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ASSESSMENT REPORT

describing

**SOIL SAMPLING AND
EXCAVATOR TRENCHING**

at the

VAL PROPERTY

VAL 1-9	YC25903-YC25911
10-11	YE85801-YE85802
12F-15F	YE85803-YE85806

NTS 115I/03

Latitude 62°04'N; Longitude 137°07'W

located in the

Whitehorse Mining District
Yukon Territory

Field work performed June-September 2012

prepared by

Archer, Cathro & Associates (1981) Limited

For

ROCKHAVEN RESOURCES LTD.

By

X. Montague, BSc (Hons), GIT

April 2013

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INTRODUCTION

The Val property lies within the Mount Nansen District of the Dawson Range Gold Belt, in southwestern Yukon. It hosts gold, silver, lead, and zinc soil geochemical anomalies and weakly mineralized gougy veins, which are likely associated with a large hydrothermal system that deposited veins and porphyry style mineralization elsewhere in the district. The property is owned 100% by Rockhaven Resources Ltd (Rockhaven).

This report summarizes work completed at various times between June 10 and September 18 2012. The work program comprised soil sampling and excavator trenching, conducted by Archer, Cathro & Associates (1981) Limited on behalf of Rockhaven.

The author interpreted all data from this project and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The property is located in southwestern Yukon at latitude 62°04'N and longitude 137°07'W on NTS map sheet 115I/03 (Figure 1). It consists of nine contiguous mineral claims registered with the Whitehorse Mining Recorder. Rockhaven can earn a 100% interest in the claims, subject to an option agreement with Mr. Bill Trerice, an arms-length prospector. A detailed ground claim survey discovered open fractures not previously identified by the Yukon Mining Recorder. Figure 2 shows recorded claim block locations and actual claim block locations. Claims Val 10, 11, and 12F-15F (inclusive) were staked September 18, 2012 to cover these fractions. Rockhaven intends to do a detailed claim survey of the surrounding claims to confirm each location. Claim registration information is listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
VAL 1-9	YC25903-YC25911	February 24, 2018
10-11	YE85801-YE85802	February 24, 2018
12F-15F	YE85803-YE85806	February 24, 2018

*Expiry dates include 2012 work which has been filed for assessment credit but not yet accepted.

The Val property is located 44 km due west of Carmacks and can be accessed in summer and fall with two wheel drive vehicles, via the Mount Nansen Road. This road is maintained year-round by the Yukon Territorial Government up to the former Mount Nansen mine site and from there it is another two kilometers by dirt road to the property. Carmacks is situated on the Klondike Highway, 185 km north-northwest of Whitehorse, Yukon's capital and main supply centre, and 420 km north-northwest of Skagway, a year-round tidewater port in Alaska.

The 2012 work program was done from Rockhaven's Klaza camp, a seasonal exploration camp located eight kilometers northwest of the property along the Mount Nansen Road. An active placer mine operates along the banks of Back Creek in the southern part of the property.

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FIGURE 1 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **PROPERTY LOCATION** VAL PROPERTY

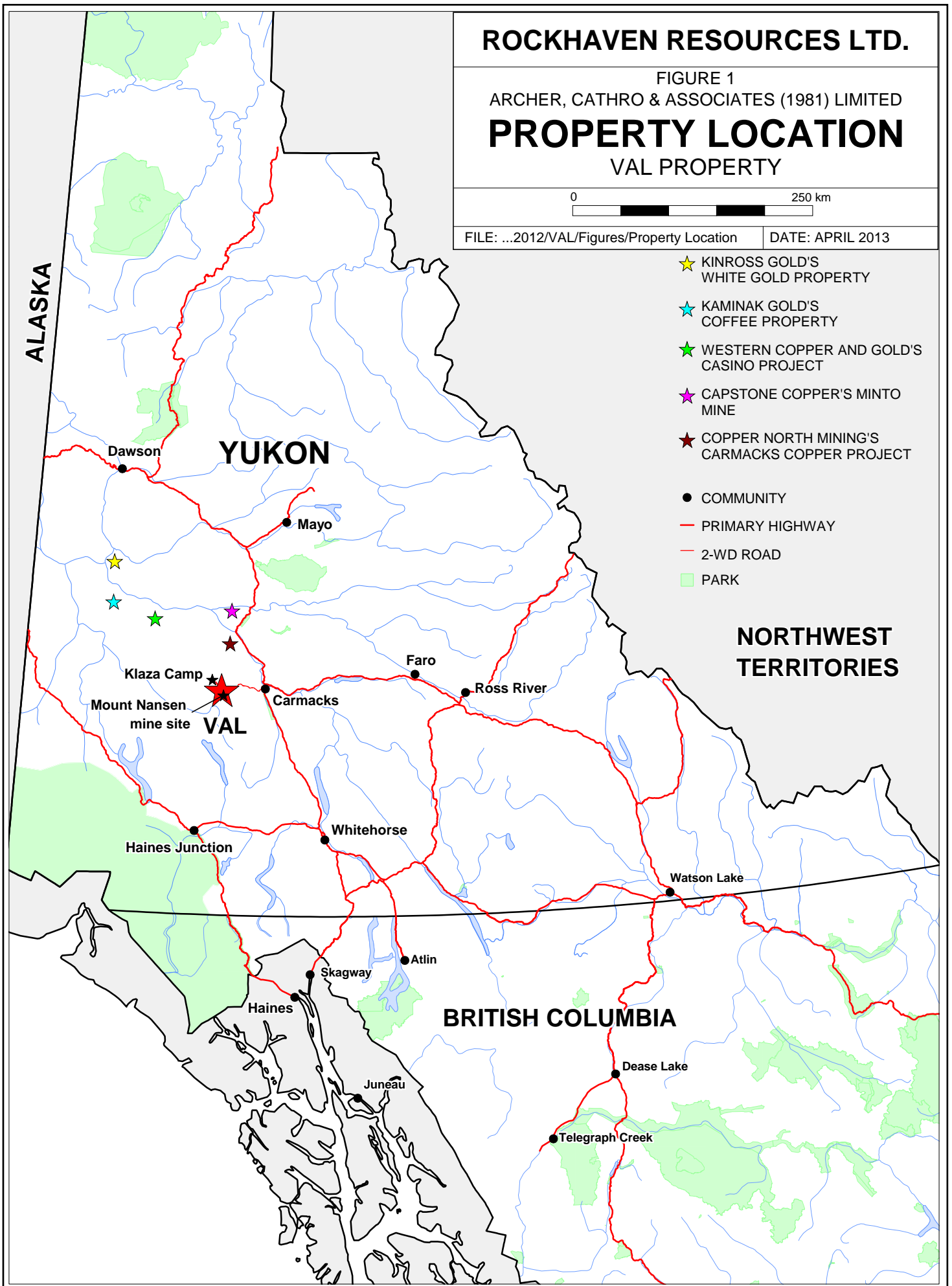
0 250 km

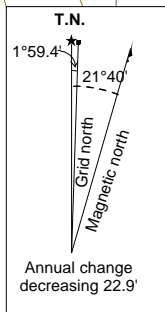
FILE: ...2012/VAL/Figures/Property Location

DATE: APRIL 2013

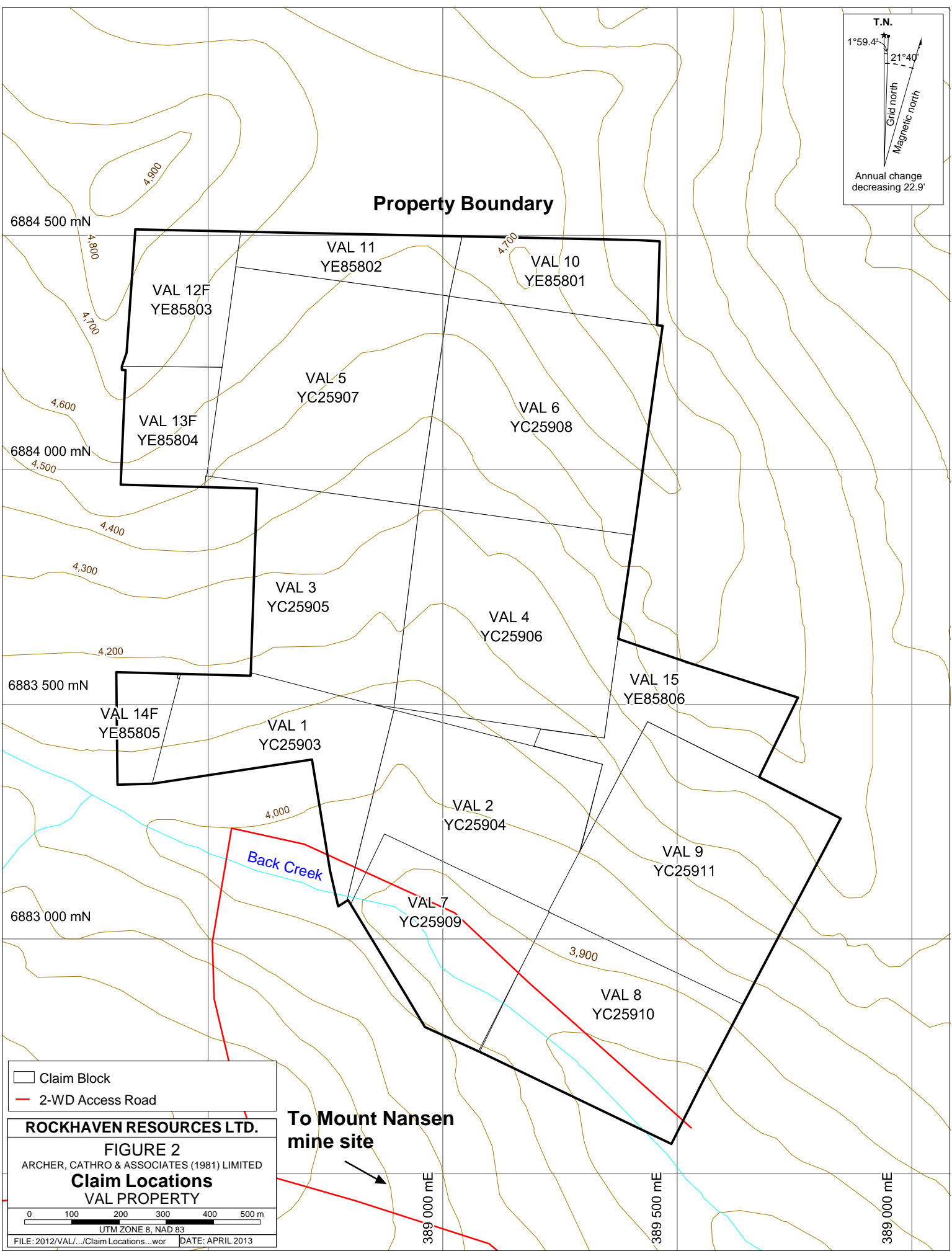
- ★ KINROSS GOLD'S WHITE GOLD PROPERTY
- ★ KAMINAK GOLD'S COFFEE PROPERTY
- ★ WESTERN COPPER AND GOLD'S CASINO PROJECT
- ★ CAPSTONE COPPER'S MINTO MINE
- ★ COPPER NORTH MINING'S CARMACKS COPPER PROJECT

- COMMUNITY
- PRIMARY HIGHWAY
- 2-WD ROAD
- PARK





Property Boundary



Claim Block
 2-WD Access Road

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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Claim Locations
VAL PROPERTY

0 100 200 300 400 500 m

UTM ZONE 8, NAD 83

FILE: 2012\VAL\...Claim Locations...wor DATE: APRIL 2013

To Mount Nansen mine site

HISTORY AND PREVIOUS WORK

Placer gold was first discovered in the district in 1899 on Nansen Creek, and the area was first mapped by the Geological Survey of Canada in 1936. The first recorded lode gold discovery in the district was made by prospectors Brown and McDade in 1943 about two kilometers south of the property on lands that are now managed by Assessment and Abandoned Mines, a department of the Government of Yukon.

In 1943 to 1944 nearby claims were held by Yukon Range Exploration Ltd (Conwest, Frobisher, & Nova-co Exploration Ltd), Nansen Yukon Mines Ltd and Colery Yukon Mines Ltd (YGS Minfile 115I 065). The area of the current property was first staked as the Billy claims by G. Dickson. In 1958, Asbestos Corporation (Exploration) Ltd optioned these claims and performed a program that included mapping, two bulldozer trenches and eight packsack drill holes totalling 122.8 m. The trenching exposed a quartz-feldspar porphyry dyke 500 m southwest of the Val property, while the drill core contained intense kaolinization and sericitization, hosting galena and pyrite (Robinson, 1959).

From 1964 to 1966 Peso Silver Mines Ltd (Peso) acquired Mount Nansen Mines Ltd and explored the Webber and Huestis Veins with 2,107 m of underground development and 2,226 m of diamond drilling. Canadawide Investments Ltd (Swiss financing) acquired control of Mount Nansen Mines Ltd and began production of the Huestis vein in 1968. A total of 976 m of drifting was completed and a 163 t mill was operated from September 1968 to April 1969. Production comprised 85,133 g Au, 2,625 g Ag and 49,207 kg Pb. Peso reopened the mine in 1975, and during 1976 it mined 7,451 t of rock and milled 5,844 t of ore grading about 10.3 g/t Au, 240.1 g/t Ag, 1.0% Pb and 1.0% Zn. In 1979, Peso became Rex Silver Mines Ltd and in 1980 it transferred the property to Schweizerische Gesellschaft. Nansen Mining Corporation (Nansen) acquired the property in 1981. Nansen conducted a feasibility study in 1983, before selling the property in 1984 to BYG Natural Resources Inc. (YGS Minfile 115I 065).

In 1981 and 1985 the area was re-staked as the DD claims and the ONT claims, respectively, for BYG Natural Resources Inc. (BYG). Chevron Minerals Ltd (Chevron) optioned claims covered much of the Mount Nansen District in late 1985 from BYG and from 1986 to 1988 completed exploration programs that comprised mapping, soil geochemistry, geophysical surveys, trenching, and diamond drilling. These programs included a soil geochemical survey that identified a multi-element anomaly (Au, Ag, Zn, Sb, As, Cd, Bi, Cu, Mo, and Ag) trending north-northwest across the current Val property. Chevron dropped its option in late 1988.

BYG mined the Brown-McDade gold-silver deposit from 1996-1999. The mine operated as an open-pit, producing approximately 1,063,107 g Au and 4,025,632 g Ag (Stroshein, 2001). It shut down in the spring of 1999, due to the violation of its water licence, and went into receivership in May 1999. The federal government took over mine-site maintenance in July 1999 and declared the property abandoned in August 1999. The Government of Yukon accepted responsibility of the site in 2003 and later sold off mineral claims surrounding the mine site.

Mr. Trerice staked the Val claims in 2003 in conjunction with his placer activities along Back Creek. 38857 Yukon Inc. currently owns the placer claims on Back Creek.

Rockhaven signed an option agreement with Mr. Terice on September 21, 2011, acquiring the right to earn a 100% interest in the Val property.

GEOMORPHOLOGY

The property is located on a south-facing moderately sloped hill that drains into Back Creek, which is part of the Yukon River watershed. The area escaped Pleistocene continental glaciation but experienced some local Pleistocene to Holocene valley and alpine glaciation. Elevations on the property range from 1150 to 1430 m, with outcrops restricted to topographic highs. Overburden consists of a few centimetres of organics, 0-5 cm of volcanic ash and up to 200 cm of loess overlying immature soil mixed with rock fragments that are derived from deeply weathered bedrock. The Back Creek valley bottom is blanketed by thick glaciofluvial outwash and till. Most overburden on the property contains permafrost that thaws 1-2 m below surface in the summer months (Eaton and Archer, 1989).

The tree line is at 1200 m on north facing slopes and 1400 m on south facing slopes. Typical vegetation consists of willow, alder and black spruce at lower elevations, giving way to dwarf birch, alder and stunted spruce at higher elevations.

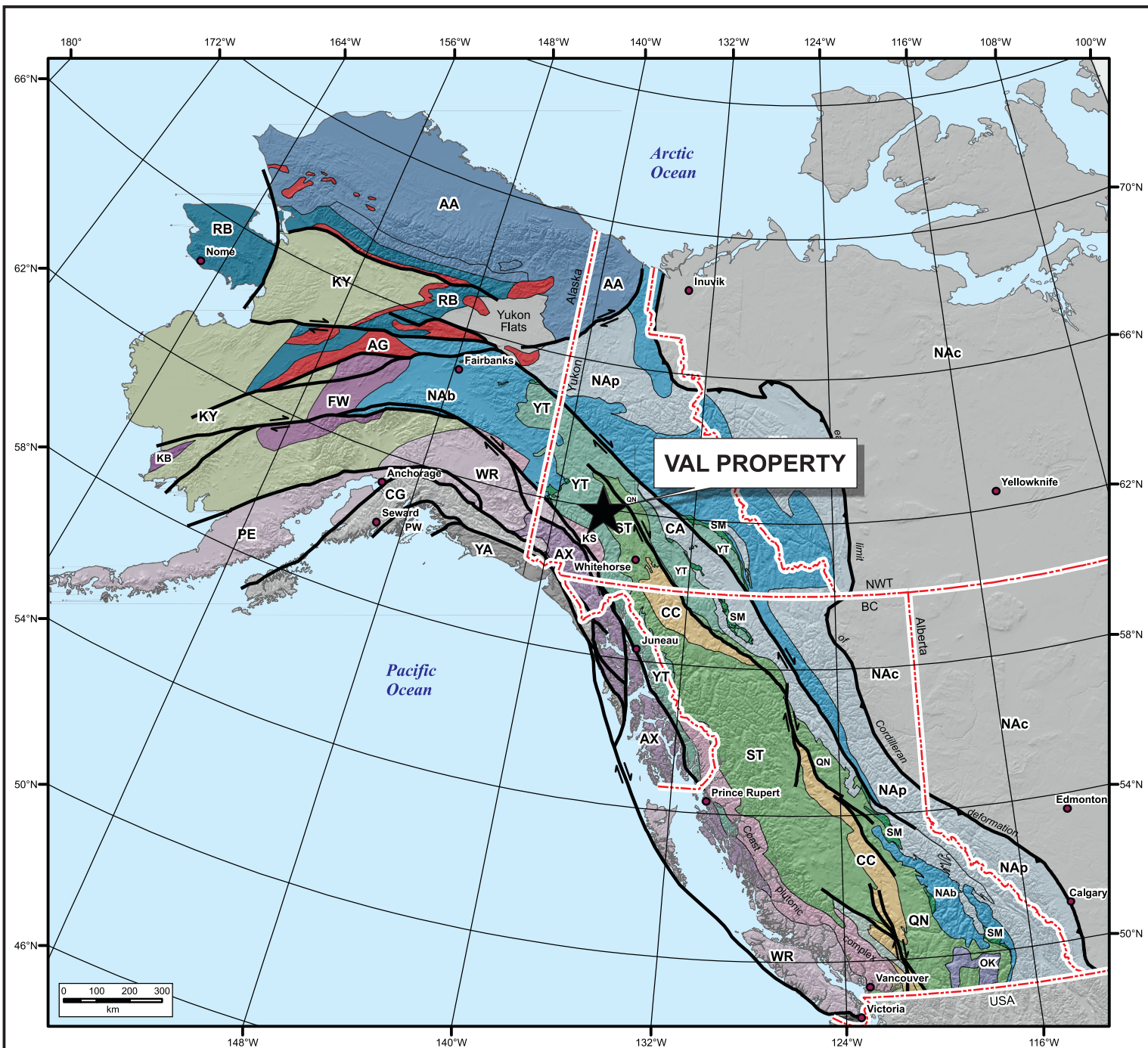
The area has a continental climate with low levels of precipitation and a wide temperature range. Summers are generally mild with extended daylight hours, whereas winters are long and cold. The property is generally snow-free from late May to early October.

REGIONAL GEOLOGY

The Mount Nansen District was visited by J.B. Tyrrell and D.D. Cairnes for the Geological Survey of Canada in 1898 and 1914, respectively, and has been mapped by H.S. Bostock (1936), D.J. Tempelman-Kluit (1974 and 1984) and G.G. Carlson (1987). The regional geologic maps were revised in a compilation by Gordey and Makepeace (2000) and are periodically updated by Yukon Geologic Survey (YGS). The following discussion is based on current YGS maps (YGS, 2013).

The Val property is located within the Yukon-Tanana Terrane (YTT) approximately 100 km southwest of the Tintina Fault (Figure 3). YTT comprises a variety of Late Devonian to Early Mississippian metavolcanic and metasedimentary rocks, and represents both arc and back-arc environments (Colpron et al., 2006; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that experienced about 450 km of dextral strike-slip movement since the Late Cretaceous. This movement offset an outlier of YTT in the Finlayson Lake District of southeastern Yukon from the main body of YTT, which lies southwest of the fault.

Regional stratigraphy in the area of the Val property is summarized in Table I. The basement rocks near the property are mainly schists and gneisses, which include meta-plutonic gneisses (Pelly Gneiss), metasedimentary and lesser metavolcanic rocks (Nisling) and metamorphosed mafic and ultramafic rocks (Amphibolite). Basement rocks were deformed, metamorphosed and intruded by foliated plutonic rocks (Long Lake Suite) in the Jurassic. The youngest rocks in the area are unfoliated and represent four plutonic/volcanic events that occurred between the Lower



- | | | |
|-----------|---------------------------|------------------------|
| YA | Yakutat | Outboard |
| PW | Prince William | |
| CG | Chugach | |
| PR | Pacific Rim | |
| CR | Crescent | |
| KY | Koyukuk, Nyak, Togiak | Insular |
| PE | Peninsular | |
| AX | Alexander | |
| WR | Wrangellia | |
| KS | Kluane, Windy, Coast | |
| AG | Angayucham/Tozitna/Innoko | Northern Alaska |
| AA | Arctic-Alaska, Hammond | |
| RB | Coldfoot, Ruby, Seward | |
| FW | Farewell | |
| KB | Kilbuck | |

- | | | |
|-----------|----------------|---------------------|
| MT | Methow | Intermontane |
| CD | Cadwallader | |
| BR | Bridge River | |
| CC | Cache Creek | |
| HA | Harrison | |
| CK | Chilliwack | |
| ST | Stikinia | |
| QN | Quesnellia | |
| OK | Okanagan | |
| YT | Yukon-Tanana | |
| SM | Slide Mountain | |

- | | |
|--------------------------------|--------------------------------|
| Ancestral North America | |
| CA | Cassiar |
| NAb | North America - basal |
| NAp | North America - platform |
| NAc | North America - craton & cover |

Taken from Colpron, M. and Nelson, J.L., 2011

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



TECTONIC SETTING

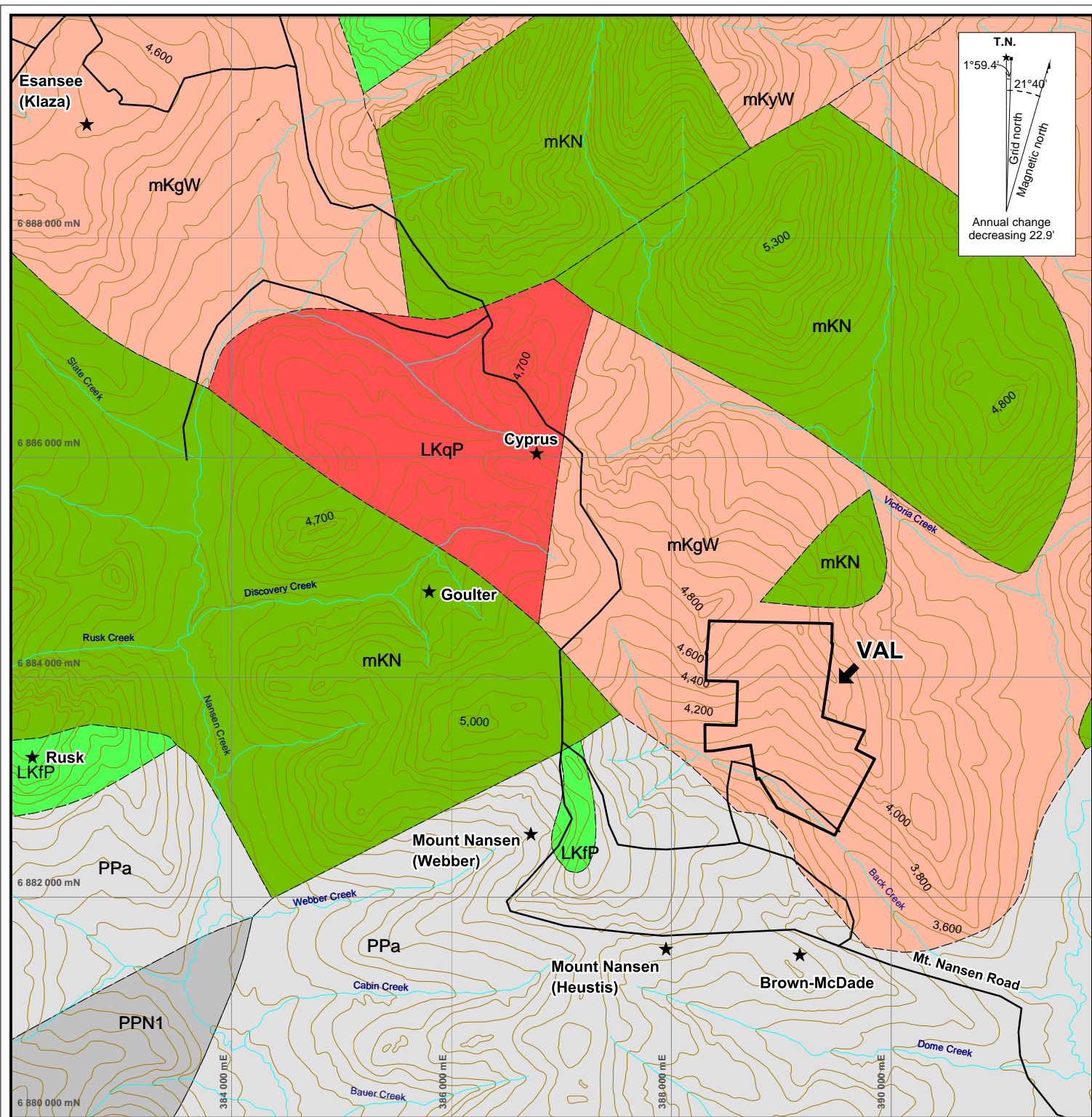
VAL PROPERTY

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Cretaceous and Tertiary (Whitehorse Suite, Mount Nansen, Prospector Mountain Suite and Carmacks). Geology in the vicinity of the Val property is shown on Figure 4.

Table I – Regional Lithologies

UPPER CRETACEOUS	
 uKC	<p>uKC: CARMACKS a volcanic succession dominated by basic volcanic strata (1), but including felsic volcanic rocks dominantly (?) at the base of the succession (2) and locally, basal clastic strata (3) (70 ma approx):</p> <ol style="list-style-type: none"> 1. augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks (Carmacks Gp., Little Ridge Volcanics, Casino Volcanics) 2. acid vitric crystal tuff, lapilli tuff and welded tuff including feeder plugs and necks; felsic volcanic flow rocks and quartz feldspar porphyries; green and purple massive tuff-breccia with feldspar phyric fragments (Carmacks Gp., Donjek Volcanics, some rocks formerly mapped as Mount Nansen Gp.; the felsic part of the Carmacks Gp. is difficult to distinguish from similar Tertiary and Mid-Cretaceous (Mount Nansen) felsic volcanic strata) 3. medium bedded, poorly sorted, coarse to fine grained sandstone, pebble conglomerate, shale, tuff, and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate (Carmacks Gp.)
LATE CRETACEOUS TO TERTIARY	
 LKP	<p>LKP: PROSPECTOR MOUNTAIN SUITE grey, fine to coarse grained, massive, granitic rocks of felsic (q), intermediate (g) and rarely mafic (d) composition plus related felsic dykes (f):</p> <ol style="list-style-type: none"> q. quartz monzonite, biotite quartz rich granite; porphyritic alaskite and granite with plagioclase and quartz-eye phenocrysts; biotite and hornblende quartz monzodiorite, granite, and leucocratic granodiorite with local alkali feldspar phenocrysts (Prospector Mountain Suite, Carcross Pluton) g. hornblende-biotite granodiorite, hornblende diorite, quartz diorite (Wheaton Valley Granodiorite) d. coarsely crystalline gabbro and diorite f. quartz-feldspar porphyry



T.N.
 1°59.4'
 21°40'
 Grid north
 Magnetic north
 Annual change decreasing 22.9'

- LKfP Prospector Mountain suite, volcanic
- LKqP Prospector Mountain suite, porphyry
- mKN Mount Nansen, volcanic
- mKgW Whitehorse suite, granodiorite/quartz diorite
- mKyW Whitehorse suite, syenite/granite/granodiorite
- PPa Amphibolite
- PPN1 Nisling, schist
- ★ Minfile Occurrence

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

VAL PROPERTY

0 1000 m

FILE: ...2012/VAL/F4 Property Geology DATE: APRIL 2013

MID-CRETACEOUS**mKN****mKN: MOUNT NANSEN**

massive aphyric or feldspar-phyric andesite to dacite flows, breccia and tuff; massive, heterolithic, quartz- and feldspar-phyric, felsic lapilli tuff; flow-banded quartz-phyric rhyolite and quartz-feldspar porphyry plugs, dykes, sills and breccia (**Mount Nansen Gp., Byng Creek Volcanics, Hutshi Gp.**)

MID-CRETACEOUS**mKW****mKW: WHITEHORSE SUITE**

grey, medium to coarse grained, generally equigranular granitic rocks of felsic (q), intermediate (g), locally mafic (d) and rarely syenitic (y) composition:

- q. biotite quartz-monzonite, biotite granite and leucogranite, pink granophyric quartz monzonite, porphyritic biotite leucogranite, locally porphyritic (K-feldspar) hornblende monzonite to syenite, and locally porphyritic leucocratic quartz monzonite (**Mount McIntyre Suite, Whitehorse Suite, Casino Intrusions, Mount Ward Granite, Coffee Creek Granite**)
- g. biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts (**Whitehorse Suite, Casino Granodiorite, McClintock Granodiorite, Nisling Range Granodiorite**)
- d. hornblende diorite, biotite-hornblende quartz diorite and mesocratic, often strongly magnetic, hypersthene-hornblende diorite, quartz diorite and gabbro (**Whitehorse Suite, Coast Intrusions**)
- y. hornblende syenite, grading to granite or granodiorite (**Whitehorse Suite**)

EARLY JURASSIC**EJL****EJL: LONG LAKE SUITE**

mostly felsic granitic rocks (q) but locally grading to syenitic (y):

- q. massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite, including abundant pegmatite and aplite phases; commonly K-feldspar megacrystic (**Long Lake Suite**)
- y. resistant, dark weathering, massive, coarse to very coarse grained and porphyritic, mesocratic hornblende syenite; locally sheared, commonly fractured and saussuritized; locally has well developed layering of aligned pink K-feldspar tablets (**Big Creek Syenite**)

PROTEROZOIC AND PALEOZOIC

PPa

PPa: AMPHIBOLITE

metamorphosed mafic rocks including amphibolite (1) and ultramafic rocks (2) of unknown association; i.e. may belong in part or entirely to Nisling, Nasina, and Slide Mountain assemblages and (3), mafic-ultramafic intrusions within Nasina assemblage

LATE DEVONIAN TO MISSISSIPPIAN

DMPW

DMPW: PELLY GNEISS SUITE

variably deformed granitic rocks of predominantly felsic (q) to intermediate composition (g) southwest of Tintina Fault:

- q. foliated equigranular medium grained muscovite quartz monzonite; moderately to strongly foliated K-feldspar augen bearing quartz monzonitic to granitic gneiss (**S. Fiftymile Batholith, Mount Burnham Orthogneiss**)
- g. foliated medium grained, homogeneous biotite granite gneiss to biotite or hornblende granodiorite gneiss; massive to strongly foliated dioritic to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite (**Selwyn Gneiss, Pelly Gneiss, N. Fiftymile Batholith, Moose Creek Orthogneiss**)

LATE PROTEROZOIC AND PALEOZOIC

PPN

PPN: NISLING ASSEMBLAGE

assemblage characterized by mica quartz feldspar schist (1) and abundant locally thick limestone (2) members; includes possibly equivalent strata northeast of Tintina Fault(3):

1. dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor (?) two-mica gneiss and hornblende diorite gneiss; may include Nasina assem. (**Nisling assemblage.**)
2. bleached white weathering, white to grey, coarsely crystalline, flow banded, fetid marble; graphite, chert, metabasite and calcsilicate lamina are common (**Nisling assemblage**)
3. calcareous quartz psammite, marble, calcareous chlorite-biotite schist and calcsilicate; calcareous garnet-biotite-muscovite schist, rare amphibolite; biotite-quartz-muscovite schist and lesser quartz-feldspar-muscovite augen schist (**assignment uncertain, could belong to Nasina assemblage**)

PROPERTY GEOLOGY

The property is mostly underlain by a biotite-hornblende granodiorite stock, which is assigned to the Mid-Cretaceous, Whitehorse Suite. The granodiorite contains up to 30% hornblende and biotite, is coarse grained and is non-foliated. Exposures of the granodiorite are due to placer activity and are limited to the banks of Back Creek. The granodiorite is locally capped by the Mount Nansen Suite, volcanic rocks that are exposed on topographic highs.

MINERALIZATION

The Val property lies within the Mount Nansen District, a northwest trending structural corridor that hosts more than 30 known mineral occurrences. Mineralization within the district exhibits zonation outward from a weakly mineralized porphyry copper zone (Cyprus on Figure 4) to flanking mesothermal and epithermal veins (Brown-McDade, Mount Nansen – Huestis and Webber, Rusk and Esensee – Klaza on Figure 4). The hydrothermal system associated with the mineralization is centered around potassic alteration cores related to a porphyry complex, belonging to the Prospector Mountain Suite (Hart and Langdon, 1997).

TRENCHING

In June 2012, a Komatsu 400 excavator, contracted from of 15317 Yukon Ltd of Whitehorse, dug a 36.10 m long trench (TR-12-01) exposing bedrock, adjacent to placer workings on the north flank of Back Creek (Figure 5).

Two 2-3 m wide, weakly mineralized gougy veins were identified, which strike 020°, dip steeply to the east, and cut the granodiorite (Figure 6). A total of 13 weathered chip samples were collected. Sampling and Analytical Procedures for rock samples are described in Appendix II while Certificate of Analysis is in Appendix III. The best results are listed in Table II.

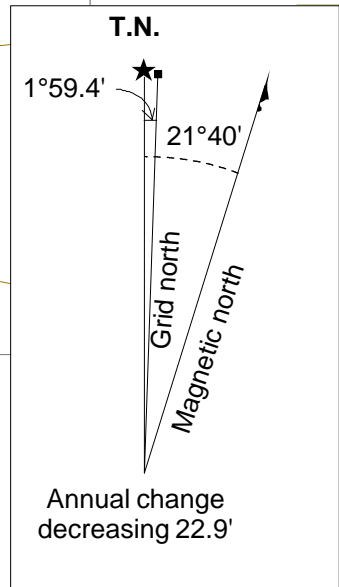
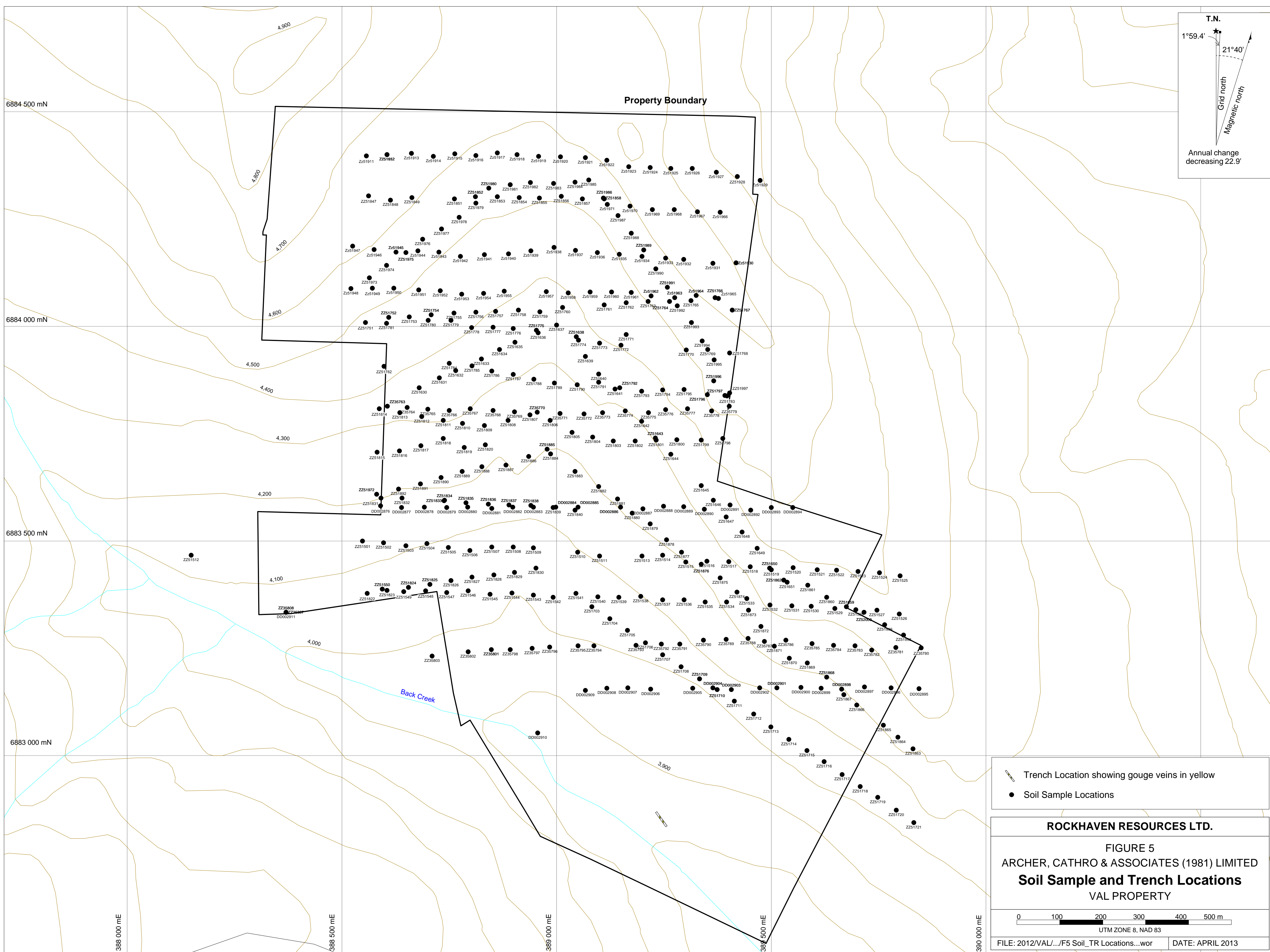
Table II – Significant Trench Results



Trench	Vein	From (m)	To (m)	Length (m)	Gold (g/t)	Silver (g/t)
TR-12-01	V1	9.00	12.00	3.00	0.113	1.66
TR-12-01	V2	23.35	24.87	1.52	0.055	3.25

SOIL GEOCHEMICAL SAMPLING

The soil geochemical survey conducted in 2012 was designed to explore for possible northwestern trending mineralized veins, similar to those elsewhere in the Mount Nansen District. A total of 392 soil samples were taken at 50 m intervals along west to east trending lines spaced 100 apart or along contour lines spaced 75 m vertically apart.

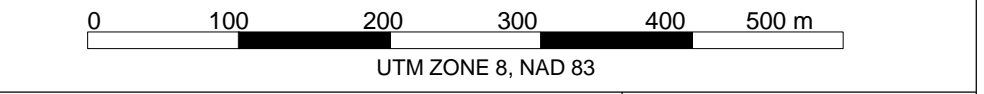
Sampling and Analytical Procedures for the soil samples are described in Appendix II while Certificates of Analyses are provided in Appendix III. The 2012 soil sample locations are shown on Figure 5.



-  Trench Location showing gouge veins in yellow
-  Soil Sample Locations

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FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Soil Sample and Trench Locations
 VAL PROPERTY



6884 500 mN

6884 000 mN

6883 500 mN

6883 000 mN

388 000 mE

388 500 mE

389 000 mE

389 500 mE

390 000 mE

TR-12-01

Plan View

129°

36.1 m

0

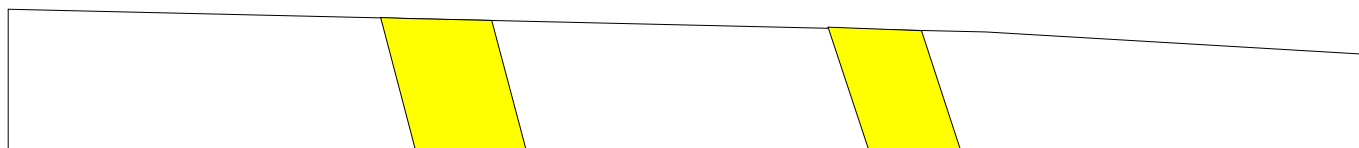


Section View East Rib

129°

36.1 m

0



Sample
Number

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-12-01

VAL PROPERTY

0 100 200 300 400 500 m

UTM ZONE 8, NAD 83

FILE: ...2012\Val\Figures\F006 TR-12-01

DATE: APRIL 2013

- Granodiorite
- Weakly mineralized gougy vein

Results of the 2012 soil geochemical survey are presented thematically for gold, silver, lead, and zinc on Figures 7, 8, 9 and 10, respectively. Table III lists anomalous thresholds and peak values for the soil samples, while clusters of anomalous results are described in the following paragraphs.

Table III – Soil Geochemical Thresholds and Peak Values

Anomalous Thresholds					
Element	Weak	Moderate	Strong	Very Strong	Peak Value
Gold	≥ 10 < 20 ppb	≥ 20 < 50 ppb	≥ 50 ppb	≥ 100 ppb	961 ppb
Silver	≥ 0.5 < 1 ppm	≥ 1 < 2 ppm	≥ 2 ppm	≥ 5 ppm	13.9 ppm
Lead	≥ 20 < 50 ppm	≥ 50 < 100 ppm	≥ 100 ppm	≥ 200 ppm	671 ppm
Zinc	≥ 50 < 100 ppm	≥ 100 < 200 ppm	≥ 200 < 500 ppm	≥ 500 ppm	559 ppm

Anomaly A is a 300 by 450 m cluster of high gold, silver, lead and zinc results with peak values of 154 ppb, 6.2 ppm, 167 ppm, and 399 ppm, respectively. The averages of strongly to very strongly anomalous values are 92 ppb gold (14 samples), 2.2 ppm silver (24 samples), 83 ppm lead (15 samples), and 276 ppm zinc (5 samples).

Anomaly B is a northwesterly elongated 800 by 150 m zone with elevated gold, silver, lead and zinc values to maximums of 114 ppb, 7.4 ppm, 671 ppm, and 511 ppm, respectively. The averages of strongly to very strongly anomalous values are 74 ppb gold (10 samples), 3.7 ppm silver (18 samples), 165 ppm lead (15 samples), and 293 ppm zinc (7 samples).

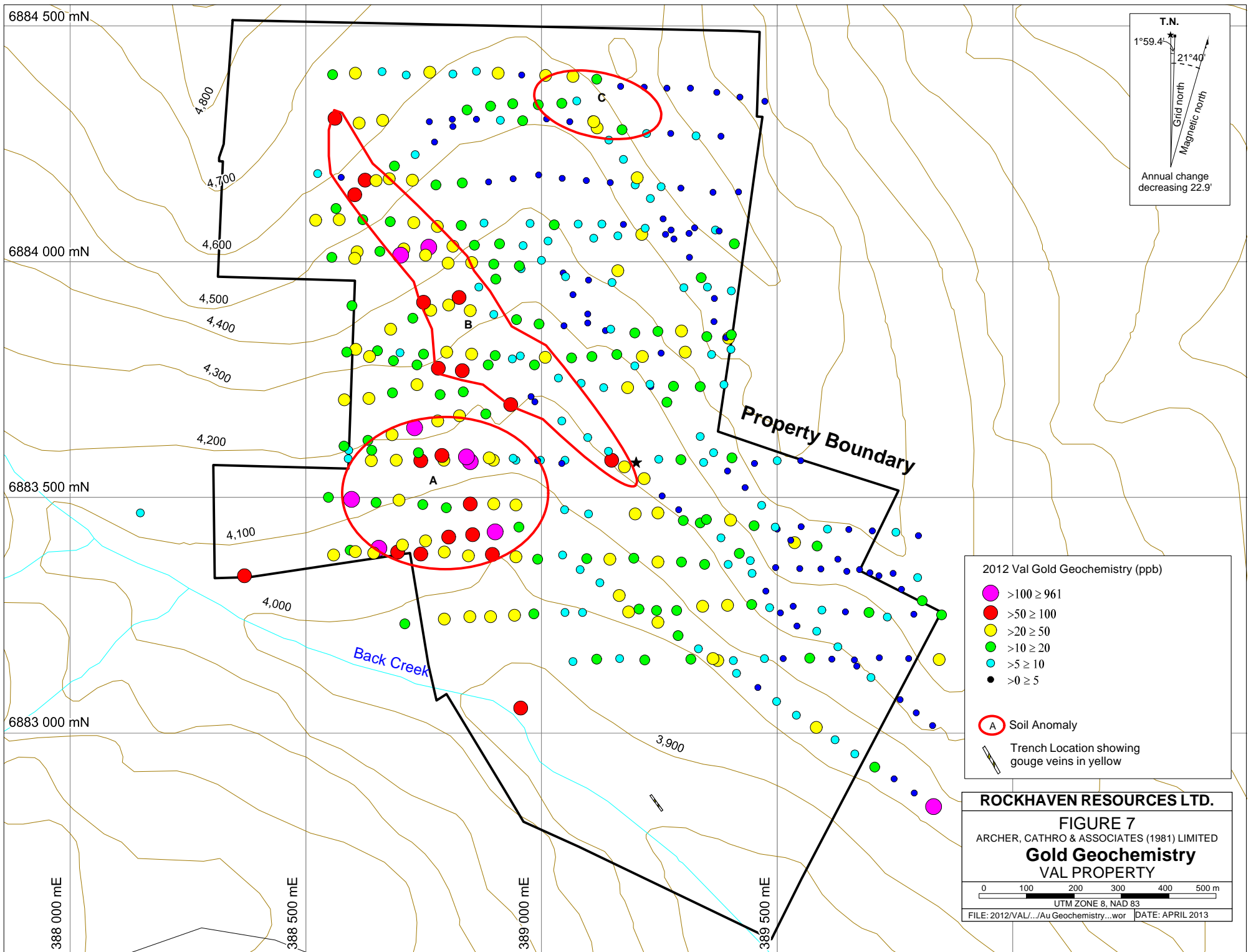
Anomaly C is a 300 by 150 m area of high gold, silver, lead and zinc results with peak values of 44 ppb, 13.9 ppm, 395 ppm, and 229 ppm, respectively. The averages of strongly to very strongly anomalous values are 4.1 ppm silver (7 samples), 109 ppm lead (7 samples), and 203 ppm zinc (2 samples).

DISCUSSION AND CONCLUSIONS

The Val property is situated in an active placer gold mining camp and historical hard rock gold and silver mining district that lies within the southern, road accessible portion of the Dawson Range Gold Belt. The property lies eight kilometers southeast of the Klaza property, a rapidly expanding gold-silver vein discovery and two kilometers north of the former Brown-McDade mine site. Other important areas within the Dawson Range Gold Belt include the prolific placer mines of the Klondike Goldfields, the Casino porphyry copper-gold-molybdenum deposit and the recently discovered Coffee and Whitegold orogenic gold deposits. An active placer mine on the property suggests a proximal source of gold.

Numerous strong to very strong multi-element soil anomalies have been outlined on the Val property; however, because of limited bedrock exposure and thick, often frozen overburden, the source(s) of the metal enriched soil samples has not been identified.

At the Klaza property, eight known gold-silver rich zones are correlated with first vertical derivative magnetic lows that were interpreted from helicopter-borne surveys. The magnetic



T.N.
 1°59.4'
 21°40'
 Grid north
 Magnetic north
 Annual change decreasing 22.9'

2012 Val Gold Geochemistry (ppb)

- >100 ≥ 961
- >50 ≥ 100
- >20 ≥ 50
- >10 ≥ 20
- >5 ≥ 10
- >0 ≥ 5

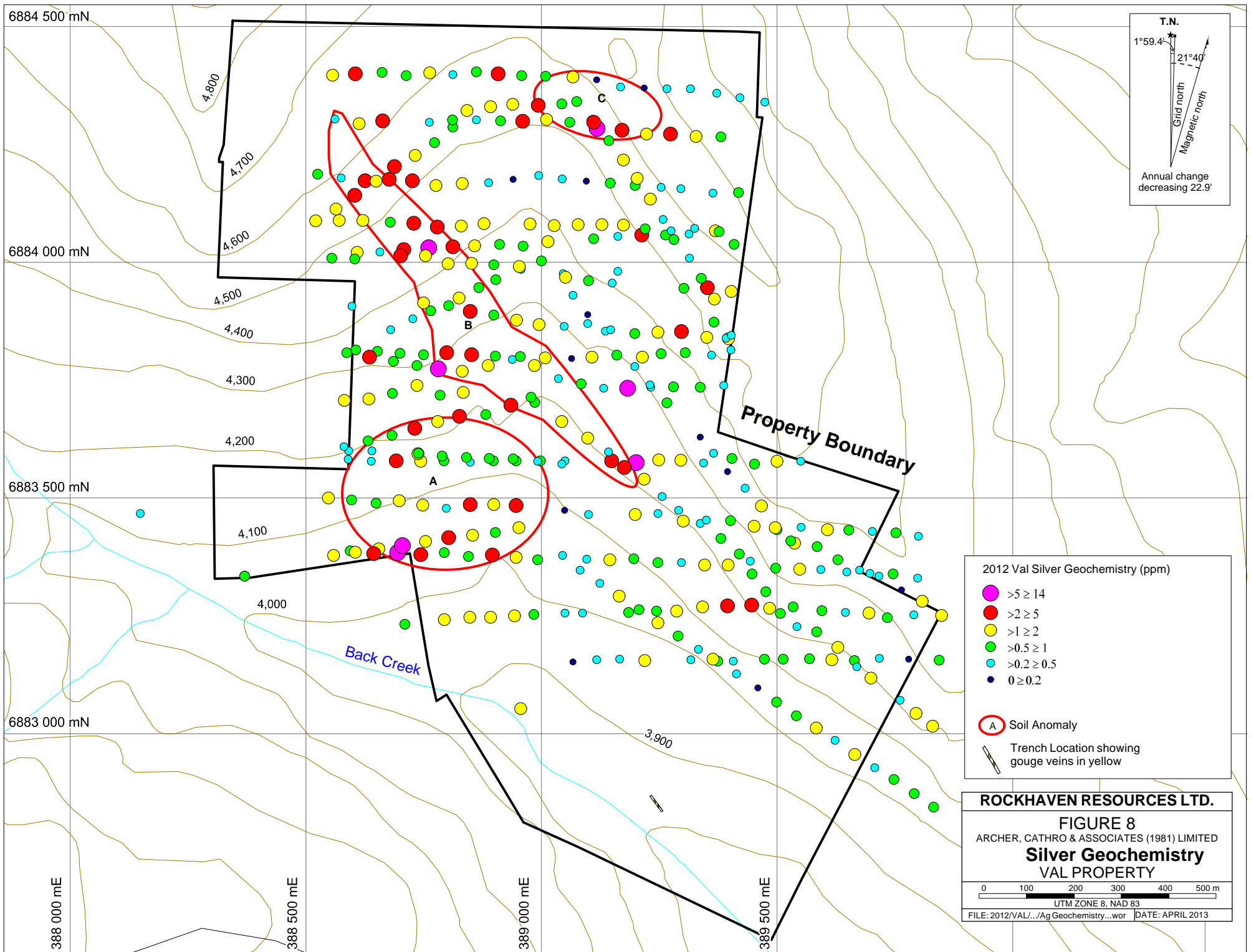
A Soil Anomaly

Trench Location showing gouge veins in yellow

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FIGURE 7
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Gold Geochemistry
VAL PROPERTY

0 100 200 300 400 500 m
 UTM ZONE 8, NAD 83
 FILE: 2012\VAL\...Au Geochemistry...wor DATE: APRIL 2013



T.N.
 1°59.4'
 21°40'
 Grid north
 Magnetic north
 Annual change decreasing 22.9'

2012 Val Silver Geochemistry (ppm)

- >5 ≥ 14
- >2 ≥ 5
- >1 ≥ 2
- >0.5 ≥ 1
- >0.2 ≥ 0.5
- 0 ≥ 0.2

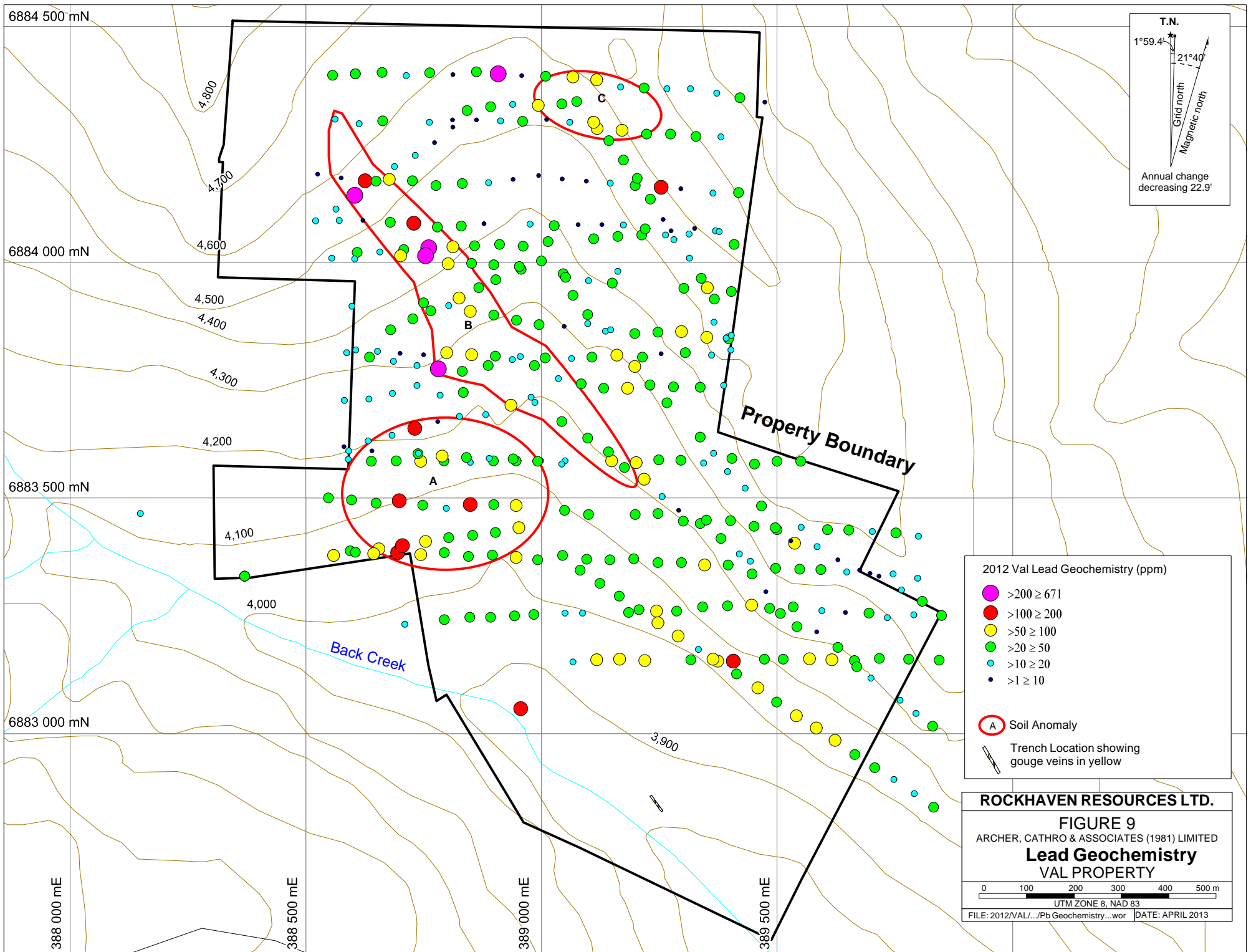
A Soil Anomaly

Trench Location showing gouge veins in yellow

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FIGURE 8
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Silver Geochemistry
VAL PROPERTY

0 100 200 300 400 500 m
 UTM ZONE 8, NAD 83
 FILE: 2012\VAL\...Ag Geochemistry...wor DATE: APRIL 2013



T.N.
 1°59.4'
 Grid north
 21°40'
 Magnetic north
 Annual change decreasing 22.9'

2012 Val Lead Geochemistry (ppm)

- >200 ≥ 671
- >100 ≥ 200
- >50 ≥ 100
- >20 ≥ 50
- >10 ≥ 20
- >1 ≥ 10

A Soil Anomaly

Trench Location showing gouge veins in yellow

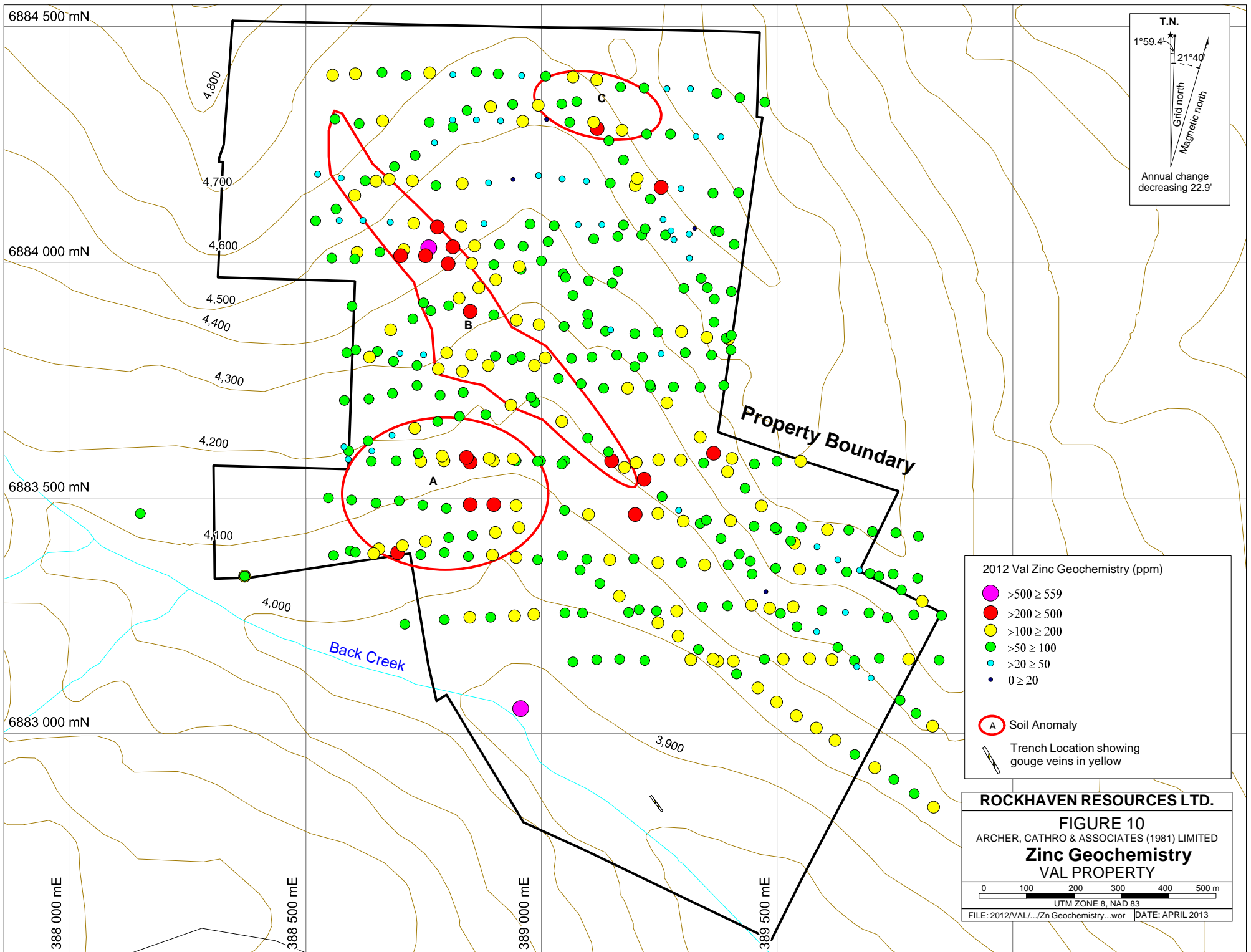
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FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Lead Geochemistry
 VAL PROPERTY

0 100 200 300 400 500 m

UTM ZONE 8, NAD 83

FILE: 2012\VAL\.../Pb Geochemistry...wor | DATE: APRIL 2013



T.N.
 1°59.4'
 Grid north
 Magnetic north
 Annual change decreasing 22.9'

2012 Val Zinc Geochemistry (ppm)

- >500 ≥ 559
- >200 ≥ 500
- >100 ≥ 200
- >50 ≥ 100
- >20 ≥ 50
- 0 ≥ 20

A Soil Anomaly

Trench Location showing gouge veins in yellow

ROCKHAVEN RESOURCES LTD.

FIGURE 10
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Zinc Geochemistry
 VAL PROPERTY

0 100 200 300 400 500 m
 UTM ZONE 8, NAD 83
 FILE: 2012\VAL\...\Zn Geochemistry...wor DATE: APRIL 2013

lows are likely caused by destruction of magnetite within the host granodiorite by hydrothermal fluids flowing through fractures.

The next stage of exploration should include a helicopter-borne magnetic survey across the property, followed by a trenching program and, if warranted, diamond drilling. The trenches should be laid out with a north-northeastern orientation to test for possible northwestern trending veins, common to the district. Given the property is situated on a south facing slope, stripping could start early in the field season; however, completion of the trenches wait until later in the summer when seasonal thaw is at its maximum.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Xéna Montague, BSc (Hons), GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Xéna Montague, geologist, with business address in Whitehorse, Yukon Territory and in Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2012 with a BSc (Hons) in Geological Sciences.
2. From 2011 to present, I have been actively engaged as a geologist in mineral exploration in the Yukon Territory.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.

Xéna Montague, BSc (Hons), GIT

APPENDIX II
SAMPLE HANDLING AND ANALYTICAL PROCEDURES

SAMPLING METHODS AND APPROACH

This section describes the sampling methods followed during the 2012 exploration programs supervised by Archer, Cathro & Associates (1981) Limited. There is not sufficient information to comment on the 1985-1986 exploration program conducted by BYG or any of the earlier work programs.

Soil samples collected in 2012 were taken from on a 1200 by 1000 m west to east trending grid covering most of the property. Samples were taken up the placer activities at the southern end of the property. Soil samples were collected at 50 m intervals on lines spaced 100 m apart and 50 m intervals along four, relatively equally spaced 75 m contour lines. All samples are marked with lath, bearing aluminum tags inscribed with the grid coordinates and sample numbers. The grids were established with hip-chain and compass, but later survey control was provided by hard-chain and transit. The soil samples were taken 20 to 50 centimeters below surface from B horizon material. They were placed in individually pre-numbered Kraft paper bags. A total of 392 soil samples were collected in 2012.

Channel samples were collected from an excavator trench in one part of the property. Bedrock exposed in trench and sampled on a continuous basis. A total of 13 channel samples were collected in 2012. The collection protocol for channel samples was:

- 1) Trenches were excavated.
- 2) The walls of trenches were cleaned, where necessary, with a shovel.
- 3) Trenches were mapped and sample intervals marked at geological breaks or at 1 to 10 m intervals depending on the intensity of alteration and mineralization.
- 4) Continuous channel samples were taken along one wall of the trench, as close to the floor of the trench as slumping would allow, using a geological hammer. The chips were collected either in a tub or on a sample sheet. Sample sizes averaged approximately two kilograms per linear meter sampled for intervals containing veins and about 7 kg per sample for intervals comprised primarily of altered wallrock.
- 5) Samples were placed in doubled 6 mm plastic bags along with a pre-numbered sample tag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen.

SAMPLE PREPARATION AND ANALYSIS

Analytical work was done by ALS Minerals with sample preparation in Whitehorse and assays and geochemical analyses in North Vancouver.

Trench samples were dried, pulverized (split of up to 250 g to better than 85 % passing minus 75 microns) and analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 48 other elements by HF-HNO₃-HClO₄ acid digestion, HCl leach followed by inductively coupled plasma-atomic emission spectrometry ICP-AES and ICP-MS analysis (ME-MS61). Over-limit values silver and zinc were determined by inductively coupled plasma / atomic emission spectroscopy Ag-OG62, and Zn-OG62.

Soil Samples were dried, sieved to 180 microns (-80 mesh), and analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 35 other elements by aqua-regia acid digestion and inductively coupled plasma-atomic emission spectroscopy (ME-ICP41).

QAOC

Blanks are composed of limestone. The material is stored in an area away from all possible contamination with mineralized rock, core or metallic particulate. Blanks were prepared in a clean, dry work area, away from any source of contamination.

Klaza 1 Standard's composition is listed below.

Klaza 1 Standard

Element	Certified Mean	Two Standard Deviations (Between Lab)
Gold	4.46 g/t	0.31g/t
Silver	119.8 g/t	4.3 g/t
Lead	0.960 %	0.052 %
Zinc	1.59 %	0.08 %

APPENDIX III
CERTIFICATES OF ANALYSIS



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VANCOUVER BC V6B 1L8

Page: 1
 Finalized Date: 25-JUN-2012
 Account: ROCKHA

CERTIFICATE WH12133933

Project: VAL TR-1
 P.O. No.: Batch 1
 This report is for 15 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13-JUN-2012.
 The following have access to data associated with this certificate:
 JOAN MARIACHER HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

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

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ATTN: HEATHER SMITH
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: ROCKHA

Project: VAL TR-1

CERTIFICATE OF ANALYSIS WH12133933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
N829901		0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
N829902		3.23	0.157	1.85	7.79	454	1900	1.56	1.98	0.40	3.63	29.3	4.9	37	9.52	32.9
N829903		5.34	0.029	1.37	8.73	203	1730	1.56	3.09	0.62	2.29	29.4	7.2	29	9.95	43.2
N829904		3.37	0.021	1.36	8.07	124.0	1820	1.41	3.41	0.67	1.31	26.9	4.4	16	5.98	22.7
N829905		3.24	0.113	1.66	8.77	269	2250	2.00	2.45	0.87	2.79	30.6	10.2	69	21.1	47.0
N829906		2.89	0.014	1.12	8.45	142.0	1320	1.91	1.58	1.76	2.40	36.0	12.3	73	17.50	40.2
N829907		3.36	0.034	1.22	8.29	319	990	1.46	1.37	0.19	2.13	21.9	3.2	11	6.50	26.8
N829908		2.58	<0.005	0.37	8.41	47.7	2170	1.53	0.33	1.13	1.54	23.4	4.1	13	4.69	10.8
N829909		1.75	0.014	0.92	8.94	77.4	2280	1.23	1.14	0.33	0.72	18.35	2.6	18	8.05	27.6
N829910		4.78	0.055	3.25	5.98	284	1410	1.44	3.93	0.13	2.04	19.10	3.4	13	8.17	27.1
N829911		2.43	<0.005	0.02	0.12	6	20	<0.05	0.03	21.1	0.06	1.27	1.4	2	0.19	2.2
N829912		2.76	0.040	3.01	7.81	287	1990	1.27	5.10	0.18	1.97	19.05	3.3	12	7.87	39.5
N829913		5.68	0.026	1.60	8.33	194.0	2130	1.41	2.41	0.29	1.62	21.9	3.9	16	5.52	44.7
N829914		0.31	4.28	>100	5.40	7700	880	1.00	48.4	1.86	211	30.2	9.1	17	11.25	1220
N829915		4.89	0.017	1.16	7.96	124.0	2240	1.20	1.39	0.32	1.37	20.8	4.2	16	4.66	28.0
N829915		2.07	<0.005	0.36	7.79	24.9	2310	1.37	0.29	0.75	1.61	20.3	2.8	15	3.65	7.4

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Project: VAL TR-1

CERTIFICATE OF ANALYSIS WH12133933

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
N829901		3.04	18.60	0.15	0.7	0.314	3.13	18.0	28.2	0.36	310	4.15	0.42	6.7	8.6	580
N829902		3.77	20.2	0.15	0.6	0.406	2.52	16.7	21.3	0.36	437	3.71	1.62	6.4	10.9	850
N829903		2.67	17.85	0.13	0.4	0.276	2.53	14.3	15.5	0.34	381	2.55	2.28	5.7	7.6	570
N829904		5.13	21.8	0.19	0.7	0.403	2.26	18.7	23.6	0.81	910	5.27	1.08	6.3	16.0	1280
N829905		5.55	20.2	0.20	0.7	0.316	1.39	21.3	18.0	1.37	1180	3.20	1.84	6.0	19.3	1430
N829906		2.10	18.05	0.12	0.4	0.405	2.58	13.1	25.6	0.25	264	3.81	0.21	4.5	5.5	450
N829907		1.84	19.60	0.14	0.3	0.078	2.49	11.3	11.3	0.29	891	1.40	3.19	6.8	6.1	480
N829908		1.60	21.1	0.13	0.3	0.127	2.63	8.8	28.4	0.32	217	2.17	0.14	6.0	4.8	510
N829909		3.04	15.90	0.14	0.3	0.334	2.54	12.9	15.9	0.23	314	7.29	0.16	4.5	5.3	320
N829910		0.59	0.35	0.07	<0.1	0.006	0.03	0.6	1.0	13.15	219	0.15	0.01	0.2	1.8	190
N829911		3.17	18.70	0.15	0.3	0.284	2.82	14.1	26.3	0.23	260	12.35	0.09	6.0	5.3	430
N829912		2.74	18.65	0.14	0.3	0.154	3.14	13.5	27.1	0.21	289	5.28	0.59	6.1	6.6	530
N829913		7.74	11.85	0.19	0.9	4.45	2.15	17.7	27.0	0.60	2920	13.95	0.08	5.2	13.5	440
N829914		1.97	19.00	0.12	0.3	0.182	2.99	11.6	24.4	0.20	618	3.64	0.92	5.8	6.7	510
N829915		1.47	18.95	0.12	0.2	0.096	2.74	9.6	12.1	0.15	1150	1.58	3.11	6.2	5.2	450

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Project: VAL TR-1

CERTIFICATE OF ANALYSIS WH12133933

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
N829901		294	196.0	<0.002	0.04	21.8	11.8	1	4.0	152.0	0.55	0.20	4.4	0.240	2.10	4.4
N829902		223	115.0	<0.002	0.01	11.95	10.7	1	2.2	350	0.40	0.17	4.7	0.230	1.40	3.7
N829903		107.5	100.5	<0.002	0.01	7.71	6.8	1	1.8	392	0.38	0.14	3.7	0.155	1.07	2.3
N829904		119.0	148.5	<0.002	0.03	15.45	19.7	1	3.1	379	0.25	0.12	5.5	0.310	1.84	4.0
N829905		132.5	78.2	<0.002	0.01	9.35	20.9	1	2.4	622	0.26	0.07	5.9	0.340	1.15	3.2
N829906		204	161.0	<0.002	0.01	16.25	5.2	1	1.9	75.9	0.30	0.13	3.3	0.115	1.78	2.8
N829907		48.1	76.8	<0.002	0.02	2.38	5.1	1	1.3	768	0.45	<0.05	3.3	0.146	0.76	1.2
N829908		97.8	86.4	<0.002	<0.01	11.15	5.3	1	1.2	179.5	0.35	0.06	3.4	0.160	1.05	1.6
N829909		300	145.5	<0.002	0.01	33.3	4.3	1	2.8	48.6	0.33	0.28	2.5	0.100	2.13	3.5
N829910		3.0	1.7	<0.002	0.02	0.16	0.2	1	<0.2	40.2	<0.05	<0.05	<0.2	<0.005	0.02	0.6
N829911		836	137.0	<0.002	0.18	19.20	4.4	1	2.8	118.5	0.37	0.22	3.0	0.147	1.50	2.9
N829912		214	129.5	<0.002	0.02	16.40	5.4	1	1.9	176.0	0.40	0.18	3.5	0.147	1.37	3.2
N829913		9040	120.0	0.002	6.89	206	6.9	2	7.4	111.0	0.44	0.39	8.5	0.175	2.04	4.9
N829914		200	117.0	<0.002	0.01	10.20	5.4	1	2.1	242	0.38	0.11	3.4	0.146	1.19	2.2
N829915		72.7	92.6	<0.002	0.02	1.60	4.6	1	2.1	631	0.38	<0.05	3.1	0.136	0.90	1.0

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 Finalized Date: 25-JUN-2012
 Account: ROCKHA

Project: VAL TR-1

CERTIFICATE OF ANALYSIS WH12133933

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Zn-OG62 Zn % 0.001
N829901		102	3.1	11.1	354	19.4		
N829902		82	2.2	12.3	425	17.9		
N829903		50	1.5	10.3	250	11.9		
N829904		143	2.3	16.2	596	20.7		
N829905		156	1.5	18.3	564	18.1		
N829906		38	2.1	8.2	286	11.5		
N829907		40	0.8	8.2	134	7.2		
N829908		45	1.9	6.3	219	7.6		
N829909		34	1.8	10.0	295	8.5		
N829910		<1	0.1	0.8	16	<0.5		
N829911		36	1.9	10.3	274	7.6		
N829912		41	2.2	10.5	291	9.1		
N829913		49	4.3	8.5	>10000	29.8	116	1.620
N829914		42	1.4	8.1	250	10.8		
N829915		36	0.6	5.8	101	5.0		

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



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Page: Appendix 1
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Account: ROCKHA

Project: VAL TR-1

CERTIFICATE OF ANALYSIS WH12133933

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca > 10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in this method.



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Page: 1
 Finalized Date: 27-AUG-2012
 Account: ROCKHA

CERTIFICATE WH12186248

Project: Klaza
 P.O. No.: Batch 1
 This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2012.
 The following have access to data associated with this certificate:

JOAN MARIACHER J TARSWELL	HEATHER SMITH MATT TURNER	JARED TARSWELL
------------------------------	------------------------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ROCKHAVEN RESOURCES LTD.**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
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 Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51501		0.19	0.019	1.1	1.43	67	<10	190	<0.5	5	0.28	0.6	9	17	28	2.50
ZZ51502		0.30	0.135	0.7	1.27	80	<10	140	<0.5	9	0.29	0.6	7	19	36	2.96
ZZ51503		0.21	0.016	0.5	1.64	73	<10	270	<0.5	4	0.43	0.5	7	25	36	2.76
ZZ51504		0.31	0.028	1.5	1.49	95	<10	300	0.5	7	0.37	1.0	6	21	55	2.87
ZZ51505		0.26	0.017	1.3	1.29	65	<10	300	<0.5	3	0.32	0.5	5	16	42	2.41
ZZ51506		0.27	0.017	0.3	1.05	54	<10	150	<0.5	3	0.25	<0.5	6	19	15	2.19
ZZ51507		0.30	0.080	3.3	2.03	403	<10	420	0.8	10	0.63	4.0	11	22	77	4.38
ZZ51508		0.24	0.031	1.0	0.96	192	<10	180	<0.5	3	0.29	2.1	6	15	20	2.46
ZZ51509		0.19	0.038	2.8	1.72	75	<10	260	<0.5	3	0.54	1.7	6	20	23	2.37
ZZ51510		0.16	0.007	<0.2	1.13	12	<10	250	<0.5	<2	0.45	0.6	5	20	19	1.57
ZZ51511		0.25	0.007	0.4	1.23	22	<10	200	<0.5	<2	0.40	0.5	5	21	23	1.90
ZZ51512		0.24	0.005	0.3	1.32	10	<10	200	<0.5	2	0.45	0.5	4	22	28	1.71
ZZ51513		0.23	0.020	1.3	1.75	28	<10	280	0.6	2	0.55	1.5	6	23	61	2.36
ZZ51514		0.19	0.030	0.4	2.29	32	<10	420	0.6	<2	0.40	<0.5	9	31	35	2.92
ZZ51515		0.26	0.016	1.4	1.91	20	<10	490	0.6	<2	0.63	0.9	9	28	56	2.54
ZZ51516		0.32	0.010	0.4	1.69	22	<10	300	<0.5	<2	0.36	<0.5	7	26	17	2.21
ZZ51517		0.25	0.024	0.6	1.34	41	<10	300	0.5	<2	0.44	0.6	7	19	31	2.04
ZZ51518		0.21	0.012	1.3	1.39	22	<10	380	0.5	2	0.62	<0.5	6	19	31	2.13
ZZ51519		0.18	<0.005	0.5	1.03	13	<10	100	<0.5	<2	0.15	0.8	6	16	10	1.92
ZZ51520		0.25	<0.005	0.2	1.36	15	<10	250	<0.5	<2	0.27	<0.5	7	26	18	1.85
ZZ51521		0.25	0.006	1.2	2.00	43	<10	190	<0.5	<2	0.15	0.7	9	25	16	2.44
ZZ51522		0.19	<0.005	0.8	1.76	24	<10	160	<0.5	2	0.21	0.5	6	23	11	2.80
ZZ51523		0.25	<0.005	0.4	2.32	29	<10	210	<0.5	2	0.25	<0.5	8	38	15	2.88
ZZ51524		0.28	0.005	0.8	2.12	54	<10	180	<0.5	2	0.17	0.6	10	25	18	2.73
ZZ51525		0.20	<0.005	0.4	1.93	15	<10	140	<0.5	<2	0.19	<0.5	8	28	16	2.65
ZZ51526		0.27	0.005	0.3	2.10	17	<10	170	0.5	<2	0.22	<0.5	7	27	18	2.44
ZZ51527		0.27	<0.005	0.7	1.73	14	<10	210	<0.5	<2	0.32	<0.5	6	29	9	2.40
ZZ51528		0.28	<0.005	0.2	2.71	12	<10	200	0.5	2	0.30	<0.5	9	43	19	3.34
ZZ51529		0.19	<0.005	0.2	1.45	10	<10	140	<0.5	2	0.19	0.5	7	25	12	2.45
ZZ51530		0.20	<0.005	0.2	1.45	15	<10	140	<0.5	2	0.23	<0.5	7	23	10	2.24
ZZ51531		0.19	<0.005	1.1	1.62	14	<10	220	<0.5	<2	0.27	0.8	7	28	11	2.62
ZZ51532		0.21	<0.005	0.9	1.42	11	<10	170	<0.5	<2	0.21	0.5	7	23	15	2.12
ZZ51533		0.21	0.005	0.3	1.07	18	<10	190	<0.5	<2	0.31	<0.5	4	17	11	1.62
ZZ51534		0.26	0.008	1.0	1.45	32	<10	220	<0.5	<2	0.59	<0.5	5	23	29	2.09
ZZ51535		0.21	0.014	1.1	1.05	33	<10	180	<0.5	<2	0.41	0.8	4	19	24	1.83
ZZ51536		0.29	0.015	0.4	1.38	30	<10	290	<0.5	2	0.43	<0.5	5	24	26	2.10
ZZ51537		0.32	0.030	0.8	1.23	21	<10	250	0.5	<2	0.41	0.6	5	19	42	2.01
ZZ51538		0.33	0.018	0.5	0.94	23	<10	210	<0.5	<2	0.34	0.5	4	19	22	1.79
ZZ51539		0.13	0.024	1.2	2.55	26	<10	400	0.7	<2	0.62	<0.5	7	33	43	3.06
ZZ51540		0.25	0.010	0.4	1.25	13	<10	210	<0.5	<2	0.44	0.5	5	23	21	1.77



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 Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51501		10	<1	0.07	10	0.32	376	2	0.03	8	600	47	0.05	2	2	30
ZZ51502		<10	<1	0.08	10	0.43	380	2	0.02	9	350	42	0.05	<2	3	34
ZZ51503		10	<1	0.08	10	0.49	290	1	0.02	13	390	25	0.03	2	3	39
ZZ51504		<10	<1	0.08	20	0.42	351	4	0.02	10	400	103	0.04	2	3	41
ZZ51505		<10	<1	0.08	10	0.24	225	5	0.03	8	530	29	0.04	2	2	36
ZZ51506		<10	<1	0.06	10	0.35	363	6	0.02	7	310	18	0.02	<2	2	23
ZZ51507		10	<1	0.14	20	0.41	779	5	0.02	13	930	109	0.10	9	5	80
ZZ51508		<10	<1	0.06	10	0.30	525	2	0.02	7	520	42	0.03	3	3	26
ZZ51509		<10	<1	0.10	10	0.32	648	1	0.03	9	790	63	0.06	3	4	51
ZZ51510		<10	<1	0.11	10	0.31	248	<1	0.03	8	570	28	0.04	2	4	32
ZZ51511		<10	<1	0.08	10	0.38	362	1	0.02	9	340	49	0.03	<2	3	32
ZZ51512		<10	<1	0.08	10	0.39	238	<1	0.03	10	570	16	0.05	<2	3	37
ZZ51513		<10	<1	0.11	10	0.36	452	1	0.03	10	480	39	0.04	<2	4	47
ZZ51514		10	<1	0.12	10	0.51	604	1	0.02	14	350	25	0.03	<2	4	37
ZZ51515		10	<1	0.10	20	0.41	705	1	0.03	11	430	44	0.04	2	4	55
ZZ51516		10	<1	0.08	10	0.47	437	<1	0.02	10	270	25	0.02	<2	3	28
ZZ51517		<10	<1	0.10	10	0.36	381	<1	0.03	10	440	43	0.03	2	3	33
ZZ51518		<10	<1	0.09	10	0.32	529	1	0.04	10	700	42	0.05	3	3	44
ZZ51519		10	<1	0.09	<10	0.25	505	1	0.03	6	280	28	0.02	<2	2	18
ZZ51520		<10	<1	0.07	20	0.33	536	<1	0.02	10	390	16	0.03	<2	2	29
ZZ51521		10	<1	0.09	10	0.40	569	<1	0.02	16	330	47	0.02	2	3	16
ZZ51522		10	<1	0.07	10	0.31	423	1	0.02	8	360	25	0.02	<2	3	22
ZZ51523		10	<1	0.09	10	0.58	403	<1	0.02	16	430	15	0.02	2	4	23
ZZ51524		<10	<1	0.10	10	0.41	489	1	0.02	15	330	41	0.02	3	3	18
ZZ51525		10	<1	0.07	10	0.40	608	<1	0.02	12	520	11	0.03	<2	3	21
ZZ51526		10	<1	0.08	10	0.50	283	1	0.02	15	360	13	0.02	<2	4	22
ZZ51527		10	<1	0.06	10	0.46	446	<1	0.03	9	240	12	0.02	<2	3	29
ZZ51528		10	<1	0.13	10	0.76	339	1	0.02	22	430	9	0.03	<2	4	33
ZZ51529		10	<1	0.13	10	0.39	327	1	0.02	11	470	15	0.02	<2	2	19
ZZ51530		<10	<1	0.10	10	0.41	358	1	0.02	11	350	20	0.02	<2	3	21
ZZ51531		10	<1	0.10	10	0.43	980	<1	0.02	11	350	35	0.02	<2	3	29
ZZ51532		10	<1	0.08	10	0.37	670	1	0.03	10	250	20	0.02	<2	3	23
ZZ51533		<10	<1	0.07	10	0.34	389	1	0.02	7	370	19	0.02	<2	2	24
ZZ51534		<10	<1	0.08	10	0.41	318	<1	0.02	10	470	30	0.04	<2	3	47
ZZ51535		<10	<1	0.08	10	0.35	355	<1	0.03	8	330	55	0.03	2	3	33
ZZ51536		<10	<1	0.09	10	0.44	324	<1	0.03	12	360	31	0.03	<2	4	34
ZZ51537		<10	<1	0.08	10	0.32	392	<1	0.02	15	460	47	0.02	<2	3	32
ZZ51538		<10	<1	0.07	10	0.33	264	<1	0.02	10	340	27	<0.01	<2	3	25
ZZ51539		10	1	0.12	10	0.49	369	<1	0.02	17	830	45	0.04	<2	6	51
ZZ51540		<10	<1	0.07	10	0.43	286	<1	0.02	13	500	24	0.01	<2	4	30



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Project: Klaza

CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51501		<20	0.05	<10	<10	52	<10	74
ZZ51502		<20	0.06	<10	<10	47	<10	84
ZZ51503		<20	0.06	<10	<10	51	<10	59
ZZ51504		<20	0.04	<10	<10	47	<10	95
ZZ51505		<20	0.04	<10	<10	51	<10	62
ZZ51506		<20	0.05	<10	<10	41	<10	59
ZZ51507		<20	0.02	<10	<10	48	<10	349
ZZ51508		<20	0.04	<10	<10	35	<10	204
ZZ51509		<20	0.04	<10	<10	44	<10	155
ZZ51510		<20	0.06	<10	<10	47	<10	82
ZZ51511		<20	0.05	<10	<10	37	<10	107
ZZ51512		<20	0.05	<10	<10	35	<10	80
ZZ51513		<20	0.04	<10	<10	42	<10	247
ZZ51514		<20	0.03	<10	<10	56	<10	116
ZZ51515		<20	0.06	<10	<10	57	<10	116
ZZ51516		<20	0.06	<10	<10	49	<10	83
ZZ51517		<20	0.03	<10	<10	37	<10	141
ZZ51518		<20	0.04	<10	<10	42	<10	93
ZZ51519		<20	0.07	<10	<10	51	<10	88
ZZ51520		<20	0.05	<10	<10	44	<10	52
ZZ51521		<20	0.06	<10	<10	48	<10	107
ZZ51522		<20	0.05	<10	<10	57	<10	77
ZZ51523		<20	0.10	<10	<10	69	<10	65
ZZ51524		<20	0.04	<10	<10	47	<10	95
ZZ51525		<20	0.08	<10	<10	61	<10	63
ZZ51526		<20	0.07	<10	<10	52	<10	55
ZZ51527		<20	0.09	<10	<10	62	<10	91
ZZ51528		<20	0.11	<10	<10	79	<10	75
ZZ51529		<20	0.08	<10	<10	58	<10	76
ZZ51530		<20	0.07	<10	<10	50	<10	80
ZZ51531		<20	0.08	<10	<10	62	<10	165
ZZ51532		<20	0.07	<10	<10	50	<10	99
ZZ51533		<20	0.05	<10	<10	34	<10	59
ZZ51534		<20	0.04	<10	<10	41	<10	90
ZZ51535		<20	0.05	<10	<10	35	<10	114
ZZ51536		<20	0.06	<10	<10	42	<10	92
ZZ51537		<20	0.05	<10	<10	40	<10	102
ZZ51538		<20	0.05	<10	<10	35	<10	96
ZZ51539		<20	0.04	<10	<10	54	<10	168
ZZ51540		<20	0.07	<10	<10	41	<10	83



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Project: Klaza

CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51941		0.33	0.016	1.2	1.99	47	<10	260	<0.5	<2	0.57	0.6	5	22	21	2.45
ZZ51942		0.35	0.011	1.6	1.09	31	<10	130	<0.5	<2	0.33	0.5	8	16	13	1.68
ZZ51943		0.19	0.022	2.6	0.96	27	<10	140	<0.5	<2	0.27	1.5	3	12	13	1.33
ZZ51944		0.33	0.028	2.0	1.23	108	<10	150	<0.5	3	0.24	1.0	6	14	22	2.22
ZZ51945		0.48	0.050	2.7	1.46	68	<10	240	<0.5	<2	0.31	1.0	5	20	23	2.23
ZZ51946		0.24	<0.005	0.4	0.63	22	<10	70	<0.5	<2	0.16	<0.5	2	10	8	1.30
ZZ51947		0.29	0.008	0.5	1.65	37	<10	130	<0.5	<2	0.21	<0.5	6	25	14	2.43
ZZ51948		0.49	0.032	1.4	0.98	144	<10	140	<0.5	<2	0.29	0.5	5	11	13	2.10
ZZ51949		0.22	0.020	1.7	0.91	31	<10	150	<0.5	3	0.36	<0.5	3	12	14	1.42
ZZ51950		0.29	0.019	1.2	1.34	28	<10	210	<0.5	<2	0.29	<0.5	5	18	17	2.19
ZZ51951		0.40	0.012	0.8	0.92	16	<10	130	<0.5	<2	0.24	<0.5	4	14	13	1.52
ZZ51952		0.32	0.042	3.8	0.83	104	<10	120	<0.5	<2	0.21	1.8	3	9	13	1.74
ZZ51953		0.22	0.044	3.2	1.52	54	<10	250	0.5	<2	0.61	2.3	4	14	25	1.89
ZZ51954		0.46	0.015	1.5	1.61	50	<10	170	<0.5	<2	0.35	<0.5	5	21	21	2.13
ZZ51955		0.26	0.005	1.6	0.67	14	<10	90	<0.5	<2	0.26	0.5	3	9	8	1.12
ZZ51956		0.42	0.010	1.2	1.28	18	<10	160	<0.5	<2	0.25	<0.5	3	12	11	1.30
ZZ51957		0.33	0.009	1.4	1.42	21	<10	200	<0.5	<2	0.31	0.7	4	16	12	1.65
ZZ51958		0.28	0.011	1.5	1.68	54	<10	270	<0.5	<2	0.59	0.5	7	24	25	2.20
ZZ51959		0.41	0.005	1.3	0.60	13	<10	70	<0.5	<2	0.24	<0.5	2	7	9	0.94
ZZ51960		0.30	0.007	1.0	0.58	13	<10	110	<0.5	<2	0.32	<0.5	2	6	9	0.85
ZZ51961		0.29	<0.005	1.1	0.97	25	<10	140	<0.5	<2	0.42	<0.5	4	11	13	1.42
ZZ51962		0.35	0.005	0.7	1.02	52	<10	180	<0.5	<2	0.29	<0.5	8	19	21	2.24
ZZ51963		0.24	<0.005	0.2	0.52	5	<10	50	<0.5	<2	0.08	<0.5	3	9	5	1.20
ZZ51964		0.33	<0.005	0.3	0.40	2	<10	40	<0.5	<2	0.06	<0.5	2	4	5	0.67
ZZ51965		0.38	<0.005	0.9	1.44	18	<10	150	<0.5	<2	0.19	<0.5	6	25	14	2.45
ZZ51966		0.22	<0.005	0.6	0.67	10	<10	70	<0.5	<2	0.15	0.6	5	11	8	1.52
ZZ51967		0.38	0.005	1.7	1.67	20	<10	90	<0.5	<2	0.16	<0.5	5	24	13	2.53
ZZ51968		0.46	<0.005	2.0	1.76	23	<10	140	<0.5	<2	0.19	<0.5	7	27	12	2.57
ZZ51969		0.41	0.006	1.1	1.55	28	<10	110	<0.5	<2	0.21	<0.5	6	22	12	2.54
ZZ51970		0.41	0.012	2.4	2.36	76	<10	300	0.8	<2	0.43	0.5	8	29	45	3.12
ZZ51971		0.43	0.035	13.9	1.59	150	<10	220	0.5	<2	0.59	1.6	6	23	36	2.24
ZZ51972		0.34	0.017	0.2	0.69	18	<10	90	<0.5	<2	0.20	<0.5	3	14	8	1.61
ZZ51973		0.42	0.018	1.4	1.49	70	<10	170	<0.5	<2	0.34	<0.5	6	22	27	2.46
ZZ51974		0.49	0.078	2.5	1.48	80	<10	200	0.5	4	0.30	1.3	6	23	29	2.55
ZZ51975		0.35	0.026	1.1	1.12	47	<10	150	<0.5	<2	0.29	0.7	5	15	18	2.04
ZZ51976		0.45	0.013	2.3	0.58	39	<10	70	<0.5	<2	0.20	0.5	3	8	7	1.10
ZZ51977		0.42	0.005	1.5	1.02	20	<10	130	<0.5	<2	0.35	0.6	5	11	12	1.37
ZZ51978		0.23	<0.005	0.9	0.61	8	<10	110	<0.5	<2	0.34	0.6	3	8	9	0.89
ZZ51979		0.29	<0.005	0.5	0.73	13	<10	110	<0.5	<2	0.30	<0.5	3	10	9	1.18
ZZ51980		0.33	0.013	1.1	1.32	51	<10	160	<0.5	<2	0.27	<0.5	4	17	13	1.87



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CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51941		10	<1	0.10	10	0.37	417	<1	0.03	11	840	20	0.05	<2	4	42
ZZ51942		<10	<1	0.06	10	0.29	628	<1	0.03	7	640	29	0.02	<2	2	24
ZZ51943		<10	<1	0.06	10	0.21	184	<1	0.03	6	750	40	0.05	<2	1	22
ZZ51944		<10	<1	0.07	10	0.23	587	<1	0.03	8	690	52	0.04	2	1	25
ZZ51945		<10	<1	0.07	10	0.33	253	<1	0.02	10	510	107	0.03	2	3	29
ZZ51946		<10	<1	0.03	<10	0.13	91	<1	0.02	4	280	6	0.02	<2	1	15
ZZ51947		10	<1	0.06	10	0.46	241	<1	0.02	14	300	9	0.01	<2	3	17
ZZ51948		<10	1	0.06	10	0.21	224	<1	0.03	7	500	16	0.01	2	3	20
ZZ51949		<10	1	0.06	10	0.19	101	<1	0.04	7	740	11	0.06	<2	1	27
ZZ51950		<10	<1	0.07	10	0.28	227	<1	0.03	10	490	8	0.02	<2	3	22
ZZ51951		<10	1	0.04	10	0.25	158	<1	0.03	8	470	30	0.02	<2	1	20
ZZ51952		<10	<1	0.06	10	0.16	268	<1	0.03	4	420	190	0.02	5	2	20
ZZ51953		<10	<1	0.07	10	0.26	351	<1	0.03	10	950	38	0.07	<2	2	52
ZZ51954		10	<1	0.08	10	0.36	355	<1	0.02	10	690	33	0.03	<2	2	27
ZZ51955		<10	<1	0.04	<10	0.15	110	<1	0.03	5	570	6	0.03	<2	1	21
ZZ51956		<10	<1	0.06	<10	0.17	139	<1	0.03	6	570	10	0.04	<2	2	24
ZZ51957		<10	<1	0.06	10	0.28	289	<1	0.02	7	720	19	0.05	<2	2	28
ZZ51958		<10	<1	0.08	10	0.39	678	<1	0.03	14	720	30	0.07	<2	3	50
ZZ51959		<10	<1	0.04	<10	0.10	109	<1	0.03	4	400	9	0.02	<2	1	17
ZZ51960		<10	<1	0.04	<10	0.09	131	<1	0.04	4	400	4	0.03	<2	1	24
ZZ51961		<10	<1	0.07	10	0.19	297	<1	0.03	6	520	17	0.02	<2	2	29
ZZ51962		<10	1	0.07	10	0.26	923	<1	0.02	9	440	43	0.01	<2	2	23
ZZ51963		<10	<1	0.04	<10	0.12	128	<1	0.02	4	200	4	<0.01	<2	1	9
ZZ51964		<10	<1	0.03	<10	0.04	72	<1	0.03	2	210	2	<0.01	<2	1	9
ZZ51965		10	<1	0.07	10	0.45	240	<1	0.02	13	260	11	<0.01	<2	3	17
ZZ51966		<10	<1	0.04	<10	0.15	291	<1	0.03	5	260	17	0.01	<2	1	15
ZZ51967		10	<1	0.06	10	0.38	168	<1	0.01	11	280	20	0.01	<2	3	16
ZZ51968		10	<1	0.08	10	0.45	355	<1	0.02	13	250	30	0.01	<2	3	18
ZZ51969		10	<1	0.08	10	0.36	276	<1	0.02	12	320	33	0.01	<2	3	19
ZZ51970		10	<1	0.13	10	0.39	702	1	0.01	14	490	78	0.01	3	4	34
ZZ51971		<10	<1	0.10	10	0.37	526	1	0.02	14	690	60	0.04	4	4	42
ZZ51972		<10	<1	0.04	10	0.23	147	<1	0.02	6	290	7	0.01	<2	2	16
ZZ51973		10	<1	0.06	10	0.35	367	1	0.02	11	730	15	0.05	<2	2	29
ZZ51974		<10	<1	0.07	10	0.40	329	<1	0.02	12	680	271	0.03	7	3	27
ZZ51975		<10	1	0.06	10	0.28	385	<1	0.02	8	690	41	0.02	3	2	21
ZZ51976		<10	1	0.04	<10	0.16	165	<1	0.03	5	460	19	0.02	<2	1	15
ZZ51977		<10	1	0.05	<10	0.17	289	<1	0.03	5	600	11	0.04	<2	2	25
ZZ51978		<10	<1	0.04	<10	0.13	145	<1	0.03	4	530	5	0.04	<2	1	27
ZZ51979		<10	<1	0.04	<10	0.18	176	<1	0.03	5	570	5	0.03	<2	1	23
ZZ51980		<10	<1	0.06	10	0.30	227	<1	0.02	9	590	24	0.02	<2	2	22



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CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51941		<20	0.05	<10	<10	51	<10	106
ZZ51942		<20	0.05	<10	<10	37	<10	79
ZZ51943		<20	0.03	<10	<10	25	<10	110
ZZ51944		<20	0.03	<10	<10	38	<10	126
ZZ51945		<20	0.04	<10	<10	43	<10	71
ZZ51946		<20	0.06	<10	<10	41	<10	22
ZZ51947		<20	0.08	<10	<10	51	<10	46
ZZ51948		<20	0.04	<10	<10	39	<10	89
ZZ51949		<20	0.03	<10	<10	28	<10	46
ZZ51950		<20	0.06	<10	<10	48	<10	43
ZZ51951		<20	0.04	<10	<10	32	<10	36
ZZ51952		<20	0.04	<10	<10	36	<10	171
ZZ51953		<20	0.04	<10	<10	32	<10	273
ZZ51954		<20	0.04	<10	<10	41	<10	127
ZZ51955		<20	0.04	<10	<10	30	<10	46
ZZ51956		<20	0.04	<10	<10	27	<10	71
ZZ51957		<20	0.04	<10	<10	37	<10	87
ZZ51958		<20	0.05	<10	<10	40	<10	96
ZZ51959		<20	0.03	<10	<10	22	<10	32
ZZ51960		<20	0.02	<10	<10	19	<10	24
ZZ51961		<20	0.03	<10	<10	29	<10	61
ZZ51962		<20	0.04	<10	<10	38	<10	69
ZZ51963		<20	0.06	<10	<10	36	<10	22
ZZ51964		<20	0.03	<10	<10	17	<10	13
ZZ51965		<20	0.08	<10	<10	53	<10	54
ZZ51966		<20	0.07	<10	<10	43	<10	42
ZZ51967		<20	0.07	<10	<10	55	<10	45
ZZ51968		<20	0.08	<10	<10	56	<10	79
ZZ51969		<20	0.06	<10	<10	52	<10	73
ZZ51970		<20	0.02	<10	<10	54	<10	154
ZZ51971		<20	0.03	<10	<10	40	<10	212
ZZ51972		<20	0.06	<10	<10	44	<10	38
ZZ51973		<20	0.04	<10	<10	54	<10	53
ZZ51974		<20	0.04	<10	<10	41	<10	124
ZZ51975		<20	0.03	<10	<10	34	<10	126
ZZ51976		<20	0.04	<10	<10	26	<10	70
ZZ51977		<20	0.04	<10	<10	31	<10	50
ZZ51978		<20	0.03	<10	<10	21	<10	44
ZZ51979		<20	0.04	<10	<10	30	<10	52
ZZ51980		<20	0.05	<10	<10	44	<10	63



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51981		0.31	0.015	1.5	1.34	45	<10	210	<0.5	<2	0.35	<0.5	5	15	18	1.90
ZZ51982		0.35	0.014	1.8	1.14	46	<10	230	<0.5	<2	0.39	<0.5	4	14	20	1.67
ZZ51983		0.53	0.014	3.1	1.67	76	<10	310	0.6	<2	0.50	<0.5	6	20	33	2.64
ZZ51984		0.38	0.015	0.9	1.12	46	<10	230	<0.5	<2	0.40	<0.5	5	19	19	1.85
ZZ51985		0.50	0.007	0.5	1.43	37	<10	200	<0.5	<2	0.45	<0.5	6	25	20	2.20
ZZ51986		0.35	0.023	2.8	1.76	89	<10	400	0.7	<2	0.79	0.9	7	24	46	2.60
ZZ51987		0.35	0.007	0.8	1.43	23	<10	140	<0.5	<2	0.29	<0.5	6	24	13	2.14
ZZ51988		0.38	0.008	1.3	1.55	19	<10	230	<0.5	<2	0.23	<0.5	6	22	14	2.08
ZZ51989		0.37	0.023	1.6	1.71	63	<10	200	0.6	<2	0.66	<0.5	7	28	48	2.59
ZZ51990		0.26	0.006	1.5	1.89	37	<10	200	0.5	<2	0.34	0.7	8	24	32	2.90
ZZ51991		0.33	<0.005	0.3	1.05	8	<10	160	<0.5	<2	0.21	0.5	6	14	18	1.78
ZZ51992		0.36	<0.005	0.8	1.29	14	<10	160	<0.5	<2	0.28	<0.5	8	19	21	2.11
ZZ51993		0.45	<0.005	0.4	0.70	9	<10	80	<0.5	<2	0.17	<0.5	3	10	7	1.34
ZZ51994		0.39	0.016	0.6	1.18	55	<10	150	<0.5	<2	0.19	<0.5	5	19	13	1.88
ZZ51995		0.42	<0.005	1.1	1.58	16	<10	250	<0.5	<2	0.28	0.5	10	24	23	2.58
ZZ51996		0.43	<0.005	0.6	1.42	16	<10	120	<0.5	<2	0.21	<0.5	6	21	15	2.18
ZZ51997		0.43	0.010	0.3	2.12	18	<10	170	<0.5	<2	0.19	0.5	9	28	19	2.77
ZZ51998		0.38	0.012	1.5	1.30	46	<10	180	<0.5	<2	0.37	0.6	7	19	19	2.26
ZZ51999		0.47	<0.005	<0.2	2.00	30	<10	110	<0.5	<2	0.18	<0.5	7	25	17	3.07
ZZ52000		0.30	<0.005	0.3	1.12	5	<10	130	<0.5	<2	0.22	0.5	9	16	19	1.97
ZZ51751		0.43	0.019	0.6	1.54	79	<10	140	<0.5	2	0.20	0.7	8	22	19	2.89
ZZ51752		0.40	0.038	1.0	1.23	151	<10	200	<0.5	2	0.25	0.8	7	20	19	2.98
ZZ51753		0.44	0.012	0.2	1.50	42	<10	190	<0.5	<2	0.27	<0.5	8	23	18	2.71
ZZ51754		0.20	0.048	3.1	2.02	63	<10	330	0.7	2	0.38	1.5	10	23	33	3.13
ZZ51755		0.26	0.114	7.4	2.29	251	<10	310	0.6	3	0.47	4.5	5	21	46	3.13
ZZ51756		0.16	0.047	3.5	1.68	74	<10	240	0.5	<2	0.60	2.3	5	17	30	2.21
ZZ51757		0.27	0.017	1.4	1.95	59	<10	240	0.5	<2	0.46	0.6	6	24	29	2.61
ZZ51758		0.53	0.010	0.8	1.30	44	<10	160	<0.5	<2	0.32	<0.5	5	20	15	1.96
ZZ51759		0.32	0.009	0.9	1.87	64	<10	240	<0.5	<2	0.33	<0.5	6	23	16	2.32
ZZ51760		0.25	0.008	1.6	1.77	26	<10	250	<0.5	<2	0.47	<0.5	4	23	22	1.76
ZZ51761		0.38	0.009	0.8	1.98	55	<10	320	0.6	<2	0.72	0.5	7	29	36	2.76
ZZ51762		0.47	0.009	0.4	0.99	48	<10	160	<0.5	<2	0.37	<0.5	5	18	17	2.09
ZZ51763		0.25	0.020	2.5	2.40	31	<10	460	1.0	<2	0.90	<0.5	8	29	57	2.96
ZZ51764		0.38	<0.005	0.8	2.13	18	<10	180	0.5	<2	0.23	<0.5	8	32	25	2.88
ZZ51765		0.33	<0.005	0.2	1.40	17	<10	130	<0.5	<2	0.18	<0.5	6	22	13	2.47
ZZ51766		0.38	0.005	1.5	1.71	33	<10	140	<0.5	<2	0.16	<0.5	7	23	25	2.42
ZZ51767		0.40	0.010	0.7	1.77	27	<10	210	<0.5	<2	0.22	<0.5	7	25	21	2.55
ZZ51768		0.51	0.007	1.2	1.93	27	<10	150	<0.5	<2	0.22	<0.5	8	28	16	2.72
ZZ51769		0.36	0.009	3.0	1.72	48	<10	110	<0.5	<2	0.22	<0.5	6	22	24	2.75
ZZ51770		0.41	0.009	0.7	1.47	36	<10	240	0.5	<2	0.56	<0.5	6	21	38	2.48



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CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51981		<10	<1	0.06	10	0.27	252	<1	0.03	8	680	23	0.03	<2	2	27
ZZ51982		<10	<1	0.06	10	0.24	268	<1	0.03	8	630	18	0.04	2	2	31
ZZ51983		<10	<1	0.11	10	0.36	644	<1	0.02	11	690	60	0.03	3	4	37
ZZ51984		<10	<1	0.06	10	0.37	308	<1	0.02	11	610	39	0.02	2	3	27
ZZ51985		<10	<1	0.08	10	0.47	364	<1	0.02	13	470	25	0.02	<2	3	32
ZZ51986		<10	1	0.11	20	0.40	601	<1	0.02	13	540	60	0.03	3	5	49
ZZ51987		<10	<1	0.07	10	0.41	296	<1	0.02	12	350	22	0.01	<2	3	22
ZZ51988		<10	1	0.08	10	0.35	584	<1	0.02	12	300	31	0.01	<2	3	21
ZZ51989		<10	1	0.11	10	0.47	497	1	0.01	18	670	35	0.03	<2	5	45
ZZ51990		10	1	0.14	10	0.36	878	1	0.01	12	550	26	0.03	<2	3	28
ZZ51991		<10	<1	0.07	10	0.22	939	1	0.01	7	320	9	0.01	<2	2	21
ZZ51992		<10	<1	0.06	10	0.32	600	1	0.01	10	360	11	0.01	<2	3	23
ZZ51993		<10	1	0.05	10	0.18	239	<1	0.02	4	380	17	0.01	<2	1	14
ZZ51994		<10	<1	0.09	10	0.32	703	1	0.01	9	300	26	0.01	<2	2	17
ZZ51995		10	<1	0.08	10	0.34	1395	1	0.01	10	420	26	0.02	<2	2	26
ZZ51996		<10	<1	0.09	10	0.40	236	<1	0.01	12	390	13	0.01	<2	3	15
ZZ51997		10	1	0.10	10	0.46	336	1	0.01	19	360	19	0.01	<2	3	18
ZZ51998		<10	<1	0.08	10	0.28	558	<1	0.02	9	410	33	0.02	<2	3	27
ZZ51999		10	<1	0.14	10	0.54	298	1	0.01	14	450	13	0.01	2	3	16
ZZ52000		10	<1	0.05	10	0.25	814	1	0.02	8	340	9	0.02	<2	1	23
ZZ51751		<10	<1	0.08	10	0.43	334	1	0.01	13	340	17	0.02	2	3	17
ZZ51752		<10	<1	0.06	10	0.36	434	1	0.01	12	390	34	0.02	6	3	20
ZZ51753		<10	1	0.07	10	0.47	435	1	0.01	15	400	14	0.01	<2	3	20
ZZ51754		10	1	0.09	20	0.36	852	1	0.02	13	940	42	0.06	<2	4	33
ZZ51755		10	1	0.13	20	0.38	453	1	0.02	12	940	437	0.07	9	4	44
ZZ51756		<10	1	0.08	10	0.30	390	1	0.02	9	940	62	0.07	<2	3	49
ZZ51757		10	<1	0.10	10	0.39	474	1	0.01	12	780	30	0.04	<2	3	34
ZZ51758		<10	<1	0.06	10	0.41	297	1	0.01	9	500	26	0.02	<2	3	22
ZZ51759		10	1	0.09	10	0.41	511	1	0.01	10	640	28	0.04	<2	3	29
ZZ51760		10	1	0.09	10	0.38	254	1	0.02	11	680	26	0.06	<2	3	37
ZZ51761		10	1	0.10	10	0.49	490	1	0.01	16	760	25	0.05	<2	4	53
ZZ51762		<10	1	0.07	10	0.34	579	1	0.01	9	320	39	0.01	2	3	25
ZZ51763		10	1	0.13	30	0.46	576	1	0.01	18	1260	26	0.08	2	6	57
ZZ51764		10	<1	0.09	10	0.50	351	1	0.01	16	290	15	0.01	<2	4	22
ZZ51765		10	<1	0.10	10	0.36	450	1	0.01	10	260	12	0.01	<2	3	17
ZZ51766		<10	<1	0.08	10	0.43	251	1	0.01	15	280	16	0.01	<2	3	14
ZZ51767		10	<1	0.09	10	0.43	371	1	0.01	14	280	20	0.01	<2	3	21
ZZ51768		10	<1	0.12	10	0.48	291	1	0.01	18	480	20	0.01	<2	3	18
ZZ51769		10	1	0.10	10	0.37	428	1	0.01	12	340	86	0.01	3	3	20
ZZ51770		<10	1	0.10	10	0.40	498	1	0.02	11	700	43	0.03	<2	4	38



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To: ROCKHAVEN RESOURCES LTD.
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CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51981		<20	0.05	<10	<10	46	<10	105
ZZ51982		<20	0.04	<10	<10	36	<10	66
ZZ51983		<20	0.03	<10	<10	44	<10	101
ZZ51984		<20	0.05	<10	<10	35	<10	62
ZZ51985		<20	0.06	<10	<10	43	<10	64
ZZ51986		<20	0.03	<10	<10	42	<10	177
ZZ51987		<20	0.06	<10	<10	47	<10	66
ZZ51988		<20	0.05	<10	<10	45	<10	55
ZZ51989		<20	0.04	<10	<10	45	<10	112
ZZ51990		<20	0.03	<10	<10	50	<10	97
ZZ51991		<20	0.05	<10	<10	39	<10	39
ZZ51992		<20	0.05	<10	<10	48	<10	49
ZZ51993		<20	0.04	<10	<10	33	<10	31
ZZ51994		<20	0.05	<10	<10	40	<10	81
ZZ51995		<20	0.06	<10	<10	59	<10	83
ZZ51996		<20	0.06	<10	<10	44	<10	51
ZZ51997		<20	0.08	<10	<10	56	<10	59
ZZ51998		<20	0.04	<10	<10	50	<10	106
ZZ51999		<20	0.09	<10	<10	68	<10	73
ZZ52000		<20	0.05	<10	<10	46	<10	61
ZZ51751		<20	0.06	<10	<10	52	<10	93
ZZ51752		<20	0.05	<10	<10	47	<10	117
ZZ51753		<20	0.07	<10	<10	48	<10	56
ZZ51754		<20	0.04	<10	<10	48	<10	118
ZZ51755		<20	0.03	<10	<10	40	<10	511
ZZ51756		<20	0.03	<10	<10	38	<10	322
ZZ51757		<20	0.05	<10	<10	52	<10	134
ZZ51758		<20	0.06	<10	<10	42	<10	89
ZZ51759		<20	0.05	<10	<10	46	<10	96
ZZ51760		<20	0.04	<10	<10	36	<10	86
ZZ51761		<20	0.04	<10	<10	50	<10	83
ZZ51762		<20	0.05	<10	<10	38	<10	85
ZZ51763		<20	0.02	<10	<10	50	<10	92
ZZ51764		<20	0.07	<10	<10	59	<10	60
ZZ51765		<20	0.08	<10	<10	54	<10	48
ZZ51766		<20	0.06	<10	<10	46	<10	53
ZZ51767		<20	0.06	<10	<10	52	<10	69
ZZ51768		<20	0.08	<10	<10	54	<10	79
ZZ51769		<20	0.05	<10	<10	49	<10	86
ZZ51770		<20	0.05	<10	<10	46	<10	78



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51771		0.42	0.031	0.3	1.47	24	<10	170	<0.5	<2	0.36	<0.5	8	24	19	2.54
ZZ51772		0.43	0.006	0.3	1.01	32	<10	160	<0.5	<2	0.36	<0.5	4	16	15	1.89
ZZ51773		0.59	<0.005	0.5	1.31	25	<10	190	<0.5	<2	0.48	<0.5	5	24	22	2.07
ZZ51774		0.71	0.008	1.0	1.30	33	<10	150	<0.5	<2	0.39	<0.5	4	22	14	1.83
ZZ51775		0.47	0.014	1.1	2.59	53	<10	310	0.5	<2	0.45	0.5	6	30	22	2.81
ZZ51776		0.37	0.010	0.6	1.64	49	<10	220	<0.5	<2	0.40	0.5	8	22	19	2.28
ZZ51777		0.46	0.021	1.1	1.62	46	<10	160	<0.5	<2	0.33	0.6	5	24	18	2.15
ZZ51778		0.38	0.035	1.5	1.27	117	<10	250	<0.5	2	0.29	1.6	5	18	20	2.31
ZZ51779		0.44	0.041	1.7	1.44	98	<10	220	<0.5	3	0.35	1.8	6	21	32	2.72
ZZ51780		0.25	0.108	4.7	2.73	135	<10	420	1.0	4	0.55	1.9	9	29	45	3.96
ZZ51781		0.56	0.025	0.7	1.27	66	<10	120	<0.5	<2	0.24	<0.5	6	20	14	2.25
ZZ51782		0.29	0.014	0.4	1.16	45	<10	120	<0.5	<2	0.30	0.5	7	20	18	2.23
ZZ51783		0.27	0.022	1.4	1.79	77	<10	230	0.5	<2	0.36	1.1	6	23	24	2.72
ZZ51784		0.26	0.092	1.4	1.57	51	<10	280	0.5	3	0.40	0.7	7	22	26	2.90
ZZ51785		0.30	0.023	0.6	1.36	26	<10	160	<0.5	<2	0.23	<0.5	5	23	13	2.30
ZZ51786		0.24	0.037	3.9	1.87	61	<10	230	<0.5	<2	0.47	2.4	5	21	24	2.42
ZZ51787		0.35	0.009	0.5	1.67	25	<10	160	<0.5	<2	0.27	<0.5	6	27	17	2.27
ZZ51788		0.22	0.016	1.7	2.06	42	<10	200	<0.5	<2	0.40	<0.5	5	22	19	2.50
ZZ51789		0.23	0.014	1.1	1.52	26	<10	190	<0.5	<2	0.38	<0.5	4	18	12	2.20
ZZ51790		0.37	<0.005	0.4	1.67	20	<10	240	0.5	<2	0.64	<0.5	9	37	29	3.26
ZZ51791		0.33	<0.005	0.3	1.40	24	<10	220	<0.5	<2	0.44	<0.5	5	24	21	2.25
ZZ51792		0.38	0.005	0.3	1.07	16	<10	180	<0.5	<2	0.39	<0.5	5	20	18	1.89
ZZ51793		0.28	0.011	0.9	1.23	42	<10	260	0.6	<2	0.45	<0.5	5	20	34	2.21
ZZ51794		0.25	0.010	1.0	1.22	32	<10	190	<0.5	<2	0.46	<0.5	5	21	24	2.06
ZZ51795		0.16	0.039	2.0	1.71	63	<10	320	0.7	<2	0.78	0.5	5	23	45	2.38
ZZ51796		0.29	0.017	1.6	1.59	55	<10	370	0.6	<2	0.62	0.7	6	26	35	2.43
ZZ51797		0.38	<0.005	0.2	1.34	17	<10	120	<0.5	<2	0.22	<0.5	7	22	13	2.01
ZZ51798		0.39	0.007	0.2	1.54	37	<10	230	<0.5	<2	0.28	<0.5	6	22	15	2.16
ZZ51799		0.30	0.010	0.9	1.34	28	<10	190	<0.5	<2	0.32	<0.5	5	19	22	1.95
ZZ51800		0.46	0.010	0.8	1.38	29	<10	260	<0.5	<2	0.48	<0.5	7	26	36	2.24
ZZ51801		0.30	<0.005	0.3	0.91	20	<10	140	<0.5	<2	0.32	<0.5	4	18	10	1.67
ZZ51802		0.26	0.049	6.8	2.87	56	<10	370	1.1	<2	0.78	0.5	5	30	83	3.17
ZZ51803		0.34	0.006	0.4	1.17	21	<10	180	<0.5	<2	0.40	<0.5	5	22	21	1.94
ZZ51804		0.40	0.005	0.7	1.62	19	<10	260	0.5	<2	0.67	<0.5	7	29	29	2.32
ZZ51805		0.42	0.005	0.3	1.16	18	<10	190	<0.5	<2	0.45	<0.5	6	26	19	2.07
ZZ51806		0.21	0.016	1.5	2.11	39	<10	260	<0.5	<2	0.47	<0.5	5	22	20	2.38
ZZ51807		0.42	0.005	0.2	1.17	22	<10	220	0.5	<2	0.49	<0.5	7	32	23	2.69
ZZ51808		0.29	0.018	1.8	1.83	21	<10	240	<0.5	<2	0.40	0.7	5	26	24	2.09
ZZ51809		0.29	0.058	1.7	1.55	74	<10	230	0.5	<2	0.37	0.9	6	23	28	2.53
ZZ51810		0.21	0.064	5.2	2.00	69	<10	230	0.6	5	0.52	1.9	8	22	55	3.35



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51771		<10	<1	0.10	10	0.46	480	1	0.01	12	370	16	0.01	<2	3	25
ZZ51772		<10	<1	0.07	10	0.32	288	1	0.01	6	460	33	0.02	<2	3	23
ZZ51773		<10	1	0.07	10	0.43	373	1	0.01	13	500	18	0.02	<2	3	33
ZZ51774		<10	<1	0.08	10	0.37	210	1	0.01	9	560	27	0.02	<2	3	26
ZZ51775		10	<1	0.11	10	0.48	481	<1	0.02	14	830	29	0.05	<2	4	40
ZZ51776		10	<1	0.09	10	0.40	821	<1	0.02	11	600	30	0.02	<2	3	30
ZZ51777		<10	<1	0.07	10	0.46	349	<1	0.02	12	530	34	0.01	<2	3	25
ZZ51778		<10	<1	0.08	10	0.37	311	<1	0.02	9	310	81	0.02	2	3	25
ZZ51779		<10	<1	0.08	10	0.40	425	<1	0.02	11	510	213	0.02	3	3	31
ZZ51780		10	1	0.12	20	0.44	654	1	0.02	19	1200	58	0.07	<2	6	47
ZZ51781		<10	1	0.06	10	0.38	227	<1	0.01	11	350	15	0.01	<2	3	20
ZZ51782		<10	<1	0.06	10	0.43	315	<1	0.02	12	450	13	0.01	<2	3	22
ZZ51783		10	<1	0.07	10	0.45	398	<1	0.02	12	340	23	0.02	<2	4	29
ZZ51784		<10	<1	0.09	10	0.39	424	1	0.02	13	680	38	0.03	<2	4	35
ZZ51785		<10	<1	0.06	10	0.43	226	<1	0.02	11	180	16	0.01	<2	3	21
ZZ51786		10	<1	0.10	10	0.36	270	<1	0.03	11	880	52	0.06	<2	3	40
ZZ51787		10	<1	0.06	10	0.45	280	<1	0.02	14	440	23	0.01	<2	4	20
ZZ51788		10	<1	0.10	10	0.36	282	<1	0.03	9	760	28	0.04	<2	4	32
ZZ51789		<10	<1	0.07	10	0.30	181	<1	0.02	8	780	32	0.03	<2	3	28
ZZ51790		10	<1	0.13	10	0.60	485	<1	0.03	21	820	9	0.02	<2	8	54
ZZ51791		<10	<1	0.09	10	0.43	284	<1	0.02	12	400	16	0.01	<2	3	33
ZZ51792		<10	<1	0.07	10	0.38	289	<1	0.02	11	640	16	0.01	<2	3	27
ZZ51793		<10	<1	0.08	20	0.36	556	<1	0.02	11	530	43	0.02	<2	4	31
ZZ51794		<10	<1	0.08	10	0.36	772	<1	0.03	10	480	45	0.02	<2	3	35
ZZ51795		<10	<1	0.14	20	0.36	597	<1	0.03	13	690	55	0.03	2	5	50
ZZ51796		<10	<1	0.10	10	0.42	646	<1	0.02	14	640	86	0.02	3	4	42
ZZ51797		<10	1	0.07	10	0.38	484	<1	0.02	11	430	16	0.01	<2	3	18
ZZ51798		<10	<1	0.09	10	0.39	375	<1	0.02	11	320	11	0.01	<2	3	23
ZZ51799		<10	1	0.09	10	0.36	403	<1	0.02	12	420	21	0.01	<2	3	21
ZZ51800		<10	<1	0.09	10	0.48	388	<1	0.02	14	430	22	0.02	2	3	36
ZZ51801		<10	1	0.07	10	0.36	260	<1	0.02	8	230	17	0.01	<2	2	23
ZZ51802		10	1	0.16	40	0.40	426	<1	0.02	19	910	52	0.07	2	8	63
ZZ51803		<10	<1	0.07	10	0.38	362	<1	0.02	11	440	29	0.01	<2	3	29
ZZ51804		10	<1	0.09	10	0.42	232	<1	0.02	14	630	29	0.03	<2	5	46
ZZ51805		<10	<1	0.09	10	0.39	249	<1	0.02	12	690	17	0.01	<2	5	32
ZZ51806		10	<1	0.12	10	0.35	317	<1	0.03	10	670	34	0.04	<2	4	42
ZZ51807		<10	1	0.13	20	0.40	343	<1	0.02	16	1000	14	<0.01	<2	6	46
ZZ51808		10	<1	0.08	10	0.32	234	<1	0.03	12	720	22	0.05	<2	4	39
ZZ51809		<10	1	0.06	20	0.44	335	<1	0.02	12	490	37	0.02	2	3	38
ZZ51810		10	1	0.10	20	0.41	498	1	0.02	14	960	671	0.07	2	3	53



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51771		<20	0.06	<10	<10	52	<10	69
ZZ51772		<20	0.04	<10	<10	35	<10	56
ZZ51773		<20	0.05	<10	<10	42	<10	51
ZZ51774		<20	0.05	<10	<10	38	<10	58
ZZ51775		<20	0.06	<10	<10	56	<10	143
ZZ51776		<20	0.06	<10	<10	47	<10	94
ZZ51777		<20	0.06	<10	<10	44	<10	122
ZZ51778		<20	0.05	<10	<10	43	<10	204
ZZ51779		<20	0.04	<10	<10	43	<10	253
ZZ51780		<20	0.03	<10	<10	54	<10	248
ZZ51781		<20	0.05	<10	<10	45	<10	62
ZZ51782		<20	0.07	<10	<10	44	<10	71
ZZ51783		<20	0.05	<10	<10	57	<10	112
ZZ51784		<20	0.05	<10	<10	47	<10	97
ZZ51785		<20	0.08	<10	<10	48	<10	66
ZZ51786		<20	0.04	<10	<10	45	<10	241
ZZ51787		<20	0.08	<10	<10	51	<10	69
ZZ51788		<20	0.05	<10	<10	50	<10	120
ZZ51789		<20	0.07	<10	<10	55	<10	107
ZZ51790		<20	0.09	<10	<10	73	<10	76
ZZ51791		<20	0.06	<10	<10	47	<10	72
ZZ51792		<20	0.05	<10	<10	38	<10	49
ZZ51793		<20	0.04	<10	<10	40	<10	75
ZZ51794		<20	0.05	<10	<10	41	<10	77
ZZ51795		<20	0.03	<10	<10	40	<10	116
ZZ51796		<20	0.04	<10	<10	42	<10	154
ZZ51797		<20	0.06	<10	<10	43	<10	59
ZZ51798		<20	0.04	<10	<10	43	<10	56
ZZ51799		<20	0.05	<10	<10	38	<10	72
ZZ51800		<20	0.06	<10	<10	44	<10	74
ZZ51801		<20	0.07	<10	<10	39	<10	59
ZZ51802		<20	0.03	<10	<10	49	<10	187
ZZ51803		<20	0.06	<10	<10	41	<10	59
ZZ51804		<20	0.06	<10	<10	52	<10	68
ZZ51805		<20	0.07	<10	<10	48	<10	58
ZZ51806		<20	0.05	<10	<10	44	<10	147
ZZ51807		<20	0.09	<10	<10	63	<10	75
ZZ51808		<20	0.04	<10	<10	42	<10	104
ZZ51809		<20	0.05	<10	<10	46	<10	143
ZZ51810		<20	0.04	<10	<10	48	<10	178



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51811		0.24	0.017	0.6	1.51	51	<10	150	<0.5	2	0.28	0.7	6	23	16	2.49
ZZ51812		0.27	0.012	0.7	1.61	57	<10	150	<0.5	2	0.23	1.0	7	23	17	2.71
ZZ51813		0.24	0.030	2.7	2.25	66	<10	310	0.6	2	0.53	1.0	8	28	43	3.07
ZZ51814		0.22	0.019	0.7	1.60	68	<10	220	0.5	<2	0.57	0.8	8	24	25	2.33
ZZ51815		0.32	0.043	1.6	1.60	141	<10	260	0.6	2	0.52	0.7	7	20	28	2.55
ZZ51816		0.26	0.029	1.7	1.38	81	<10	180	<0.5	<2	0.39	0.8	5	15	21	2.38
ZZ51817		0.40	0.012	0.5	1.31	47	<10	170	<0.5	2	0.29	0.8	8	22	21	2.40
ZZ51818		0.29	0.031	1.4	1.38	92	<10	130	<0.5	<2	0.22	0.8	6	18	19	2.23
ZZ51819		0.45	0.012	0.9	1.35	25	<10	160	<0.5	<2	0.32	0.7	5	23	19	2.04
ZZ51820		0.31	0.015	1.5	1.58	41	<10	180	<0.5	<2	0.30	1.1	6	24	20	2.31



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
ZZ51811		<10	<1	0.08	10	0.48	301	1	0.01	13	400	17	0.02	2	3	22
ZZ51812		10	<1	0.09	10	0.44	321	1	0.01	12	320	15	0.02	2	3	19
ZZ51813		10	<1	0.12	20	0.48	392	1	0.02	16	950	21	0.07	<2	4	44
ZZ51814		<10	<1	0.08	10	0.44	410	1	0.02	14	740	13	0.05	<2	4	47
ZZ51815		<10	<1	0.10	20	0.37	312	1	0.02	12	600	13	0.04	2	5	39
ZZ51816		<10	<1	0.08	10	0.28	258	1	0.02	9	610	12	0.05	<2	3	35
ZZ51817		<10	<1	0.08	10	0.43	631	1	0.02	12	370	17	0.02	<2	3	23
ZZ51818		<10	<1	0.08	10	0.33	364	1	0.01	10	310	14	0.02	2	2	20
ZZ51819		<10	<1	0.07	10	0.44	228	1	0.01	11	290	12	0.02	<2	3	26
ZZ51820		10	<1	0.07	10	0.43	250	1	0.01	11	280	42	0.01	<2	3	28



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CERTIFICATE OF ANALYSIS WH12186248

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm
		20	0.01	10	10	1	10
ZZ51811		<20	0.08	<10	<10	51	<10
ZZ51812		<20	0.07	<10	<10	57	<10
ZZ51813		<20	0.04	<10	<10	57	<10
ZZ51814		<20	0.05	<10	<10	46	<10
ZZ51815		<20	0.04	<10	<10	45	<10
ZZ51816		<20	0.05	<10	<10	49	<10
ZZ51817		<20	0.06	<10	<10	44	<10
ZZ51818		<20	0.05	<10	<10	47	<10
ZZ51819		<20	0.07	<10	<10	46	<10
ZZ51820		<20	0.06	<10	<10	51	<10



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CERTIFICATE WH12190673

Project: Klaza
 P.O. No.: Batch 1
 This report is for 126 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2012.
 The following have access to data associated with this certificate:

JOAN MARIACHER J TARSWELL	HEATHER SMITH MATT TURNER	JARED TARSWELL
------------------------------	------------------------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
EXTRA-01	Extra Sample received in Shipment
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **ROCKHAVEN RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12190673

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51847		0.34	0.058	0.3	0.97	28	<10	110	<0.5	<2	0.18	0.6	6	17	15	2.34
ZZ51848		0.19	0.034	1.2	1.04	30	<10	190	<0.5	2	0.28	0.8	5	14	17	2.12
ZZ51849		0.26	0.045	4.0	1.02	49	<10	140	<0.5	2	0.24	0.8	3	11	12	1.64
ZZ51851		0.36	<0.005	0.4	0.90	22	<10	110	<0.5	<2	0.33	<0.5	4	14	16	1.60
ZZ51852		0.28	<0.005	0.7	0.35	4	<10	50	<0.5	<2	0.18	<0.5	3	5	5	1.02
ZZ51853		0.30	<0.005	0.4	0.74	13	<10	120	<0.5	<2	0.29	<0.5	4	10	12	1.39
ZZ51854		0.20	0.009	0.8	1.41	20	<10	170	<0.5	<2	0.30	<0.5	3	16	13	1.51
ZZ51855		0.31	0.017	2.2	0.87	29	<10	140	<0.5	<2	0.26	<0.5	4	9	9	1.60
ZZ51856		0.24	<0.005	1.0	0.26	5	<10	50	<0.5	<2	0.17	<0.5	2	3	4	0.66
ZZ51857		0.25	<0.005	0.7	1.01	19	<10	140	<0.5	<2	0.36	<0.5	5	17	17	1.88
ZZ51858		0.31	0.014	1.0	1.36	62	<10	220	<0.5	<2	0.64	<0.5	6	21	27	2.11
ZZ51859		0.26	<0.005	0.3	0.68	5	<10	100	<0.5	<2	0.11	<0.5	3	9	7	1.11
ZZ51860		0.29	<0.005	0.6	0.39	<2	<10	60	<0.5	<2	0.13	0.7	3	4	3	0.89
ZZ51861		0.33	0.012	0.7	1.08	11	<10	260	<0.5	<2	0.27	<0.5	6	19	24	1.67
ZZ51862		0.27	<0.005	0.6	1.00	8	<10	110	<0.5	<2	0.15	<0.5	5	13	8	1.73
ZZ51863		0.29	<0.005	1.7	1.03	22	<10	170	<0.5	<2	0.32	1.0	8	15	20	1.95
ZZ51864		0.43	<0.005	1.7	0.82	15	<10	140	<0.5	<2	0.34	0.6	3	10	17	1.42
ZZ51865		0.32	<0.005	0.4	1.10	16	<10	110	<0.5	<2	0.22	<0.5	5	20	8	1.85
ZZ51866		0.37	0.005	1.4	0.64	9	<10	70	<0.5	<2	0.18	0.5	3	7	12	1.01
ZZ51867		0.29	<0.005	0.4	0.52	20	<10	140	<0.5	<2	0.49	<0.5	3	8	12	1.14
ZZ51868		0.38	0.005	1.2	1.22	9	<10	160	<0.5	<2	0.37	1.8	9	19	29	2.18
ZZ51869		0.27	0.005	0.8	0.60	8	<10	150	<0.5	<2	0.56	<0.5	2	6	11	0.94
ZZ51870		0.37	<0.005	0.4	1.17	14	<10	180	<0.5	<2	0.23	0.6	5	18	12	1.75
ZZ51871		0.34	<0.005	0.6	1.26	17	<10	200	<0.5	<2	0.25	1.2	8	21	21	1.98
ZZ51872		0.38	<0.005	0.6	0.33	4	<10	60	<0.5	<2	0.15	<0.5	2	4	4	0.62
ZZ51873		0.38	0.005	0.8	1.13	22	<10	170	<0.5	<2	0.66	0.6	5	19	24	1.83
ZZ51874		0.32	0.011	0.7	0.80	22	<10	210	<0.5	<2	0.51	<0.5	4	13	26	1.42
ZZ51875		0.44	0.006	0.5	1.34	19	<10	280	<0.5	<2	0.35	<0.5	5	21	21	1.98
ZZ51876		0.58	0.010	0.2	0.90	24	<10	170	<0.5	<2	0.30	<0.5	4	16	14	1.65
ZZ51877		0.38	<0.005	0.3	0.53	5	<10	100	<0.5	<2	0.23	0.7	3	9	9	0.94
ZZ51878		0.26	<0.005	0.3	1.11	9	<10	170	<0.5	<2	0.16	0.6	5	13	17	1.26
ZZ51879		0.27	0.044	1.2	1.92	56	<10	340	0.7	<2	0.56	0.7	6	23	55	2.81
ZZ51880		0.24	0.030	2.4	1.63	46	<10	380	0.7	<2	0.70	0.9	7	19	56	2.86
ZZ51881		0.27	0.007	0.2	1.26	18	<10	260	0.5	<2	0.48	<0.5	6	27	27	2.12
ZZ51882		0.27	0.007	1.0	1.61	22	<10	340	<0.5	<2	0.66	<0.5	5	21	27	2.29
ZZ51883		0.25	0.009	1.0	1.57	22	<10	320	<0.5	<2	0.74	1.3	8	21	26	2.50
ZZ51884		0.37	<0.005	0.8	1.04	16	<10	150	<0.5	<2	0.18	0.6	4	15	17	1.72
ZZ51885		0.29	<0.005	0.6	1.08	15	<10	130	<0.5	<2	0.21	<0.5	5	18	12	1.94
ZZ51886		0.48	0.061	3.7	1.45	109	<10	220	<0.5	<2	0.74	2.1	5	18	22	2.14
ZZ51887		0.48	0.013	0.9	1.25	60	<10	170	<0.5	<2	0.29	0.7	4	21	18	2.20



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Project: Klaza

CERTIFICATE OF ANALYSIS WH12190673

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51847		<10	<1	0.06	10	0.28	342	<1	0.03	7	580	12	0.05	<2	1	18
ZZ51848		<10	<1	0.06	10	0.23	376	<1	0.03	6	770	14	0.05	<2	2	21
ZZ51849		<10	<1	0.06	<10	0.18	165	<1	0.04	5	590	48	0.04	2	2	18
ZZ51851		<10	1	0.05	10	0.27	354	<1	0.01	11	450	15	0.02	<2	2	22
ZZ51852		<10	1	0.02	<10	0.08	121	<1	0.03	2	410	4	0.01	<2	1	15
ZZ51853		<10	<1	0.04	<10	0.17	177	<1	0.02	5	680	6	0.03	<2	1	23
ZZ51854		<10	1	0.07	<10	0.26	167	<1	0.02	8	580	10	0.03	<2	2	23
ZZ51855		<10	1	0.04	<10	0.16	261	<1	0.02	4	580	29	0.01	<2	2	18
ZZ51856		<10	<1	0.02	<10	0.06	65	<1	0.03	1	330	2	0.01	<2	1	13
ZZ51857		<10	1	0.05	10	0.30	215	<1	0.02	9	470	14	0.03	<2	2	26
ZZ51858		<10	1	0.07	10	0.36	399	1	0.02	12	610	25	0.03	<2	3	46
ZZ51859		<10	<1	0.05	<10	0.15	164	<1	0.02	5	200	6	0.01	<2	1	15
ZZ51860		<10	<1	0.03	<10	0.05	297	<1	0.03	1	300	2	<0.01	<2	<1	14
ZZ51861		<10	1	0.05	20	0.22	765	<1	0.02	9	670	15	0.03	<2	2	26
ZZ51862		<10	<1	0.05	10	0.22	488	<1	0.02	6	260	7	<0.01	<2	1	16
ZZ51863		<10	1	0.07	10	0.23	902	<1	0.02	7	450	37	0.01	<2	2	27
ZZ51864		<10	1	0.06	<10	0.14	312	<1	0.03	5	430	19	0.02	<2	1	25
ZZ51865		<10	1	0.08	10	0.37	283	<1	0.02	9	250	16	<0.01	<2	2	18
ZZ51866		<10	<1	0.03	10	0.10	302	<1	0.03	3	440	11	0.01	<2	1	17
ZZ51867		<10	<1	0.04	10	0.15	304	<1	0.02	4	510	22	0.03	<2	1	35
ZZ51868		<10	1	0.05	10	0.23	672	<1	0.02	10	330	32	0.01	<2	2	32
ZZ51869		<10	1	0.03	<10	0.09	270	<1	0.03	3	470	9	0.02	<2	1	39
ZZ51870		<10	<1	0.06	10	0.28	336	<1	0.01	10	310	45	<0.01	<2	2	18
ZZ51871		<10	<1	0.06	10	0.28	1445	<1	0.02	11	340	25	0.01	<2	2	27
ZZ51872		<10	<1	0.04	<10	0.07	83	<1	0.03	2	330	5	<0.01	<2	1	13
ZZ51873		<10	<1	0.07	10	0.32	390	<1	0.02	10	500	23	0.03	<2	2	45
ZZ51874		<10	<1	0.06	10	0.20	236	<1	0.02	7	290	16	0.02	2	2	33
ZZ51875		<10	<1	0.07	10	0.38	377	<1	0.01	11	400	27	<0.01	<2	3	26
ZZ51876		<10	1	0.07	10	0.30	253	<1	0.01	7	270	21	<0.01	<2	2	22
ZZ51877		<10	<1	0.04	<10	0.15	228	<1	0.02	4	350	5	0.01	<2	1	20
ZZ51878		<10	1	0.05	10	0.20	392	<1	0.02	6	200	18	<0.01	<2	2	19
ZZ51879		<10	<1	0.14	20	0.38	496	<1	0.01	13	630	57	0.03	<2	5	42
ZZ51880		<10	1	0.09	20	0.28	518	<1	0.02	12	740	32	0.06	2	4	49
ZZ51881		<10	1	0.09	20	0.40	313	<1	0.02	11	700	22	0.01	<2	5	34
ZZ51882		<10	<1	0.07	10	0.28	725	<1	0.02	10	760	20	0.06	<2	4	50
ZZ51883		<10	1	0.07	10	0.30	1215	<1	0.02	10	800	30	0.08	<2	4	54
ZZ51884		<10	<1	0.05	10	0.18	205	<1	0.02	7	400	18	0.02	<2	1	22
ZZ51885		<10	<1	0.06	10	0.28	221	<1	0.02	7	260	16	0.01	<2	2	21
ZZ51886		<10	1	0.09	10	0.30	368	<1	0.02	9	740	55	0.05	<2	3	61
ZZ51887		<10	<1	0.06	10	0.37	236	1	0.01	11	250	18	<0.01	<2	3	24



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51847		<20	0.05	<10	<10	48	<10	67
ZZ51848		<20	0.04	<10	<10	47	<10	97
ZZ51849		<20	0.04	<10	<10	35	<10	144
ZZ51851		<20	0.05	<10	<10	39	<10	52
ZZ51852		<20	0.05	<10	<10	33	<10	29
ZZ51853		<20	0.05	<10	<10	39	<10	48
ZZ51854		<20	0.04	<10	<10	34	<10	48
ZZ51855		<20	0.06	<10	<10	43	<10	101
ZZ51856		<20	0.03	<10	<10	20	<10	13
ZZ51857		<20	0.06	<10	<10	46	<10	55
ZZ51858		<20	0.04	<10	<10	44	<10	82
ZZ51859		<20	0.05	<10	<10	29	<10	26
ZZ51860		<20	0.04	<10	<10	28	<10	34
ZZ51861		<20	0.04	<10	<10	41	<10	41
ZZ51862		<20	0.05	<10	<10	44	<10	51
ZZ51863		<20	0.05	<10	<10	48	<10	102
ZZ51864		<20	0.04	<10	<10	35	<10	89
ZZ51865		<20	0.07	<10	<10	45	<10	67
ZZ51866		<20	0.03	<10	<10	27	<10	40
ZZ51867		<20	0.03	<10	<10	25	<10	48
ZZ51868		<20	0.07	<10	<10	58	<10	93
ZZ51869		<20	0.04	<10	<10	27	<10	39
ZZ51870		<20	0.04	<10	<10	41	<10	71
ZZ51871		<20	0.04	<10	<10	46	<10	84
ZZ51872		<20	0.03	<10	<10	17	<10	19
ZZ51873		<20	0.04	<10	<10	38	<10	79
ZZ51874		<20	0.03	<10	<10	30	<10	72
ZZ51875		<20	0.04	<10	<10	43	<10	69
ZZ51876		<20	0.05	<10	<10	35	<10	85
ZZ51877		<20	0.04	<10	<10	25	<10	40
ZZ51878		<20	0.03	<10	<10	30	<10	66
ZZ51879		<20	0.03	<10	<10	44	<10	203
ZZ51880		<20	0.03	<10	<10	47	<10	136
ZZ51881		<20	0.06	<10	<10	49	<10	68
ZZ51882		<20	0.04	<10	<10	36	<10	64
ZZ51883		<20	0.04	<10	<10	38	<10	108
ZZ51884		<20	0.03	<10	<10	41	<10	54
ZZ51885		<20	0.06	<10	<10	50	<10	57
ZZ51886		<20	0.04	<10	<10	39	<10	183
ZZ51887		<20	0.06	<10	<10	46	<10	84



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51888		0.37	0.049	2.5	1.07	91	<10	160	0.5	2	0.37	1.6	4	12	38	2.10
ZZ51889		0.39	0.026	1.7	1.27	37	<10	200	<0.5	<2	0.36	<0.5	5	13	26	2.27
ZZ51890		0.41	0.116	3.2	1.21	254	<10	150	<0.5	4	0.26	0.7	6	19	31	2.72
ZZ51891		0.37	0.023	0.9	1.15	66	<10	130	<0.5	2	0.37	<0.5	7	13	18	2.24
ZZ51892		0.30	0.015	0.5	1.48	54	<10	220	0.5	2	0.50	<0.5	7	22	27	2.46
ZZ51630		0.23	0.029	0.4	1.42	93	<10	150	<0.5	2	0.27	0.5	7	21	17	2.83
ZZ51631		0.21	0.019	0.3	1.36	37	<10	150	<0.5	<2	0.28	<0.5	6	22	15	2.49
ZZ51632		0.15	0.022	0.7	1.39	47	<10	260	<0.5	<2	0.35	0.8	6	23	22	2.55
ZZ51633		0.12	0.060	1.5	1.25	65	<10	180	<0.5	2	0.30	1.5	6	18	20	2.33
ZZ51634		0.15	0.007	0.7	1.46	62	<10	150	<0.5	<2	0.26	0.7	8	26	18	2.51
ZZ51635		0.16	0.014	0.7	1.62	64	<10	190	<0.5	<2	0.36	0.6	6	23	22	2.29
ZZ51636		0.16	0.008	0.3	1.38	40	<10	170	<0.5	<2	0.34	<0.5	6	22	14	2.17
ZZ51637		0.12	0.008	0.8	1.10	34	<10	170	<0.5	<2	0.41	<0.5	6	20	13	2.06
ZZ51638		0.17	<0.005	0.2	0.92	25	<10	110	<0.5	<2	0.36	<0.5	5	19	12	1.85
ZZ51639		0.22	<0.005	0.4	1.28	27	<10	140	<0.5	<2	0.39	<0.5	5	22	15	2.12
ZZ51640		0.19	<0.005	<0.2	0.92	25	<10	110	<0.5	<2	0.36	<0.5	5	19	14	1.85
ZZ51641		0.25	<0.005	0.2	1.12	16	<10	150	<0.5	<2	0.36	<0.5	5	20	16	1.85
ZZ51642		0.22	0.008	0.3	1.00	36	<10	180	<0.5	<2	0.35	<0.5	5	17	23	2.05
ZZ51643		0.26	0.009	0.2	0.89	34	<10	120	<0.5	<2	0.31	<0.5	4	17	17	1.66
ZZ51644		0.24	0.012	0.6	1.16	49	<10	260	0.5	<2	0.42	<0.5	6	21	32	2.41
ZZ51645		0.14	0.005	<0.2	1.27	28	<10	200	<0.5	<2	0.39	0.5	6	21	20	2.12
ZZ51646		0.18	0.007	0.3	1.61	17	<10	230	<0.5	<2	0.23	1.8	7	26	15	2.25
ZZ51647		0.25	<0.005	<0.2	1.08	20	<10	130	<0.5	<2	0.23	0.6	5	19	8	1.76
ZZ51648		0.24	<0.005	0.2	0.90	20	<10	160	<0.5	<2	0.27	0.7	7	15	14	1.82
ZZ51649		0.28	0.008	1.1	1.42	45	<10	190	<0.5	<2	0.26	0.7	6	22	15	2.11
ZZ51650		0.28	0.005	1.0	1.89	14	<10	170	<0.5	<2	0.27	0.5	6	30	14	2.57
ZZ51651		0.20	0.029	1.7	1.55	51	<10	210	0.5	<2	0.75	0.6	6	20	39	2.24
ZZ51652		0.17	0.006	0.6	1.57	25	<10	210	<0.5	<2	0.33	0.5	8	26	18	2.25
ZZ51703		0.23	0.006	0.2	1.07	11	<10	190	<0.5	<2	0.43	<0.5	5	21	17	1.73
ZZ51704		0.37	0.006	0.2	1.05	12	<10	150	<0.5	<2	0.36	<0.5	4	23	14	1.81
ZZ51705		0.28	0.038	1.0	1.68	44	<10	380	0.6	<2	0.45	1.1	7	28	37	2.66
ZZ51706		0.34	0.013	0.8	1.06	14	<10	190	<0.5	<2	0.40	0.5	4	16	23	1.58
ZZ51707		0.18	0.033	1.2	1.40	38	<10	290	0.5	<2	0.60	1.3	4	17	40	2.23
ZZ51708		0.33	0.016	0.7	1.36	31	<10	240	0.5	<2	0.52	0.8	5	22	29	2.21
ZZ51709		0.31	0.006	0.2	1.11	13	<10	120	<0.5	<2	0.30	<0.5	5	20	13	1.84
ZZ51710		0.38	0.041	0.7	0.91	76	<10	280	<0.5	<2	0.36	0.8	7	17	29	2.10
ZZ51711		0.25	0.007	0.3	1.14	22	<10	190	<0.5	<2	0.57	<0.5	7	23	26	1.95
ZZ51712		0.38	<0.005	<0.2	0.93	37	<10	90	<0.5	<2	0.24	0.9	6	21	11	2.02
ZZ51713		0.32	0.005	0.5	1.62	24	<10	250	<0.5	<2	0.31	1.1	9	26	31	2.28
ZZ51714		0.25	0.008	0.5	1.28	25	<10	190	<0.5	<2	0.42	0.7	9	23	20	2.11



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51888		<10	1	0.07	10	0.19	312	2	0.03	8	700	13	0.05	<2	3	33
ZZ51889		<10	1	0.07	10	0.21	241	1	0.02	8	880	9	0.04	<2	3	29
ZZ51890		<10	1	0.08	10	0.40	309	1	0.01	10	310	167	0.03	10	3	28
ZZ51891		<10	<1	0.06	10	0.21	401	1	0.03	6	740	10	0.04	<2	2	30
ZZ51892		<10	1	0.07	10	0.42	410	<1	0.02	12	600	17	0.03	<2	3	42
ZZ51630		<10	1	0.07	10	0.47	390	<1	0.01	10	260	22	0.01	<2	3	22
ZZ51631		<10	1	0.07	10	0.44	278	<1	0.01	12	310	24	0.01	<2	3	23
ZZ51632		<10	<1	0.07	10	0.43	376	1	0.02	12	390	32	0.01	<2	3	30
ZZ51633		<10	1	0.07	10	0.35	388	1	0.01	9	470	91	0.02	<2	3	26
ZZ51634		<10	<1	0.09	10	0.45	639	<1	0.01	14	400	45	0.01	<2	3	20
ZZ51635		<10	1	0.09	10	0.42	402	<1	0.02	12	540	42	0.02	<2	3	25
ZZ51636		<10	1	0.07	10	0.44	411	<1	0.02	10	570	28	0.01	<2	3	23
ZZ51637		<10	1	0.09	10	0.34	545	<1	0.02	9	880	39	0.01	<2	3	26
ZZ51638		<10	1	0.06	10	0.37	382	<1	0.02	9	640	29	<0.01	<2	3	22
ZZ51639		<10	1	0.07	10	0.39	344	<1	0.02	10	490	20	0.01	<2	3	26
ZZ51640		<10	<1	0.08	10	0.37	375	<1	0.01	11	590	21	<0.01	<2	3	23
ZZ51641		<10	<1	0.06	10	0.36	295	<1	0.02	10	460	14	0.01	<2	3	25
ZZ51642		<10	1	0.07	10	0.31	629	<1	0.01	8	490	57	0.01	<2	3	24
ZZ51643		<10	1	0.06	10	0.33	462	<1	0.01	9	420	45	<0.01	<2	2	22
ZZ51644		<10	1	0.10	10	0.35	789	<1	0.02	11	370	48	0.01	2	4	32
ZZ51645		<10	1	0.09	10	0.38	317	<1	0.02	10	350	23	0.01	<2	3	28
ZZ51646		<10	1	0.08	10	0.41	531	<1	0.01	12	250	16	0.01	<2	3	20
ZZ51647		<10	<1	0.08	10	0.35	269	<1	0.01	10	210	15	<0.01	<2	2	18
ZZ51648		<10	1	0.11	10	0.22	878	<1	0.02	7	280	19	<0.01	<2	2	23
ZZ51649		<10	1	0.08	10	0.39	501	<1	0.01	11	250	27	<0.01	<2	3	22
ZZ51650		<10	<1	0.09	10	0.50	243	<1	0.01	15	190	25	<0.01	<2	3	24
ZZ51651		<10	1	0.09	20	0.41	594	<1	0.02	10	690	50	0.03	<2	4	49
ZZ51652		<10	1	0.08	10	0.41	520	<1	0.02	12	390	42	0.01	<2	3	29
ZZ51703		<10	<1	0.07	10	0.36	283	<1	0.02	10	540	23	0.01	<2	3	30
ZZ51704		<10	<1	0.08	10	0.39	262	<1	0.02	11	420	20	<0.01	<2	3	25
ZZ51705		<10	1	0.11	10	0.33	887	<1	0.01	13	600	45	0.03	<2	5	39
ZZ51706		<10	1	0.07	10	0.27	206	<1	0.02	8	490	22	0.02	<2	2	28
ZZ51707		<10	1	0.09	10	0.37	335	<1	0.02	9	560	66	0.03	<2	3	40
ZZ51708		<10	1	0.08	10	0.39	468	<1	0.02	12	410	55	0.02	<2	4	35
ZZ51709		<10	<1	0.06	10	0.38	254	<1	0.01	11	200	19	<0.01	<2	3	20
ZZ51710		<10	<1	0.09	10	0.29	826	<1	0.02	12	240	78	0.03	3	3	27
ZZ51711		<10	<1	0.07	10	0.38	409	<1	0.02	12	540	39	0.04	<2	3	48
ZZ51712		<10	<1	0.06	10	0.34	301	<1	0.02	9	150	57	0.02	2	2	20
ZZ51713		10	<1	0.10	10	0.45	347	<1	0.02	11	250	41	0.03	2	4	30
ZZ51714		<10	<1	0.08	10	0.41	567	<1	0.02	11	300	53	0.02	<2	3	30



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51888		<20	0.03	<10	<10	33	<10	94
ZZ51889		<20	0.05	<10	<10	47	<10	62
ZZ51890		<20	0.06	<10	<10	46	<10	100
ZZ51891		<20	0.04	<10	<10	47	<10	36
ZZ51892		<20	0.05	<10	<10	46	<10	55
ZZ51630		<20	0.06	<10	<10	56	<10	102
ZZ51631		<20	0.06	<10	<10	47	<10	84
ZZ51632		<20	0.05	<10	<10	46	<10	94
ZZ51633		<20	0.05	<10	<10	40	<10	160
ZZ51634		<20	0.07	<10	<10	54	<10	132
ZZ51635		<20	0.07	<10	<10	54	<10	125
ZZ51636		<20	0.07	<10	<10	50	<10	98
ZZ51637		<20	0.06	<10	<10	45	<10	81
ZZ51638		<20	0.07	<10	<10	40	<10	66
ZZ51639		<20	0.06	<10	<10	46	<10	64
ZZ51640		<20	0.06	<10	<10	39	<10	60
ZZ51641		<20	0.05	<10	<10	38	<10	52
ZZ51642		<20	0.04	<10	<10	37	<10	86
ZZ51643		<20	0.05	<10	<10	34	<10	65
ZZ51644		<20	0.04	<10	<10	41	<10	110
ZZ51645		<20	0.05	<10	<10	43	<10	101
ZZ51646		<20	0.06	<10	<10	52	<10	222
ZZ51647		<20	0.06	<10	<10	39	<10	141
ZZ51648		<20	0.06	<10	<10	46	<10	92
ZZ51649		<20	0.05	<10	<10	45	<10	144
ZZ51650		<20	0.09	<10	<10	58	<10	90
ZZ51651		<20	0.03	<10	<10	40	<10	124
ZZ51652		<20	0.06	<10	<10	52	<10	85
ZZ51703		<20	0.06	<10	<10	38	<10	84
ZZ51704		<20	0.07	<10	<10	40	<10	94
ZZ51705		<20	0.03	<10	<10	45	<10	168
ZZ51706		<20	0.05	<10	<10	34	<10	73
ZZ51707		<20	0.03	<10	<10	40	<10	193
ZZ51708		<20	0.04	<10	<10	40	<10	137
ZZ51709		<20	0.06	<10	<10	40	<10	54
ZZ51710		<20	0.04	<10	<10	32	<10	145
ZZ51711		<20	0.04	<10	<10	38	<10	80
ZZ51712		<20	0.05	<10	<10	45	<10	183
ZZ51713		<20	0.06	<10	<10	54	<10	129
ZZ51714		<20	0.06	<10	<10	45	<10	118



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Project: Klaza

CERTIFICATE OF ANALYSIS WH12190673

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-I CP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51715		<10	<1	0.14	30	0.43	407	<1	0.02	11	470	86	0.03	3	6	33
ZZ51716		<10	<1	0.10	10	0.36	371	<1	0.02	8	330	57	0.02	2	3	26
ZZ51717		<10	1	0.08	20	0.33	473	<1	0.02	12	1030	36	0.10	2	3	79
ZZ51718		10	<1	0.11	10	0.48	618	<1	0.02	13	270	43	0.02	2	3	26
ZZ51719		<10	<1	0.09	10	0.36	499	<1	0.02	10	440	14	0.02	<2	3	28
ZZ51720		<10	<1	0.09	10	0.33	280	<1	0.02	9	510	13	0.02	<2	2	19
ZZ51822		<10	<1	0.07	10	0.22	207	5	0.02	4	670	55	0.05	<2	2	28
ZZ51823		10	<1	0.08	20	0.41	229	2	0.02	11	650	38	0.04	<2	4	35
ZZ51824		<10	<1	0.07	10	0.36	395	1	0.02	6	580	79	0.04	<2	3	31
ZZ51825		<10	<1	0.10	20	0.37	155	4	0.02	9	590	102	0.04	2	4	39
ZZ51826		<10	<1	0.07	10	0.28	427	8	0.02	6	540	70	0.04	3	3	37
ZZ51827		10	<1	0.09	10	0.39	237	28	0.02	6	650	32	0.07	<2	4	35
ZZ51828		<10	<1	0.06	10	0.35	223	1	0.02	9	650	28	0.04	2	3	30
ZZ51829		<10	<1	0.08	10	0.21	282	1	0.01	5	920	41	0.02	4	2	21
ZZ51830		10	<1	0.12	10	0.35	656	<1	0.02	10	820	60	0.06	<2	4	49



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CERTIFICATE WH12192090

Project: KLAZA
 P.O. No.:
 This report is for 245 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15-AUG-2012.
 The following have access to data associated with this certificate:

JOAN MARIACHER J TARSWELL	HEATHER SMITH	JARED TARSWELL
------------------------------	---------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: KLAZA

CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51831		0.26	0.007	0.3	1.25	34	<10	170	<0.5	<2	0.27	<0.5	6	20	16	2.10
ZZ51832		0.21	0.012	0.2	0.96	24	<10	120	<0.5	<2	0.35	<0.5	6	18	13	1.80
ZZ51833		0.14	0.007	1.7	1.04	66	<10	170	<0.5	<2	0.33	<0.5	6	19	20	2.18
ZZ51834		0.30	0.011	0.8	1.18	61	<10	210	<0.5	<2	0.34	<0.5	6	21	20	2.22
ZZ51835		0.18	0.079	0.7	1.13	130	<10	140	0.5	3	0.30	1.3	7	18	33	3.21
ZZ51836		0.18	0.154	0.9	1.03	117	<10	170	0.5	5	0.29	3.2	5	14	34	3.08
ZZ51837		0.20	0.036	0.7	1.09	69	<10	230	<0.5	2	0.32	0.9	6	18	23	2.36
ZZ51838		0.39	0.008	0.5	1.64	54	<10	170	<0.5	<2	0.35	0.5	8	28	19	2.76
ZZ51839		0.05	<0.005	0.3	1.13	17	<10	300	<0.5	<2	0.97	<0.5	6	17	13	1.66
ZZ51840		0.12	<0.005	0.2	1.26	12	<10	240	<0.5	<2	0.55	<0.5	4	24	19	1.90



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Project: KLAZA

CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-I CP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51831		<10	<1	0.08	10	0.44	243	1	0.01	12	280	16	0.01	2	3	19
ZZ51832		<10	<1	0.06	10	0.38	261	1	0.01	10	590	7	0.01	<2	3	21
ZZ51833		<10	<1	0.07	10	0.40	317	1	0.01	10	570	28	0.01	3	3	21
ZZ51834		<10	<1	0.07	10	0.42	266	2	0.01	11	410	16	0.01	2	3	23
ZZ51835		<10	<1	0.07	20	0.40	505	3	0.01	10	540	56	0.02	5	3	24
ZZ51836		<10	<1	0.07	10	0.25	266	4	0.01	7	540	32	0.02	4	2	25
ZZ51837		<10	<1	0.06	10	0.33	394	3	0.01	9	590	17	0.01	3	3	23
ZZ51838		10	<1	0.11	10	0.50	399	1	0.01	14	380	44	<0.01	2	4	27
ZZ51839		<10	<1	0.07	10	0.24	399	<1	0.03	6	780	22	0.06	2	3	71
ZZ51840		<10	<1	0.09	10	0.36	190	<1	0.02	9	700	19	0.03	<2	5	38



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CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51921		0.32	0.010	1.5	1.21	64	<10	220	0.5	<2	0.47	<0.5	5	19	28	2.22
ZZ51922		0.52	0.012	1.5	1.56	145	<10	190	<0.5	<2	0.31	0.7	6	20	25	2.36
ZZ51923		0.46	0.005	0.5	1.45	72	<10	160	<0.5	<2	0.23	0.5	5	21	14	2.21
ZZ51924		0.37	<0.005	0.8	1.77	23	<10	160	0.5	<2	0.22	<0.5	6	26	22	2.59
ZZ51925		0.41	<0.005	0.9	1.31	18	<10	120	<0.5	<2	0.12	<0.5	7	17	13	1.90
ZZ51926		0.29	0.030	3.1	1.83	196	<10	150	0.6	<2	0.33	1.7	9	18	30	2.71
ZZ51927		0.42	0.029	3.7	1.42	121	<10	130	0.6	<2	0.42	1.7	6	20	25	2.20
ZZ51928		0.23	0.007	0.9	1.21	53	<10	130	<0.5	<2	0.29	<0.5	5	15	16	2.00
ZZ51929		0.30	0.011	2.3	1.27	54	<10	140	<0.5	<2	0.31	<0.5	5	19	16	1.70
ZZ51930		0.27	<0.005	0.3	2.28	32	<10	170	0.5	2	0.17	0.6	7	26	25	2.90
ZZ51931		0.33	<0.005	0.7	1.61	15	<10	110	<0.5	<2	0.16	<0.5	7	23	14	2.31
ZZ51932		0.32	<0.005	1.4	1.47	64	<10	160	<0.5	2	0.22	0.6	8	21	21	2.29
ZZ51933		0.32	0.006	1.6	0.92	26	<10	110	<0.5	<2	0.30	<0.5	3	9	12	1.41
ZZ51934		0.39	<0.005	1.1	0.68	11	<10	110	<0.5	<2	0.17	<0.5	2	6	9	0.69
ZZ51935		0.22	0.010	2.9	1.39	46	<10	180	<0.5	<2	0.46	<0.5	4	15	19	1.63



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CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-I CP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51921		<10	1	0.08	10	0.29	582	1	0.02	9	750	41	0.04	3	3	33
ZZ51922		<10	<1	0.11	10	0.34	546	1	0.01	11	370	55	0.01	4	3	20
ZZ51923		10	<1	0.10	10	0.32	676	1	0.01	9	290	33	0.01	<2	2	20
ZZ51924		10	<1	0.08	10	0.42	356	1	0.01	14	340	25	0.01	<2	4	18
ZZ51925		<10	<1	0.06	10	0.21	875	1	0.01	7	150	39	0.01	<2	3	13
ZZ51926		10	<1	0.08	10	0.47	1200	<1	0.01	8	740	139	0.02	9	3	35
ZZ51927		<10	<1	0.07	20	0.31	790	1	0.01	12	790	69	0.03	2	3	28
ZZ51928		<10	<1	0.07	10	0.21	307	<1	0.02	8	580	28	<0.01	<2	2	22
ZZ51929		<10	<1	0.06	10	0.35	294	<1	0.02	10	540	33	<0.01	3	3	23
ZZ51930		10	<1	0.11	10	0.43	415	<1	0.01	13	240	39	<0.01	3	3	20
ZZ51931		10	<1	0.07	10	0.37	243	<1	0.01	14	280	19	<0.01	2	3	16
ZZ51932		10	<1	0.08	10	0.31	1095	<1	0.02	9	270	29	<0.01	2	2	22
ZZ51933		<10	<1	0.07	10	0.14	195	<1	0.04	4	570	12	<0.01	<2	2	19
ZZ51934		<10	<1	0.05	<10	0.09	229	<1	0.04	3	380	8	<0.01	<2	1	15
ZZ51935		<10	<1	0.09	10	0.21	320	<1	0.04	8	430	26	0.02	<2	3	32



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Project: KLAZA

CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP4 1	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ51936		0.44	0.017	3.2	1.82	72	<10	380	0.8	<2	0.70	1.0	6	22	48	2.69
ZZ51937		0.27	0.019	1.7	1.35	40	<10	210	<0.5	<2	0.61	<0.5	3	15	27	1.47
ZZ51938		0.35	0.015	2.7	1.87	26	<10	310	<0.5	<2	0.55	<0.5	4	22	22	2.01
ZZ51939		0.28	0.016	0.6	1.54	34	<10	200	<0.5	<2	0.28	<0.5	4	20	14	1.88
ZZ51940		0.31	0.017	2.7	1.69	54	<10	210	<0.5	<2	0.41	0.6	5	19	19	2.16



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CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-I CP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ51936		10	<1	0.14	20	0.35	572	1	0.02	13	720	49	0.03	3	5	48
ZZ51937		<10	<1	0.06	10	0.25	175	<1	0.03	8	620	15	0.05	2	2	46
ZZ51938		10	<1	0.10	10	0.35	323	<1	0.02	9	850	27	0.04	2	4	42
ZZ51939		<10	<1	0.07	10	0.37	295	<1	0.02	9	590	16	0.01	<2	3	23
ZZ51940		10	<1	0.09	10	0.32	379	<1	0.03	9	720	24	0.03	2	3	34



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CERTIFICATE OF ANALYSIS WH12192090

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ51936		<20	0.03	<10	<10	51	<10	152
ZZ51937		<20	0.04	<10	<10	28	<10	67
ZZ51938		<20	0.05	<10	<10	46	<10	88
ZZ51939		<20	0.06	<10	<10	43	<10	62
ZZ51940		<20	0.06	<10	<10	50	<10	141



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CERTIFICATE WH12194257

Project: VAL
 P.O. No.: Batch 3
 This report is for 77 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-AUG-2012.
 The following have access to data associated with this certificate:

JOAN MARIACHER J TARSWELL	HEATHER SMITH	JARED TARSWELL
------------------------------	---------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 C/O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016 - 510 W HASTINGS STREET
 VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH12194257

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD002876		0.32	0.007	0.3	1.43	30	<10	130	<0.5	3	0.31	<0.5	6	23	15	2.18
DD002877		0.29	0.022	0.4	1.49	65	<10	210	0.5	3	0.42	<0.5	8	23	30	2.72
DD002878		0.19	0.026	2.1	1.06	68	<10	130	<0.5	<2	0.26	<0.5	4	18	17	1.95
DD002879		0.19	0.053	1.7	0.79	686	<10	220	0.5	6	0.29	1.3	5	12	60	3.75
DD002880		0.21	0.029	0.6	0.72	114	<10	110	<0.5	3	0.31	1.0	4	13	22	2.19
DD002881		0.25	0.154	0.4	1.17	59	<10	130	<0.5	3	0.25	1.3	5	17	15	2.29
DD002882		0.29	0.038	0.9	1.19	79	<10	260	<0.5	6	0.33	1.3	5	20	27	2.57
DD002883		0.22	0.007	0.6	1.18	46	<10	190	<0.5	<2	0.30	0.5	6	21	15	2.17
DD002884		0.10	0.008	0.5	1.22	6	<10	270	<0.5	<2	0.65	<0.5	5	19	23	1.61
DD002885		0.20	0.006	0.2	1.04	12	<10	190	<0.5	<2	0.52	<0.5	5	21	15	1.70
DD002886		0.15	0.063	2.0	1.74	36	<10	490	0.7	<2	0.72	2.6	7	25	57	2.33
DD002887		0.08	NSS	5.3	2.40	32	<10	600	1.3	<2	1.18	2.1	6	24	116	2.35
DD002888		0.29	0.009	1.0	1.58	18	<10	240	<0.5	<2	0.35	0.8	6	25	22	2.11
DD002889		0.18	0.015	1.1	1.45	14	<10	370	0.5	<2	0.53	0.7	6	24	36	1.90
DD002890		0.31	0.006	0.2	1.33	13	<10	250	<0.5	<2	0.33	<0.5	5	22	12	1.86
DD002891		0.23	0.012	0.8	1.18	31	<10	320	<0.5	<2	0.46	0.5	5	21	25	1.65
DD002892		0.23	<0.005	0.5	1.27	14	<10	260	<0.5	<2	0.19	0.6	7	23	11	2.00
DD002893		0.23	0.005	1.6	1.90	23	<10	240	<0.5	<2	0.22	0.6	8	26	20	2.29
DD002894		0.23	<0.005	0.3	2.04	21	<10	250	0.5	<2	0.16	<0.5	8	19	26	3.47
DD002895		0.26	0.026	0.6	1.19	35	<10	240	<0.5	<2	0.43	<0.5	5	19	18	1.94
DD002896		0.21	<0.005	<0.2	1.12	27	<10	210	<0.5	<2	0.25	0.5	5	16	9	1.95
DD002897		0.19	<0.005	0.2	1.08	23	<10	120	<0.5	<2	0.27	<0.5	5	18	8	1.76
DD002898		0.22	<0.005	0.6	1.22	19	<10	150	<0.5	<2	0.32	<0.5	5	19	12	1.80
DD002899		0.18	<0.005	1.7	1.26	30	<10	220	<0.5	<2	0.68	1.1	6	19	28	1.86
DD002900		0.17	0.010	0.9	1.15	25	<10	240	<0.5	<2	0.85	1.3	6	21	33	1.94
DD002901		0.22	<0.005	0.8	1.24	13	<10	230	<0.5	<2	0.45	2.2	6	21	27	1.90
DD002902		0.17	0.008	0.5	1.21	13	<10	240	<0.5	<2	0.72	0.8	5	22	28	1.65
DD002903		0.22	0.009	0.2	0.90	29	<10	190	<0.5	<2	0.55	0.6	9	15	22	1.97
DD002904		0.24	0.027	1.1	1.10	51	<10	360	0.5	<2	0.57	0.7	4	18	28	1.86
DD002905		0.27	0.017	0.4	1.48	36	<10	190	0.6	2	0.49	0.8	6	23	34	2.28
DD002906		0.20	0.018	1.7	0.93	42	<10	230	<0.5	3	0.77	0.8	5	14	25	1.69
DD002907		0.25	0.008	0.3	1.18	18	<10	210	<0.5	2	0.41	0.9	9	22	28	1.96
DD002908		0.20	0.014	0.4	1.18	37	<10	250	<0.5	2	0.41	0.9	7	21	25	1.85
DD002909		0.28	0.005	<0.2	0.97	16	<10	150	<0.5	<2	0.52	<0.5	7	27	20	2.09
DD002910		0.34	0.059	1.5	0.76	263	<10	270	1.1	6	0.29	4.4	8	15	50	4.35
DD002911		0.25	0.034	0.5	1.34	86	<10	170	0.6	3	0.55	2.0	13	40	56	3.37
ZZ35763		0.38	0.023	0.7	1.90	57	<10	160	0.5	3	0.37	1.1	10	27	35	2.91
ZZ35764		0.54	0.011	0.8	1.72	42	<10	140	<0.5	3	0.28	0.5	8	25	17	2.49
ZZ35765		0.36	0.008	0.9	0.92	25	<10	70	<0.5	2	0.19	<0.5	5	14	12	1.53
ZZ35766		0.60	0.013	0.6	0.94	28	<10	90	<0.5	2	0.22	<0.5	5	14	11	1.57



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
DD002876		<10	<1	0.06	10	0.44	299	1	0.02	10	290	13	0.01	<2	3	23
DD002877		<10	<1	0.09	20	0.47	305	1	0.02	11	330	28	0.06	<2	4	40
DD002878		<10	<1	0.06	10	0.34	211	1	0.02	8	270	30	0.01	<2	2	21
DD002879		<10	<1	0.07	10	0.24	333	3	0.02	5	520	59	0.06	11	3	45
DD002880		<10	<1	0.06	10	0.24	235	2	0.02	6	640	47	0.02	<2	2	25
DD002881		<10	<1	0.06	10	0.33	235	2	0.01	8	280	18	0.01	<2	2	20
DD002882		<10	<1	0.06	10	0.32	349	3	0.02	9	340	23	0.01	<2	3	29
DD002883		<10	<1	0.07	10	0.36	338	<1	0.02	10	370	41	<0.01	<2	3	23
DD002884		<10	<1	0.07	10	0.26	208	<1	0.03	9	770	18	0.04	<2	3	43
DD002885		<10	<1	0.07	10	0.34	286	<1	0.02	8	550	16	0.01	<2	3	33
DD002886		<10	<1	0.12	20	0.36	2000	<1	0.02	13	710	64	0.05	<2	5	47
DD002887		<10	<1	0.14	60	0.27	1310	<1	0.03	17	1170	55	0.12	<2	6	98
DD002888		<10	<1	0.08	10	0.41	596	<1	0.02	10	300	32	<0.01	<2	3	23
DD002889		<10	<1	0.08	10	0.39	426	<1	0.02	13	630	20	0.02	<2	4	35
DD002890		<10	<1	0.07	10	0.38	287	<1	0.02	10	280	12	0.01	<2	3	25
DD002891		<10	<1	0.10	10	0.30	296	<1	0.02	9	300	31	0.01	<2	3	37
DD002892		<10	<1	0.10	10	0.37	780	<1	0.02	10	170	22	<0.01	<2	2	15
DD002893		<10	<1	0.09	10	0.43	551	<1	0.02	18	220	40	<0.01	<2	3	19
DD002894		<10	<1	0.09	10	0.31	349	<1	0.02	12	270	35	0.01	<2	3	17
DD002895		<10	<1	0.07	10	0.34	341	<1	0.02	9	610	29	0.02	<2	3	30
DD002896		<10	<1	0.10	10	0.25	559	<1	0.01	8	380	41	<0.01	<2	2	18
DD002897		<10	<1	0.07	10	0.34	263	<1	0.02	9	310	27	<0.01	<2	2	19
DD002898		<10	<1	0.07	10	0.37	319	<1	0.02	9	370	25	0.01	<2	3	25
DD002899		<10	<1	0.10	10	0.31	721	<1	0.03	10	540	50	0.03	<2	3	45
DD002900		<10	<1	0.07	10	0.35	514	<1	0.02	9	700	78	0.05	<2	3	59
DD002901		<10	<1	0.07	10	0.37	398	1	0.02	9	320	42	0.01	<2	3	32
DD002902		<10	<1	0.06	10	0.36	217	<1	0.03	11	590	30	0.03	<2	3	48
DD002903		<10	<1	0.07	10	0.31	1520	<1	0.02	6	490	136	0.02	2	2	38
DD002904		<10	<1	0.10	10	0.28	603	<1	0.02	9	310	74	0.02	3	4	41
DD002905		<10	<1	0.10	10	0.39	535	2	0.02	12	330	43	0.02	2	4	34
DD002906		<10	<1	0.06	10	0.22	711	1	0.03	7	500	60	0.05	2	2	52
DD002907		<10	1	0.07	10	0.34	789	1	0.02	12	480	52	0.02	<2	4	29
DD002908		<10	<1	0.07	10	0.29	456	1	0.02	10	460	57	0.02	<2	4	28
DD002909		<10	<1	0.10	10	0.33	397	1	0.03	13	870	13	0.01	<2	5	43
DD002910		<10	<1	0.09	20	0.16	1245	8	0.01	15	710	159	0.01	7	6	27
DD002911		<10	1	0.17	20	0.55	360	5	0.03	21	1120	49	0.02	3	7	45
ZZ35763		10	<1	0.08	10	0.53	448	2	0.02	16	520	15	0.03	<2	4	33
ZZ35764		10	1	0.07	10	0.49	313	2	0.02	13	290	16	0.02	<2	3	24
ZZ35765		<10	<1	0.05	10	0.23	164	1	0.03	6	250	8	0.02	<2	2	17
ZZ35766		<10	<1	0.05	10	0.26	180	1	0.03	7	330	9	0.02	<2	2	19



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
DD002876		<20	0.07	<10	<10	49	<10	46
DD002877		<20	0.06	<10	<10	49	<10	55
DD002878		<20	0.06	<10	<10	42	<10	61
DD002879		<20	0.03	<10	<10	35	<10	195
DD002880		<20	0.04	<10	<10	34	<10	117
DD002881		<20	0.04	<10	<10	36	<10	215
DD002882		<20	0.05	<10	<10	41	<10	177
DD002883		<20	0.06	<10	<10	46	<10	91
DD002884		<20	0.05	<10	<10	41	<10	59
DD002885		<20	0.06	<10	<10	41	<10	52
DD002886		<20	0.03	<10	<10	41	<10	207
DD002887		<20	0.02	<10	<10	36	<10	184
DD002888		<20	0.06	<10	<10	49	<10	128
DD002889		<20	0.05	<10	<10	42	<10	151
DD002890		<20	0.06	<10	<10	40	<10	70
DD002891		<20	0.04	<10	<10	31	<10	111
DD002892		<20	0.07	<10	<10	42	<10	65
DD002893		<20	0.06	<10	<10	45	<10	86
DD002894		<20	0.03	<10	<10	48	<10	122
DD002895		<20	0.05	<10	<10	40	<10	81
DD002896		<20	0.02	<10	<10	30	<10	116
DD002897		<20	0.06	<10	<10	37	<10	79
DD002898		<20	0.06	<10	<10	39	<10	81
DD002899		<20	0.05	<10	<10	41	<10	103
DD002900		<20	0.04	<10	<10	41	<10	111
DD002901		<20	0.05	<10	<10	42	<10	167
DD002902		<20	0.05	<10	<10	41	<10	73
DD002903		<20	0.05	<10	<10	37	<10	111
DD002904		<20	0.03	<10	<10	31	<10	166
DD002905		<20	0.04	<10	<10	43	<10	162
DD002906		<20	0.03	<10	<10	34	<10	85
DD002907		<20	0.05	<10	<10	39	<10	86
DD002908		<20	0.04	<10	<10	42	<10	85
DD002909		<20	0.06	<10	<10	53	<10	66
DD002910		<20	0.01	<10	10	30	<10	559
DD002911		<20	0.06	<10	<10	65	<10	142
ZZ35763		<20	0.05	<10	<10	55	<10	99
ZZ35764		<20	0.07	<10	<10	55	<10	84
ZZ35765		<20	0.06	<10	<10	42	<10	42
ZZ35766		<20	0.05	<10	<10	39	<10	47



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA24 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ35767		0.21	0.049	3.0	1.64	73	<10	190	0.6	4	0.38	1.5	7	16	28	2.17
ZZ35768		0.42	0.037	3.8	1.91	75	<10	260	0.5	3	0.49	1.5	5	20	28	2.46
ZZ35769		0.46	0.011	0.5	1.25	25	<10	150	<0.5	2	0.32	<0.5	5	22	17	1.86
ZZ35770		0.31	0.009	0.7	1.51	17	<10	200	<0.5	2	0.39	<0.5	6	27	25	2.00
ZZ35771		0.19	0.021	1.8	2.01	40	<10	260	<0.5	<2	0.61	1.1	7	21	18	2.15
ZZ35772		0.40	0.013	<0.2	1.07	16	<10	130	<0.5	2	0.42	<0.5	5	22	16	1.82
ZZ35773		0.33	0.019	1.0	1.54	23	<10	220	0.5	<2	0.57	<0.5	5	23	26	1.96
ZZ35774		0.34	0.013	0.7	1.23	32	<10	230	0.5	<2	0.43	<0.5	6	20	29	2.03
ZZ35775		0.44	0.020	1.1	1.01	30	<10	120	<0.5	<2	0.44	<0.5	4	14	23	1.67
ZZ35776		0.23	<0.005	0.8	0.56	3	<10	50	<0.5	<2	0.19	<0.5	3	7	10	0.88
ZZ35777		0.84	0.022	0.7	1.20	42	<10	220	<0.5	<2	0.40	<0.5	5	20	30	2.06
ZZ35778		0.29	0.008	0.3	1.12	36	<10	200	<0.5	<2	0.42	<0.5	5	18	14	1.70
ZZ35779		0.40	0.005	0.2	1.91	35	<10	200	<0.5	<2	0.28	<0.5	7	26	18	2.52
ZZ35780		0.33	0.011	1.6	1.70	74	<10	170	<0.5	2	0.24	<0.5	7	22	19	2.18
ZZ35781		0.62	<0.005	0.4	1.37	16	<10	130	<0.5	2	0.23	<0.5	6	20	11	1.93
ZZ35782		0.39	0.006	0.9	0.81	17	<10	90	<0.5	<2	0.25	<0.5	3	11	9	1.19
ZZ35783		0.34	0.010	1.1	1.24	42	<10	170	<0.5	2	0.35	<0.5	5	18	16	1.71
ZZ35784		0.44	<0.005	0.2	1.23	10	<10	70	<0.5	3	0.20	<0.5	6	18	10	1.90
ZZ35785		0.37	0.006	0.7	1.43	11	<10	180	<0.5	3	0.43	0.5	7	23	19	2.00
ZZ35786		0.35	<0.005	0.5	1.62	16	<10	210	<0.5	2	0.31	0.9	9	27	13	2.22
ZZ35787		0.33	0.007	1.1	1.41	19	<10	160	<0.5	2	0.24	0.7	6	20	19	1.95
ZZ35788		0.54	0.015	2.4	1.21	49	<10	150	<0.5	<2	0.22	0.7	5	18	16	1.73
ZZ35789		0.27	0.021	2.2	1.38	17	<10	220	0.6	<2	0.90	<0.5	7	13	42	1.58
ZZ35790		0.33	0.026	1.7	1.38	26	<10	290	0.7	2	0.96	0.8	5	18	46	1.76
ZZ35791		0.29	0.018	1.2	1.08	20	<10	240	<0.5	<2	0.81	0.7	4	14	40	1.56
ZZ35792		0.32	0.019	0.5	0.87	30	<10	200	<0.5	<2	0.34	<0.5	3	15	17	1.60
ZZ35793		0.30	0.023	0.9	1.18	12	<10	230	<0.5	<2	0.51	<0.5	3	17	25	1.60
ZZ35794		0.26	0.007	0.2	0.91	10	<10	210	<0.5	<2	0.61	<0.5	3	16	17	1.59
ZZ35795		0.62	0.007	0.2	1.08	19	<10	220	<0.5	<2	0.47	<0.5	6	25	21	2.32
ZZ35796		0.41	0.013	0.5	1.46	26	<10	330	0.5	<2	0.70	<0.5	6	28	25	2.62
ZZ35797		0.29	0.025	1.0	1.12	110	<10	220	<0.5	<2	0.57	1.1	6	17	14	2.84
ZZ35798		0.24	0.023	1.5	1.24	49	<10	270	<0.5	<2	0.45	0.6	6	13	13	2.08
ZZ35801		0.40	0.036	1.2	1.73	63	<10	290	0.5	<2	0.44	0.9	6	26	28	2.57
ZZ35802		0.10	0.039	1.8	1.85	53	<10	460	0.6	<2	0.76	1.2	5	24	47	2.48
ZZ35803		0.26	0.011	0.7	0.58	32	<10	180	<0.5	<2	0.39	1.9	10	9	33	2.19
ZZ35807		0.46	0.039	0.3	0.75	57	<10	100	<0.5	<2	0.36	0.7	5	13	19	1.62
ZZ35808		0.52	0.053	0.7	1.08	73	<10	130	<0.5	3	0.46	1.0	8	21	40	2.07



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units LOR	ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
ZZ35767		<10	1	0.08	10	0.23	570	2	0.04	10	800	71	0.06	<2	2	36
ZZ35768		<10	<1	0.09	10	0.34	233	2	0.02	10	840	67	0.06	<2	3	43
ZZ35769		<10	<1	0.07	10	0.31	326	1	0.02	9	590	21	0.02	<2	4	28
ZZ35770		<10	<1	0.08	20	0.38	282	2	0.02	12	750	14	0.03	<2	5	33
ZZ35771		10	<1	0.10	10	0.32	574	2	0.03	9	840	40	0.06	<2	4	48
ZZ35772		<10	<1	0.07	10	0.37	290	2	0.02	9	610	13	0.02	<2	3	29
ZZ35773		<10	1	0.07	10	0.33	327	1	0.02	10	740	24	0.05	<2	4	43
ZZ35774		<10	<1	0.08	10	0.34	585	1	0.02	10	480	58	0.03	<2	4	30
ZZ35775		<10	<1	0.06	10	0.24	349	1	0.03	7	660	32	0.04	<2	2	35
ZZ35776		<10	<1	0.04	<10	0.09	269	1	0.04	2	360	7	0.02	<2	1	18
ZZ35777		<10	1	0.10	10	0.33	437	1	0.02	9	440	36	0.02	2	4	29
ZZ35778		<10	1	0.07	10	0.34	283	1	0.02	10	490	18	0.02	<2	3	29
ZZ35779		10	1	0.11	10	0.47	400	1	0.02	14	390	19	0.01	<2	4	28
ZZ35780		10	<1	0.07	10	0.33	579	1	0.02	15	270	41	0.01	<2	3	24
ZZ35781		<10	1	0.06	10	0.37	287	1	0.02	9	220	16	0.01	<2	3	21
ZZ35782		<10	<1	0.05	10	0.20	178	1	0.04	5	350	15	0.02	<2	2	21
ZZ35783		<10	<1	0.07	10	0.28	287	1	0.02	9	280	26	0.02	<2	2	28
ZZ35784		<10	<1	0.09	10	0.29	250	1	0.02	9	390	9	0.02	<2	2	18
ZZ35785		<10	<1	0.07	10	0.36	590	2	0.03	12	470	16	0.02	<2	3	35
ZZ35786		10	<1	0.08	10	0.39	730	1	0.02	12	290	22	0.01	<2	3	27
ZZ35787		<10	<1	0.08	10	0.30	970	1	0.02	10	360	46	0.01	<2	3	22
ZZ35788		<10	1	0.08	10	0.26	776	1	0.02	8	210	92	0.01	2	2	22
ZZ35789		<10	1	0.07	10	0.16	1405	1	0.04	7	690	36	0.05	<2	2	60
ZZ35790		<10	<1	0.07	20	0.30	377	1	0.03	12	910	31	0.08	2	3	58
ZZ35791		<10	<1	0.07	10	0.24	277	1	0.03	8	680	34	0.07	<2	2	55
ZZ35792		<10	<1	0.07	10	0.26	330	1	0.02	5	390	63	0.02	2	2	22
ZZ35793		<10	<1	0.06	10	0.22	310	<1	0.03	6	680	44	0.05	<2	2	35
ZZ35794		<10	<1	0.06	10	0.20	255	<1	0.04	6	620	12	0.04	<2	3	47
ZZ35795		<10	<1	0.12	10	0.37	402	1	0.03	13	650	17	0.01	2	5	32
ZZ35796		<10	<1	0.14	20	0.42	371	<1	0.03	13	730	21	0.03	<2	6	51
ZZ35797		<10	<1	0.07	10	0.28	536	1	0.02	6	920	42	0.03	<2	3	39
ZZ35798		<10	<1	0.05	10	0.19	997	1	0.03	5	700	30	0.04	<2	2	37
ZZ35801		10	<1	0.08	10	0.45	219	4	0.02	11	660	44	0.03	<2	5	33
ZZ35802		<10	<1	0.08	20	0.34	371	5	0.03	12	1140	30	0.10	2	4	65
ZZ35803		<10	<1	0.03	10	0.09	955	2	0.04	3	910	11	0.07	2	1	32
ZZ35807		<10	<1	0.06	10	0.30	271	1	0.02	4	740	21	0.01	2	3	21
ZZ35808		<10	<1	0.09	10	0.38	341	1	0.02	7	880	42	0.02	3	4	28

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



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ35767		<20	0.03	<10	<10	37	<10	134
ZZ35768		<20	0.03	<10	<10	42	<10	198
ZZ35769		<20	0.06	<10	<10	45	<10	78
ZZ35770		<20	0.06	<10	<10	45	<10	67
ZZ35771		<20	0.05	<10	<10	44	<10	141
ZZ35772		<20	0.06	<10	<10	44	<10	51
ZZ35773		<20	0.04	<10	<10	40	<10	62
ZZ35774		<20	0.04	<10	<10	39	<10	75
ZZ35775		<20	0.04	<10	<10	40	<10	70
ZZ35776		<20	0.04	<10	<10	27	<10	24
ZZ35777		<20	0.04	<10	<10	40	<10	81
ZZ35778		<20	0.05	<10	<10	39	<10	57
ZZ35779		<20	0.06	<10	<10	55	<10	70
ZZ35780		<20	0.06	<10	<10	50	<10	91
ZZ35781		<20	0.05	<10	<10	44	<10	51
ZZ35782		<20	0.04	<10	<10	29	<10	60
ZZ35783		<20	0.04	<10	<10	41	<10	66
ZZ35784		<20	0.06	<10	<10	47	<10	43
ZZ35785		<20	0.06	<10	<10	51	<10	70
ZZ35786		<20	0.06	<10	<10	56	<10	118
ZZ35787		<20	0.03	<10	<10	45	<10	100
ZZ35788		<20	0.04	<10	<10	37	<10	125
ZZ35789		<20	0.03	<10	<10	34	<10	63
ZZ35790		<20	0.03	<10	<10	34	<10	98
ZZ35791		<20	0.03	<10	<10	34	<10	101
ZZ35792		<20	0.04	<10	<10	29	<10	85
ZZ35793		<20	0.04	<10	<10	35	<10	88
ZZ35794		<20	0.04	<10	<10	34	<10	54
ZZ35795		<20	0.06	<10	<10	52	<10	76
ZZ35796		<20	0.05	<10	<10	50	<10	114
ZZ35797		<20	0.05	<10	<10	50	<10	103
ZZ35798		<20	0.05	<10	<10	40	<10	79
ZZ35801		<20	0.06	<10	<10	51	<10	104
ZZ35802		<20	0.04	<10	<10	43	<10	97
ZZ35803		<20	0.04	<10	<10	43	<10	72
ZZ35807		<20	0.05	<10	<10	34	<10	61
ZZ35808		<20	0.06	<10	<10	47	<10	90



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Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.

APPENDIX IV
STATEMENT OF EXPENDITURES

Statement of Expenditures
Val 1-15 Mineral Claims
October 19, 2012

Labour

J. Tarswell (geologist) June 2012 – 1 day @ \$595.00/day	\$ 666.40
J. McArthur (field assistant) Aug. 2012 – 1 day @ \$552.50/day	618.80
N. Marsh (field assistant) June 2012 – 1 day @ \$459.00/day	514.08
B. Penner (field assistant) Aug. 2012 – 2 days @ 425.00/day	952.00
A. Blanchard (field assistant) June to Aug. 2012 – 4 days @ \$374.00/day	1,675.52
D. Blackjack (field assistant) Aug. 2012 – 3 days @ \$340.00/day	<u>1,142.40</u>
	5,569.20

Expenses

Field room and board – 12 days @ 180/day	2,419.20
ALS Chemex	<u>2,720.60</u>
	5,139.80

Total \$10,709.00