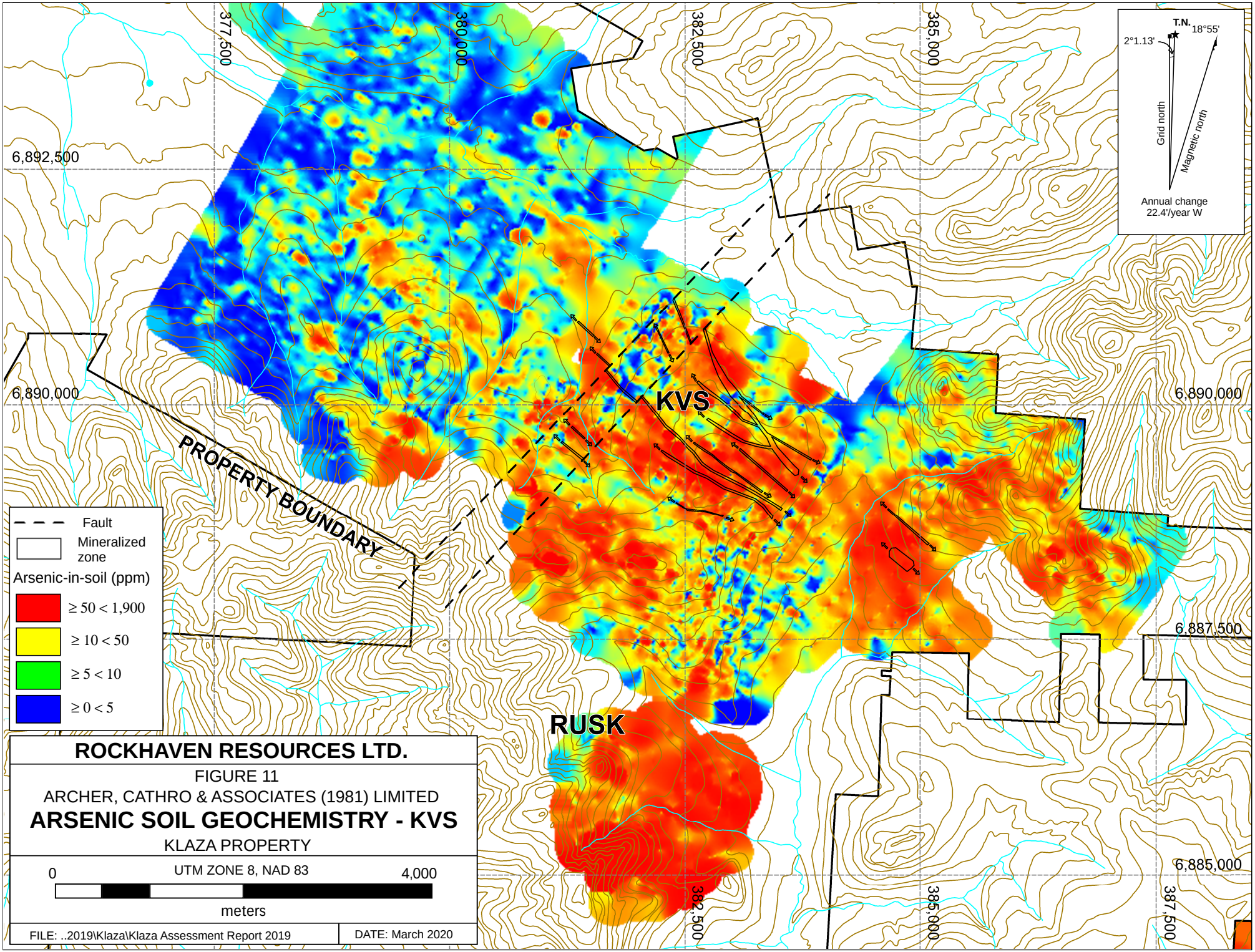

T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change
22.4'/year W
365,000
370,000
375,000
380,000
PROPERTY BOUNDARY
LKgC Casino Suite
mKdW Whitehorse Suite
mKN Mount Nansen
EJgL Long Lake Suite
LTr-S Stikine Suite
MgSR Simpson Range Suite
DMF Finlayson
PDS Snowcap
Fault
6,895,000
6,890,000
6,885,000
6,880,000
375,000
380,000
385,000
390,000
395,000
ROCKHAVEN RESOURCES LTD.
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
10,000
meters
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020

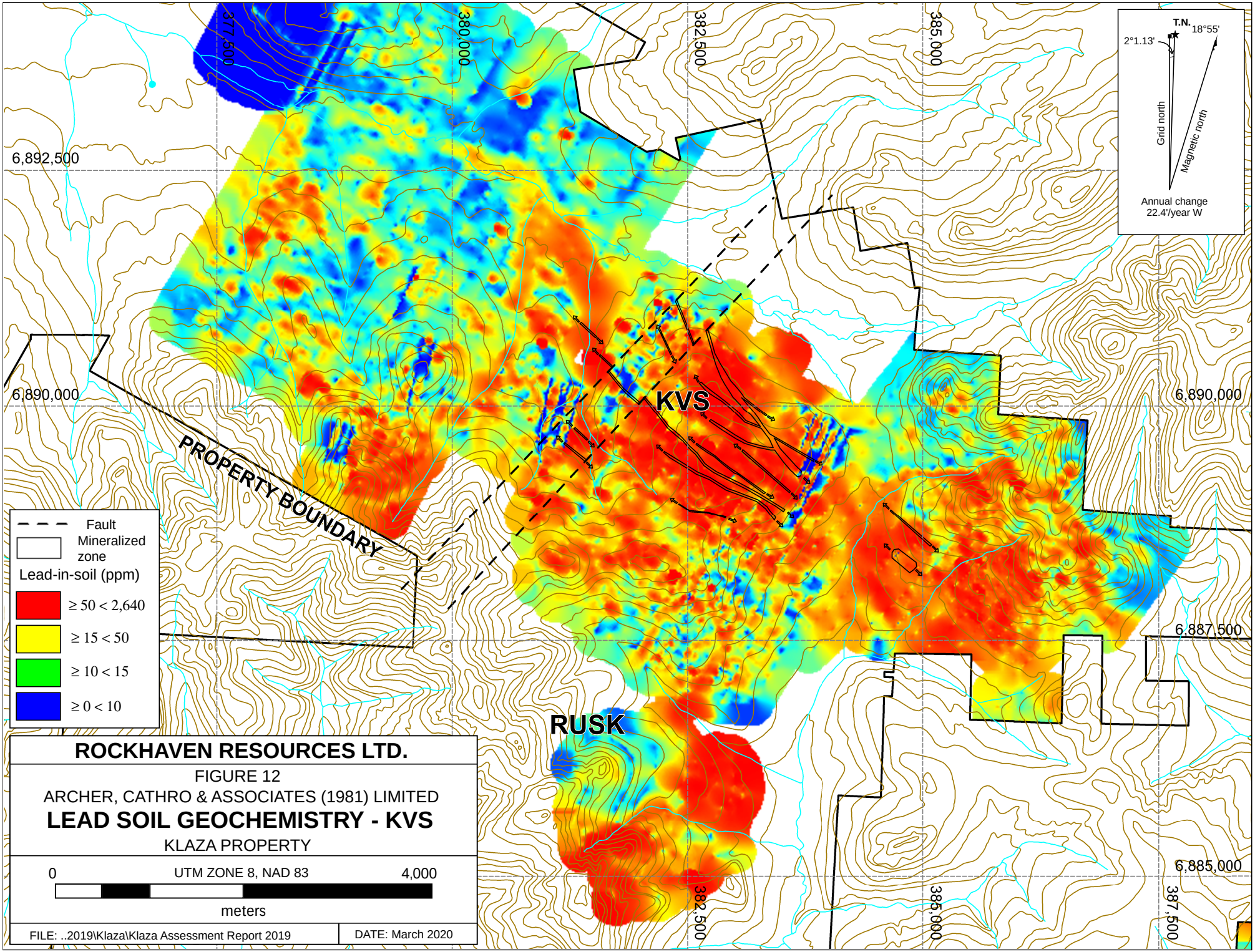

T.N.
1°59.4'
20°12.5'
Grid north
Magnetic north
Annual change
decreasing 22.4'
375,000
380,000
385,000
390,000
395,000
6,890,000
6,885,000
6,880,000
LKgC Casino Suite
mKdW Whitehorse Suite
mKN Mount Nansen
EJgL Long Lake Suite
LTr-S Stikine Suite
MgSR Simpson Range Suite
DMF Finlayson
PDS Snowcap
Fault
Mineral occurence
PROPERTY BOUNDARY
Maverick
Pearl
Klaza
BYG
BRX
Pika
Victoria
Herc
Chevron
Chevron
Dickson
Rex
Kelly
Kelly S
Cyprus
Old Timer
Cyprus S
Eliza E
Transition
Eliza N
Eliza S
Willow C
Rusk
Rusk W
Lonely
J. Bill
Brown-McDade
Grizzly
Bear
Wind
BBB
Val
Montgomery
Webber
Orloff-Kin
Spud
Dickson
Flex
Heustis
Brown-McDa
Mill
Sked
Dows
ROCKHAVEN RESOURCES LTD.
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MOUNT NANSEN GOLD CAMP
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
5,000
meters
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020

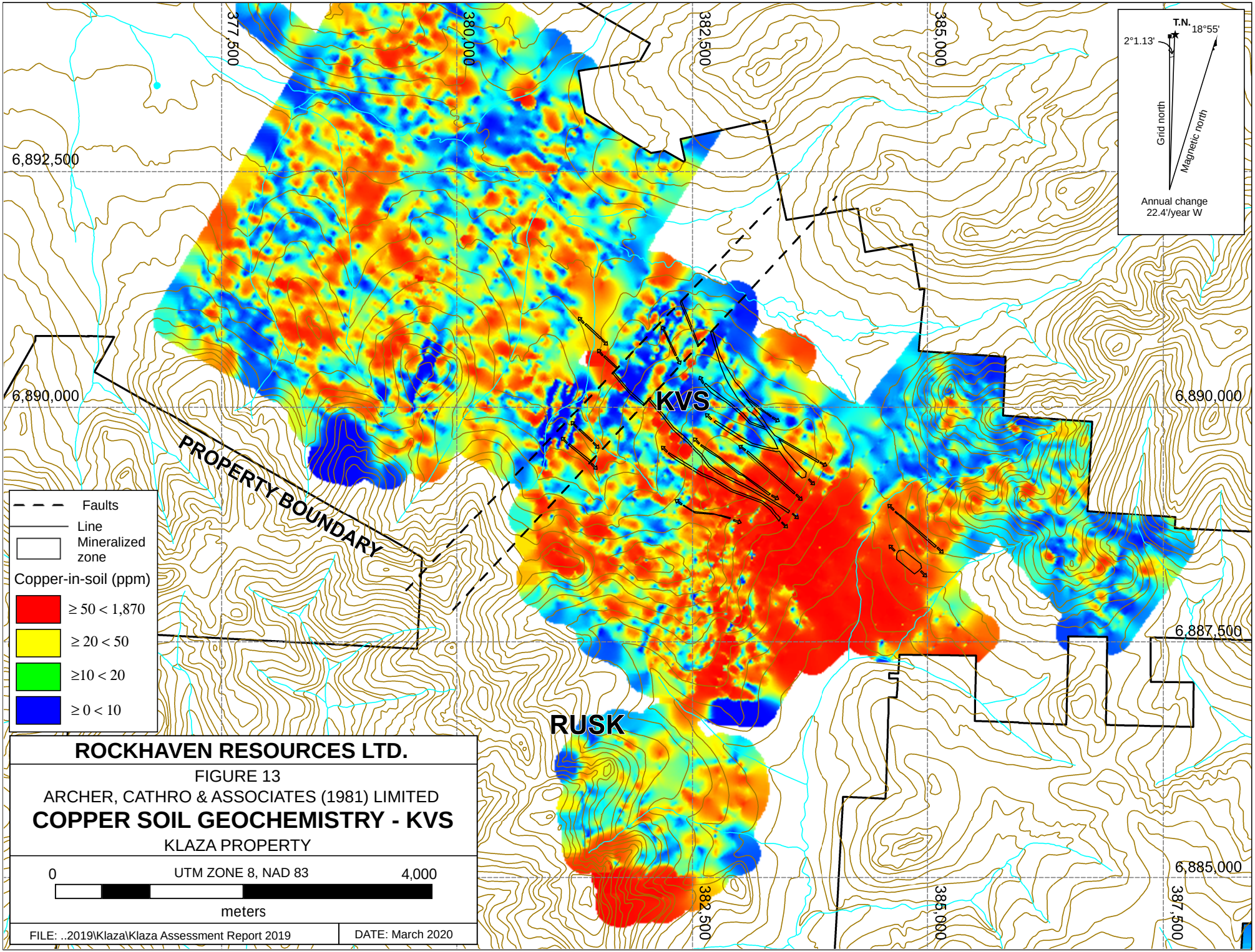

Mineralized zone
Inferred porphyry zone
Observed mineralized zone
Fault
* Metal assemblage listed in order of decreasing abundance. Different colours represent changes in metal assemblages
382,000
384,000
386,000
388,000
6,890,000
6,888,000
6,886,000
T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change 22.4'/year W
WESTERN KLAZA
CENTRAL PEARL
WESTERN BYG
CENTRAL KLAZA
WESTERN BRX
BYG
CENTRAL BRX
HERC
EASTERN BYG
WESTERN DICKSON
WESTERN CHEVRON
PIKA
AEX
STROSHEIN
EASTERN KLAZA
FAR EASTERN PEARL
Ag, Au, Zn, Pb
EASTERN ZONES
EASTERN DICKSON
EASTERN CHEVRON
FAR EASTERN BYG
Au, Ag, Cu
FAR EASTERN KLAZA
PROPERTY BOUNDARY
REX
Kelly
Cu, Mo, Au, Ag
RUSK
Cyprus
Cu, Mo
ROCKHAVEN RESOURCES LTD.
FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZONES AND METAL ZONATION - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
2,000
meters
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020

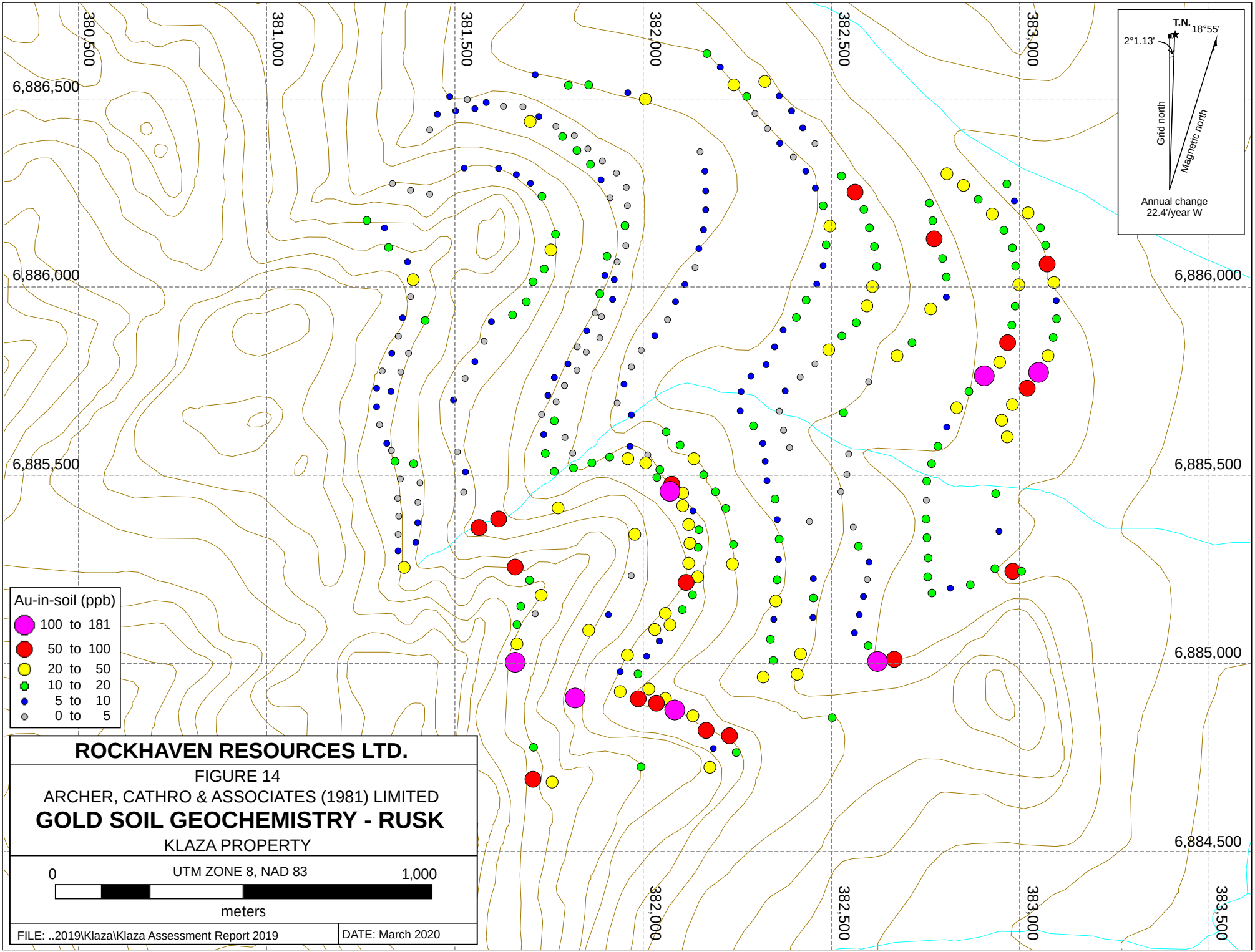

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Gold-in-soil (ppb)
≥ 50 < 6,582
≥ 20 < 50
≥ 5 < 20
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020

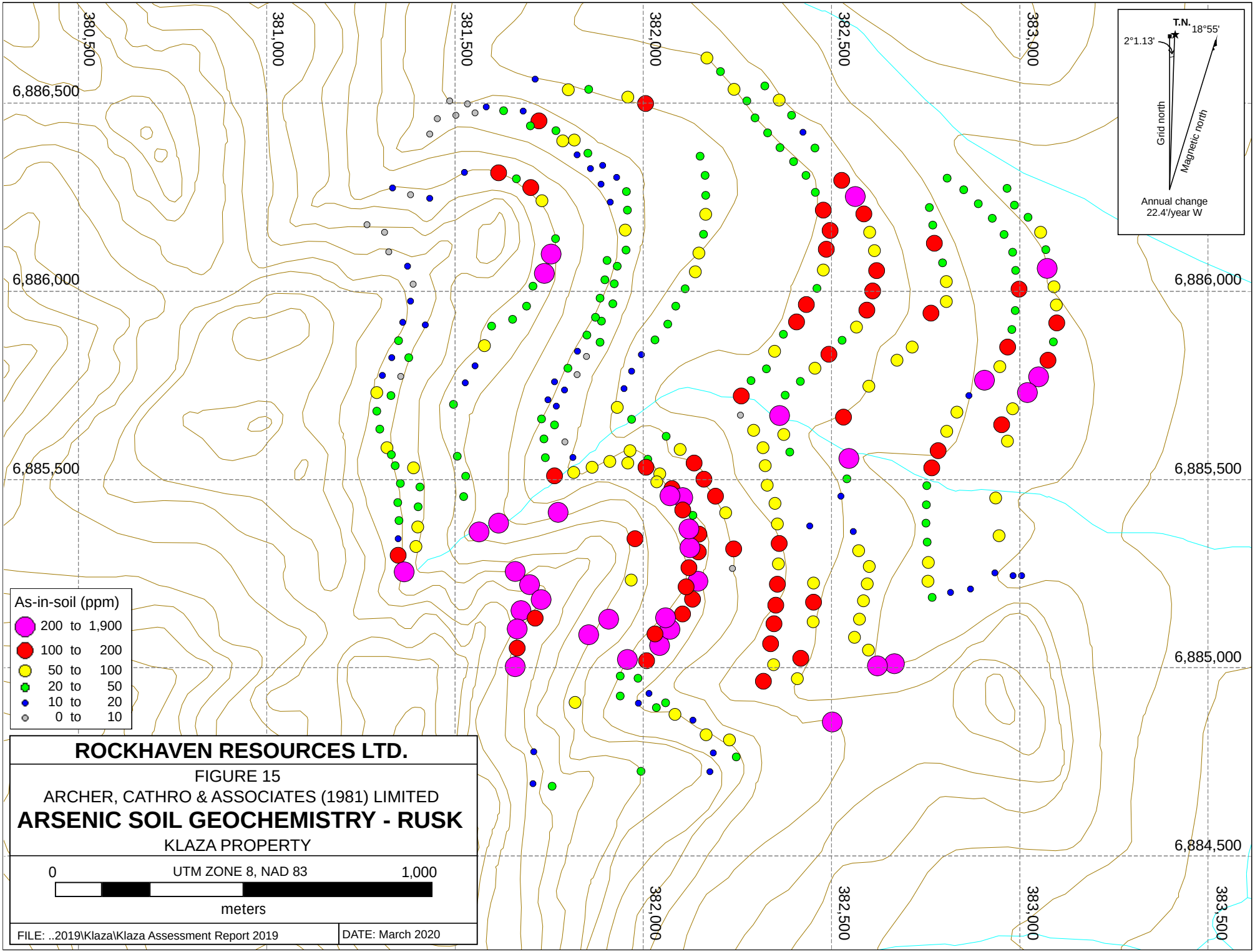

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
KVS
RUSK
PROPERTY BOUNDARY
Faults
Mineralized zone
Silver-in-soil (ppm)
≥ 1 < 61.3
≥ 0.5 < 1
≥ 0.1 < 0.2
≥ 0 < 0.1
ROCKHAVEN RESOURCES LTD.
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020

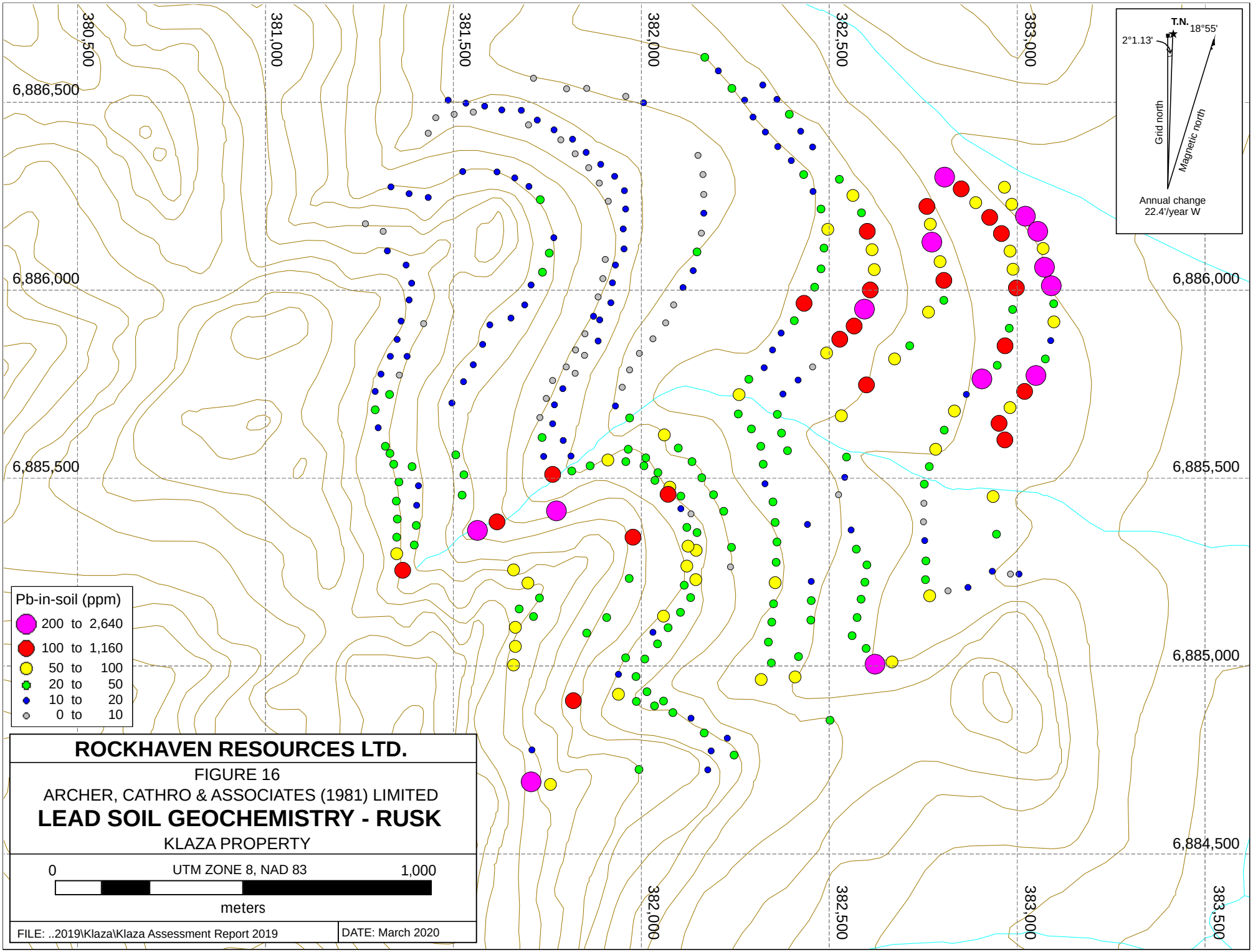

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Arsenic-in-soil (ppm)
≥ 50 < 1,900
≥ 10 < 50
≥ 5 < 10
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020

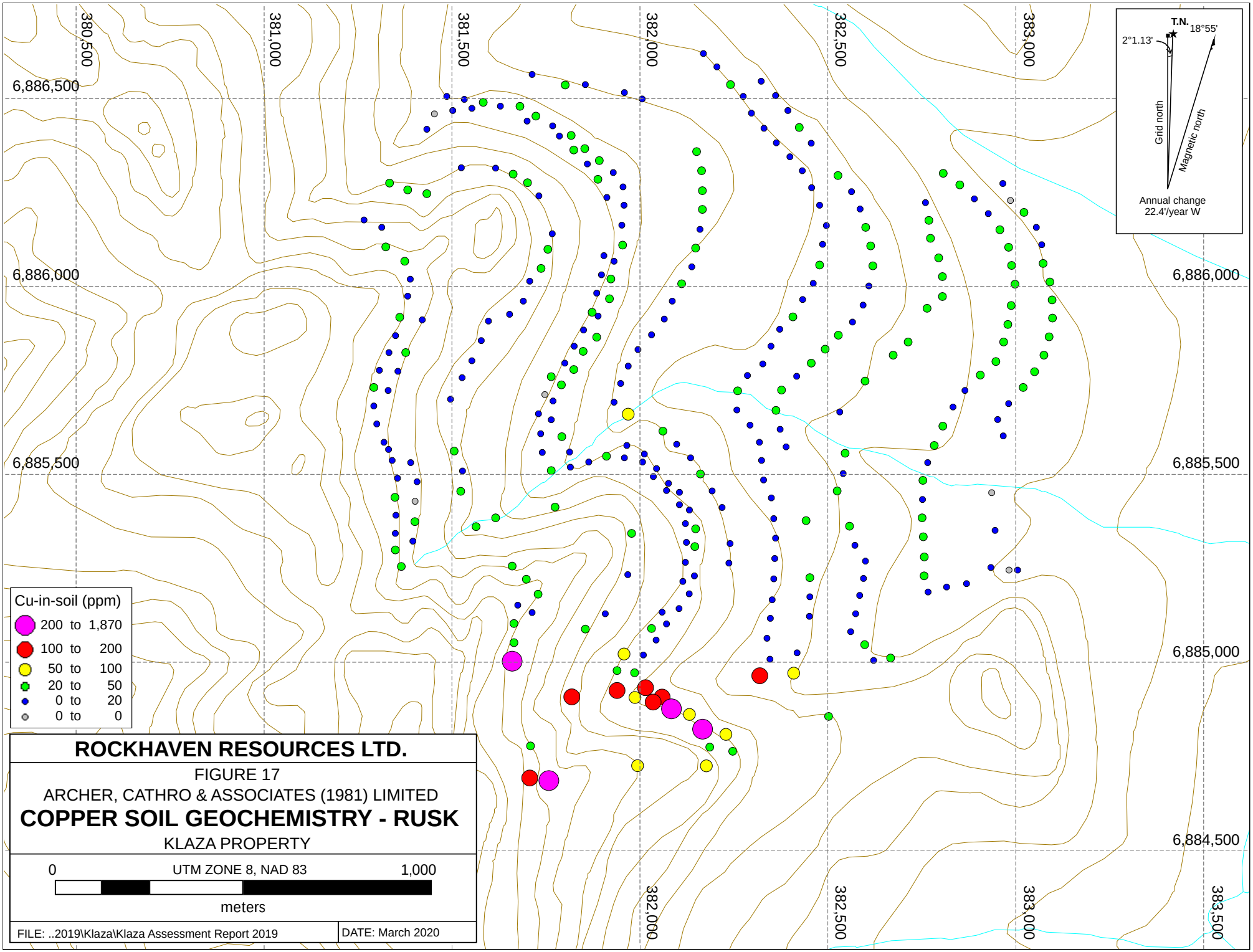

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Lead-in-soil (ppm)
≥ 50 < 2,640
≥ 15 < 50
≥ 10 < 15
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020

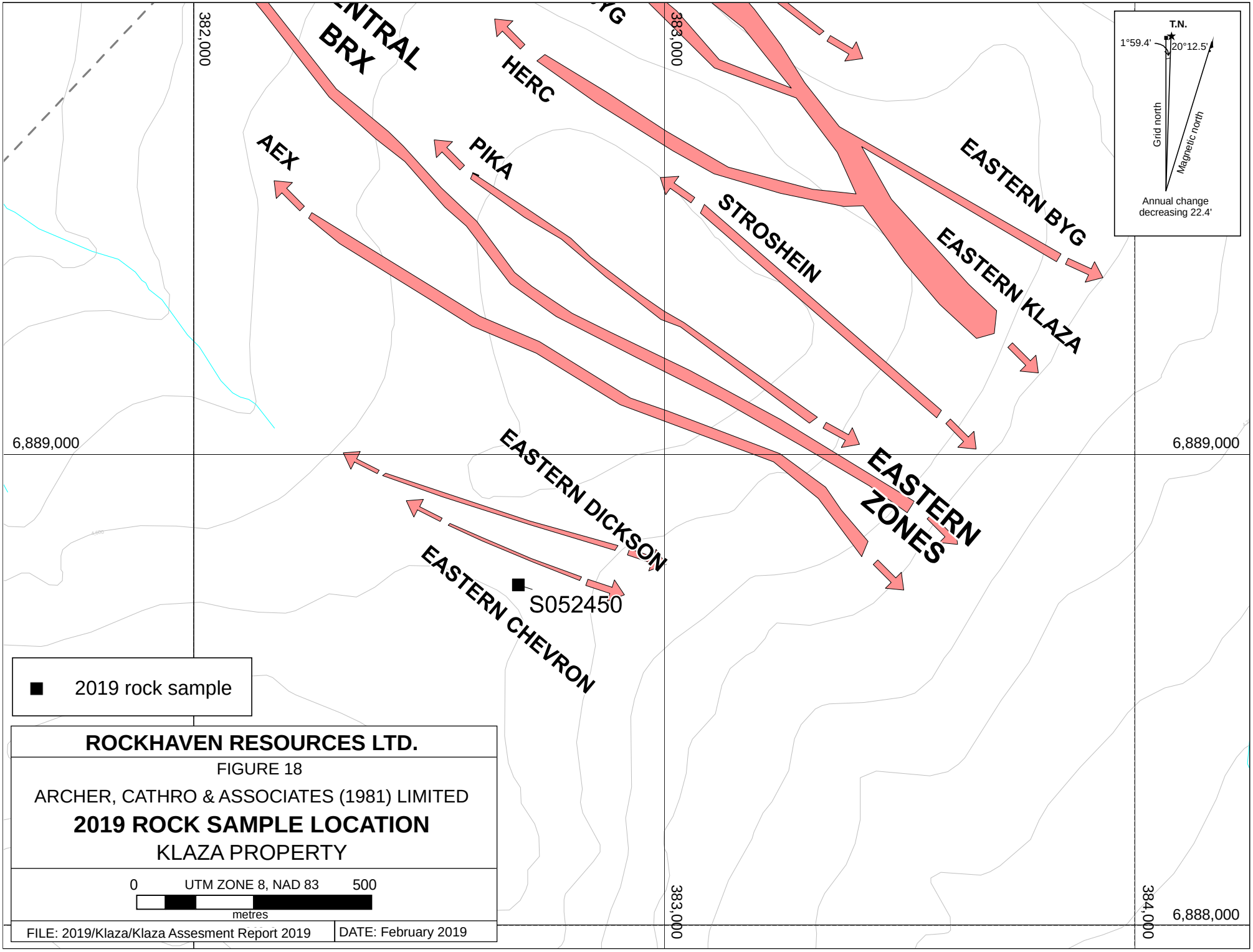

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
KVS
RUSK
PROPERTY BOUNDARY
Faults
Line
Mineralized zone
Copper-in-soil (ppm)
≥ 50 < 1,870
≥ 20 < 50
≥10 < 20
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020

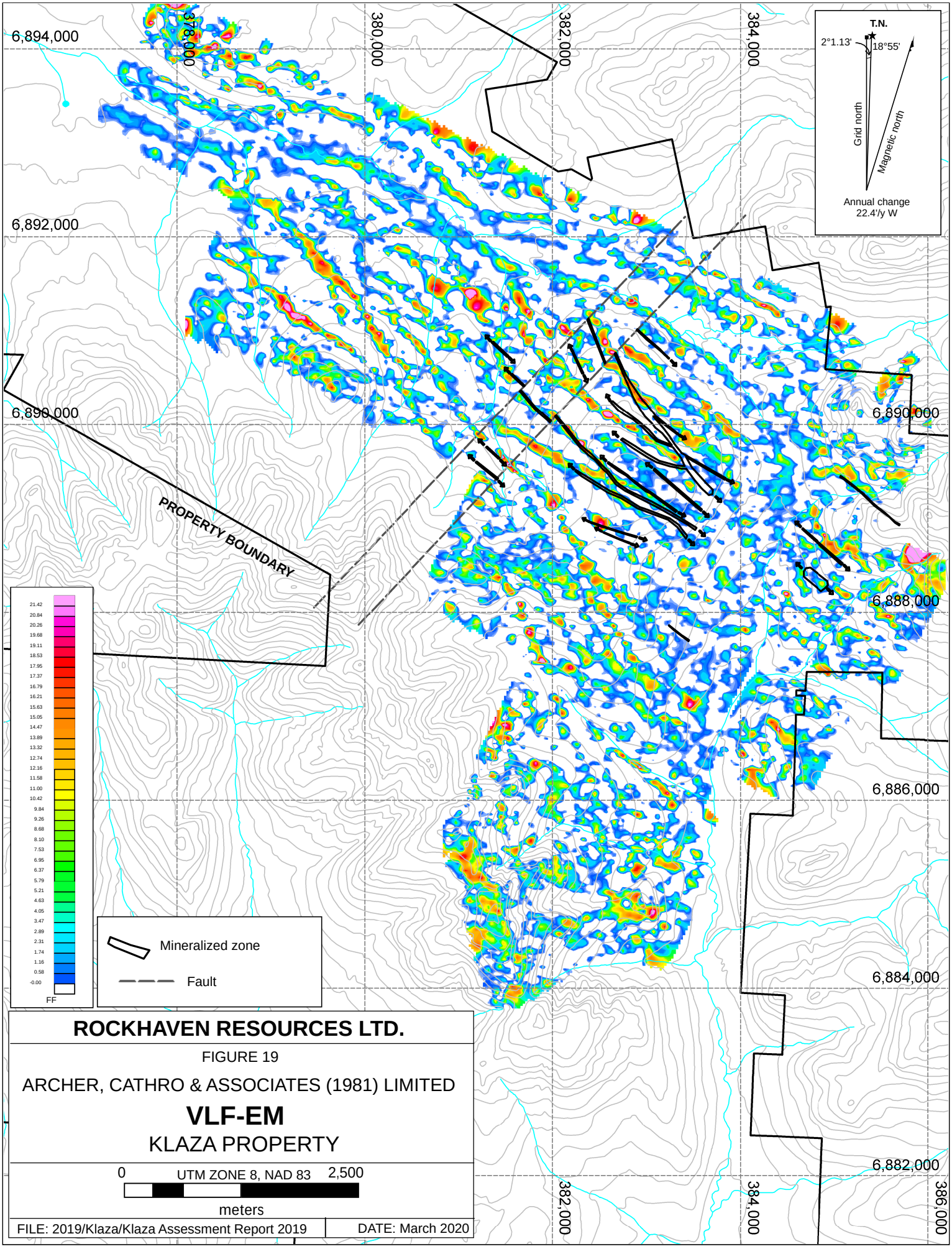

380,500
381,000
381,500
382,000
382,500
383,000
383,500
6,886,500
6,886,000
6,885,500
6,885,000
6,884,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
Au-in-soil (ppb)
100 to 181
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
ROCKHAVEN RESOURCES LTD.
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY - RUSK
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020


380,500
381,000
381,500
382,000
382,500
383,000
383,500
6,886,500
6,886,000
6,885,500
6,885,000
6,884,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
As-in-soil (ppm)
200 to 1,900
100 to 200
50 to 100
20 to 50
10 to 20
0 to 10
ROCKHAVEN RESOURCES LTD.
FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SOIL GEOCHEMISTRY - RUSK
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020


380,500
381,000
381,500
382,000
382,500
383,000
383,500
6,886,500
6,886,000
6,885,500
6,885,000
6,884,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
Pb-in-soil (ppm)
200 to 2,640
100 to 1,160
50 to 100
20 to 50
10 to 20
0 to 10
ROCKHAVEN RESOURCES LTD.
FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY - RUSK
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020


380,500
381,000
381,500
382,000
382,500
383,000
383,500
6,886,500
6,886,000
6,885,500
6,885,000
6,884,500
T.N.
18°55'
2°1.13'
Grid north
Magnetic north
Annual change
22.4'/year W
Cu-in-soil (ppm)
200 to 1,870
100 to 200
50 to 100
20 to 50
0 to 20
0 to 0
ROCKHAVEN RESOURCES LTD.
FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY - RUSK
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
meters
FILE: ..2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020


382,000
383,000
384,000
6,889,000
6,888,000
CENTRAL BRX
HERC
BYG
AEX
PIKA
STROSHEIN
EASTERN BYG
EASTERN KLAZA
EASTERN ZONES
EASTERN DICKSON
EASTERN CHEVRON
S052450
T.N.
1°59.4'
20°12.5'
Grid north
Magnetic north
Annual change decreasing 22.4'
2019 rock sample
ROCKHAVEN RESOURCES LTD.
FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2019 ROCK SAMPLE LOCATION
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
500
metres
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: February 2019



ROCKHAVEN RESOURCES LTD.

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

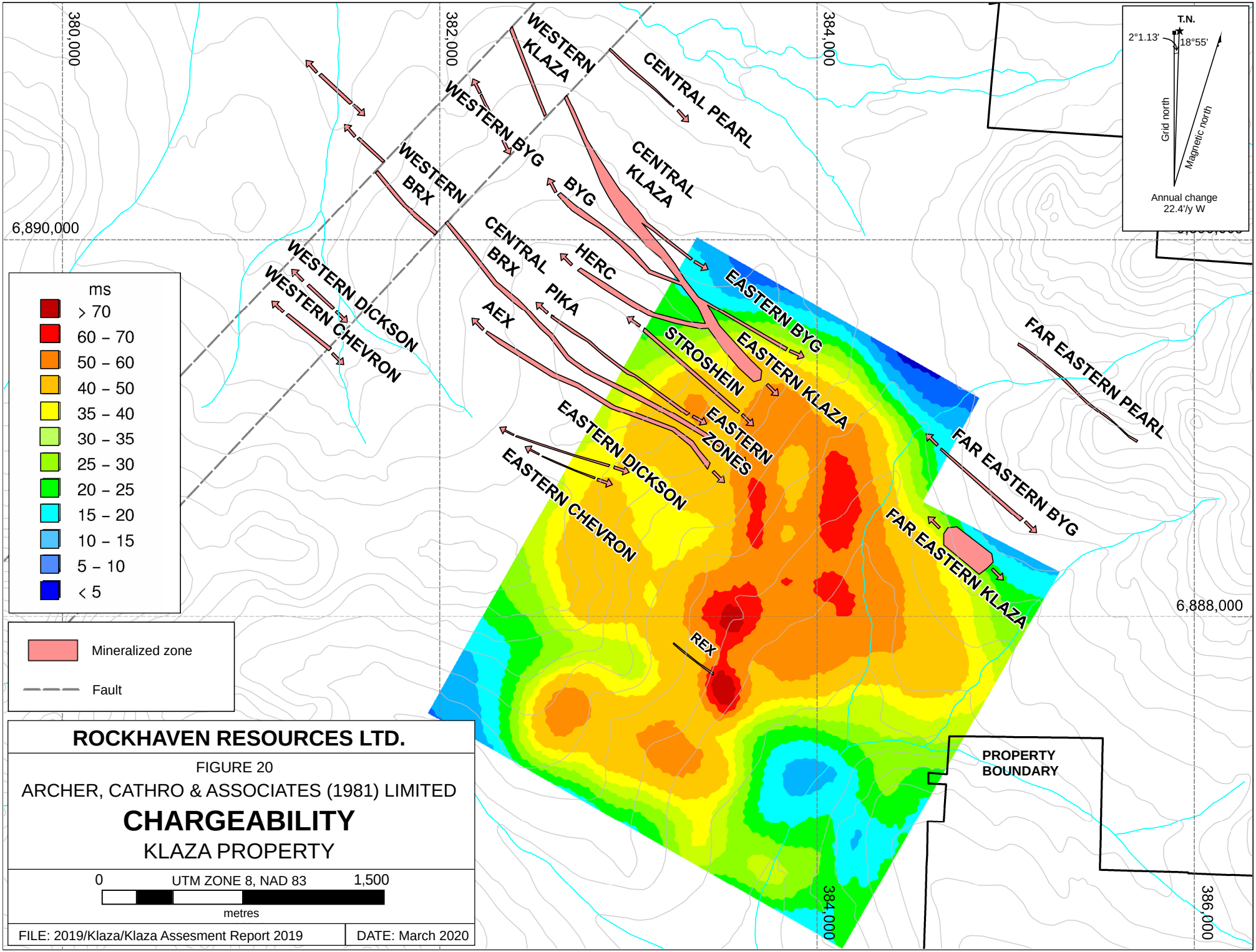
VLF-EM

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 2,500

meters

FILE: 2019/Klaza/Klaza Assessment Report 2019 | DATE: March 2020



ROCKHAVEN RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

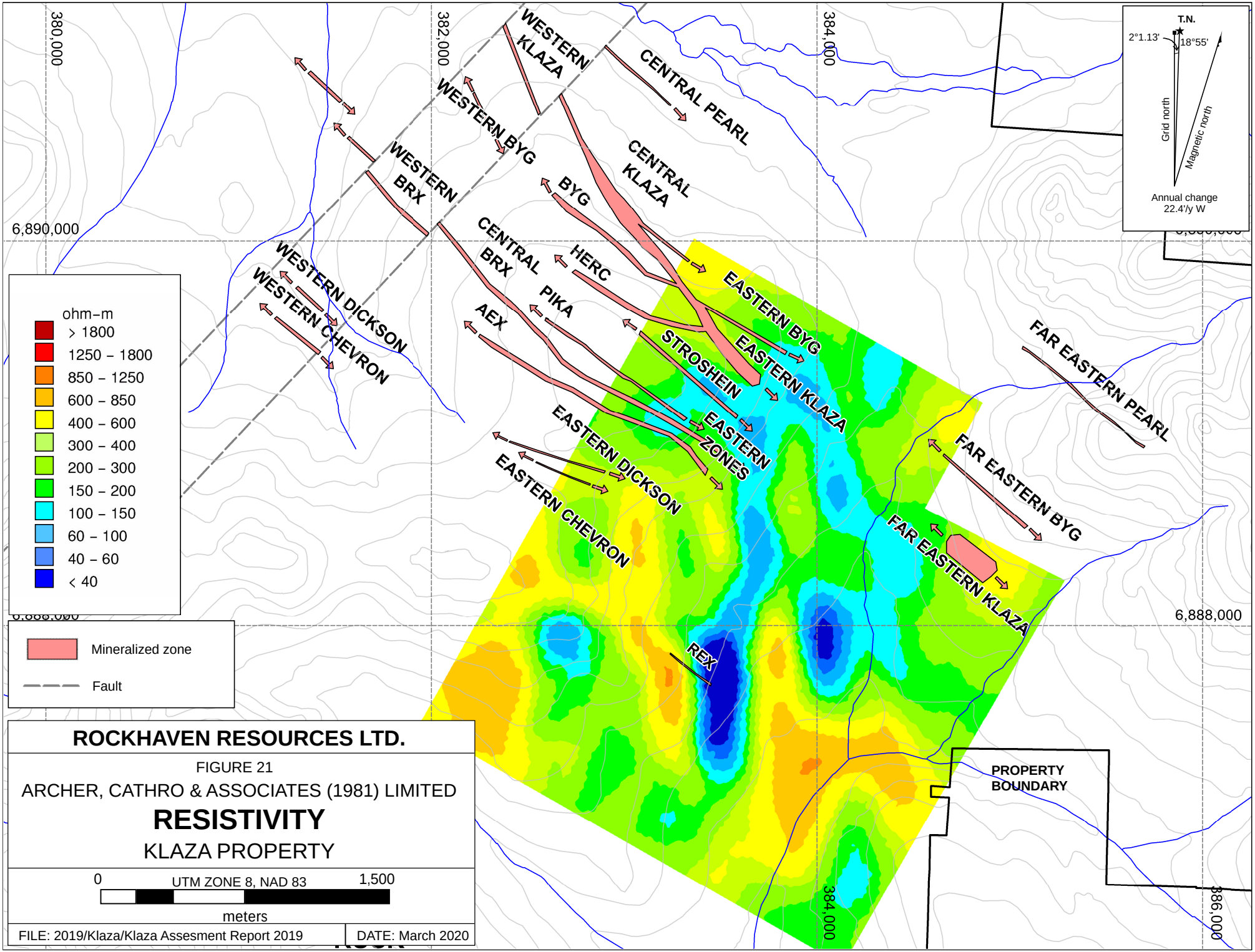
CHARGEABILITY

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,500

metres

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020



ROCKHAVEN RESOURCES LTD.

FIGURE 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

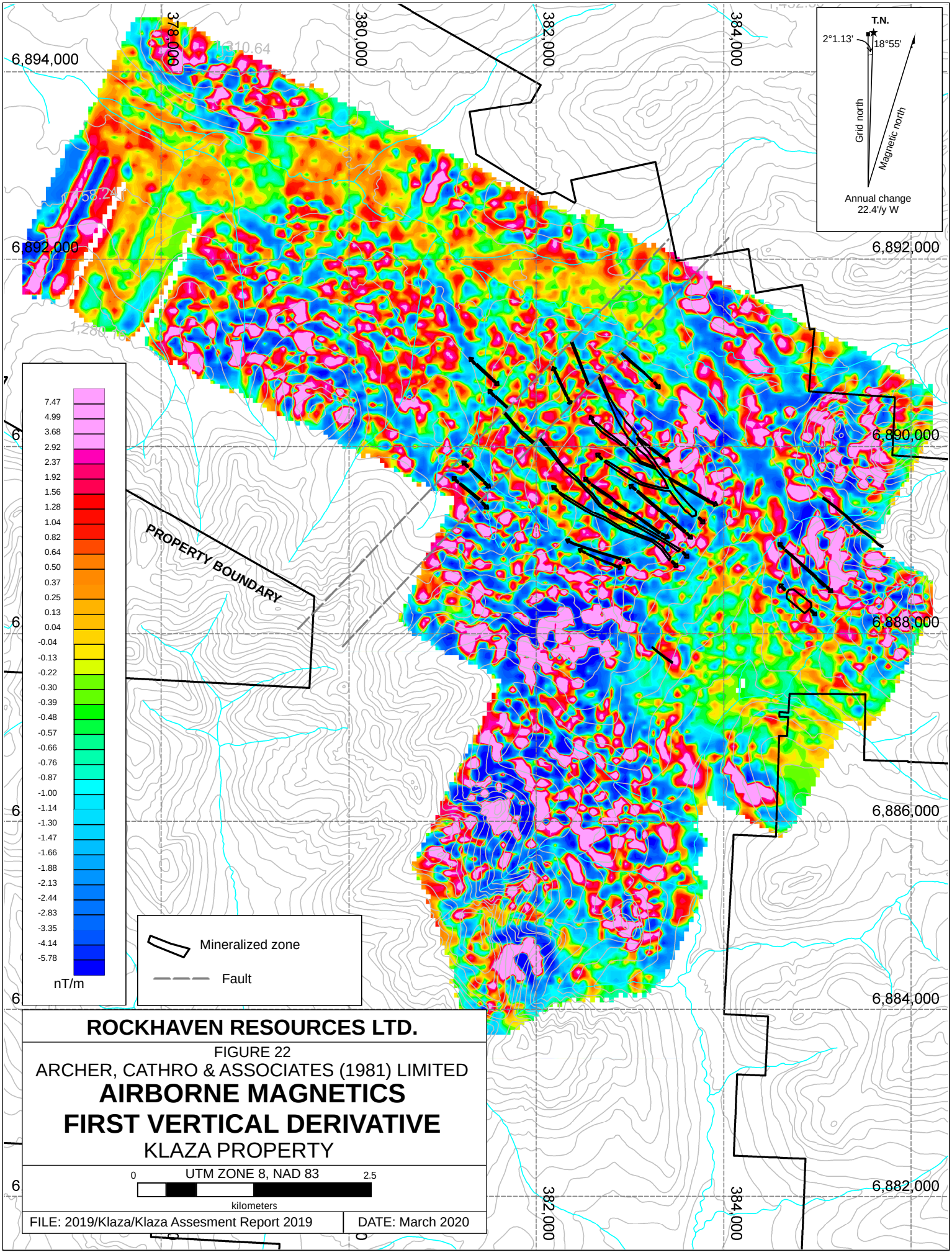
RESISTIVITY

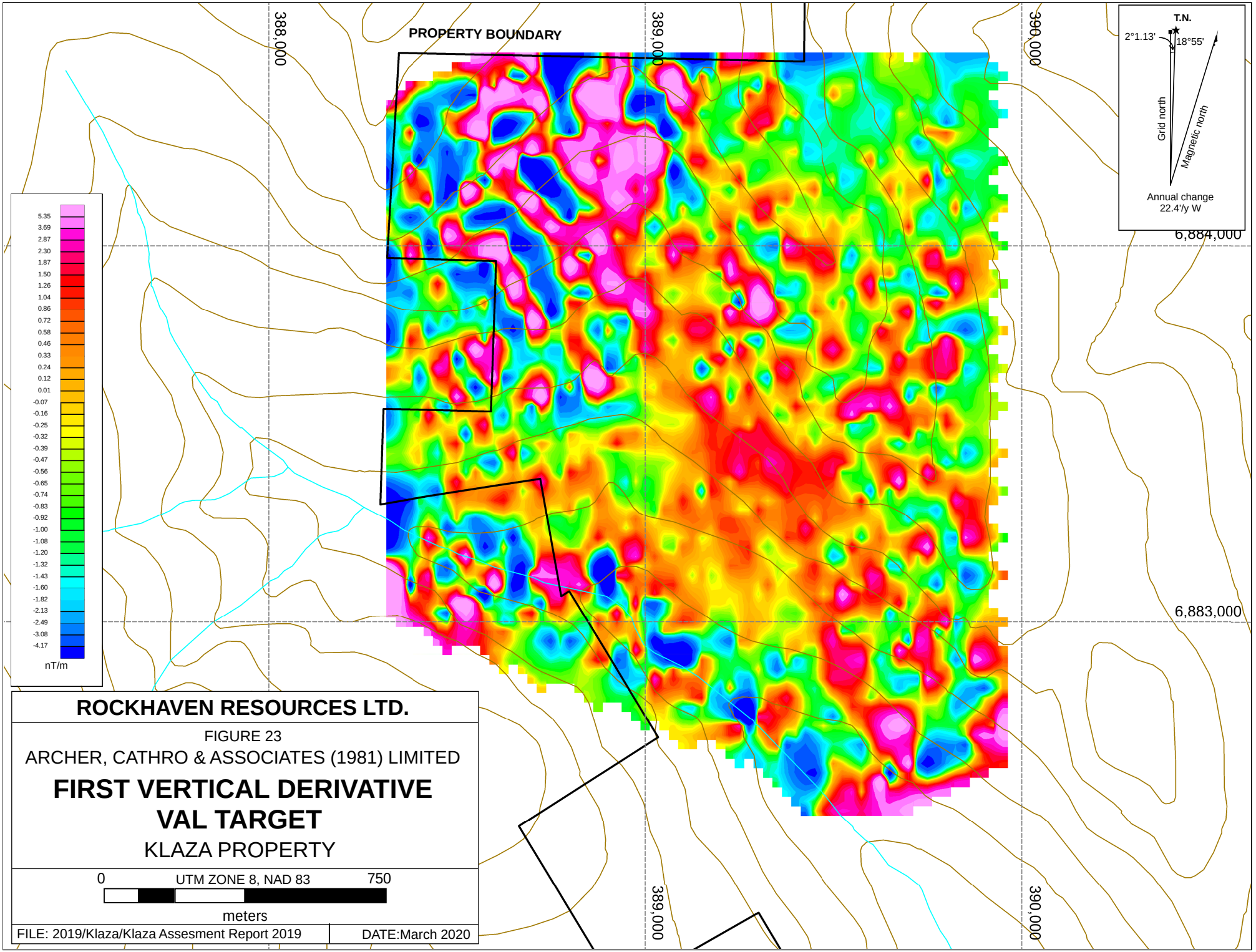
KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,500

meters

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020


T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change
22.4'/y W
6,894,000
6,892,000
6,890,000
6,888,000
6,886,000
6,884,000
6,882,000
378,000
380,000
382,000
384,000
PROPERTY BOUNDARY
7.47
4.99
3.68
2.92
2.37
1.92
1.56
1.28
1.04
0.82
0.64
0.50
0.37
0.25
0.13
0.04
-0.04
-0.13
-0.22
-0.30
-0.39
-0.48
-0.57
-0.66
-0.76
-0.87
-1.00
-1.14
-1.30
-1.47
-1.66
-1.88
-2.13
-2.44
-2.83
-3.35
-4.14
-5.78
nT/m
Mineralized zone
Fault
ROCKHAVEN RESOURCES LTD.
FIGURE 22
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
AIRBORNE MAGNETICS
FIRST VERTICAL DERIVATIVE
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
2.5
kilometers
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020



ROCKHAVEN RESOURCES LTD.

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

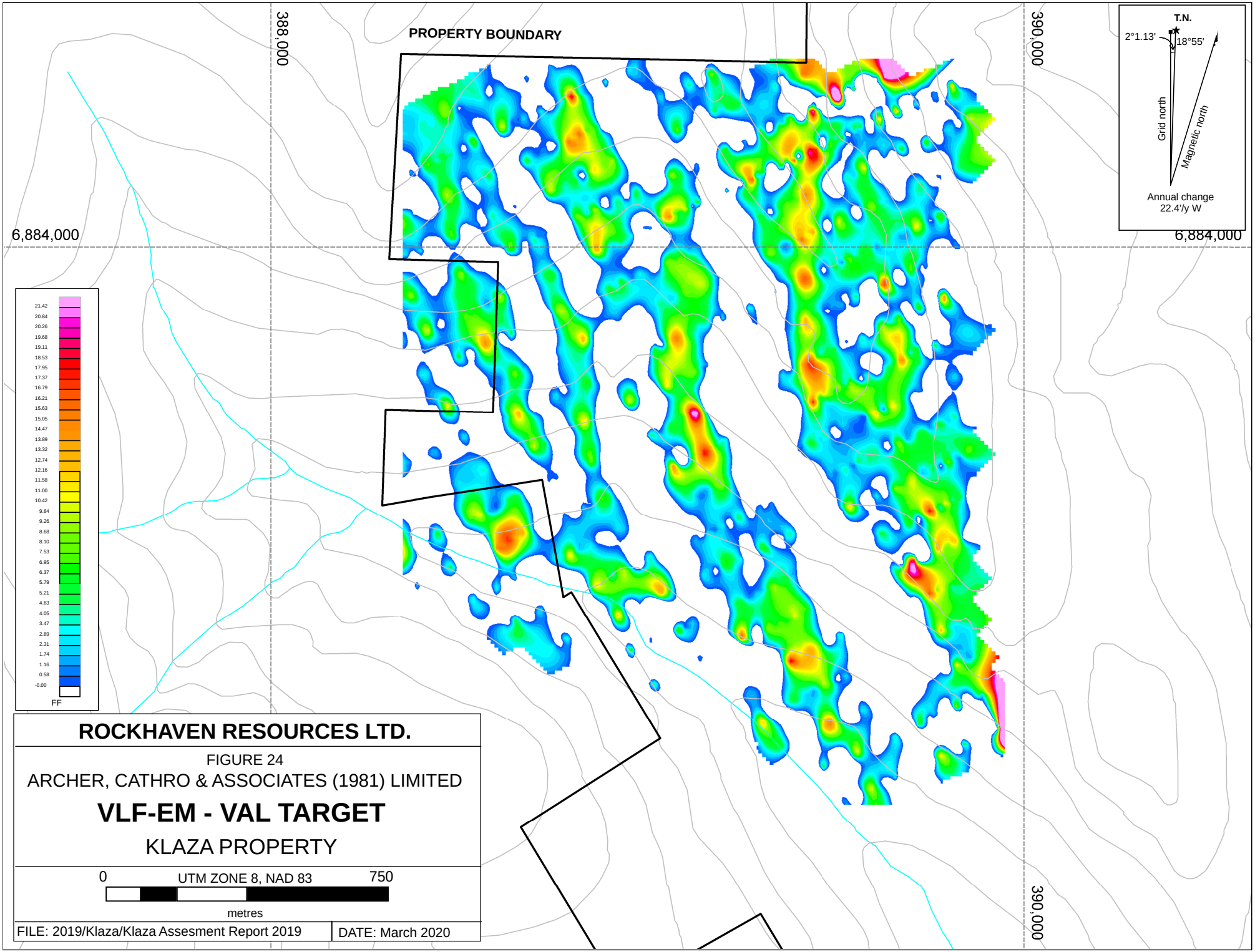
FIRST VERTICAL DERIVATIVE VAL TARGET

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 750

meters

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE:March 2020



ROCKHAVEN RESOURCES LTD.

FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

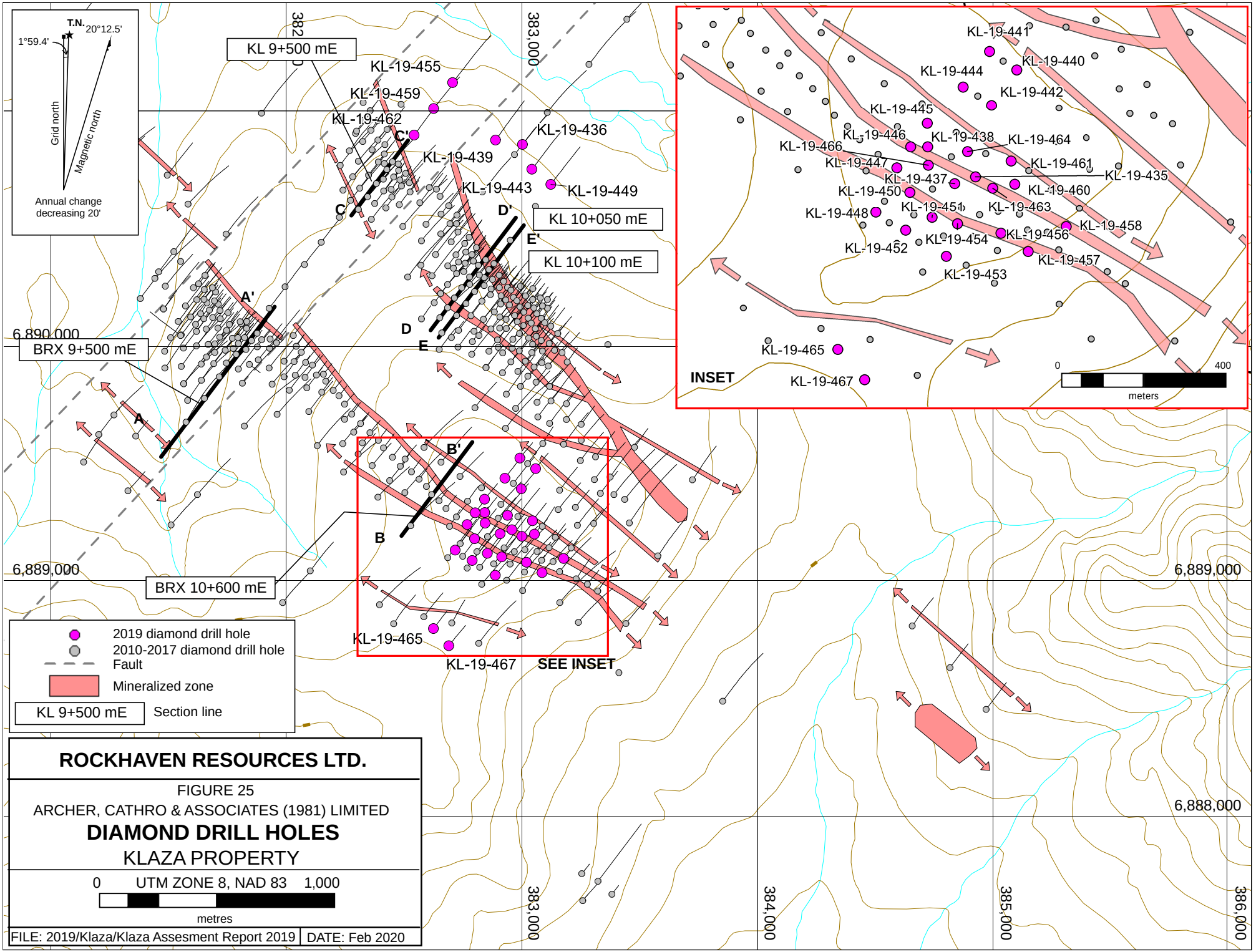
VLF-EM - VAL TARGET

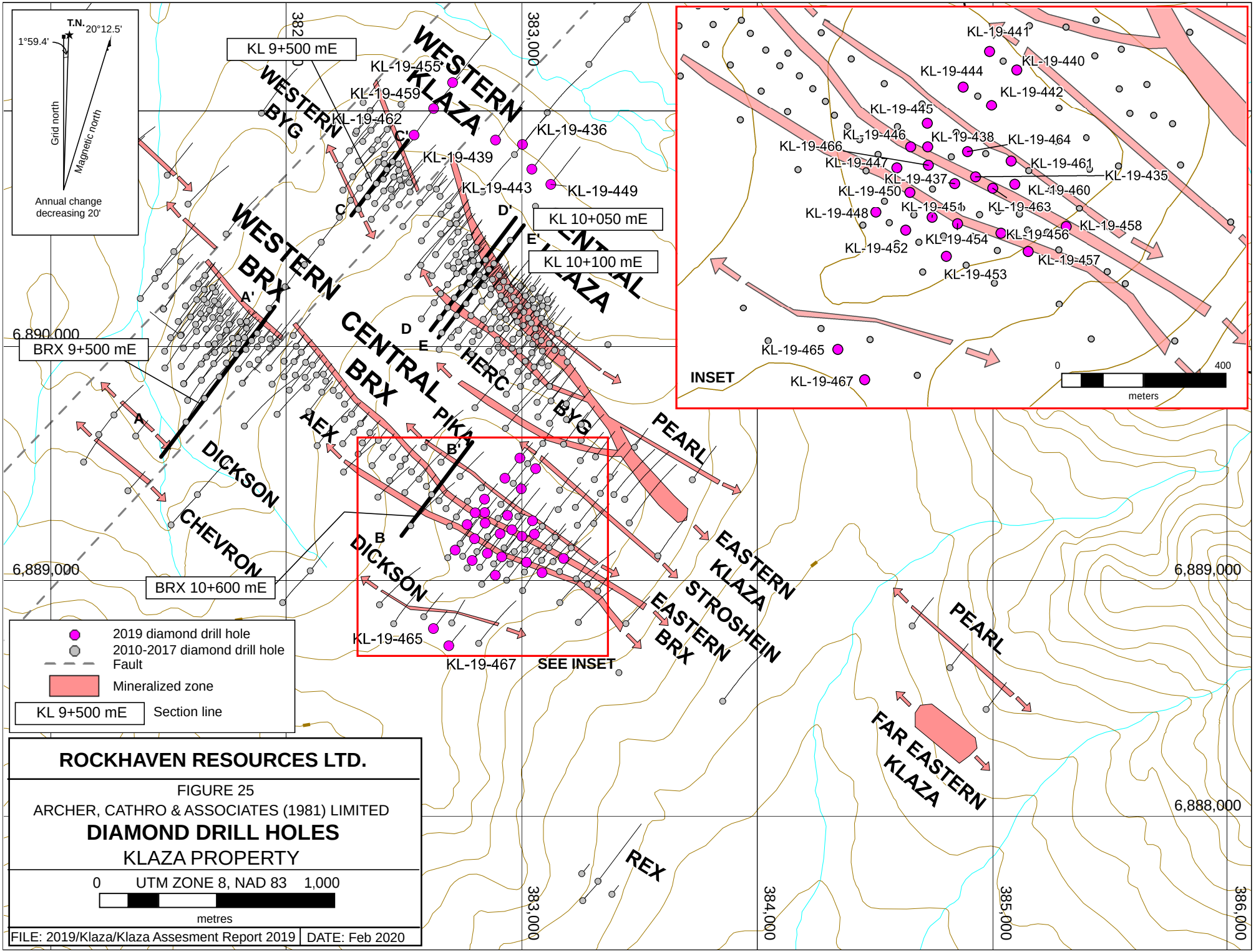
KLAZA PROPERTY

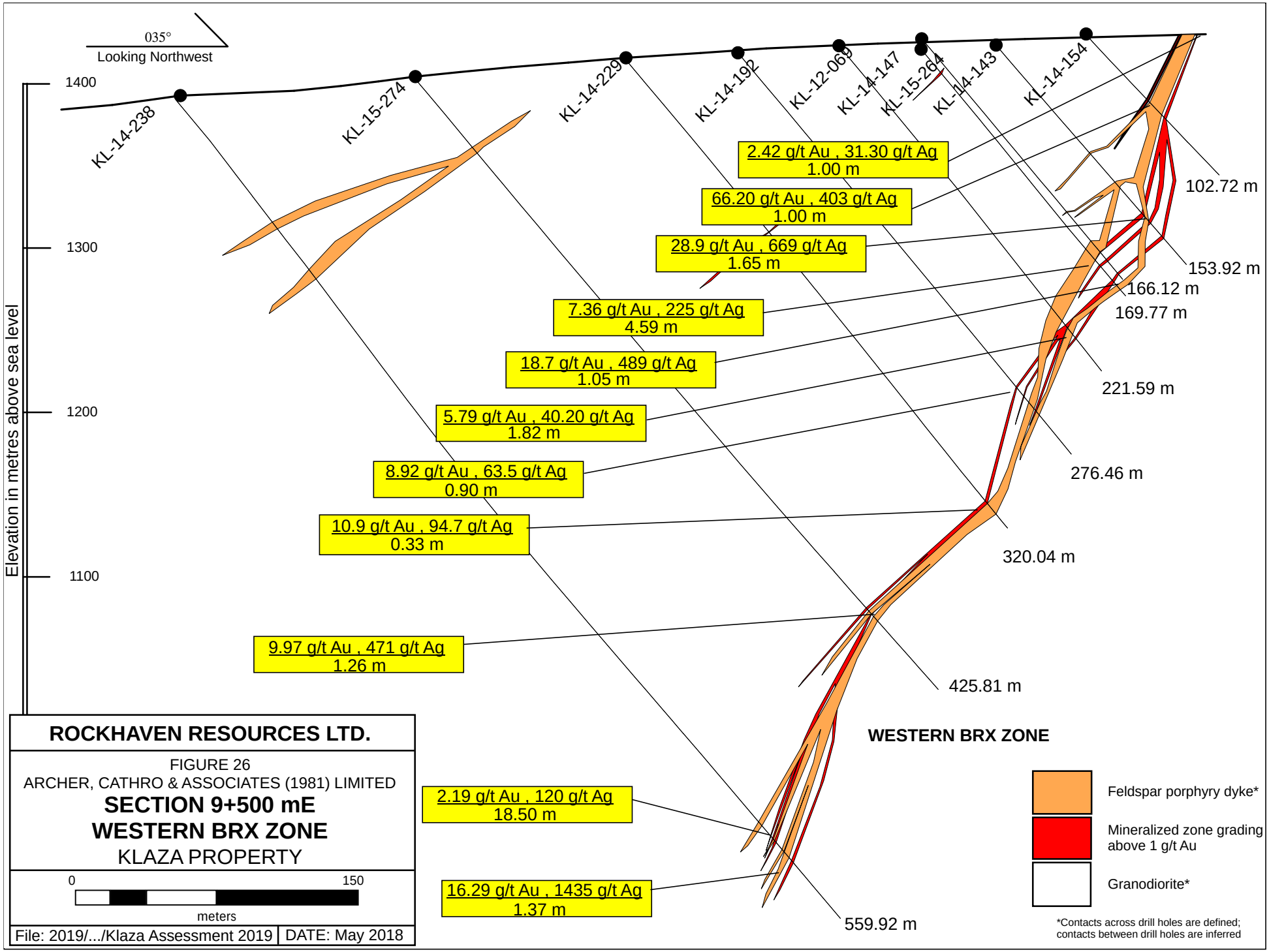
0 UTM ZONE 8, NAD 83 750

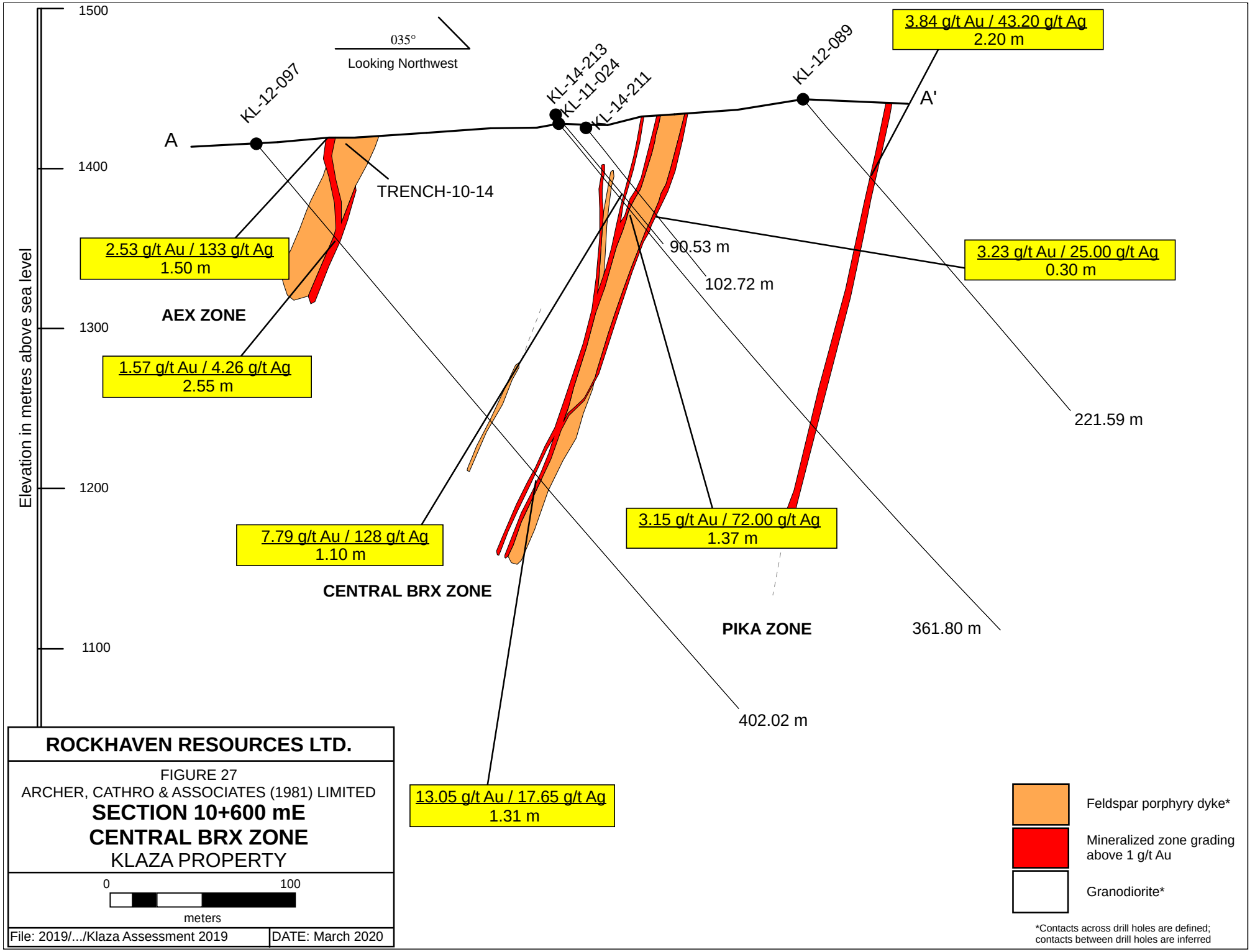
metres

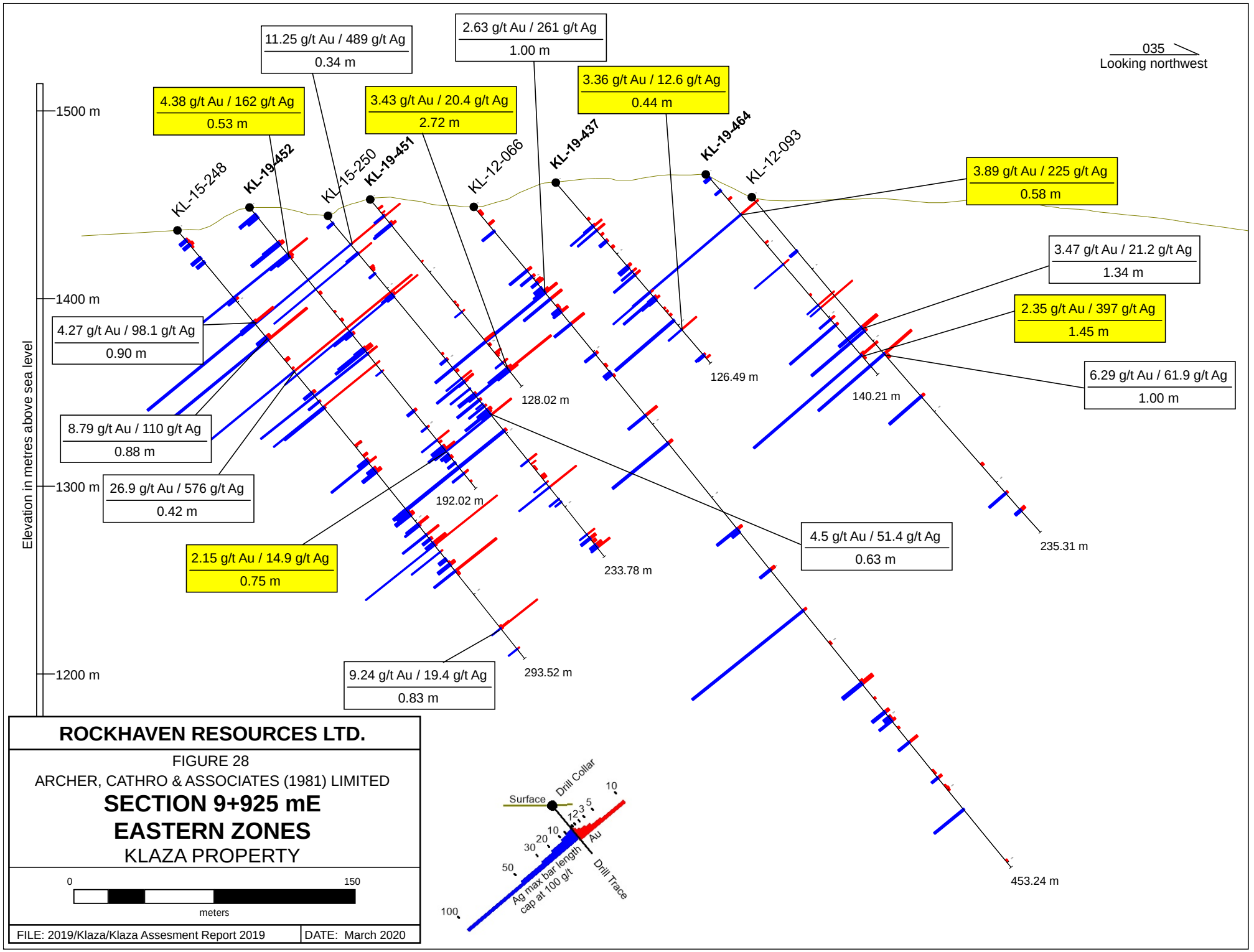
FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020


T.N.
20°12.5'
1°59.4'
Grid north
Magnetic north
Annual change
decreasing 20'
KL 9+500 mE
KL-19-455
KL-19-459
KL-19-462
KL-19-436
KL-19-439
KL-19-443
KL-19-449
KL 10+050 mE
KL 10+100 mE
BRX 9+500 mE
BRX 10+600 mE
A
A'
B
B'
C
C'
D
D'
E
E'
382,000
383,000
6,890,000
6,889,000
6,888,000
384,000
385,000
386,000
KL-19-465
KL-19-467
SEE INSET
INSET
KL-19-441
KL-19-440
KL-19-444
KL-19-442
KL-19-445
KL-19-446
KL-19-438
KL-19-464
KL-19-466
KL-19-447
KL-19-461
KL-19-435
KL-19-437
KL-19-450
KL-19-460
KL-19-448
KL-19-451
KL-19-463
KL-19-458
KL-19-452
KL-19-454
KL-19-456
KL-19-457
KL-19-453
0
400
meters
2019 diamond drill hole
2010-2017 diamond drill hole
Fault
Mineralized zone
KL 9+500 mE
Section line
ROCKHAVEN RESOURCES LTD.
FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL HOLES
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
metres
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: Feb 2020


T.N.
20°12.5'
1°59.4'
Grid north
Magnetic north
Annual change decreasing 20'
KL 9+500 mE
KL 10+050 mE
KL 10+100 mE
BRX 9+500 mE
BRX 10+600 mE
382,000
383,000
6,890,000
6,889,000
6,888,000
384,000
385,000
386,000
WESTERN KLAZA
WESTERN BYG
WESTERN BRX
CENTRAL BRX
CENTRAL PIKA
HERC
BYG
AEX
PEARL
DICKSON
CHEVRON
EASTERN KLAZA
STROSHEIN EASTERN BRX
FAR EASTERN KLAZA
REX
KL-19-455
KL-19-459
KL-19-462
KL-19-436
KL-19-439
KL-19-443
KL-19-449
KL-19-465
KL-19-467
SEE INSET
A
A'
B
B'
C
C'
D
D'
E
E'
INSET
KL-19-441
KL-19-440
KL-19-444
KL-19-442
KL-19-445
KL-19-446
KL-19-438
KL-19-464
KL-19-466
KL-19-447
KL-19-461
KL-19-435
KL-19-437
KL-19-450
KL-19-460
KL-19-448
KL-19-451
KL-19-463
KL-19-458
KL-19-452
KL-19-454
KL-19-456
KL-19-457
KL-19-453
KL-19-465
KL-19-467
0
400
meters
2019 diamond drill hole
2010-2017 diamond drill hole
Fault
Mineralized zone
KL 9+500 mE
Section line
ROCKHAVEN RESOURCES LTD.
FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL HOLES
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
metres
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: Feb 2020


035°
Looking Northwest
1400
1300
1200
1100
Elevation in metres above sea level
KL-14-238
KL-15-274
KL-14-229
KL-14-192
KL-12-069
KL-14-147
KL-15-264
KL-14-143
KL-14-154
2.42 g/t Au , 31.30 g/t Ag
1.00 m
66.20 g/t Au , 403 g/t Ag
1.00 m
28.9 g/t Au , 669 g/t Ag
1.65 m
7.36 g/t Au , 225 g/t Ag
4.59 m
18.7 g/t Au , 489 g/t Ag
1.05 m
5.79 g/t Au , 40.20 g/t Ag
1.82 m
8.92 g/t Au , 63.5 g/t Ag
0.90 m
10.9 g/t Au , 94.7 g/t Ag
0.33 m
9.97 g/t Au , 471 g/t Ag
1.26 m
2.19 g/t Au , 120 g/t Ag
18.50 m
16.29 g/t Au , 1435 g/t Ag
1.37 m
102.72 m
153.92 m
166.12 m
169.77 m
221.59 m
276.46 m
320.04 m
425.81 m
559.92 m
WESTERN BRX ZONE
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 26
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 9+500 mE
WESTERN BRX ZONE
KLAZA PROPERTY
0
150
meters
File: 2019/.../Klaza Assessment 2019
DATE: May 2018


1500
1400
1300
1200
1100
Elevation in metres above sea level
035°
Looking Northwest
KL-12-097
KL-14-213
KL-11-024
KL-14-211
KL-12-089
A
A'
TRENCH-10-14
3.84 g/t Au / 43.20 g/t Ag
2.20 m
2.53 g/t Au / 133 g/t Ag
1.50 m
90.53 m
102.72 m
3.23 g/t Au / 25.00 g/t Ag
0.30 m
AEX ZONE
1.57 g/t Au / 4.26 g/t Ag
2.55 m
221.59 m
7.79 g/t Au / 128 g/t Ag
1.10 m
3.15 g/t Au / 72.00 g/t Ag
1.37 m
CENTRAL BRX ZONE
PIKA ZONE
361.80 m
402.02 m
13.05 g/t Au / 17.65 g/t Ag
1.31 m
ROCKHAVEN RESOURCES LTD.
FIGURE 27
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 10+600 mE
CENTRAL BRX ZONE
KLAZA PROPERTY
0
100
meters
File: 2019/.../Klaza Assessment 2019
DATE: March 2020
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred



ROCKHAVEN RESOURCES LTD.

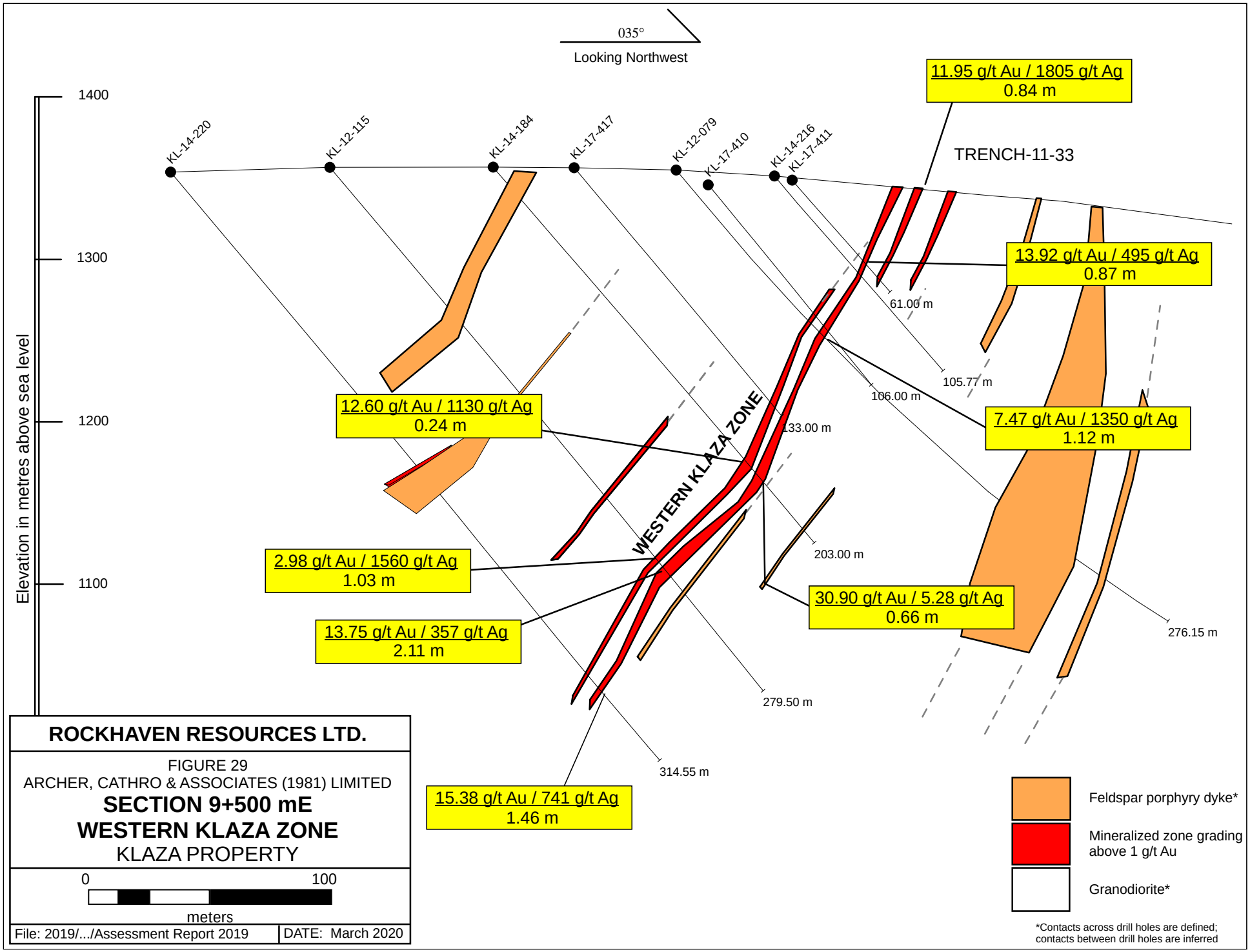
FIGURE 28

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 9+925 mE
EASTERN ZONES

KLAZA PROPERTY

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020



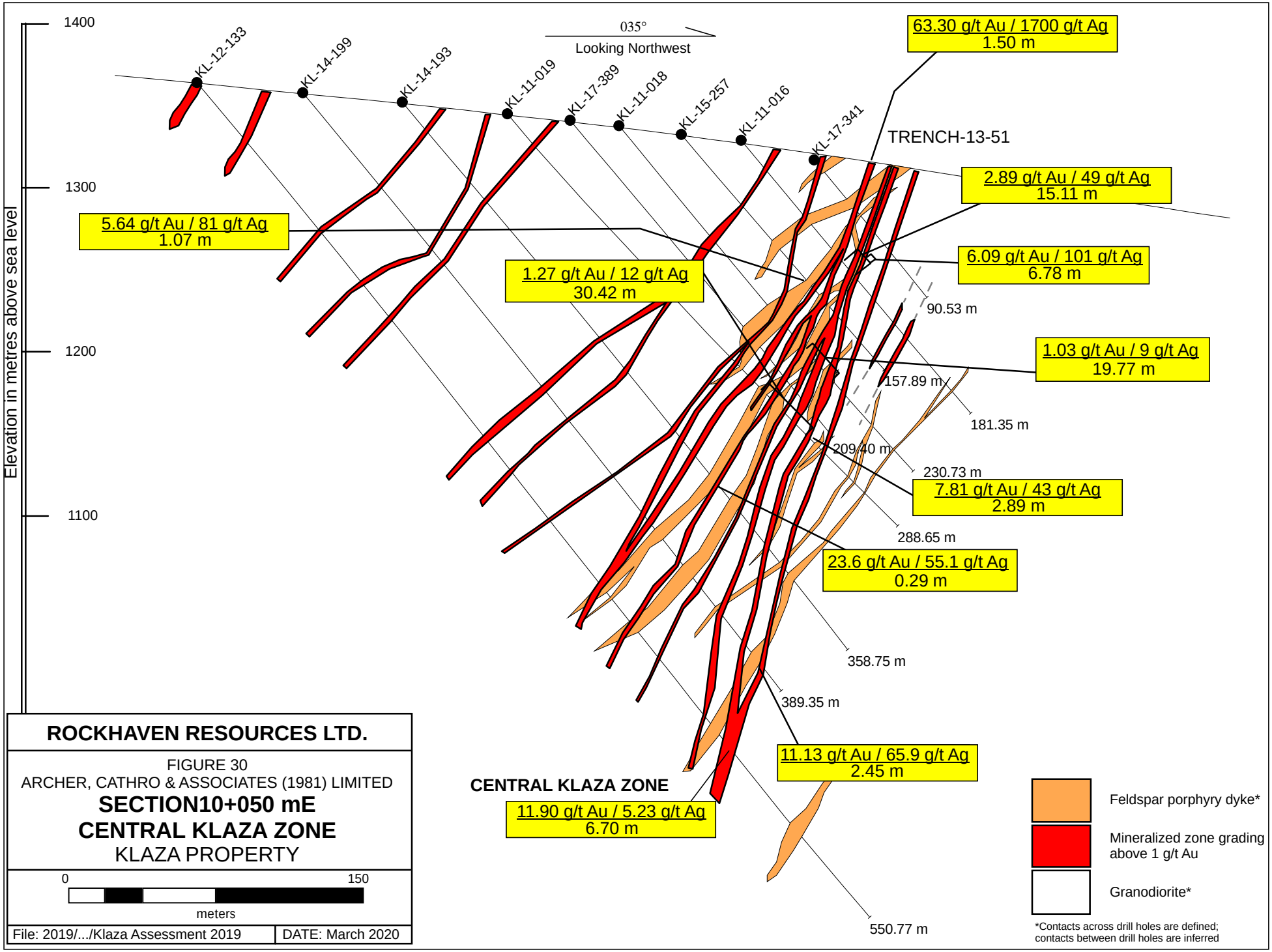
ROCKHAVEN RESOURCES LTD.

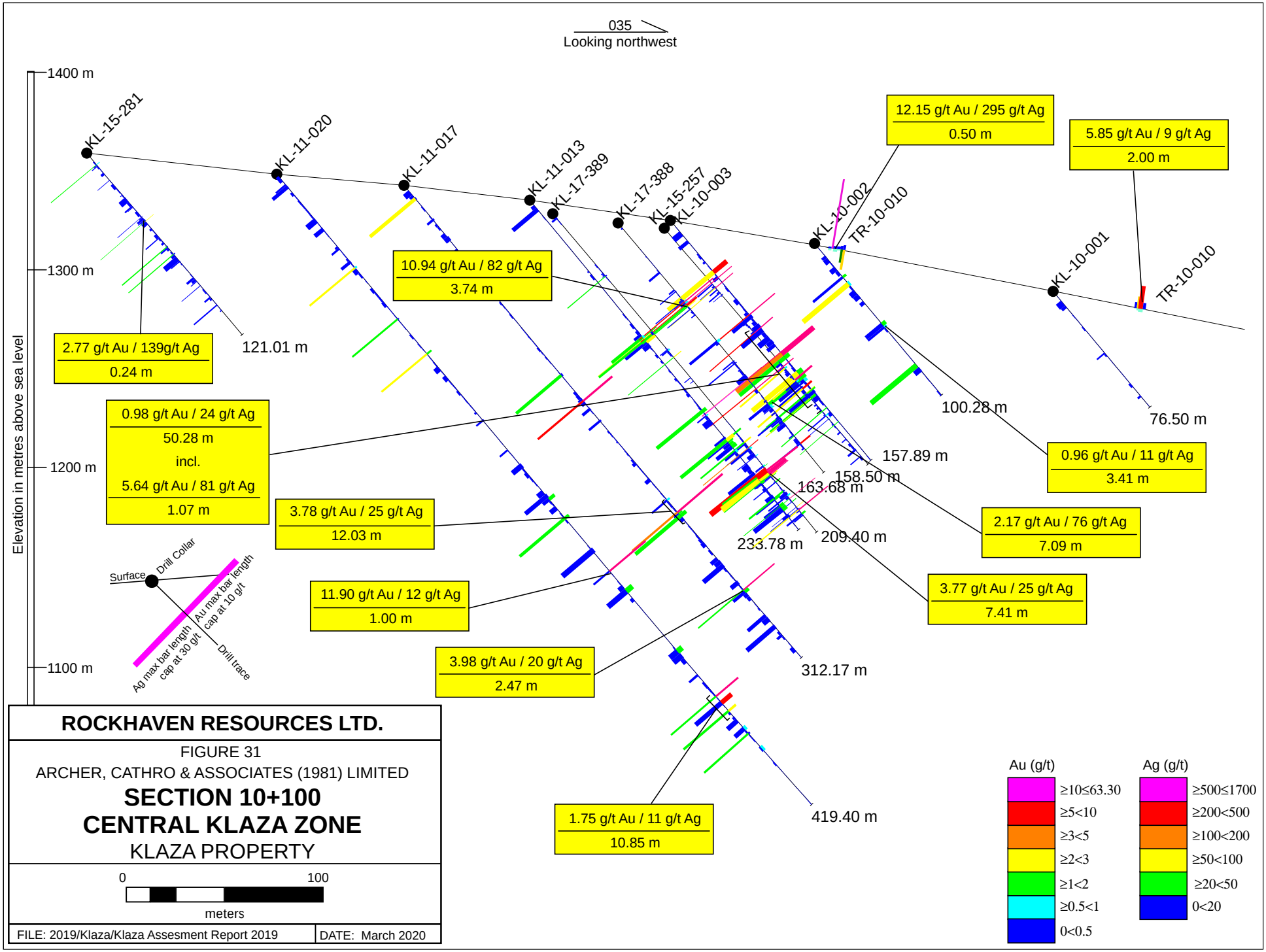
FIGURE 29
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 9+500 mE
WESTERN KLAZA ZONE
KLAZA PROPERTY

0 100
meters

File: 2019/.../Assessment Report 2019 | DATE: March 2020


1400
1300
1200
1100
Elevation in metres above sea level
035°
Looking Northwest
KL-12-133
KL-14-199
KL-14-193
KL-11-019
KL-17-389
KL-11-018
KL-15-257
KL-11-016
KL-17-341
TRENCH-13-51
63.30 g/t Au / 1700 g/t Ag
1.50 m
2.89 g/t Au / 49 g/t Ag
15.11 m
5.64 g/t Au / 81 g/t Ag
1.07 m
6.09 g/t Au / 101 g/t Ag
6.78 m
1.27 g/t Au / 12 g/t Ag
30.42 m
90.53 m
1.03 g/t Au / 9 g/t Ag
19.77 m
157.89 m
181.35 m
209.40 m
230.73 m
7.81 g/t Au / 43 g/t Ag
2.89 m
288.65 m
23.6 g/t Au / 55.1 g/t Ag
0.29 m
358.75 m
389.35 m
11.13 g/t Au / 65.9 g/t Ag
2.45 m
CENTRAL KLAZA ZONE
11.90 g/t Au / 5.23 g/t Ag
6.70 m
550.77 m
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 30
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION10+050 mE
CENTRAL KLAZA ZONE
KLAZA PROPERTY
0
150
meters
File: 2019/.../Klaza Assessment 2019
DATE: March 2020



ROCKHAVEN RESOURCES LTD.

FIGURE 31

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

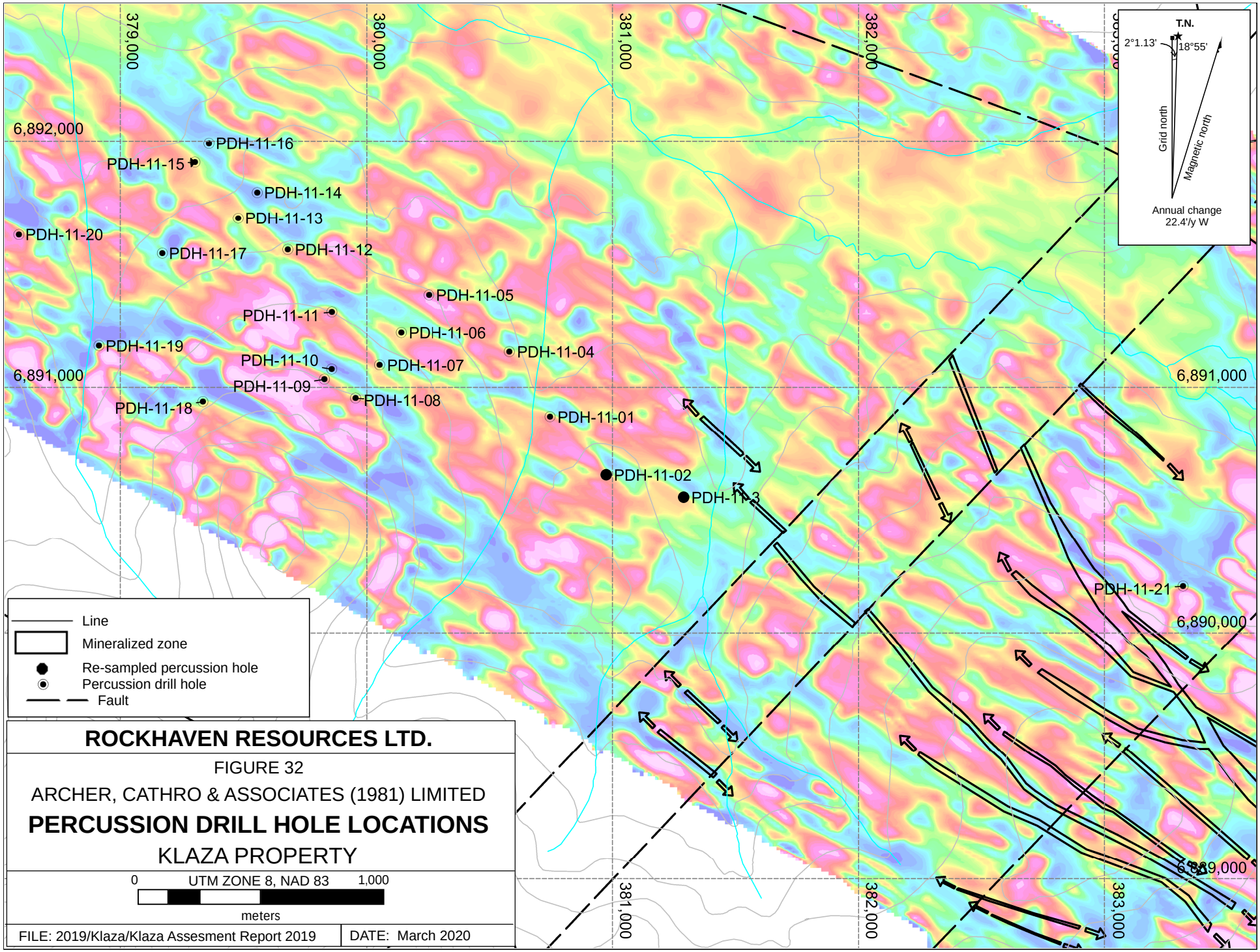
SECTION 10+100
CENTRAL KLAZA ZONE

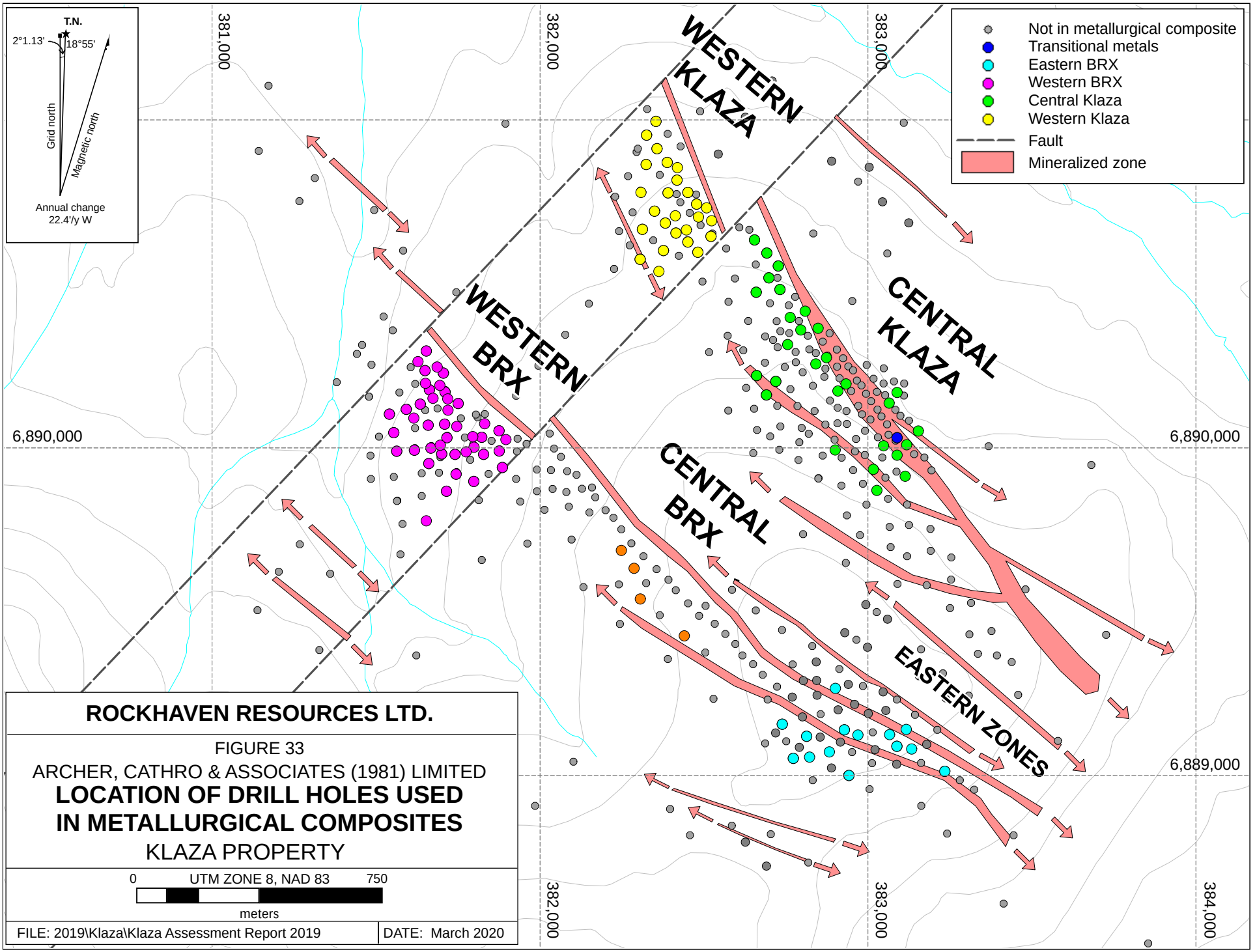
KLAZA PROPERTY

0 100

meters

FILE: 2019/Klaza/Klaza Assesment Report 2019 | DATE: March 2020


379,000
380,000
381,000
382,000
383,000
6,892,000
6,891,000
6,890,000
6,889,000
PDH-11-16
PDH-11-15
PDH-11-14
PDH-11-13
PDH-11-20
PDH-11-17
PDH-11-12
PDH-11-05
PDH-11-11
PDH-11-06
PDH-11-19
PDH-11-10
PDH-11-07
PDH-11-04
PDH-11-09
PDH-11-18
PDH-11-08
PDH-11-01
PDH-11-02
PDH-11-3
PDH-11-21
T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change
22.4'/y W
Line
Mineralized zone
Re-sampled percussion hole
Percussion drill hole
Fault
ROCKHAVEN RESOURCES LTD.
FIGURE 32
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PERCUSSION DRILL HOLE LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,000
meters
FILE: 2019/Klaza/Klaza Assesment Report 2019
DATE: March 2020


T.N.
2°1.13'
18°55'
Grid north
Magnetic north
Annual change
22.4'/y W
381,000
382,000
383,000
384,000
6,890,000
6,889,000
WESTERN KLAZA
WESTERN BRX
CENTRAL KLAZA
CENTRAL BRX
EASTERN ZONES
Not in metallurgical composite
Transitional metals
Eastern BRX
Western BRX
Central Klaza
Western Klaza
Fault
Mineralized zone
ROCKHAVEN RESOURCES LTD.
FIGURE 33
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LOCATION OF DRILL HOLES USED IN METALLURGICAL COMPOSITES
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
750
meters
FILE: 2019\Klaza\Klaza Assessment Report 2019
DATE: March 2020