

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 – 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

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**ASSESSMENT REPORT**

describing

**ROCK AND SOIL GEOCHEMICAL SAMPLING**

Field work performed between August 13 - 21, 2019

at the

**VAULT PROPERTY**

Vault, Ann, Buy, Fred, Gamble, Glenn, Grace, Graham, Jo, Josie,  
Kelli, Kristy, Mary, Reno, Rose and Toots claims.

NTS 115G/05 and 115G/12  
Latitude 61°31'N; Longitude 139°36'W

located in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

R. Burke, B.Sc., GIT

February 2020

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## **INTRODUCTION**

The Vault property is located in the Kluane area of southwestern Yukon. It covers gold-bearing drainages that host placer deposits, mineralized veins and exceptional gold-in-soil geochemical anomalies that may be indicative of a mesothermal deposit. The property is composed of claims that are wholly owned by Strategic Metals Ltd. and claims under option from two arms-length prospecting groups.

This report describes rock and soil geochemical sampling performed by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. Field work was performed from two field camps between August 13<sup>th</sup> and August 21<sup>st</sup>, 2019. The author interpreted all results from this work. The author's Statement of Qualifications is located in Appendix I, while a Statement of Expenditures appears in Appendix II.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The Vault property is located in southwestern Yukon, at latitude 61°31' north and longitude 139°36' west on NTS map sheets 115G/05 and 115G/12 (Figure 1). It comprises 180 wholly owned claims and 117 claims that are under option from two arms-length prospecting groups, which collectively cover an area of approximately 5846 hectares (58.46 km<sup>2</sup>). The claims are registered with the Whitehorse Mining Recorder in the name of Archer, Cathro & Associates (1981) Ltd., which holds them in trust for the owners. Specifics concerning claim registration are given below, while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date**</u>
Vault 1-180	YD56961 – YD57140	January 15, 2030
*Ann 1-4	YB35476 – YB35479	January 28, 2032
*Buy 1-12	YA96221 – YA96232	January 28, 2031
*Fred 1-2	YF46657 – YF46658	January 28, 2030
*Fred 3-5	YF46654 – YF46656	January 28, 2030
*Gamble 1-2	YB27985 – YB27986	January 12, 2029
*Gamble 7-8	YB27989 – YB27990	January 12, 2029
*Glenn 1-7	YB36361 – YB36367	January 12, 2029
*Grace 1-7	YA97463 – YA97469	January 28, 2031
*Graham 1-2	YB27980 – YB27981	January 12, 2029
*Graham 3	YB27982	January 12, 2028
*Graham 4-5	YB27983 – YB27984	January 12, 2029
*Jo 1	YB24070	January 28, 2031
*Josie 1-2	YA96350 – YA96351	January 28, 2031
*Kelli 1	YA93845	January 28, 2032
*Kelli 3-8	YA93847 - YA93852	January 28, 2032
*Kelli 9-18	YA95337 – YA95346	January 28, 2032
*Kelli 19-26	YA96352 – YA96359	January 28, 2030

*Kristy 1-2	YB26868 – YB26869	January 28, 2032
*Kristy 3	YB35800	January 28, 2032
*Kristy 5-14	YB35801 – YB35810	January 28, 2032
*Mary 1	YA96191	January 12, 2029
*Mary 2	YA96192	January 12, 2030
*Mary 3	YA96193 – YA96198	January 12, 2029
*Mary 9-10	YA96346 – YA96347	January 12, 2029
*Mary 11-12	YA96348 – YA96349	January 12, 2030
*Reno 1-2	YA97470 – YA97471	January 28, 2031
*Rose 1-4	YA95976 – YA95979	January 28, 2031
*Rose 5	YA95980	January 28, 2032
*Rose 6	YA95981	January 28, 2031
*Toots 1-12	YF46659 – YF46670	January 28, 2028

\* Claims optioned by Strategic Metals.

\*\* Expiry dates include 2019 work, which has been filed for assessment credit.

In 2019, access to and from the property was provided by a Bell206L Long Ranger helicopter operated by Capital Helicopters (1995) Limited of Whitehorse from a gravel pit alongside Mile 1118 of the Alaska Highway.

The Vault property lies within the traditional territories of the Kluane (KFN) and White River (WRFN) First Nations. KFN has concluded land claim agreements with Canada and Yukon, but WRFN has not. The property is subject to Class 1 Land Use Notifications.

### **HISTORY AND PREVIOUS WORK**

Placer gold operations have been recorded since 1903 on creeks that drain the property. Official production records are not available prior to 1940, but extensive workings on creeks throughout the area suggest substantial work during two gold rushes: from 1903 to 1904 and in the 1920s and 1930s (Tremblay, 2000). Hard rock exploration in the area began after construction of the Alaska Highway in 1945.

In 1952, independent prospector E. Flynn staked groups of claims around Swede Johnson Creek. Subsequent prospecting and mapping revealed copper-stained float and coal seams on the claims (Flynn, 1953). In late 1952, Flynn's claims were transferred to New Algers Mines Ltd., which had staked the Polaris and Ursus claims in the area (Figure 3). Prospecting by New Algers Mines discovered pyrite, pyrrhotite, chalcopyrite, galena, sphalerite and magnetite in float throughout the area (Tair, 1953). This mineralization is collectively referred to as the Swede Johnson occurrence.

Also in 1952, Teck Exploration Company Ltd. staked the Musketeer and Conwest nickel-copper showings as the Musketeer claim group, part of which is now covered by the current Vault

claims (Figure 3). Geological mapping and prospecting were carried out in 1953, but no results were reported (Vanwermeskerken, 2001).

In 1955, Teck conducted electromagnetic and magnetometer surveys on the Musketeer claims. Several anomalies were defined by the EM survey, but the cause of anomalies was not identified. A resistivity survey was performed to follow up these surveys. Teck concluded the anomalies were linked to weakly disseminated sulphide minerals (Walker, 1955 and 1956).

In 1980 and 1981, Archer Cathro did regional-scale exploration in selected parts of Yukon on behalf of the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. Prior to commencing field work, NAT JV reanalysed over 5,000 previously collected geochemical sample splits for gold, silver, arsenic and lead. A total of 37 soil samples and 81 stream sediment samples were reanalyzed from the area of the current Vault claims, returning up to 1800 ppb and 425 ppb gold, respectively (Archer and Onasick, 1980 and 1981).

From 1982 to 1990, placer and quartz claims were staked along Reed and Swede Johnson creeks. Some quartz claims related to this staking are included in the current Vault property, but the placer claims are independently owned.

In 1983, AGIP Canada Ltd. staked claims north of the Swede Johnson occurrence. No record of work is available and the claims were allowed to lapse.

In 1986, prospector L. Smith re-staked the AGIP claims and performed a trenching program. No results are available for this work.

In 1986, Kluane Joint Venture (KJV), comprised of Chevron Minerals Ltd. and All-North Resources Ltd., staked and optioned claims to form the Arch property, which covered the Musketeer showing and extended north to encompass part of the current Vault property. Later in the year, KJV entered into option agreements with Pak-Man Resources Inc. and Rockridge Mining Corp.

In 1987, Pak-Man Resources, Rockridge Mining and KJV staked additional claims and conducted mapping, soil sampling and rock sampling on the Eugene claims, an area overlapping part of the current Vault claims. Strongly anomalous values (up to 10,000 ppb gold) were returned from three consecutive soils samples over a 75 m strike length, below a quartz-carbonate alteration zone developed in pyroclastic volcanic rocks (Eaton, 1988).

Also in 1987, Reed Creek Joint Venture (RCJV) staked the Valley, Reed, Pump and Swede claims to cover an aeromagnetic anomaly believed to mark a regionally extensive ultramafic sill, similar in age to a sill that hosts nickel-copper-platinum group element (PGE) mineralization at the nearby Wellgreen deposit. Work on the RCJV claims consisted of geological mapping, reconnaissance prospecting and geochemical sampling. Prospecting identified glacially transported ultramafic and gabbro float. Soil and stream sediment sampling returned sporadic gold anomalies (up to 350 ppb gold-in-soil), along with elevated copper, platinum and palladium values (Carne, 1988).

Also in 1987, D.E. Makkonen staked the Toby claims in the headwaters of Reed Creek. A total of 62 soil samples were collected along the ridgeline and on contour lines. The two best samples returned 133 ppb and 125 ppb gold with 350 ppm and greater than 1,000 ppm arsenic, respectively (Makkonen, 1988).

Also in 1987, independent miner Bill Zikos staked the Greg claims which extended onto the southeastern corner of the current Vault property. A prospecting and reconnaissance sampling program was conducted later that year. This program returned up to 104 ppb gold, but all samples were collected from outside of the current property boundary (Davidson, 1988).

In 1988, Pak-Man, Rockridge and KJV prospected around soil geochemical anomalies on the Eugene claims. Float samples yielded up to 5 g/t gold, but chip samples from bedrock returned only 420 ppb gold and 479 ppm arsenic (Eaton, 1988).

From 1990 to 1992, independent miners R. McIntosh and F. Ellis staked and explored the O.K. claims. These claims were sampled by Placer Dome Exploration Ltd. in 1992, returning up to 1425 ppb gold-in-silt, 56 ppb gold-in-soil and 540 ppb gold-in-rock (Tremblay, 2000).

Between 1990 and 1994, L. and G. Smith staked claims in the area and conducted hand trenching, mechanized trenching and drilling on the Glenn, Mary, Graham and Gamble claims (YGS, 2015). No detailed work history or results are available.

From 2000 to 2002, R. McIntosh and F. Ellis, conducted work programs on the Ross property, which included the O.K., Ross, FRM, BO and NJ claims. These programs included prospecting, geochemical sampling and mapping (McIntosh and Ellis, 2000, 2001, 2003). Sampling returned a maximum of 6667 ppb gold from an undescribed rock sample, but all other samples taken returned weakly anomalous values (Tremblay, 2000).

In 2010, Strategic Metals staked the current Vault claims and undertook a prospecting and geochemical sampling program on the property. A total of 14 rock and 679 soil samples were collected. Rock samples yielded strongly anomalous gold and copper results up to 868 ppb and 16,950 ppm, respectively, from separate samples. Soil sampling returned up to 997 ppb gold, including a string of eight consecutive samples ranging from 100 to 515 ppb gold (Chung and Smith, 2011).

In 2011, Alix Resources Corp. signed an option agreement with Strategic Metals. A prospecting and geological mapping program was completed later in the year. Rock samples returned up to 1.03 g/t gold, 13.2 g/t silver and 24.49 % copper (Victorino and Ledwon, 2011). Following the work program, Alix Resources relinquished its option.

In 2015, Government of Yukon and KFN flew airborne magnetic and electromagnetic surveys across the Wellgreen nickel-copper belt, which encompassed the Vault property.

Also in 2015, Strategic Metals conducted a LiDAR survey over the Vault property in order to obtain more accurate topographic data for the property.

In 2016, Strategic Metals compiled exploration data onto LiDAR images in order to identify prospective areas for future programs.

In 2017, Strategic Metals undertook a prospecting, hand trenching and soil geochemical sampling program on the property. A total of 506 soil, 52 rock and 36 hand trench samples were collected. Soil sampling from the central part of the property returned up to 4380 ppb gold, while samples from the eastern part of the property further outlined an intense 900 by 400 m gold-in-soil anomaly (up to 1120 ppb) (Willms, 2017). A rock sample of sericitic quartz float taken from slumping overburden within the eastern gold-in-soil anomaly returned 8.72 g/t gold.

In 2018, Strategic Metals signed option agreements with two arms-length prospecting groups, adding the quartz claims covering Reed and Swede Johnson Creeks. Also in 2018, a total of 381 contour soil samples were collected around the Reed and Swede Johnson Creek drainages and a total of 23 rock samples were collected from the property. The two best rock samples from the 2018 program returned 1.735 g/t gold from a 1.65 m chip sample and 1.54 g/t gold from a grab sample roughly 50 m upslope of the 2017 float sample of quartz that returned 8.72 g/t gold.

### **GEOMORPHOLOGY AND CLIMATE**

The Vault property is situated along the northeastern edge of the Kluane Range about three kilometres east of the Donjek River. Creeks draining the property flow northward into the Kluane River or westward into the Donjek River. All of the streams are part of the Yukon River watershed.

The property is located in the foothills of the St. Elias Mountains and covers the north side of a west-northwesterly trending ridge system. Local terrain is characterized by long steep talus slopes separated by sharp spur ridgelines and deeply eroded creek valleys leading into a broad glacial valley. Elevations on the property range from approximately 820 to 2150 m above sea level (asl). Outcrop is abundant along ridge crests and actively eroded creek cuts, but talus, glacial deposits and thick moss cover bedrock in most other parts of the property.

Treeline on the property is at approximately 1350 m asl. Vegetation consists of stunted black spruce and thick moss near the valley floor, giving way to willow and black birch on lower slopes, and moss, lichen and grass on stable upper slopes. The property was glaciated during the Late Pleistocene, with alpine and regional ice sheets migrating northerly to northwesterly, up the Donjek River valley (Duk-Rodkin, 1999). Peak glacial elevation on the property reached approximately 1300 m asl (Kennedy, personal communication, 2017).

The climate is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. The property is mostly snow free from early June to early September.

## REGIONAL GEOLOGY

The Vault property lies along the northeastern edge of Wrangellia, part of the Insular terranes located at the outboard margin of North America (Figure 4). Wrangellia is comprised of Pennsylvanian to Triassic marine siliciclastic rocks, mafic and intermediate volcanic rocks, carbonates and plutonic rocks (Greene, et al, 2005). A thick package of Upper Triassic flood basalts is the hallmark of Wrangellia and can be found from Vancouver Island to Alaska. Wrangellia, along with the rest of the Insular terranes, was accreted to the western margin of ancient North America during the Jurassic (Nelson et al., 2013).

In 2003, Gordey and Makepeace completed a Yukon-wide geological compilation that updated lithological unit names in the area. The Yukon Geological Survey (YGS) maintains a website illustrating regional geology, which is periodically updated when new information becomes available (YGS, 2019). The main lithological units are described below in Table I, while regional geology is shown on Figure 5.

**Table I – Lithological Units (Gordey and Makepeace, 2003)**

<b>Unit Name</b>	<b>Age</b>	<b>Map Name</b>	<b>Description</b>
Nikolai	Upper Triassic	UTrN1	Basal conglomerate. Volcanic breccia, pillow lava and conglomerate at base.
		UTrN2	Basalt, andesite. Amygdaloidal basaltic and andesitic flows, with local tuff, breccia, shale and thin-bedded bioclastic limestone (Nikolai Greenstone).
		UTrN3	Minor limestone. Locally includes dark grey phyllite and minor thin grey Middle Triassic limestone.
Kluane Ultramafic Suite	Late Triassic	LTrK1	Mafic to ultramafic intrusions including peridotite and dunite. Sheeny black peridotite, rare dunite (Kluane-type Mafic-Ultramafics Gabbro-Diabase Sills).
		LTrK2	Mafic to ultramafic intrusions including peridotite and gabbro. Medium grey-green, massive, medium-grained pyroxene gabbro and greenstone sills (Maple Creek gabbro).
Kluane Schist	Cretaceous	KK1	Dark purplish brown staurolite-cordierite-biotite hornfels with relict schistose texture; quartz-sericite-chlorite schist; minor quartzite.
Skolai – Hansen Creek	Pennsylvanian to Permian	CPH1	Fine-grained clastic rocks. Interbedded dark grey and brown-weathered siltstone, mudstone and medium to coarse-grained sandstone; lower part contains volcanoclastic sandstone, tuff and rare basaltic flows; rare dark grey to black chert beds

			and chert-pebble conglomerate (Hasen Creek Formation).
		CPH2	Carbonate. Light to medium grey, massive to bedded limestone; locally fossiliferous; fossils include corals and crinoids.
Skolai – Station Creek	Mississippian to Pennsylvanian	CPS5	Volcanic rocks succeeded upward by clastic strata including minor limestone. Laminated to thinly bedded, light grey to light green volcanic tuff and volcanoclastic siltstone; local crystal rich tuffs interbedded with fine-grained volcanic ash.

Regional-scale mapping shows the Vault property is underlain by a basement of Carboniferous Station Creek Formation (SCF) volcanoclastic rocks and Permian Hasen Creek Formation (HCF) metasediments. These basement rocks are capped by Triassic Nikolai Formation (NF) flood basalts, and all of these units are intruded by near-coeval northwesterly trending, peridotite to gabbro, sills and plugs belonging to the Kluane Ultramafic Suite (KUS) and Maple Creek Gabbro (MCG).

The rocks within the Kluane Range were deformed during their Jurassic to Cretaceous accretion to North America. Later strain is related to more recent movement on the Denali fault, a major dextral strike-slip fault, and the Duke River fault, a southwest dipping structure separating Wrangellia and the Alexander terrane, with a protracted history. There are numerous folds, thrust faults and high angle faults in the region related to these two large structures.

### **PROPERTY GEOLOGY**

Property-scale geological mapping was conducted in 2011 by Alix Resources and in 2018 by Strategic Metals. The following description is based on this mapping, plus work completed by the YGS in the Quill Creek area, which overlaps the Vault property (Israel and Van Zeyl, 2004). Figure 6 illustrates property geology.

Detailed mapping on the Vault property generally agrees with regional-scale mapping. Volcanoclastics of the SCF occur throughout much of the central and eastern parts of the property, which are partially overlain by HCF metasediments. The HCF is made up of mudstone, siltstone, phyllite, schist, slate and localized beds of limestone. These units are capped by NF flood basalts along ridges and peaks. Felsic dykes are intruded along the contacts of NF basalts.

Quartz diorite and peridotite to gabbro sills and dykes of the Kluane mafic-ultramafic suite locally intrude all of the stratified units. In the central and northwestern parts of the property, undifferentiated plugs have been mapped near thrust faults.

Faults on the property are largely attributed to Tertiary strike-slip displacement along the Denali fault and the re-activation of earlier thrust faults, which produced high strain zones and locally

increased metamorphic grade. Mapped thrust faults, shear zones and folds on the property typically strike and trend northwesterly, following the orientation of regional structures, while smaller-scale extensional faults strike northeasterly and dip steeply. Thrust faults on the property juxtapose Nikolai formation basalts overtop of older Station Creek and Hasen Creek formations.

### **MINERALIZATION**

Early stage exploration on the property indicates mineralization is localized within quartz veins and quartz-carbonate stockwork veinlets, some of which have envelopes of carbonate alteration. Gold-bearing veins typically contain fine-grained pyrite with weak limonite alteration and rare arsenopyrite and chalcopyrite, but, overall, the veins carry few or no sulphide minerals and are not enriched in pathfinder elements typically associated with gold.

Copper mineralization on the property consists of chalcopyrite, malachite and azurite found in proximity to quartz veining within volcanics. This mineralization is attributed to the remobilization of copper from regionally enriched Nikolai volcanics.

Weakly disseminated sulphides are locally present in phyllite, schist and volcanics, but these rocks are not notably enriched in gold.

Quartz-calcite vein float containing coarse visible gold has been recovered from Reed Creek along the entire three kilometre length of the placer operation. Quartz float ranges from fist-sized cobbles to one metre diameter boulders. The sources of this gold-bearing float are not known with certainty, but some veins and faulted sediments exposed by the Reed Creek placer operation (Tremblay occurrence) host angular gold (Carne, 1988).

### **ROCK GEOCHEMISTRY**

In 2019, 22 rock chip samples were collected of altered and oxidized graphitic schist, limey siltstone, vein and volcanic dyke material from exposed outcrop within Reed Creek. Previous sampling of outcrop material by placer operators had returned values of up to 25.6 g/t gold; however, samples collected during the 2019 field program were unable to reproduce these purported values and all chip samples returned insignificant gold values.

Also in 2019, a total of 52 rock samples were collected. Rock sample locations are shown on Figure 7, while results for rock samples from recent and historical work are illustrated thematically on Figures 8 through 10 for gold, silver and copper, respectfully.

The 2019 rock sample sites were marked with orange flagging tape labelled with their respective sample number. The location of each sample was determined using a hand-held GPS unit. Sample preparation for 2019 rock samples was carried out by ALS Minerals in Whitehorse and then sent to North Vancouver, where the samples were dried, fine crushed to better than 70% passing -2mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (ME-MS41). An additional 30 g charge was

further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). During geochemical analysis, select screens were checked for visible gold. Rock sample descriptions and Certificates of Analysis for 2019 rock samples can be found in Appendix III and Appendix IV, respectively.

Select 2019 rock chip samples were mesh screened to 106 micron and the undersize and oversize fraction were then pulverized to better than 85% passing 75 micron. The entire oversize fraction and a 30 g charge of the undersize fraction was then analyzed for gold using fire assay followed by fire assay and atomic absorption spectrometry (Au-AA25). Rock sample descriptions and Certificates of Analysis for 2019 rock samples can be found in Appendix III and Appendix IV, respectively.

In 2018, in the northeastern part of the property, a quartz vein was discovered upslope of a historical float sample that returned 8.72 g/t gold. The vein contains disseminated fresh and oxidized pyrite with pervasive disseminated limonite weathering. Chip sampling across this vein in 2018 returned 1.735 g/t gold over 1.65 metres. In 2019 this vein was relocated and uncovered using hand tools and its width was extended from 1.65 m to 2.35 m. A chip sample of newly exposed vein returned 15.45 g/t gold over 0.70 m. This vein lies within a 1000 m long area of northwesterly soil anomaly, with multiple samples exceeding 1000 ppb gold (Anomaly A; further described in following section).

In the southeastern part of the property, multiple rock samples have been collected which exceed 1 g/t gold (up to 5.45 g/t). These samples closely follow a northwesterly trending thrust fault, and partially overlap a gold-in-soil geochemical anomaly (Anomaly C; further described in following section) found on the hanging wall side of that fault. Rocks collected from this area in 2017 also returned up to 15.6% copper; however, copper values are not accompanied by high gold values.

In the north-central part of the property two rock samples collected over a 2-km strike length, along the trace of a northwesterly trending thrust fault, returned 1.73 and 1.39 g/t gold. These samples coincide with a broad 6000 by 1000 m soil geochemical anomaly (Anomaly D; further described in following section).

A fragmented cobble of sulphide-rich ultramafic float collected in 2018 from Swede Johnson Creek returned 3.2% nickel and 9730 ppm copper. Significant gold, silver and copper results from samples collected between 2010 and 2019 are listed below in Table II.

**Table II – Rock Sample Highlights**

Type	Year	Gold (ppb)	Silver (ppm)	Copper (ppm)
Rock – grab	2010	868	0.1	494
Rock – grab	2011	388	13.2	244,900
Rock – grab	2011	133	5.94	161,900
Rock – grab	2017	8270	2.71	202
Rock – grab	2017	2940	0.7	293
Rock – grab	2017	2290	0.6	226

Rock – grab	2017	1730	2.9	180
Rock – 1.65 m chip	2018	1735	0.29	10
Rock – grab	2018	1540	0.31	10
Rock – grab	2018	112	0.29	9730
Rock – grab	2019	5450	0.46	100
Rock – grab	2019	4300	0.17	50.2
Rock – grab	2019	2630	0.11	16.4
Rock – grab	2019	1120	0.54	82.6
Rock – 0.70 m chip	2019	15,950	4.39	12

### SOIL GEOCHEMISTRY

Soil geochemical surveys have been conducted on the various parts of the Vault property since 1980.

Soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 60 cm deep holes dug by handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 41 elements using an aqua regia digestion followed by inductively coupled plasma combined with atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with atomic absorption spectroscopy finish (Au-ICP21).

Compiled soil sample thematic results for gold, arsenic and silver with first vertical derivative magnetics are plotted on Figures 11 to 13, respectively. Anomalous thresholds and peak values for metals of interest are listed in Table III.

**Table III – Soil Geochemical Thresholds**

Element	Weak	Moderate	Strong	Peak results
Gold (ppb)	$\geq 10 < 50$	$\geq 50 < 100$	$\geq 100$	>10,000
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200$	5990
Silver (ppm)	$\geq 0.5 < 1$	$\geq 1 < 2$	$\geq 2$	3.7

To date, soil sampling on the property has identified five strongly anomalous northwesterly trending anomalies, which are described as follows:

**Anomaly A** spans an approximately 2450 by 1000 m area located in the northeastern part of the property. It is cored by a 1000 m long, northwesterly trending cluster of soil samples, with multiple samples exceeding 1000 ppb gold (up to 1120 ppb gold).

**Anomaly B** is an 1800 by 350 m trend that lies approximately 300 m south of Anomaly A. Nine soil samples from this anomaly returned greater than 100 ppb gold (up to 308 ppb).

**Anomaly C** covers a 900 by 700 m area located in the southeastern part of the property, along a northwesterly trending thrust fault. Recent soil sampling has yielded up to 1015 ppb gold from hanging wall slopes, while historical soil sampling returned greater than 10,000 ppb gold from a string of three strongly anomalous soil samples. Along the eastern margin of Anomaly C is a 250 by 150 m area of localized and strong silver, antimony, arsenic and molybdenum values.

**Anomaly D** is a 6000 by 1000 m area located in the central part of the claims. This anomaly covers widespread, strongly elevated, gold-in-soil values (up to 1800 ppb). Discontinuous contour soil sampling around a north trending ridge in the centre of the anomaly has returned multiple samples greater than 1000 ppb (up to 1695 ppb) gold, while a historical soil returned 1800 ppb gold. A silt sample taken in a creek directly downslope of the anomaly returned 3600 ppb gold.

**Anomaly E** lies 1000 m northwest of Anomaly C and is a 2300 by 1000 m area situated along the same northwesterly trending thrust fault as Anomaly B. Contour soil samples taken on slopes and ridges from the hanging wall side of the fault have yielded highly anomalous gold (up to 4380 ppb), copper (up to 1120 ppm) and arsenic (up to 5120 ppm) values. Anomaly E is distinguished from the other soil anomalies by its high arsenic and copper values.

### **GEOPHYSICS**

In 2015, The Government of Yukon and KFN flew airborne magnetic and HeliTEM surveys over a portion of the Kluane Range. From these surveys, First Vertical Derivative (FVD) magnetic data was compiled for the Vault property.

FVD magnetic response is strongly influenced by topography. Magnetic highs occur along peaks and lows along valley bottoms. Superimposed on the topographic effects are a series of northwesterly trends that likely reflect variations in lithologies and possibly demagnetization along thrust faults.

### **LIDAR SURVEYS**

In 2015, Strategic Metals conducted a LiDAR survey over the Vault property. In total, 32 lines were flown at 640 m line spacings. This survey produced elevation contours, a digital elevation model and digital surface model at one metre resolution, along with a LiDAR intensity map. Full details from this survey can be found in Burrell, 2016.

LiDAR imagery, along with compiled historical mapping, identified several prospective features on the Vault property that may represent fault or vein structures. Figure 14 is a LiDAR intensity map showing three of these trends, which coincide with geochemical anomalies.

**Linear A**, which crosses through the centre of the property, approximately follows the trace of a northwesterly trending thrust fault. This feature coincides with strongly anomalous gold values that are typically found on the hanging wall side of the fault, at Anomaly C and E.

**Linear B** is a discrete lineament that splays westerly off the northwesterly thrust fault associated with Linear A. This feature is associated with strong gold and arsenic soil geochemical response.

**Linear C** is located in the eastern part of the property, where a series of northwesterly trending soil lines produced continuous strongly elevated gold values to a maximum of 1120 ppb. Hand trenches dug in 2017 were intended to test this linear, but they did not reach bedrock.

### **DISCUSSION AND CONCLUSIONS**

The Vault property is located within the Kluane Mafic-Ultramafic Belt (KMUB) in western Yukon. The KMUB is host to the Wellgreen nickel-copper-PGE deposit now owned by Nickel Creek Platinum Corp. In June 2017, a measured and indicated resource of 363 Mt grading 0.26% Ni, 0.14% Cu, 0.015% Co, 0.231% Pt, 0.244% Pd and 0.04 g/t Au was published (Wellgreen Platinum, 2017). The deposit is located five kilometres southeast of the Vault property.

The Vault property is situated alongside the Denali fault, which may be part of the Coast shear zone, a structural zone found the length of the Canadian and Southeastern Alaska Cordillera. This large-scale fault complex is host to mesothermal gold deposits, most notably in the Juneau Gold Belt, which has produced over 7 million ounces of gold since 1880. The Kensington Mine, located 70 km north of Juneau, is an actively producing mesothermal deposit with a measured and indicated resource of 2.878 Mt grading 9.29 g/t gold (Beebe, et al, 2018).

Soil sampling in 2018 successfully expanded on previous geochemical coverage, and to date, six robust geochemical anomalies have been identified on the property. These anomalies are characterized by clusters of very high gold values, with little or no correlation to typical gold pathfinder elements. Numerous strong gold-in-soil results found above peak glacial elevation suggest the source of these geochemical anomalies is not glacially transported material.

Prospecting follow-up of soil anomalies in the northeastern part of the property discovered a northeasterly trending, gold-bearing quartz vein in proximity to gold-bearing quartz float. The orientation of this veining suggests the soil geochemical anomaly originates from northeasterly trending, extensional quartz veins that are developed near northwesterly trending thrust faults. The geological setting, style of mineralization and lack of typical gold pathfinder elements are consistent with mesothermal mineralization.

Limited exploration on the Vault property has not discovered enough mineralization to adequately explain the exceptional soil geochemical results. Most soil anomalies have received little or no follow up prospecting and, where prospecting has been done, thick vegetation, alpine talus slopes and glacial till at lower elevations mask recessive weathering veins or fracture filling zones.

Future work on the property is warranted to further evaluate areas around known geochemical anomalies and increase the confidence of current geochemical targets. This work should include:

- 1) Detailed geological mapping and prospecting to discover more veins and to determine their orientations
- 2) Additional soil geochemical surveys in areas with sparse coverage
- 3) Diamond drilling to evaluate the most prospective anomalies and showings.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

R. Burke, B.Sc., GIT.

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, Ryan Burke, geologist in training, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Whitehorse, Yukon, do hereby certify that:

1. I graduated in 2018 from Memorial University of Newfoundland and Labrador with a B.Sc. (Hons.) in Geological Sciences.
2. I am currently registered as a Geoscientist In Training (G.I.T.) with Professional Engineers & Geoscientists Newfoundland & Labrador (PEGNL).
3. I have worked every summer since 2010 in a role related to the mineral exploration industry within the Yukon.
4. I have personally interpreted all data resulting from this work.

Ryan Burke, B.Sc., G.I.T.

**APPENDIX II**  
**STATEMENT OF EXPENDITURES**

**Statement of Expenditures**

**Vault Property**

**January 10, 2020**

**Labour**

<b>Employee</b>	<b>Job Description</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/hr</b>	<b>Total</b>
Doug Eaton	Sr. Geologist	8	June 1 - August 31, 2019	\$ 120.00	\$ 960.00
Elizabeth Smith	Logistics, field support	42	June 1 - August 31, 2019	\$ 85.00	\$ 3,570.00
Evan Hall	Geologist	56	June 1 - August 31, 2019	\$ 64.00	\$ 3,584.00
Jack Morton	Sr. Geologist	39	June 1 - August 31, 2019	\$ 98.00	\$ 3,822.00
Kelson Willms	Geologist	80	June 1 - August 31, 2019	\$ 85.00	\$ 6,800.00
Matthew Van Loon	General Labour	48	June 1 - August 31, 2019	\$ 80.00	\$ 3,840.00
Scott Newman	Mapping	12.5	June 1 - August 31, 2019	\$ 71.00	\$ 887.50
Virginia Cobbett	Field Labour	4	June 1 - August 31, 2019	\$ 70.00	\$ 280.00
Wayne Schneider	Maintenance	15	June 1 - August 31, 2019	\$ 99.00	\$ 1,485.00
					\$ 25,228.50

Report Writing - Max 10% of \$44,420.47

<b>Employee</b>	<b>Job Description</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/hr</b>	<b>Total</b>
Jack Morton	Sr. Geologist	40	October 1 - January 9, 2019	\$ 98.00	\$ 3,920.00
Doug	Sr. Geologist	4	October 1 - January 9, 2019	\$ 120.00	\$ 480.00
					\$ 4,400.00

**Expenses**

Field room and board	19 mandays	\$ 100.00 /per day	\$ 1,900.00
Whitehorse room and board	6 mandays	\$ 180.00 / per day	\$ 1,080.00
Argo Rental			\$ 600.00
Truck Rental			\$ 680.00
Trailer Rental			\$ 440.00
Helicopters, as attached			\$ 6,762.66
AC Provided Jet Fuel			\$ 304.24
Kelli Reed Creek - Trenching			\$ 3,000.00
ALS Chemex, as attached			\$ 4,425.07
			\$ 19,191.97

Total 2019 expenditures \$ 48,820.47

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: 1909 Date Collected: 2019-10-01 UTM: 573634 mE Nad83, Zone 7  
Elevation: 948 m Sampler: Gordon Gutrath UTM: 6824923 mN

Comments: grey chert with !% to 3% fine grained pyrite

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Sample Number: 1910 Date Collected: 2019-10-01 UTM: 572843 mE Nad83, Zone 7  
Elevation: 1217 m Sampler: Gordon Gutrath UTM: 6823417 mN

Comments: chlorite schist with thin sub- parallel qtz veinlets Py 2-3%

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Sample Number: 1911 Date Collected: 2019-10-01 UTM: 572860 mE Nad83, Zone 7  
Elevation: 1179 m Sampler: Gordon Gutrath UTM: 6823537 mN

Comments: 5m north of creek. Highly foliated chlorite schist 2-5% fine grained py. talus

---

Sample Number: 1912 Date Collected: 2019-10-01 UTM: 573634 mE Nad83, Zone 7  
Elevation: 948 m Sampler: Gordon Gutrath UTM: 6824923 mN

Comments: 5m to west of Trench 1, In drainage channel. Quartz vein, clots and disseminated py on fracture 5%

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Sample Number: K283984 Date Collected: 2019-09-16 UTM: 573641 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824925 mN

Comments: 110cm chip sample across foliated dark grey-black graphitic schist. Gummy black gauge hosting mm-scale (up to 1cm) boudinaged tan-orange weathered quartz veinlets.

---

Sample Number: K283985 Date Collected: 2019-09-16 UTM: 573638 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824926 mN

Comments: 162cm chip sample. Taken across tan to brown weathered smokey quartz. Boudin (55cm wide in this section) hosts moderate clots of very fine grained pyrite. Apparent foliation (221/56)/

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Sample Number: K283986 Date Collected: 2019-09-16 UTM: 573637 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824924 mN

Comments: 165 cm chip sample. Dark grey-black, gummy graphitic schist, sometimes orange weathered with cm-scale foliations of dark grey quartz.

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K283987 Date Collected: 2019-09-16 UTM: 573637 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824922 mN

Comments: 110 cm chip sample. Same lithology as K293986.

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Sample Number: K283988 Date Collected: 2019-09-16 UTM: 573636 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824920 mN

Comments: 130 cm chip sample. Rock with same lithology as K293985. This rock sits above a layer of gummy black schist in the trench wall.

---

Sample Number: K283989 Date Collected: 2019-09-16 UTM: 573642 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824927 mN

Comments: 65 cm panel sample. Approximate 90 cm north from the south end of first trench. Comprising same lithology as K283984

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Sample Number: K283990 Date Collected: 2019-09-16 UTM: 573641 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824927 mN

Comments: 65 cm long panel sample. Same boudin description as K283985. approximately 175 cm from the end of first trench. Capturing tan clay developed at margins of boudin.

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Sample Number: K283991 Date Collected: 2019-09-16 UTM: 573593 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824919 mN

Comments: 300 cm chip sample. Well laminated, orange weathering, dark grey limey siltstone with cm-scale bedding (foliation?) developed at 081/70. weakly fractured with patches of orange oxidized throughout and 'beds' up to 4cm wide.

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Sample Number: K283992 Date Collected: 2019-09-16 UTM: 573590 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824913 mN

Comments: 300 cm chip sample. First 150 cm across strongly fractured, dark grey, limey siltstone with moderate orange-brown (goethite?) throughout. The following 150cm comprises strongly fractured and oxidized non-calcareous siltstone. ~260 cm is a 10 cm dissemi

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K283993      Date Collected: 2019-09-16      UTM: 573590 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824912 mN

Comments: 300 cm chip sample. First 140 cm of dark grey-black gummy graphitic schist (shear zone). Weakly calcareous hosting numerous mm-scale boudinaged quartz-carbonate veinlets, altered to tan coloured clay. The following 160 cm comprises strongly oxidized, n

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Sample Number: K283994      Date Collected: 2019-09-16      UTM: 573589 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824911 mN

Comments: 150 cm chip sample. Slightly graphitic, strongly fractured, dark grey-black schist. Numerous mm-scale quartz stringers and gashes throughout. Weakly oxidized. (261/85).

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Sample Number: K283995      Date Collected: 2019-09-16      UTM: 573587 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824913 mN

Comments: 285 cm chip sample. Same lithology as K283984. with a tight chevron fold developed on the hanging wall side (north). Quartz veining abundant on FW (south) side, up to 8cm wide. Milky white to tan carbonate weathering to tan clay. Foliation (285/74)

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Sample Number: K283996      Date Collected: 2019-09-16      UTM: 573583 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824912 mN

Comments: 300 cm long chip sample. 30 cm of orange weathered, moderately fractured tan quartz with visible sx (north). Followed by 270 cm of rock that comprises same lithology as W283994

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Sample Number: K283997      Date Collected: 2019-09-16      UTM: 573585 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824911 mN

Comments: 175 cm chip sample. Same as K283994.

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Sample Number: K283998      Date Collected: 2019-09-16      UTM: 573584 mE      Nad83, Zone 7  
Elevation: m      Sampler: Unknown Person      UTM: 6824910 mN

Comments: 300 cm chip sample. Same lithology as K283984 (shear)

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K283999 Date Collected: 2019-09-16 UTM: 573583 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824909 mN

Comments: 165 cm chip sample. Same as K283984 (shear). Tan coloured vein (30cm) with trace disseminated pyrite.

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Sample Number: K284000 Date Collected: 2019-09-16 UTM: 573581 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824905 mN

Comments: 245 cm chip sample. Long, bright orange volcanic dyke, strongly fractured and bleached with moderate disseminated pyrite throughout. Manganese 'dots' on weathered surfaces very weakly calcareous and only slight trace of 'fuzzy' green grains of epidote.

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Sample Number: K291525 Date Collected: 2019-09-16 UTM: 578362 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821066 mN

Comments: Orange weathered quartz with disseminated pyrite and rare limonite pits. Rock sample taken in a soil slump. In float.

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Sample Number: K291526 Date Collected: 2019-09-16 UTM: 578406 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820970 mN

Comments: White quartz within a stonrly altered and solicious host rock (volcanoclastic?). Disseminted fine pyrite throughout. Found in float in a soil slump

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Sample Number: K291527 Date Collected: 2019-09-16 UTM: 578349 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820878 mN

Comments: Green volcanoclastic that has been quartz flooded. The volcanoclastic has lost its dark green colour and been alered into a light green. Pyrite is throughout in disseminated and clastic form. Pyrite is most common on fracture faces and contacts between th

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Sample Number: K291528 Date Collected: 2019-09-16 UTM: 578181 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821033 mN

Comments: White, milky quartz containing red speckled wall rock within. Disseminated pyrtie and galena throughout the sample (approx. 1% galena) Sample in float in a creek valley

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K291529 Date Collected: 2019-09-16 UTM: 576098 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821559 mN

Comments: Gossanous, orange weathered cherty (limestone?) rock with quartz stringers cutting throughout. Contains quartz crystals, limonite and an unknown black sulphide. Taken from bedrock

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Sample Number: K291530 Date Collected: 2019-09-16 UTM: 575949 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821606 mN

Comments: Quartz vein in subcrop (bedrock likely right below). Sample is in an area of soil uprising. Quartz contains fragments of the wall rock (schist, limestone?) and disseminated pyrite throughout

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Sample Number: K291531 Date Collected: 2019-09-16 UTM: 576454 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819802 mN

Comments: Stockwork quartz vein/ quartz carbonate vein from bedrock. Composite sample of several veinlets with an average thickness of 10cms. Cuts foliation obliquely (roughly 45 degrees). Trace pyrite within. Horizon hosting veins is 2-2.5m thick and has been alte

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Sample Number: K291532 Date Collected: 2019-09-16 UTM: 576456 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819801 mN

Comments: Same description as sample K291531 aside from this sample is a composite sample of only 2 quartz veins that are each 15cms wide.

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Sample Number: K291533 Date Collected: 2019-09-16 UTM: 576479 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819815 mN

Comments: Milky quartz in float. Unknown black sulphide within (non magnetic)

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Sample Number: K291534 Date Collected: 2019-09-16 UTM: 576499 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819747 mN

Comments: Continuation along strike of sample W793371. Sample is a quartz breccia containing an unknown black sulphide, disseminated pyrite and trace calcopyrite. Alteration zone is approx. 6m wide around the breccia. Breccia itself is 1.5m thick. Sample is a compo

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K291535 Date Collected: 2019-09-16 UTM: 576456 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819698 mN

Comments: Quartz breccia with a visual strike length of 25-30m. Contains an unknown black sulphide, pyrite and calcopyrite. Alteration zone is 4-5m thick and the vein is approx. 60cms thick. Taken from bedrock

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Sample Number: K291536 Date Collected: 2019-09-16 UTM: 576496 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819636 mN

Comments: White quartz hosting unknown black sulphides. Veins are 5-10cms thick but numerous veins are cutting through the area of alteration (roughly 5m wide). Composite sample of 2 of them (most were covered in snow and frozen in place) as taken from subcrop.

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Sample Number: K291537 Date Collected: 2019-09-16 UTM: 576624 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819597 mN

Comments: Quartz vein (20cms wide) containing trace pyrite. Quartz is milky.

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Sample Number: K294501 Date Collected: 2019-09-16 UTM: 578616 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820692 mN

Comments: Green-grey SS with minor SI, moderate Silica alteration, disseminated sulphides (looks to be 100% Py), trace of possible malachite. Sample taken from creek bed.

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Sample Number: K294502 Date Collected: 2019-09-16 UTM: 578611 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820686 mN

Comments: Light to medium grey breccia, looks to be possible brittle fracturing of Lst, replaced with or strongly altered by silica, sample cut by small later silica veinlets, barren. Breccia matrix is darker, possibly graphite colouration (or vfg sulphides?), no obv

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Sample Number: K294503 Date Collected: 2019-09-16 UTM: 578598 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820642 mN

Comments: Qtz vein, ~5cm across, hosted in carbonaceous SI which is locally sericite altered in vein halo, Fe-carb and trace Py in vein. Sample taken from scree/debris below outcrop.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K294504 Date Collected: 2019-09-16 UTM: 578620 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820598 mN

Comments: Quartz vein in SI outcrop, SI occasionally carbonaceous, weak to moderate sericite alteration in vein halo. Vein runs roughly parallel to rock foliation/bedding. Vein blows out to ~10cm, but generally cm scale. Fe-carb and trace Py in vein.

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Sample Number: K294505 Date Collected: 2019-09-16 UTM: 577067 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821788 mN

Comments: Float sample from slope. 20x20x20cm qtz lense in carbonaceous>chloritic SI, trace Py in quartz.

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Sample Number: K294506 Date Collected: 2019-09-16 UTM: 576291 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821664 mN

Comments: Outcrop of ~0.5m of rusted medium-light grey-green gritty sericite altered SI with trace disseminated Py. Bedding 090/25.

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Sample Number: K294507 Date Collected: 2019-09-16 UTM: 575885 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821629 mN

Comments: Grab from scree slope below large steep outcrop of light buff coloured carbonate rocks. Boulder of coarsely brecciated and silicified carbonate (or cherty carbonate) cut through with quartz stringers. Minor Py, ~1% in sampled material.

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Sample Number: K294508 Date Collected: 2019-09-16 UTM: 575839 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821652 mN

Comments: Quartz lense in in fine grained SS. Trace disseminated Py in country rocks, trace Fe-ox in quartz vein. Sample site blow large outcrop of light buff coloured carbonate rocks.

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Sample Number: K294509 Date Collected: 2019-09-16 UTM: 575623 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821885 mN

Comments: Quartz vein in sericite SI, trace vnhal Py. Quartz vein orientations look to be related to nearby fault (tension gashes?). Nearby fault is steeply dipping, striking 125. Sample site on west side of cliffy outcrop on ridge.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: K294510 Date Collected: 2019-09-16 UTM: 575646 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821930 mN

Comments: 3cm qtz vein with minor Py.

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Sample Number: K294511 Date Collected: 2019-09-16 UTM: 575671 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821937 mN

Comments: White to buff coloured quartz veins / vein swarm in mod silicified fine grained chl-SS outcrop. Trace P and dark black mineral (possibly hemitite?). Additionally observed 15-20cm wide vein in outcrop ~5m above sample site, roughly trending 320/30.

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Sample Number: K294512 Date Collected: 2019-09-16 UTM: 576376 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820078 mN

Comments: Med-light grey SI cobble with sheeted swarm of quartz veinlets >3mm crosscutting foliation, veinlets contain minor Py, Aspy, & Pyr(?), moderate silica alteration in host rock.

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Sample Number: K294513 Date Collected: 2019-09-16 UTM: 576450 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819952 mN

Comments: Quartz veinlets rimmed with Fe-carb in SI float, minor vnhal, vnhos Py. Sample is grab from scree below cliffy outcrop.

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Sample Number: K294514 Date Collected: 2019-09-16 UTM: 576500 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819819 mN

Comments: Rusty vein swarm striking 260 in lower cliffy section of outcrop. Veining chaotic but looks to be shear related. Mix of Fe-carb and quartz with trace Py and Cpy. Veins up to 5cm across, generally >1.5cm. Sample ~90% vein material, 10% host rock.

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Sample Number: K294515 Date Collected: 2019-09-16 UTM: 576515 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819794 mN

Comments: Outcrop pf rusty brown green SI with quartz veins cutting through at ~260/20. Fe-ox in vein, trace Mal and Cpy, no Py observed, vein ~5cm thick.

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: K294516 Date Collected: 2019-09-16 UTM: 576528 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819775 mN

Comments: Float below outcrop, green volcanic rock with vesicles, cut by quartz veins. Moderate silica alteration in host rock. Veins have trace to minor Cpy, and rock has trace Mal staining. Veins ~1cm across, sample ~15x15x15cm.

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Sample Number: K294517 Date Collected: 2019-09-16 UTM: 576674 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819658 mN

Comments: Well defined quartz shear zone in volcanic/volcanoclastic, ~50cm thick, with multiple smaller splays and alteration halo ~2m wide. Trace Mal, trace Py.

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Sample Number: K294518 Date Collected: 2019-09-16 UTM: 576502 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819799 mN

Comments: Very oxidized sulphide rich (Py) rock from float below outcrop, but confident that the source of the source is visible in unaccessible part of outcrop above. Rusty rock with possibly scorodite staining as well, rusted area in outcrop ~0.5x3m.

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Sample Number: R609005 Date Collected: 2019-09-16 UTM: 572809 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823430 mN

Comments: Outcrop sample of red-brown weathering, tan quartz hosting moderate disseminated pyrite throughout and sparse clots of earthy tan-brown oxide. Removed from fold nose(?). Developed in green chlorite schist.

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Sample Number: R609006 Date Collected: 2019-09-16 UTM: 572845 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823429 mN

Comments: float sample of 2 pale green-white foliated quartz 'sweat' schist amongst chlorite schist. Hosts mm-scale (up to 5mm) bands of fine grained epidote and trace very fine pyrite. Crosscut by dark black hairline fractures (chlorite?) also hosting trace pyri

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Sample Number: R609007 Date Collected: 2019-09-16 UTM: 572842 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823427 mN

Comments: Float of strangely foliated quartz-chlorite schist with abundant very fine grained pyrite throughout, developed along foliation. Tarnishing gold-yellow colour. Collected on steep vegetation slope.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: R609008 Date Collected: 2019-09-16 UTM: 572896 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823505 mN

Comments: subcrop sample of brown weathering medium green chlorite schist with 1-3% disseminated pyrite throughout. Forms euhedral cubes on tan weathering 2-3cm wide quartz veins that cut foliation. Trace patches of fine epidote and thin (<1mm) wide hairline frac

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Sample Number: R609009 Date Collected: 2019-09-16 UTM: 572855 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823529 mN

Comments: outcrop sample of light to medium brown, strongly (muscovite-ankerite?) altered chlorite schist with 1% very fine grained pyrite disseminated throughout. Mm-scale tan quartz-carbonate veinlets. Foliation (093/19).

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Sample Number: W793351 Date Collected: 2019-09-16 UTM: 573584 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824903 mN

Comments: 300 cm chip sample. Same lithology as K283984 (shear)

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Sample Number: W793352 Date Collected: 2019-09-16 UTM: 573582 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824903 mN

Comments: 140 cm chip sample. Same lithology as K283984. sub vertical vein oriented 343/90.

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Sample Number: W793353 Date Collected: 2019-09-16 UTM: 573568 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824810 mN

Comments: 180 cm long. Same lithology as K283984.

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Sample Number: W793354 Date Collected: 2019-09-16 UTM: 573566 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824810 mN

Comments: 200 cm long. Same lithology as K283984.

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Sample Number: W793355 Date Collected: 2019-09-16 UTM: 573564 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6824808 mN

Comments: 200 cm long. Same lithology as K283984.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: W793356 Date Collected: 2019-09-16 UTM: 572833 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823416 mN

Comments: Chlorite schist hosting white quartz vein with tan carbonate (ankerite?) within. Both quartz and chlorite schist host disseminated pyrite (up to 5%). Found in steep creek gully (outcrop). Vein traces ~140 degrees(??).

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Sample Number: W793357 Date Collected: 2019-09-16 UTM: 572846 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6823424 mN

Comments: Milky white quartz boulders (float) found within chlorite schist boulder float (subcrop). Quartz is barren, but may be the 'quartz slab' identified in text and maps from Tremblay. Beside sample Si449

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Sample Number: W793358 Date Collected: 2019-09-16 UTM: 577726 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821472 mN

Comments: Milky white quartz boulder found against tree in moss. Roughly 1x1m(?). Minor orange weathering. No sulphides.

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Sample Number: W793359 Date Collected: 2019-09-16 UTM: 578472 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820866 mN

Comments: 70 cm chip sample. Extension of quartz vein found in 2018. exposed further downhill. Disseminated pyrite and weathered out pyrite cavities with limonite weathering present disseminated throughout. Contact of vein appears as dark chlorite schist with m

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Sample Number: W793360 Date Collected: 2019-09-16 UTM: 578446 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6820851 mN

Comments: milky white quartz float found in gully above JP and KW vein. White quartz has brecciated clasts of either graphitic schist or siltstone (?) within. Disseminated pyrite found in association with black brecciated clasts. Minor sugary quartz is found. De

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Sample Number: W793361 Date Collected: 2019-09-16 UTM: 576277 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821664 mN

Comments: tan coloured carbonate package with abundant quartz veinlets and stringers (in net textured and stockwork-like veining). Unit hosts abundant blebs of purple weathered pyrite (disseminated but blebby) along some quartz and fracture planes. FRX (224/67)

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**Rock Sample Descriptions**

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Property: Vault

Sample Number: W793362 Date Collected: 2019-09-16 UTM: 575656 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821827 mN

Comments: 70 cm chip sample. Quartz veins cutting across green chlorite +/- graphite schist (chip runs parallel to foliation) (278/15). Quartz veining hosts disseminated pyrite and patchy orange oxidation.

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Sample Number: W793363 Date Collected: 2019-09-16 UTM: 575696 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821936 mN

Comments: quartz vein subcrop (not outcrop, but very close to source). Found in talus slope ~15m below outcrop bluff. Quartz cuts strongly foliated green chlorite schist typically along foliation. Surrounding schist hosts abundant disseminated pyrite and

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Sample Number: W793364 Date Collected: 2019-09-16 UTM: 575689 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821931 mN

Comments: 25cm quartz vein cutting light to medium green, strongly foliated chlorite schist. Foliation parallel to vein (284/50). Quartz has thin disseminated pyrite throughout that is locally weathered leaving limonitic pits. Bluff above has immense quartz veins

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Sample Number: W793365 Date Collected: 2019-09-16 UTM: 575673 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821927 mN

Comments: Intensely oxidized and limonite weathered green volcanoclastic (+/- schist??). No definitive sulphides, but intense gouge and oxidation. Foliation (110/40)

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Sample Number: W793366 Date Collected: 2019-09-16 UTM: 575671 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821855 mN

Comments: composite grab sample over ~3m of multiple quartz veins cutting dark green chlorite schist. Veins have chlorite fragments within and disseminated pyrite. Follows foliation (295/35)

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Sample Number: W793367 Date Collected: 2019-09-16 UTM: 575655 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6821831 mN

Comments: 20 cm quartz vein following foliation of green chlorite schist. Intensely orange/yellow altered gouge with disseminated pyrite is present along strike of quartz vein.

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**Rock Sample Descriptions**Property: Vault

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Sample Number: W793368 Date Collected: 2019-09-16 UTM: 576307 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819951 mN

Comments: Light grey to green, rusty red oxidized, bleached volcanics(?). Found within light grey quartz dominant schist (+- muscovite?). Volcaniclastic is impregnated with minor quartz lenses and floods. Hosts abundant disseminated pyrite (>25%) and is ve

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Sample Number: W793369 Date Collected: 2019-09-16 UTM: 576394 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819908 mN

Comments: 15-20cm pale grey intrusive dyke cutting black, very fine grained, siltstone. Dyke hosts clusters (abundant) of disseminated pyrite with locally strong oxidation on surface. Lots of limonite and yellow to grey gouge is present. Dyke cuts siltstone at (

---

Sample Number: W793370 Date Collected: 2019-09-16 UTM: 576394 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819908 mN

Comments: Same area as W793369. above intrusive dyke is quartz veinlets and dilation veinlets that cut oblique to dyke orientation. Disseminated pyrite/chalcopyrite(?) present within.

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Sample Number: W793371 Date Collected: 2019-09-16 UTM: 576459 mE Nad83, Zone 7  
Elevation: m Sampler: Unknown Person UTM: 6819769 mN

Comments: Quartz breccia vein zone cutting dark green volcanics. Breccia zone is encapsulated by ~5m orange alteration zone above and below, with the breccia vein zone up to 1.5m wide (?) (true width obscured by snow and talus). Orange angular clasts of bleached

---

**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**



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Page: 1  
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 Finalized Date: 23-AUG-2019  
 Account: MTT

**CERTIFICATE WH19205370**

Project: VAULT

This report is for 7 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17-AUG-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
--------------------------------	------------------------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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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**CERTIFICATE OF ANALYSIS WH19205370**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K283984		5.58	0.11	0.52	16.6	<0.02	<10	280	0.52	0.10	4.20	0.20	2.78	14.0	7	0.92
K283985		7.12	0.28	0.41	88.1	<0.02	<10	330	0.47	0.16	4.02	0.56	2.61	12.9	10	0.66
K283986		3.91	0.28	0.40	25.5	<0.02	<10	750	0.29	0.14	1.96	0.55	3.24	23.0	11	0.38
K283987		3.34	0.35	0.39	87.4	<0.02	<10	140	0.36	0.26	3.27	1.00	1.49	13.1	11	0.67
K283988		2.85	0.30	0.26	17.5	<0.02	<10	120	0.21	0.19	1.42	0.27	3.34	13.7	17	0.35
K283989		5.48	0.14	0.54	20.7	<0.02	<10	310	0.60	0.12	4.17	0.23	2.82	15.7	7	0.98
K283990		7.78	0.19	0.48	76.7	<0.02	<10	490	0.47	0.16	4.19	0.37	3.29	12.4	10	0.71



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**CERTIFICATE OF ANALYSIS WH19205370**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
K283984		47.6	3.93	1.20	<0.05	<0.02	0.06	0.031	0.16	1.0	0.7	1.48	872	1.22	0.06	<0.05
K283985		35.8	3.26	0.97	<0.05	<0.02	0.14	0.027	0.14	1.1	0.5	0.89	460	2.56	0.05	<0.05
K283986		42.6	2.00	1.00	<0.05	<0.02	0.06	0.024	0.13	1.4	0.7	0.38	329	1.23	0.04	<0.05
K283987		41.8	3.13	0.94	<0.05	<0.02	0.14	0.033	0.13	0.7	0.7	0.93	384	2.17	0.04	<0.05
K283988		29.7	2.25	0.74	<0.05	<0.02	0.10	0.030	0.08	1.4	0.4	0.34	370	1.06	0.04	<0.05
K283989		54.2	4.13	1.26	<0.05	<0.02	0.06	0.034	0.17	1.0	0.6	1.44	891	1.23	0.06	<0.05
K283990		32.4	3.32	1.18	<0.05	<0.02	0.10	0.023	0.16	1.4	0.8	1.09	506	1.95	0.06	<0.05

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



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<b>CERTIFICATE OF ANALYSIS WH19205370</b>
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Sample Description	Method	Analyte	Units	LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41				
					Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K283984					26.7	910	7.0	4.6	0.003	0.15	0.96	8.8	0.9	<0.2	257	<0.01	0.06	0.3	<0.005
K283985					43.6	630	7.8	3.7	0.005	0.79	3.88	8.5	2.1	<0.2	141.0	<0.01	0.11	0.3	<0.005
K283986					44.5	610	5.8	3.4	0.005	0.29	2.88	6.1	1.4	<0.2	69.3	<0.01	0.12	0.3	<0.005
K283987					59.0	390	7.7	3.7	0.006	0.63	3.24	9.7	2.1	<0.2	135.0	<0.01	0.20	0.2	<0.005
K283988					43.6	420	8.2	2.3	0.002	0.69	2.19	5.3	1.8	<0.2	56.5	<0.01	0.08	0.2	<0.005
K283989					30.4	970	7.5	4.6	0.003	0.15	1.22	10.3	0.7	<0.2	244	<0.01	0.06	0.3	<0.005
K283990					38.5	650	6.0	4.4	0.004	0.45	3.09	8.1	1.6	<0.2	164.0	<0.01	0.11	0.4	<0.005



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CERTIFICATE OF ANALYSIS WH19205370
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	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
K283984		0.04	0.20	41	<0.05	8.19	96	<0.5	0.003
K283985		0.04	0.20	35	<0.05	8.56	101	<0.5	0.019
K283986		0.04	0.30	28	<0.05	6.75	61	<0.5	0.014
K283987		0.04	0.27	45	<0.05	7.44	132	<0.5	0.021
K283988		0.03	0.11	21	<0.05	5.39	80	<0.5	0.009
K283989		0.05	0.22	43	<0.05	8.85	102	<0.5	0.005
K283990		0.04	0.16	39	0.05	7.85	86	<0.5	0.013



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**CERTIFICATE OF ANALYSIS WH19205370**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 ME-MS41



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 Total # Pages: 2 (A)  
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 Finalized Date: 25-AUG-2019  
 Account: MTT

**CERTIFICATE WH19205391**

Project: VAULT

This report is for 7 Reject samples submitted to our lab in Whitehorse, YT, Canada on 17-AUG-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
--------------------------------	------------------------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
SCR-21	Screen 1kg to 106 to 106um
SPL-21	Split sample - riffle splitter
BAG-01	Bulk Master for Storage
PUL-32	Pulverize 1000g to 85% < 75 um
FND-03	Find Reject for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-SCR21	Au Screen Fire Assay - 100 to 106 um	WST-SIM
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
Au-AA25D	Ore Grade Au 30g FA AA Dup	AAS

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Project: VAULT

<b>CERTIFICATE OF ANALYSIS WH19205391</b>
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Sample Description	Method Analyte Units LOD	Au-SCR21 Au Total ppm	Au-SCR21 Au (+) F ppm	Au-SCR21 Au (-) F ppm	Au-SCR21 Au (+) m mg	Au-SCR21 WT. + Fr g	Au-SCR21 WT. - Fr g	Au-AA25 Au ppm	Au-AA25D Au ppm
		0.05	0.05	0.05	0.001	0.01	0.1	0.01	0.01
K283984		<0.05	<0.05	<0.05	<0.001	57.25	841.4	0.01	0.01
K283985		<0.05	<0.05	<0.05	<0.001	88.11	822.0	0.04	0.02
K283986		<0.05	<0.05	<0.05	<0.001	72.89	894.7	0.02	0.02
K283987		<0.05	<0.05	<0.05	<0.001	70.38	821.9	0.03	0.02
K283988		0.05	<0.05	0.06	<0.001	75.24	733.7	0.01	0.11
K283989		<0.05	<0.05	<0.05	<0.001	53.86	864.0	0.01	0.01
K283990		<0.05	<0.05	<0.05	<0.001	61.57	833.2	0.02	0.02



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 25-AUG-2019  
Account: MTT

Project: VAULT

**CERTIFICATE OF ANALYSIS WH19205391**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. FND-03			
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-AA25	Au-AA25D	Au-SCR21	BAG-01
	PUL-32	SCR-21		



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 Plus Appendix Pages  
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 Account: MTT

**CERTIFICATE WH19206778**

Project: VAULT

This report is for 21 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-AUG-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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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Project: VAULT

**CERTIFICATE OF ANALYSIS WH19206778**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
W793351		4.23	0.15	0.54	14.7	<0.02	<10	300	0.41	0.10	4.00	0.20	3.53	11.8	15	0.99
W793352		3.29	0.08	0.48	10.6	<0.02	<10	90	0.41	0.08	4.23	0.12	2.75	11.6	18	0.88
W793353		3.99	0.08	0.37	12.6	<0.02	<10	580	0.40	0.05	14.25	0.25	2.66	12.8	12	0.79
W793354		3.88	0.13	0.46	11.9	<0.02	<10	870	0.35	0.07	5.76	0.19	3.59	14.5	19	0.78
W793355		2.05	0.20	0.53	16.7	<0.02	<10	670	0.45	0.07	7.88	0.28	3.00	15.5	20	0.87
W793357		1.47	0.12	0.05	0.5	0.02	<10	20	<0.05	0.18	0.19	0.02	0.17	1.0	28	<0.05
K283991		4.63	0.17	0.29	12.1	<0.02	<10	320	0.28	0.06	2.73	0.19	4.69	9.0	13	0.35
K283992		9.78	1.15	0.25	25.0	<0.02	<10	60	0.25	0.09	1.43	0.21	3.62	10.9	11	0.44
K283993		5.01	0.28	0.34	26.6	<0.02	<10	440	0.24	0.07	2.84	0.24	3.80	12.0	10	0.62
K283994		3.71	0.23	0.28	11.3	<0.02	<10	300	0.18	0.07	1.72	0.21	3.93	8.5	10	0.42
K283995		6.42	0.16	0.51	22.4	<0.02	<10	330	0.38	0.10	4.43	0.22	3.40	11.9	11	0.96
K283996		2.95	0.44	0.32	16.5	<0.02	<10	170	0.27	0.08	2.93	0.20	3.50	16.0	17	0.60
K283997		2.73	0.22	0.25	7.8	<0.02	<10	110	0.21	0.05	4.60	0.57	3.38	4.9	19	0.28
K283998		4.97	0.22	0.37	18.9	<0.02	<10	470	0.23	0.07	3.57	0.23	4.17	10.5	15	0.64
K283999		1.74	0.26	0.39	27.5	0.02	<10	350	0.26	0.13	3.55	0.53	2.69	6.2	9	0.60
K284000		5.08	0.22	0.54	32.4	<0.02	<10	510	0.24	0.02	3.36	0.15	4.52	27.7	43	1.43
R609005		1.28	0.10	0.18	11.7	<0.02	<10	40	0.05	0.05	1.37	0.05	6.49	3.4	7	<0.05
R609006		2.16	0.01	0.43	0.7	<0.02	<10	120	0.06	0.01	1.15	0.02	4.46	1.0	12	0.08
R609007		1.65	0.39	0.53	2.3	0.50	<10	90	0.15	0.21	4.49	0.36	6.19	12.8	4	0.09
R609008		1.27	0.23	2.12	10.3	0.02	<10	60	0.12	0.04	7.10	0.46	10.00	29.5	40	0.11
R609009		1.51	0.27	0.47	6.7	0.05	<10	20	0.11	0.12	6.81	0.08	7.24	26.1	3	0.06



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Project: VAULT

CERTIFICATE OF ANALYSIS WH19206778
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Method Analyte Units LOD	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
Sample Description	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
W793351	36.5	3.53	1.60	<0.05	<0.02	0.07	0.030	0.18	1.6	2.2	1.68	749	1.42	0.07	<0.05
W793352	38.4	3.93	1.33	<0.05	<0.02	0.04	0.030	0.16	1.1	1.5	1.86	1050	0.91	0.06	<0.05
W793353	34.4	3.23	0.89	<0.05	<0.02	0.28	0.020	0.11	1.4	1.2	3.15	612	0.95	0.04	<0.05
W793354	44.2	3.86	1.19	<0.05	<0.02	0.13	0.031	0.14	1.5	1.5	1.81	898	1.19	0.05	<0.05
W793355	43.6	3.62	1.35	<0.05	<0.02	0.12	0.029	0.15	1.3	3.3	1.73	689	1.18	0.05	<0.05
W793357	1.3	0.71	0.19	<0.05	<0.02	<0.01	<0.005	0.04	<0.2	0.3	0.07	116	1.59	<0.01	<0.05
K283991	21.0	2.35	0.77	<0.05	<0.02	0.06	0.026	0.11	2.9	0.6	0.35	396	1.77	0.03	<0.05
K283992	28.0	5.43	0.63	<0.05	<0.02	0.14	0.029	0.11	1.9	0.6	0.14	260	9.49	0.02	<0.05
K283993	47.9	3.47	0.86	<0.05	<0.02	0.07	0.030	0.14	2.0	0.8	1.13	395	2.52	0.03	<0.05
K283994	23.5	2.39	0.71	<0.05	<0.02	0.06	0.024	0.13	2.2	0.6	0.59	228	2.14	0.02	<0.05
K283995	36.4	3.91	1.30	<0.05	<0.02	0.05	0.034	0.16	1.6	1.5	1.70	773	1.49	0.05	<0.05
K283996	43.4	4.18	0.89	<0.05	<0.02	0.06	0.025	0.13	2.1	2.1	1.53	387	3.77	0.03	<0.05
K283997	13.8	2.53	0.74	<0.05	<0.02	0.05	0.018	0.08	2.4	0.8	1.63	693	2.52	0.03	<0.05
K283998	26.9	3.47	0.96	<0.05	<0.02	0.06	0.028	0.13	1.8	2.0	1.31	528	1.80	0.04	<0.05
K283999	21.7	2.91	1.09	<0.05	<0.02	0.09	0.028	0.15	1.1	0.6	1.26	482	1.46	0.05	<0.05
K284000	129.0	7.11	1.52	<0.05	<0.02	0.05	0.055	0.11	1.9	6.1	4.29	878	0.15	0.10	<0.05
R609005	41.4	1.41	0.55	<0.05	<0.02	<0.01	0.011	0.08	3.9	0.3	0.34	285	1.43	0.09	<0.05
R609006	1.7	0.55	1.66	<0.05	0.05	<0.01	<0.005	0.16	3.0	0.6	0.05	272	0.27	0.06	0.28
R609007	8.4	3.14	1.27	<0.05	<0.02	<0.01	0.007	0.36	3.1	0.8	1.09	1160	0.24	0.03	<0.05
R609008	151.0	7.88	7.46	0.05	0.02	<0.01	0.053	0.14	4.0	7.0	2.85	1520	2.38	0.03	<0.05
R609009	97.9	6.66	1.25	<0.05	<0.02	<0.01	0.031	0.11	3.0	1.8	2.03	1340	0.50	0.07	<0.05



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 Account: MTT

Project: VAULT

**CERTIFICATE OF ANALYSIS WH19206778**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
W793351		33.8	830	6.6	5.5	0.002	0.18	2.96	8.4	0.8	<0.2	273	<0.01	0.05	0.4	<0.005	
W793352		30.6	1080	8.7	4.7	0.001	0.06	1.09	8.6	0.6	<0.2	352	<0.01	0.04	0.2	<0.005	
W793353		32.2	520	3.9	3.1	0.004	0.15	1.50	8.8	0.9	<0.2	549	<0.01	0.01	0.2	<0.005	
W793354		33.4	610	5.3	3.9	0.004	0.22	1.15	9.7	1.3	<0.2	251	<0.01	0.03	0.4	<0.005	
W793355		39.4	680	5.6	4.6	0.005	0.22	0.91	10.5	1.9	<0.2	488	<0.01	0.04	0.3	<0.005	
W793357		2.1	10	3.6	0.7	0.003	0.06	0.06	0.3	<0.2	<0.2	11.4	<0.01	0.06	<0.2	<0.005	
K283991		44.2	420	4.4	3.7	0.003	0.50	3.00	4.9	1.4	<0.2	34.6	<0.01	0.03	0.5	<0.005	
K283992		57.7	350	12.1	3.7	0.006	3.10	3.38	4.4	9.6	<0.2	25.0	<0.01	0.06	0.4	<0.005	
K283993		49.8	420	7.1	4.4	0.005	0.61	4.60	6.8	2.1	<0.2	163.0	<0.01	0.05	0.3	<0.005	
K283994		41.8	230	5.4	4.0	0.006	0.85	2.87	4.2	2.1	<0.2	80.6	<0.01	0.03	0.3	<0.005	
K283995		26.5	850	7.9	4.9	0.002	0.22	1.29	7.7	1.0	<0.2	260	<0.01	0.04	0.4	<0.005	
K283996		76.3	260	9.0	4.2	0.005	1.52	4.11	8.0	4.7	<0.2	150.0	<0.01	0.04	0.4	<0.005	
K283997		31.4	780	4.1	2.3	0.007	0.55	3.05	4.0	1.4	<0.2	132.0	<0.01	0.03	0.4	<0.005	
K283998		42.7	490	6.4	4.3	0.005	0.71	3.15	7.3	1.4	<0.2	147.0	<0.01	0.05	0.4	<0.005	
K283999		26.6	680	9.6	3.7	0.005	0.59	4.80	5.1	0.8	<0.2	232	<0.01	0.12	0.2	<0.005	
K284000		47.0	740	4.6	3.7	0.001	0.34	4.20	24.1	0.9	<0.2	224	<0.01	0.02	<0.2	<0.005	
R609005		1.8	560	2.9	1.5	<0.001	0.60	0.18	1.9	0.2	<0.2	65.8	<0.01	0.06	2.8	<0.005	
R609006		0.8	170	1.6	3.3	<0.001	0.03	0.36	0.4	<0.2	<0.2	121.5	<0.01	<0.01	3.5	0.022	
R609007		8.9	750	5.9	6.2	0.001	2.04	0.15	2.0	0.4	<0.2	365	<0.01	0.32	1.5	<0.005	
R609008		41.6	600	3.1	3.9	0.005	0.49	0.38	16.8	0.3	<0.2	324	<0.01	0.09	0.3	0.011	
R609009		12.3	1480	1.7	2.7	0.001	0.98	0.05	9.0	0.7	<0.2	162.5	<0.01	0.16	0.2	<0.005	



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Project: VAULT

CERTIFICATE OF ANALYSIS WH19206778
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Sample Description	Method Analyte Units LOD	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
W793351		0.04	0.23	39	0.05	6.24	91	0.5	0.010
W793352		0.04	0.21	45	<0.05	5.92	87	0.6	0.002
W793353		0.05	0.23	40	<0.05	7.63	58	<0.5	0.003
W793354		0.04	0.14	50	<0.05	7.91	80	<0.5	0.002
W793355		0.07	0.27	46	<0.05	7.41	80	<0.5	0.002
W793357		<0.02	<0.05	3	<0.05	0.21	3	<0.5	0.176
K283991		0.03	0.16	26	<0.05	6.42	110	<0.5	0.001
K283992		0.34	0.19	23	<0.05	5.20	120	<0.5	0.036
K283993		0.03	0.17	38	<0.05	4.91	121	<0.5	0.008
K283994		0.04	0.14	23	<0.05	3.62	116	<0.5	0.002
K283995		0.04	0.24	42	<0.05	7.79	94	<0.5	0.006
K283996		0.04	0.14	45	<0.05	4.27	111	<0.5	0.005
K283997		0.02	0.44	28	0.05	9.12	92	<0.5	0.003
K283998		0.03	0.16	42	<0.05	6.29	119	<0.5	0.018
K283999		0.04	0.17	30	<0.05	5.27	99	<0.5	0.041
K284000		0.02	<0.05	162	<0.05	10.10	77	<0.5	0.011
R609005		<0.02	0.35	6	0.13	2.38	12	<0.5	0.006
R609006		0.03	0.89	10	0.18	1.87	4	0.6	0.008
R609007		0.04	0.19	12	0.26	5.23	41	<0.5	0.580
R609008		0.02	0.05	149	0.13	12.00	123	<0.5	0.023
R609009		<0.02	0.05	44	<0.05	6.42	45	<0.5	0.056





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**CERTIFICATE WH19208827**

Project: VAULT

This report is for 46 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22-AUG-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

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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**CERTIFICATE OF ANALYSIS WH19208827**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-GRA21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
W793356		1.49	0.139		0.17	0.80	4.4	0.29	<10	90	0.20	0.19	4.98	0.10	8.94	14.0
W793358		1.02	0.447		0.09	0.02	1.5	0.12	<10	<10	<0.05	0.02	0.05	<0.01	0.11	0.8
W793359		3.38	>10.0	15.95	4.39	0.05	6.9	22.8	<10	20	<0.05	0.18	0.09	0.03	2.00	1.6
W793360		1.55	0.039		0.09	0.03	9.4	0.02	<10	<10	<0.05	0.05	0.31	0.04	1.48	2.0
W793361		1.66	0.021		0.26	0.03	8.2	0.03	<10	80	0.10	0.12	18.90	0.78	1.41	4.5
W793362		3.12	0.049		0.29	1.53	7.0	0.09	<10	90	0.16	0.05	3.86	0.22	6.58	11.0
W793363		1.48	1.120		0.54	1.12	74.3	1.39	<10	40	0.11	0.75	0.67	0.04	13.80	10.6
W793364		1.75	0.010		0.17	0.57	0.4	<0.02	<10	70	0.10	0.26	1.26	0.04	3.41	4.1
W793365		1.43	0.086		0.70	1.78	35.2	0.05	<10	90	0.19	0.25	0.58	0.03	4.58	15.2
W793366		1.35	0.032		0.33	1.69	10.7	<0.02	<10	40	0.15	0.13	1.73	0.16	7.40	8.6
W793367		1.48	0.128		0.72	0.91	6.0	0.07	<10	150	0.10	0.14	4.82	0.88	5.15	7.4
W793368		1.88	0.223		2.46	1.81	338	0.21	<10	20	0.46	8.82	1.64	0.13	15.30	48.7
W793369		1.73	0.029		0.52	0.52	14.9	<0.02	<10	70	0.11	0.20	1.02	5.01	11.40	8.4
W793370		1.20	0.008		0.20	1.69	2.9	<0.02	<10	50	0.17	0.09	0.53	0.17	9.39	7.7
W793371		2.06	2.63		0.11	0.13	32.6	0.84	<10	10	<0.05	<0.01	1.87	0.12	1.32	5.9
K291525		0.98	0.178		0.32	0.03	3.1	0.24	<10	<10	<0.05	0.07	0.07	0.02	0.75	1.5
K291526		0.55	0.005		0.07	0.01	7.2	<0.02	<10	10	0.06	0.01	8.35	0.11	0.83	0.8
K291527		1.53	0.006		0.01	0.54	6.5	<0.02	<10	<10	0.05	0.03	10.50	0.04	0.14	7.2
K291528		1.39	0.062		2.65	0.05	8.9	0.05	<10	<10	<0.05	3.05	1.76	1.58	1.73	1.6
K291529		1.24	0.013		0.25	0.04	14.9	<0.02	<10	20	<0.05	0.03	0.15	0.22	2.77	1.6
K291530		1.75	0.002		0.05	0.21	3.2	<0.02	<10	10	<0.05	0.04	5.91	0.09	8.47	1.4
K291531		1.23	0.013		0.04	0.55	38.2	0.03	<10	20	0.07	0.02	6.73	0.10	4.40	15.2
K291532		0.90	0.060		0.05	0.25	47.7	0.05	<10	10	0.06	0.01	4.43	0.10	2.72	12.2
K291533		1.19	0.084		0.02	0.04	8.7	0.03	<10	10	<0.05	0.01	1.25	0.03	0.81	3.5
K291534		0.99	4.30		0.17	0.11	119.5	1.19	<10	20	<0.05	<0.01	1.67	0.65	1.14	6.0
K291535		1.46	0.338		0.05	0.15	91.6	0.18	<10	20	<0.05	0.01	4.96	0.25	2.86	11.9
K291536		0.71	0.068		0.02	0.23	2.3	<0.02	<10	20	0.05	0.01	6.06	0.11	3.04	15.9
K291537		0.86	0.002		0.02	0.99	1.6	<0.02	<10	<10	0.10	<0.01	11.05	0.13	2.40	10.9
K294501		1.02	0.006		0.28	0.58	3.0	<0.02	<10	20	0.16	0.09	3.03	0.20	3.34	41.3
K294502		1.00	0.003		0.02	0.02	0.5	<0.02	<10	10	0.11	0.01	18.10	0.18	1.62	1.0
K294503		0.84	0.060		0.27	0.19	25.1	0.02	<10	40	0.09	0.13	3.12	0.07	6.33	5.6
K294504		1.02	0.031		0.16	0.17	16.1	0.02	<10	30	0.16	0.28	3.85	0.05	10.40	5.1
K294505		0.97	0.003		0.05	1.17	21.4	<0.02	<10	10	0.05	0.03	8.93	0.02	2.65	9.1
K294506		1.16	0.003		0.19	1.41	13.7	<0.02	<10	40	0.08	0.09	1.10	0.12	2.83	17.0
K294507		0.82	0.026		0.24	0.03	8.7	0.02	<10	<10	0.05	0.04	11.30	0.54	3.34	2.5
K294508		0.93	0.007		0.31	1.48	6.0	<0.02	<10	30	0.27	0.52	5.73	0.10	5.21	10.8
K294509		1.04	0.007		0.34	1.35	15.6	<0.02	<10	70	0.09	0.08	6.30	0.37	3.34	22.5
K294510		0.98	0.296		2.47	1.10	7.8	0.29	<10	50	0.10	52.6	1.87	0.10	3.86	20.2
K294511		0.86	0.007		0.10	1.07	1.3	<0.02	<10	60	0.14	0.18	0.35	0.12	7.78	4.8
K294512		0.89	0.029		0.41	0.71	11.4	0.02	<10	10	0.09	0.26	2.03	0.79	7.62	9.5



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

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

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**CERTIFICATE OF ANALYSIS WH19208827**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
W793356		6	0.13	53.4	3.38	2.57	<0.05	<0.02	<0.01	0.013	0.31	4.1	3.6	1.27	1120	0.29
W793358		19	<0.05	23.8	0.59	0.10	<0.05	<0.02	<0.01	<0.005	0.01	<0.2	0.1	0.01	57	0.73
W793359		23	<0.05	12.0	0.79	0.17	<0.05	<0.02	0.01	0.008	0.03	1.0	0.2	0.03	95	0.48
W793360		26	<0.05	1.4	0.78	0.10	<0.05	<0.02	<0.01	<0.005	<0.01	0.7	0.1	0.10	95	0.61
W793361		2	<0.05	82.2	6.61	0.18	<0.05	<0.02	0.03	0.008	<0.01	1.9	0.4	7.32	1460	20.0
W793362		16	0.06	67.3	3.75	3.68	<0.05	0.02	<0.01	0.013	0.13	3.2	8.8	0.74	1150	0.89
W793363		4	0.10	82.6	3.84	3.93	<0.05	0.02	<0.01	0.020	0.12	7.2	4.9	0.65	464	22.4
W793364		7	0.13	30.1	1.72	1.65	<0.05	0.03	<0.01	<0.005	0.25	1.7	2.0	0.22	303	1.80
W793365		16	0.19	41.3	4.29	3.83	<0.05	0.03	<0.01	0.009	0.22	2.0	10.9	0.91	512	5.32
W793366		18	0.09	73.1	3.79	4.07	<0.05	0.04	<0.01	0.011	0.15	3.6	9.0	0.82	911	1.13
W793367		14	0.06	150.0	3.29	2.37	<0.05	<0.02	0.01	0.027	0.09	2.5	6.0	0.44	1480	1.72
W793368		2	0.20	155.5	14.45	9.12	0.12	0.15	0.07	0.321	0.09	9.0	17.0	1.17	1170	5.47
W793369		10	0.24	87.7	2.15	2.05	<0.05	0.25	0.63	0.209	0.09	5.3	3.4	0.23	333	4.26
W793370		29	0.35	80.4	3.42	7.01	0.06	0.16	0.33	0.024	0.13	4.1	17.3	1.01	676	1.34
W793371		18	0.29	16.4	2.03	0.37	<0.05	<0.02	0.01	0.013	0.04	0.5	0.6	0.65	344	0.55
K291525		23	<0.05	1.3	0.73	0.11	<0.05	<0.02	<0.01	<0.005	0.01	0.3	0.1	0.03	99	0.77
K291526		17	<0.05	4.7	1.73	0.10	<0.05	<0.02	0.01	<0.005	<0.01	1.2	0.3	4.06	1100	0.27
K291527		16	<0.05	3.4	0.93	0.82	<0.05	<0.02	<0.01	<0.005	0.01	<0.2	0.8	0.14	313	0.14
K291528		24	<0.05	2.7	0.98	0.23	<0.05	<0.02	0.01	0.062	0.01	0.9	0.3	0.26	168	5.14
K291529		20	<0.05	24.7	1.13	0.12	<0.05	<0.02	0.02	<0.005	0.01	2.2	0.1	0.06	52	0.46
K291530		14	<0.05	5.2	0.79	0.63	<0.05	<0.02	0.02	0.018	0.01	4.2	1.9	0.18	533	0.32
K291531		22	0.22	17.2	4.00	2.38	<0.05	<0.02	0.01	0.032	0.06	1.6	9.3	1.87	938	0.23
K291532		16	0.26	28.8	3.12	0.78	<0.05	<0.02	<0.01	0.020	0.09	0.9	3.1	1.46	716	0.23
K291533		22	0.06	4.5	1.17	0.16	<0.05	<0.02	<0.01	<0.005	0.03	0.3	0.2	0.23	191	0.36
K291534		21	0.17	50.2	1.59	0.42	<0.05	<0.02	0.02	0.014	0.05	0.4	0.7	0.54	310	0.55
K291535		17	0.30	30.6	3.82	0.59	<0.05	<0.02	0.01	0.026	0.07	0.9	0.7	1.38	587	3.53
K291536		11	0.26	10.7	3.92	0.75	<0.05	<0.02	<0.01	0.021	0.07	1.1	1.7	2.16	1010	0.25
K291537		25	0.05	84.8	1.80	3.06	0.10	0.30	0.05	0.006	<0.01	0.9	5.7	0.73	701	0.39
K294501		6	0.09	280	3.40	2.15	0.06	0.14	0.02	0.015	0.06	1.4	0.9	0.12	466	0.46
K294502		3	<0.05	2.6	0.41	0.08	<0.05	<0.02	<0.01	<0.005	<0.01	2.5	0.8	9.80	414	0.09
K294503		9	0.06	18.2	2.78	0.63	<0.05	<0.02	<0.01	0.023	0.09	3.0	1.0	0.85	892	0.90
K294504		11	0.06	10.5	3.51	0.46	<0.05	<0.02	<0.01	0.017	0.07	5.0	0.9	1.03	1040	1.86
K294505		29	<0.05	19.0	2.39	2.66	<0.05	<0.02	<0.01	0.013	0.05	1.3	8.9	0.89	678	0.84
K294506		71	0.19	88.9	2.58	2.90	<0.05	0.24	<0.01	0.008	0.17	1.0	6.8	0.96	218	3.63
K294507		9	<0.05	17.9	1.61	0.15	<0.05	<0.02	0.85	<0.005	<0.01	4.4	0.6	6.51	622	1.37
K294508		25	0.21	29.4	2.81	3.13	<0.05	0.10	0.02	0.011	0.13	2.4	10.9	1.14	732	7.55
K294509		33	0.15	168.0	3.14	2.85	<0.05	0.05	0.01	0.020	0.17	1.7	6.0	0.85	781	1.31
K294510		26	0.21	261	5.16	3.27	<0.05	0.05	0.03	0.009	0.13	1.5	6.6	0.81	439	33.3
K294511		17	0.10	49.7	2.17	3.51	<0.05	0.04	0.01	0.009	0.12	3.8	6.3	0.73	434	1.61
K294512		11	0.10	102.5	2.17	2.46	<0.05	0.10	0.20	0.082	0.07	3.9	6.4	0.37	441	6.89



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		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
W793356		0.03	<0.05	8.3	890	3.1	7.5	0.001	1.02	0.30	4.6	0.7	<0.2	300	<0.01	0.13
W793358		0.01	<0.05	2.3	10	<0.2	0.3	<0.001	<0.01	0.27	0.1	<0.2	<0.2	2.2	<0.01	0.16
W793359		0.02	<0.05	1.9	50	4.7	0.7	<0.001	0.08	2.20	0.4	0.5	<0.2	11.2	<0.01	1.11
W793360		0.03	<0.05	7.2	20	4.8	<0.1	<0.001	0.07	0.16	1.1	0.4	<0.2	13.8	<0.01	0.13
W793361		0.01	<0.05	27.4	110	21.8	0.1	0.008	4.19	0.83	0.6	1.5	<0.2	375	<0.01	0.33
W793362		0.01	<0.05	25.9	500	7.2	3.3	<0.001	0.73	0.30	2.2	1.0	<0.2	249	<0.01	0.21
W793363		0.04	<0.05	4.9	300	19.5	3.5	0.004	0.93	0.18	5.2	2.6	<0.2	50.5	<0.01	1.26
W793364		0.03	0.31	4.2	650	13.7	6.9	0.001	0.20	0.09	0.7	0.9	<0.2	56.4	<0.01	0.52
W793365		0.02	0.18	20.2	710	17.9	5.3	0.013	0.09	0.29	2.7	0.5	<0.2	51.2	<0.01	0.93
W793366		0.02	0.19	24.3	580	11.1	3.6	0.002	0.05	0.09	2.0	0.6	0.2	50.9	0.01	0.26
W793367		0.02	<0.05	20.1	310	21.7	2.5	0.002	1.43	1.42	2.4	2.1	<0.2	313	<0.01	0.80
W793368		0.02	0.60	0.6	900	298	2.6	0.001	>10.0	8.80	1.6	25.0	2.4	14.0	0.01	0.57
W793369		0.05	0.61	5.9	580	47.1	3.0	<0.001	0.73	0.65	5.6	3.2	0.6	19.6	<0.01	0.11
W793370		0.03	0.29	16.1	440	11.0	4.5	0.001	0.06	0.18	6.2	0.5	0.5	7.4	<0.01	0.03
W793371		0.03	<0.05	9.8	40	0.5	0.9	<0.001	0.10	0.55	4.9	1.0	<0.2	44.2	<0.01	<0.01
K291525		0.02	<0.05	1.8	40	1.8	0.2	<0.001	0.12	0.07	0.4	<0.2	<0.2	3.1	<0.01	0.19
K291526		0.01	<0.05	1.9	110	0.6	0.1	<0.001	0.10	2.28	0.2	<0.2	<0.2	51.7	<0.01	0.01
K291527		0.01	<0.05	10.3	20	3.8	0.3	0.001	0.82	0.25	1.0	1.9	<0.2	34.9	<0.01	0.11
K291528		0.03	<0.05	4.3	160	983	0.2	0.001	0.14	0.27	1.7	2.7	<0.2	81.2	<0.01	3.10
K291529		0.01	<0.05	9.4	220	4.8	0.2	0.001	0.02	3.10	0.6	1.0	<0.2	7.5	<0.01	0.21
K291530		0.02	<0.05	2.3	180	10.4	0.3	<0.001	0.09	0.11	2.2	0.4	<0.2	298	<0.01	0.01
K291531		0.03	<0.05	33.2	110	1.1	1.4	<0.001	0.10	0.34	11.8	0.6	<0.2	245	<0.01	0.02
K291532		0.01	<0.05	25.4	210	1.7	1.8	0.001	0.37	0.30	7.0	1.1	<0.2	143.0	<0.01	0.02
K291533		0.01	<0.05	5.4	60	0.5	0.7	<0.001	0.20	0.20	1.5	0.5	<0.2	28.7	<0.01	<0.01
K291534		0.02	<0.05	10.7	280	0.5	1.0	<0.001	0.07	0.42	4.3	0.7	<0.2	36.6	<0.01	<0.01
K291535		0.03	<0.05	21.5	1100	1.6	1.6	0.004	0.19	0.40	10.0	0.9	<0.2	134.0	<0.01	<0.01
K291536		0.02	<0.05	17.7	360	0.2	1.6	<0.001	0.03	0.20	8.7	0.5	<0.2	102.5	<0.01	<0.01
K291537		0.01	0.39	18.0	220	<0.2	0.1	<0.001	<0.01	0.52	3.9	0.4	<0.2	19.3	<0.01	<0.01
K294501		0.03	0.66	26.2	560	1.6	2.3	0.001	3.07	1.22	4.5	2.4	0.2	66.0	0.01	0.33
K294502		0.01	<0.05	3.0	210	3.0	0.1	<0.001	0.01	0.13	0.5	0.3	<0.2	114.5	<0.01	<0.01
K294503		0.04	<0.05	8.0	310	16.7	2.5	<0.001	0.46	0.14	3.7	0.6	<0.2	240	<0.01	0.26
K294504		0.03	<0.05	8.6	620	20.4	1.9	0.001	0.31	0.14	2.5	0.4	<0.2	149.0	<0.01	0.17
K294505		0.02	<0.05	14.1	210	4.5	1.4	0.002	0.12	0.07	4.5	0.5	<0.2	335	<0.01	0.02
K294506		0.01	0.31	53.0	660	4.1	6.5	0.002	0.98	1.46	4.2	3.5	0.2	36.8	<0.01	0.12
K294507		0.01	<0.05	21.9	150	11.8	0.1	<0.001	0.20	8.59	1.7	1.2	<0.2	37.1	<0.01	1.39
K294508		0.01	0.17	31.8	420	11.2	3.8	0.012	0.13	0.66	2.5	1.1	0.3	73.6	<0.01	2.69
K294509		0.01	0.25	33.4	360	12.5	4.5	0.003	0.32	0.17	2.7	2.2	0.2	126.5	0.01	0.23
K294510		0.02	0.32	22.9	390	19.2	4.1	0.005	2.21	0.33	2.5	8.6	<0.2	36.1	<0.01	49.5
K294511		0.02	0.58	11.6	270	5.0	3.6	0.001	0.12	0.15	1.6	0.4	0.2	33.1	0.01	0.27
K294512		0.05	0.39	7.9	230	26.4	1.7	<0.001	0.38	0.57	2.3	3.5	0.5	45.9	<0.01	0.16



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Th	Ti	Ti	U	V	W	Y	Zn	Zr
	Units LOD	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
W793356		0.4	0.018	0.06	0.09	31	0.14	8.15	37	<0.5
W793358		<0.2	<0.005	<0.02	<0.05	2	<0.05	0.11	<2	<0.5
W793359		0.2	<0.005	<0.02	<0.05	2	<0.05	0.37	18	<0.5
W793360		0.2	<0.005	<0.02	<0.05	1	<0.05	0.57	21	<0.5
W793361		<0.2	<0.005	0.05	0.07	8	0.05	4.78	79	<0.5
W793362		0.7	<0.005	0.02	0.05	23	<0.05	9.12	86	0.5
W793363		1.3	<0.005	0.02	0.11	21	0.05	3.98	39	0.9
W793364		0.3	0.058	0.05	0.15	11	0.12	3.21	30	0.5
W793365		0.6	0.164	0.05	0.29	27	0.16	3.68	51	0.7
W793366		1.5	0.082	0.02	0.06	27	0.09	4.77	97	0.7
W793367		0.5	<0.005	0.02	0.06	19	<0.05	10.35	113	<0.5
W793368		4.1	0.042	0.07	0.42	3	0.19	16.50	82	2.6
W793369		0.8	0.213	0.02	0.20	27	0.34	8.77	1710	5.2
W793370		1.0	0.207	0.03	0.23	75	0.27	6.56	77	2.4
W793371		<0.2	<0.005	<0.02	<0.05	11	0.10	2.25	16	<0.5
K291525		<0.2	<0.005	<0.02	<0.05	2	0.05	0.29	4	<0.5
K291526		<0.2	<0.005	<0.02	0.07	4	0.09	3.02	13	<0.5
K291527		<0.2	0.007	0.02	<0.05	5	<0.05	0.80	5	<0.5
K291528		<0.2	<0.005	<0.02	<0.05	3	0.06	1.86	250	<0.5
K291529		0.2	<0.005	0.02	0.57	2	<0.05	1.30	34	<0.5
K291530		<0.2	<0.005	<0.02	<0.05	5	<0.05	7.65	13	<0.5
K291531		<0.2	<0.005	<0.02	<0.05	44	<0.05	10.40	32	<0.5
K291532		<0.2	<0.005	<0.02	<0.05	15	0.09	5.87	28	<0.5
K291533		<0.2	<0.005	<0.02	<0.05	3	0.08	1.48	6	<0.5
K291534		<0.2	<0.005	<0.02	<0.05	9	0.06	2.31	28	<0.5
K291535		<0.2	<0.005	<0.02	<0.05	20	0.16	6.26	34	<0.5
K291536		<0.2	<0.005	<0.02	<0.05	22	<0.05	5.95	35	<0.5
K291537		<0.2	0.274	<0.02	0.07	50	<0.05	3.24	20	8.1
K294501		0.2	0.152	0.02	0.12	53	0.32	6.56	10	3.5
K294502		<0.2	<0.005	<0.02	0.23	3	0.18	6.17	18	<0.5
K294503		0.8	<0.005	<0.02	0.05	7	<0.05	6.01	36	<0.5
K294504		1.7	<0.005	<0.02	0.10	6	0.06	4.62	54	<0.5
K294505		<0.2	<0.005	<0.02	0.10	39	<0.05	3.24	28	<0.5
K294506		0.3	0.298	0.09	0.23	57	0.21	5.27	23	5.4
K294507		<0.2	<0.005	0.04	0.18	5	<0.05	9.14	15	<0.5
K294508		0.9	0.083	0.05	0.36	34	0.21	4.04	74	1.9
K294509		0.6	0.129	0.04	0.11	27	0.18	6.29	74	1.3
K294510		0.8	0.105	0.04	0.22	34	0.28	3.21	36	1.0
K294511		1.8	0.125	0.03	0.35	29	0.20	3.36	69	0.6
K294512		2.0	0.063	<0.02	0.23	16	0.11	7.76	353	1.7



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**CERTIFICATE OF ANALYSIS WH19208827**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-GRA21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.05	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.1	
K294513		0.94	0.358		0.21	0.92	62.7	0.40	<10	50	0.18	0.02	6.49	0.20	5.52	28.5
K294514		0.92	5.45		0.46	0.35	130.5	3.65	<10	40	0.06	0.01	4.98	0.42	3.43	11.5
K294515		1.49	0.097		0.27	0.21	65.2	0.05	<10	20	0.10	0.01	4.58	0.15	2.08	9.9
K294516		1.34	0.043		1.63	1.53	16.0	0.03	10	10	0.27	0.02	6.65	1.49	3.91	37.0
K294517		0.96	0.215		1.52	0.38	55.2	0.37	<10	40	0.10	0.17	4.82	0.23	4.54	14.3
K294518		0.25	0.047		0.91	0.70	45.3	0.05	10	50	0.09	<0.01	2.79	0.15	1.12	9.1



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**CERTIFICATE OF ANALYSIS WH19208827**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05
K294513		16	0.72	77.8	6.55	2.68	<0.05	0.02	0.02	0.046	0.23	2.0	7.6	2.80	1140	0.41
K294514		18	0.28	100.0	3.43	1.06	<0.05	<0.02	0.03	0.024	0.12	1.3	4.2	1.31	621	0.36
K294515		17	0.30	34.0	3.29	0.64	<0.05	<0.02	0.01	0.023	0.11	0.7	1.3	1.43	656	0.40
K294516		32	0.14	9810	3.52	7.92	0.19	0.66	0.03	0.007	0.03	1.4	13.2	0.71	304	1.11
K294517		12	0.36	93.8	4.28	1.16	<0.05	<0.02	0.03	0.031	0.13	1.7	3.8	1.27	721	0.40
K294518		9	0.57	105.0	7.44	2.77	<0.05	0.02	0.10	0.006	0.26	0.5	8.3	0.35	249	8.64



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
K294513		0.02	<0.05	36.7	370	2.4	6.2	<0.001	1.13	1.54	17.7	1.7	<0.2	272	<0.01	0.02
K294514		0.02	<0.05	19.3	70	0.5	2.2	<0.001	0.03	4.52	8.2	0.6	<0.2	137.0	<0.01	0.01
K294515		0.02	<0.05	20.2	50	1.0	2.1	<0.001	0.12	2.57	6.6	0.4	<0.2	154.5	<0.01	<0.01
K294516		0.01	1.08	46.1	480	0.2	0.9	0.001	0.58	0.73	4.8	11.3	0.2	43.7	0.01	0.02
K294517		0.02	<0.05	17.4	310	10.7	2.3	<0.001	0.10	3.88	11.0	0.5	<0.2	73.2	<0.01	0.26
K294518		0.01	0.11	14.5	120	9.2	4.0	0.003	1.86	2.35	1.8	1.0	<0.2	24.0	<0.01	<0.01

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



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**CERTIFICATE OF ANALYSIS WH19208827**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
K294513		0.2	0.006	0.03	<0.05	50	0.82	11.65	66	<0.5
K294514		<0.2	<0.005	<0.02	<0.05	20	0.09	6.59	32	<0.5
K294515		<0.2	<0.005	<0.02	<0.05	16	0.24	4.16	30	<0.5
K294516		<0.2	0.514	0.03	0.31	96	0.10	5.63	55	21.1
K294517		<0.2	<0.005	<0.02	<0.05	24	0.09	7.30	33	<0.5
K294518		<0.2	0.020	0.11	<0.05	19	0.05	1.62	14	0.5



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**CERTIFICATE OF ANALYSIS WH19208827**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
BAG-01 CRU-32 CRU-QC LOG-21  
PUL-32 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-GRA21 Au-ICP21 ME-MS41



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**CERTIFICATE VA19260683**

Project: Vault-Kelli

This report is for 14 Soil samples submitted to our lab in Vancouver, BC, Canada on 16-OCT-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
--------------------------------	------------------------------	--------------

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:**   
 Saa Traxler, General Manager, North Vancouver



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<b>CERTIFICATE OF ANALYSIS VA19260683</b>
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 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 %
19-K-1		0.10	0.137	0.3	1.84	12	<10	70	<0.5	<2	0.99	<0.5	24	44	100	4.19
19-K-2		0.30	0.232	0.3	1.61	10	<10	80	<0.5	<2	1.06	<0.5	25	32	103	4.10
19-K-3		0.38	0.389	0.2	1.77	9	<10	80	<0.5	<2	1.15	<0.5	25	29	95	4.50
19-K-4		0.16	0.011	<0.2	1.48	9	<10	110	<0.5	<2	0.75	<0.5	18	36	45	3.03
19-K-5		0.52	0.158	0.3	1.72	9	<10	50	<0.5	<2	1.74	<0.5	27	30	97	5.01
19-K-6		0.32	0.099	0.4	2.09	6	<10	60	<0.5	<2	1.99	<0.5	37	40	143	5.62
19-K-7		0.26	0.156	0.2	1.74	13	<10	100	<0.5	<2	1.01	<0.5	25	38	67	4.06
19-K-8		0.40	0.097	0.3	1.83	17	<10	150	<0.5	<2	0.93	<0.5	32	36	87	5.13
19-K-9		0.34	0.295	0.3	1.61	19	<10	90	<0.5	<2	1.21	<0.5	32	36	107	5.01
19-K-10		0.30	0.248	0.3	1.62	14	<10	80	<0.5	<2	1.27	<0.5	32	28	116	5.23
19-K-11		0.18	0.022	0.2	1.57	10	<10	100	<0.5	<2	0.45	<0.5	17	36	59	2.95
19-K-12		0.16	0.099	0.2	1.25	10	<10	80	<0.5	<2	0.73	<0.5	16	30	34	2.86
19-K-13		0.28	0.029	0.2	1.50	7	<10	70	<0.5	<2	0.45	<0.5	25	22	59	4.05
19-K-14		0.32	0.146	0.4	1.50	14	<10	60	<0.5	<2	0.60	<0.5	29	27	71	6.10



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**CERTIFICATE OF ANALYSIS VA19260683**

Sample Description	Method Analyte Units LOD	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
19-K-1		<10	<1	0.11	10	1.55	833	2	0.02	34	1020	11	0.07	<2	6	57
19-K-2		<10	<1	0.07	10	1.15	896	1	0.02	31	920	7	0.10	<2	6	46
19-K-3		<10	<1	0.08	10	1.40	1050	<1	0.01	33	930	7	0.12	<2	7	44
19-K-4		<10	<1	0.06	10	0.94	627	1	0.02	29	750	7	0.05	<2	4	37
19-K-5		<10	<1	0.07	10	1.65	1035	1	0.02	31	1030	8	0.29	<2	8	60
19-K-6		10	<1	0.08	10	1.79	1040	1	0.02	37	1350	7	0.12	<2	9	47
19-K-7		10	<1	0.05	10	1.12	988	1	0.02	36	790	13	0.06	<2	7	45
19-K-8		<10	<1	0.08	10	1.23	1340	1	0.02	39	900	8	0.14	<2	11	39
19-K-9		<10	<1	0.07	10	1.36	1045	1	0.02	36	900	4	0.13	<2	11	47
19-K-10		<10	<1	0.07	10	1.30	1040	1	0.02	33	1060	13	0.38	<2	10	46
19-K-11		<10	<1	0.05	10	0.85	546	1	0.02	28	780	6	0.06	<2	4	24
19-K-12		<10	<1	0.04	10	0.76	785	1	0.02	25	760	5	0.06	<2	3	31
19-K-13		<10	<1	0.06	10	0.98	693	1	0.01	22	930	4	0.09	2	5	23
19-K-14		<10	<1	0.05	20	1.02	1010	3	0.02	29	1280	10	0.28	<2	6	30



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

Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 16-NOV-2019  
 Account: MTT

Project: Vault-Kelli

**CERTIFICATE OF ANALYSIS VA19260683**

Sample Description	Method Analyte Units LOD	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
19-K-1		<20	0.06	<10	<10	71	<10	120
19-K-2		<20	0.05	<10	<10	61	<10	71
19-K-3		<20	0.04	<10	<10	67	<10	73
19-K-4		<20	0.06	<10	<10	62	<10	75
19-K-5		<20	0.02	<10	<10	65	<10	83
19-K-6		<20	0.02	<10	<10	68	<10	86
19-K-7		<20	0.04	<10	<10	66	<10	98
19-K-8		<20	0.03	<10	<10	73	<10	94
19-K-9		<20	0.03	<10	<10	72	<10	76
19-K-10		<20	0.02	<10	<10	64	<10	93
19-K-11		<20	0.05	<10	<10	52	<10	75
19-K-12		<20	0.05	<10	<10	52	<10	68
19-K-13		<20	0.03	<10	<10	43	<10	68
19-K-14		<20	0.03	<10	<10	44	<10	78



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 16-NOV-2019  
Account: MTT

Project: Vault-Kelli

**CERTIFICATE OF ANALYSIS VA19260683**

**CERTIFICATE COMMENTS**

LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	LOG-22	ME-ICP41
	WEI-21		SCR-41



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 North Vancouver BC V7H 0A7  
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 Finalized Date: 18-NOV-2019  
 Account: MTT

**CERTIFICATE VA19260693**

Project: Vault-Kelli

This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 16-OCT-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	ANDREW CARNE SCOTT NEWMAN	STEVE ISREAL
--------------------------------	------------------------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:**   
 Saa Traxler, General Manager, North Vancouver



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 Finalized Date: 18-NOV-2019  
 Account: MTT

Project: Vault-Kelli

<b>CERTIFICATE OF ANALYSIS VA19260693</b>
---

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 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	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
001909		2.28	0.010	<0.2	0.24	13	<10	200	<0.5	<2	1.73	<0.5	6	14	17	2.10
001910		0.88	0.002	<0.2	1.80	4	<10	110	<0.5	<2	1.23	<0.5	29	26	167	4.01
001911		1.34	0.002	<0.2	2.84	3	<10	100	<0.5	<2	2.18	<0.5	35	17	142	6.68
001912		1.58	0.008	0.3	0.28	12	<10	40	<0.5	<2	1.55	<0.5	9	9	24	3.13



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 Account: MTT

Project: Vault-Kelli

**CERTIFICATE OF ANALYSIS VA19260693**

Sample Description	Method Analyte Units LOD	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
001909		<10	<1	0.10	<10	0.38	267	1	0.03	21	380	9	0.86	4	3	49
001910		10	<1	0.94	<10	1.55	621	5	0.07	22	2220	2	1.03	<2	6	36
001911		10	1	0.59	<10	2.31	1320	7	0.04	26	1600	2	0.50	<2	6	65
001912		<10	<1	0.12	10	0.56	200	1	0.03	38	140	16	2.05	2	3	66

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



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**CERTIFICATE OF ANALYSIS VA19260693**

Sample Description	Method Analyte Units LOD	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
001909		<20	<0.01	<10	<10	28	<10	44
001910		<20	0.36	<10	<10	140	<10	67
001911		<20	0.35	<10	<10	186	<10	80
001912		<20	<0.01	<10	<10	17	<10	60



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Total # Appendix Pages: 1  
Finalized Date: 18-NOV-2019  
Account: MTT

Project: Vault-Kelli

**CERTIFICATE OF ANALYSIS VA19260693**

**CERTIFICATE COMMENTS**

Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-ICP21</td><td>CRU-31</td><td>LOG-21</td><td>ME-ICP41</td></tr><tr><td>PUL-31</td><td>PUL-QC</td><td>SPL-21</td><td>WEI-21</td></tr></table>	Au-ICP21	CRU-31	LOG-21	ME-ICP41	PUL-31	PUL-QC	SPL-21	WEI-21
Au-ICP21	CRU-31	LOG-21	ME-ICP41						
PUL-31	PUL-QC	SPL-21	WEI-21						

**STRATEGIC METALS LTD.**

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

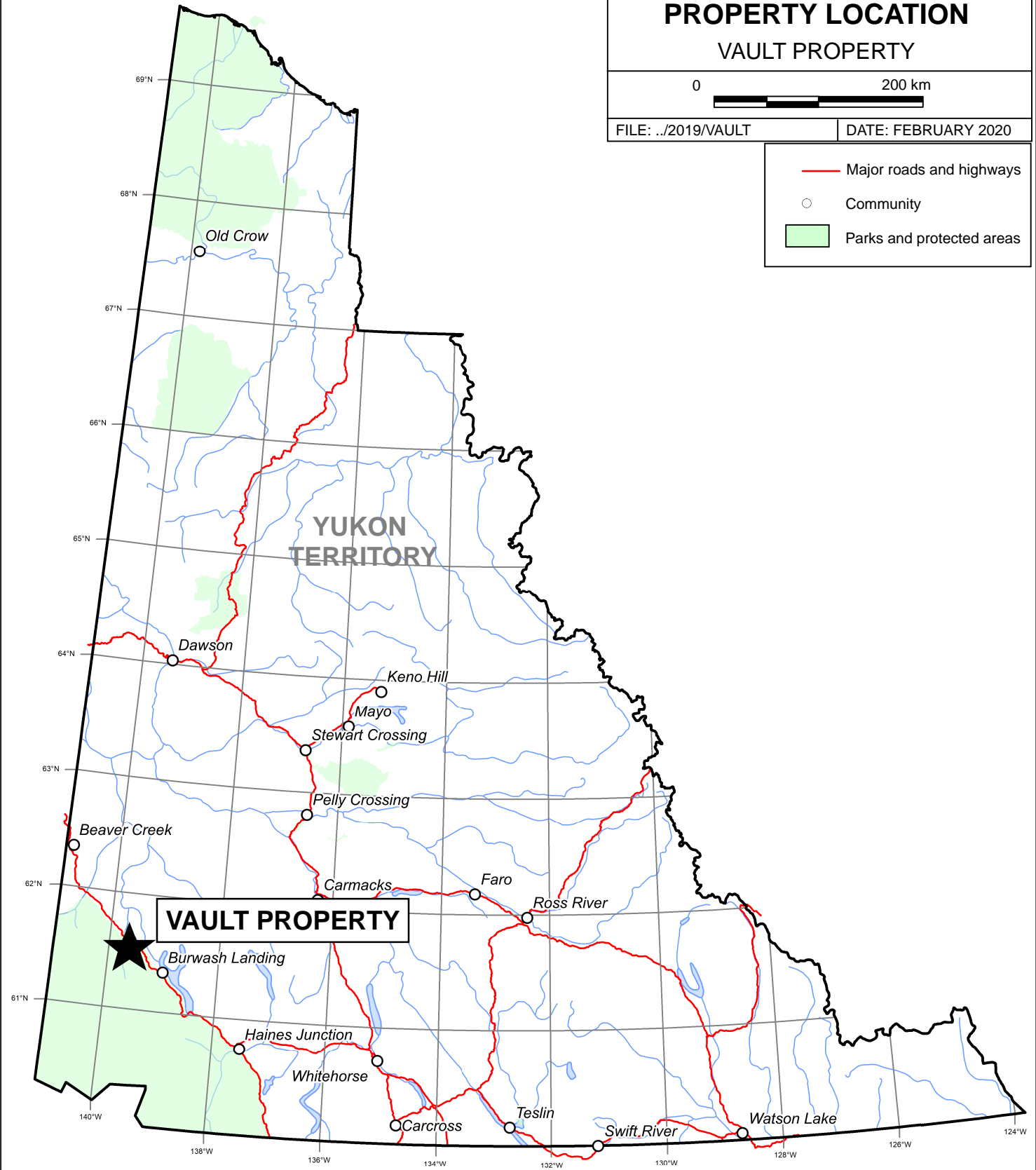
0 200 km

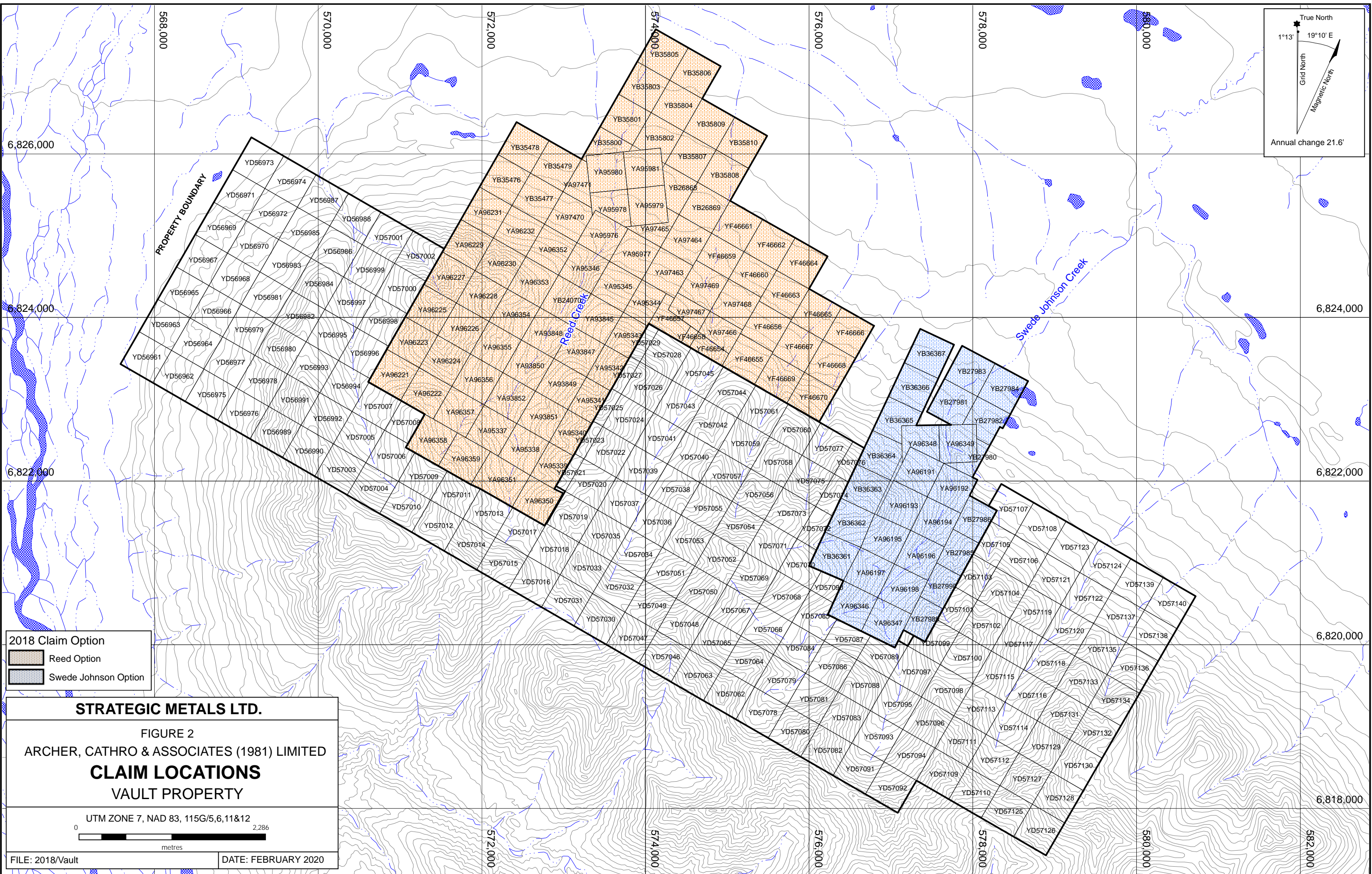


FILE: ../2019/VAULT

DATE: FEBRUARY 2020

- Major roads and highways
- Community
- Parks and protected areas





True North  
 1°13' 19°10' E  
 Grid North  
 Magnetic North  
 Annual change 21.6'

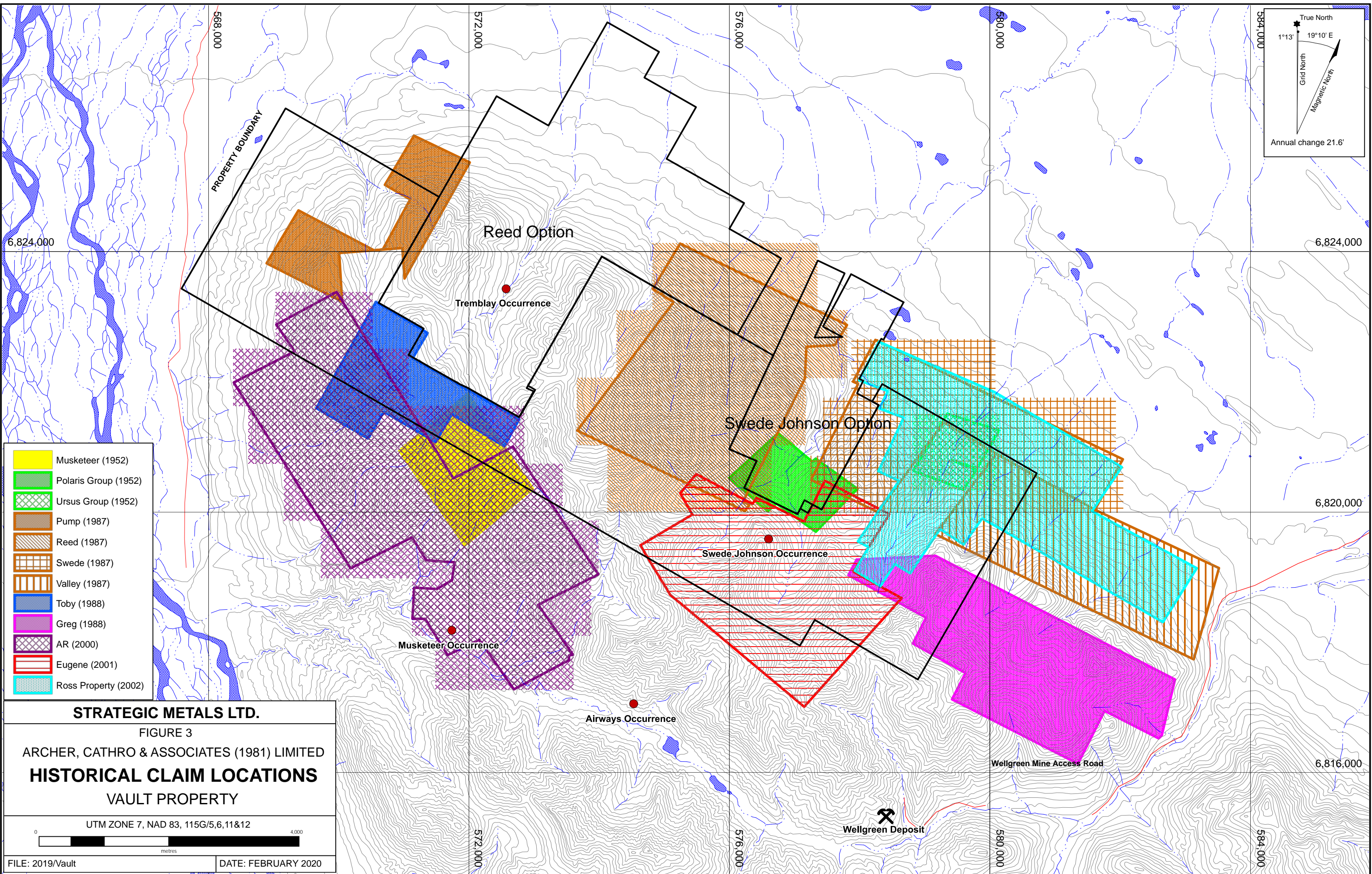
2018 Claim Option  
 Reed Option  
 Swede Johnson Option

**STRATEGIC METALS LTD.**

FIGURE 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12  
 0 2,286  
 metres

FILE: 2018/Vault DATE: FEBRUARY 2020



- Musketeer (1952)
- Polaris Group (1952)
- Ursus Group (1952)
- Pump (1987)
- Reed (1987)
- Swede (1987)
- Valley (1987)
- Toby (1988)
- Greg (1988)
- AR (2000)
- Eugene (2001)
- Ross Property (2002)

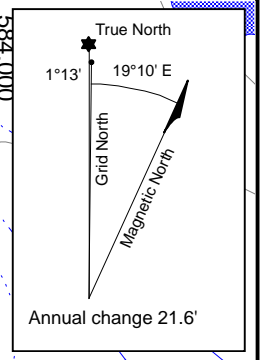
**STRATEGIC METALS LTD.**

FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**HISTORICAL CLAIM LOCATIONS**  
VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0  4,000  
metres

FILE: 2019/Vault      DATE: FEBRUARY 2020



# STRATEGIC METALS LTD.

FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

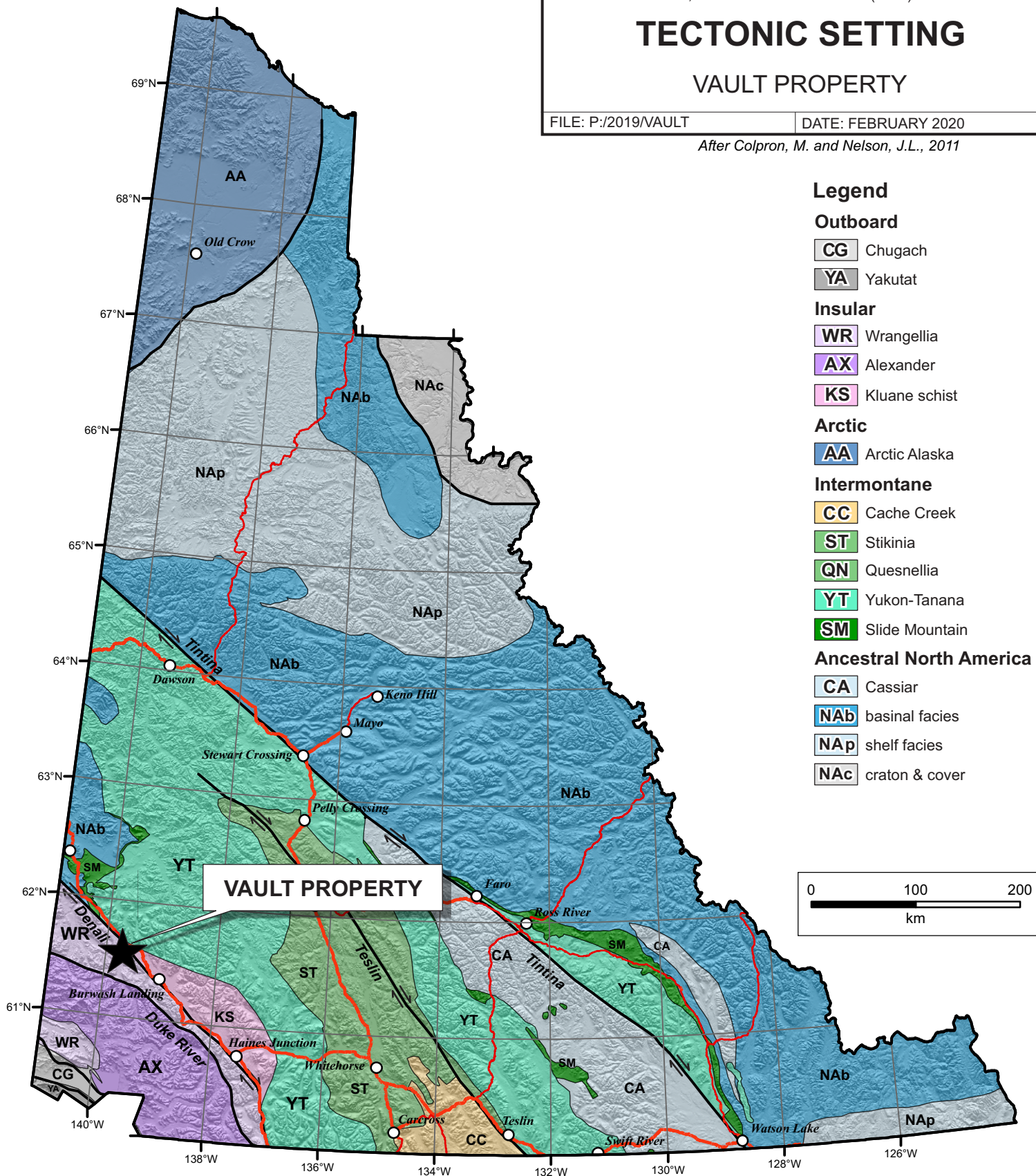
## TECTONIC SETTING

### VAULT PROPERTY

FILE: P:/2019/VAULT

DATE: FEBRUARY 2020

After Colpron, M. and Nelson, J.L., 2011



#### Legend

##### Outboard

**CG** Chugach

**YA** Yakutat

##### Insular

**WR** Wrangellia

**AX** Alexander

**KS** Kluane schist

##### Arctic

**AA** Arctic Alaska

##### Intermontane

**CC** Cache Creek

**ST** Stikinia

**QN** Quesnellia

**YT** Yukon-Tanana

**SM** Slide Mountain

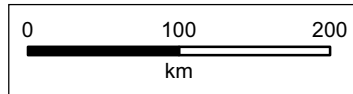
##### Ancestral North America

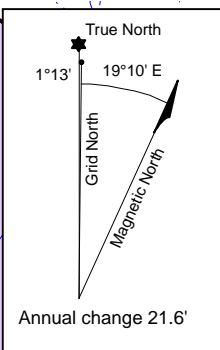
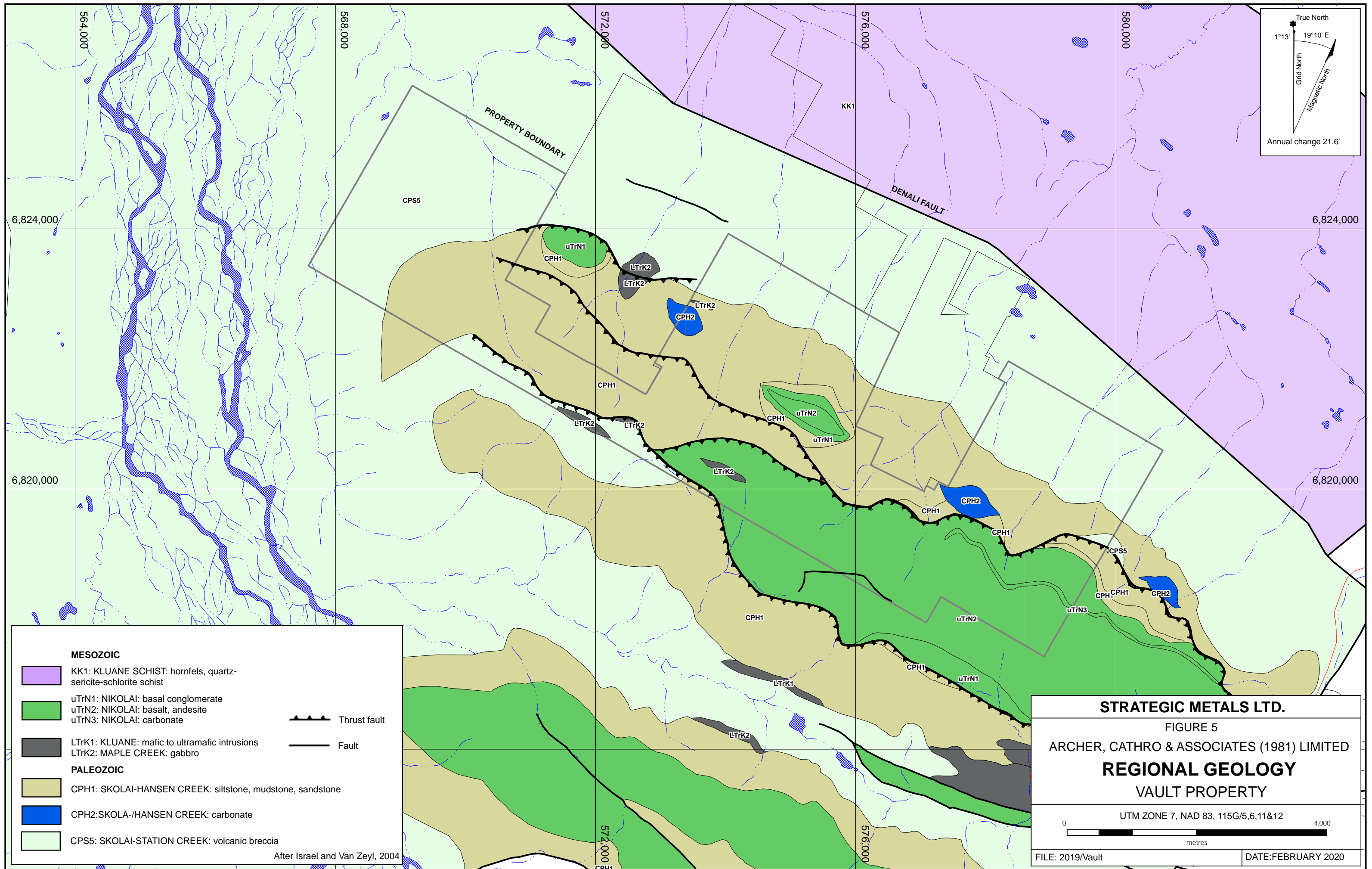
**CA** Cassiar

**NAb** basinal facies

**NAp** shelf facies

**NAc** craton & cover





**MESOZOIC**

- KK1: KLUANE SCHIST: hornfels, quartz-sericite-schlorite schist
- uTrN1: NIKOLAI: basal conglomerate
- uTrN2: NIKOLAI: basalt, andesite
- uTrN3: NIKOLAI: carbonate
- LTrK1: KLUANE: mafic to ultramafic intrusions
- LTrK2: MAPLE CREEK: gabbro

**PALEOZOIC**

- CPH1: SKOLAI-HANSEN CREEK: siltstone, mudstone, sandstone
- CPH2: SKOLA-/HANSEN CREEK: carbonate
- CPS5: SKOLAI-STATION CREEK: volcanic breccia

Thrust fault  
 Fault

After Israel and Van Zeyl, 2004

**STRATEGIC METALS LTD.**

FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

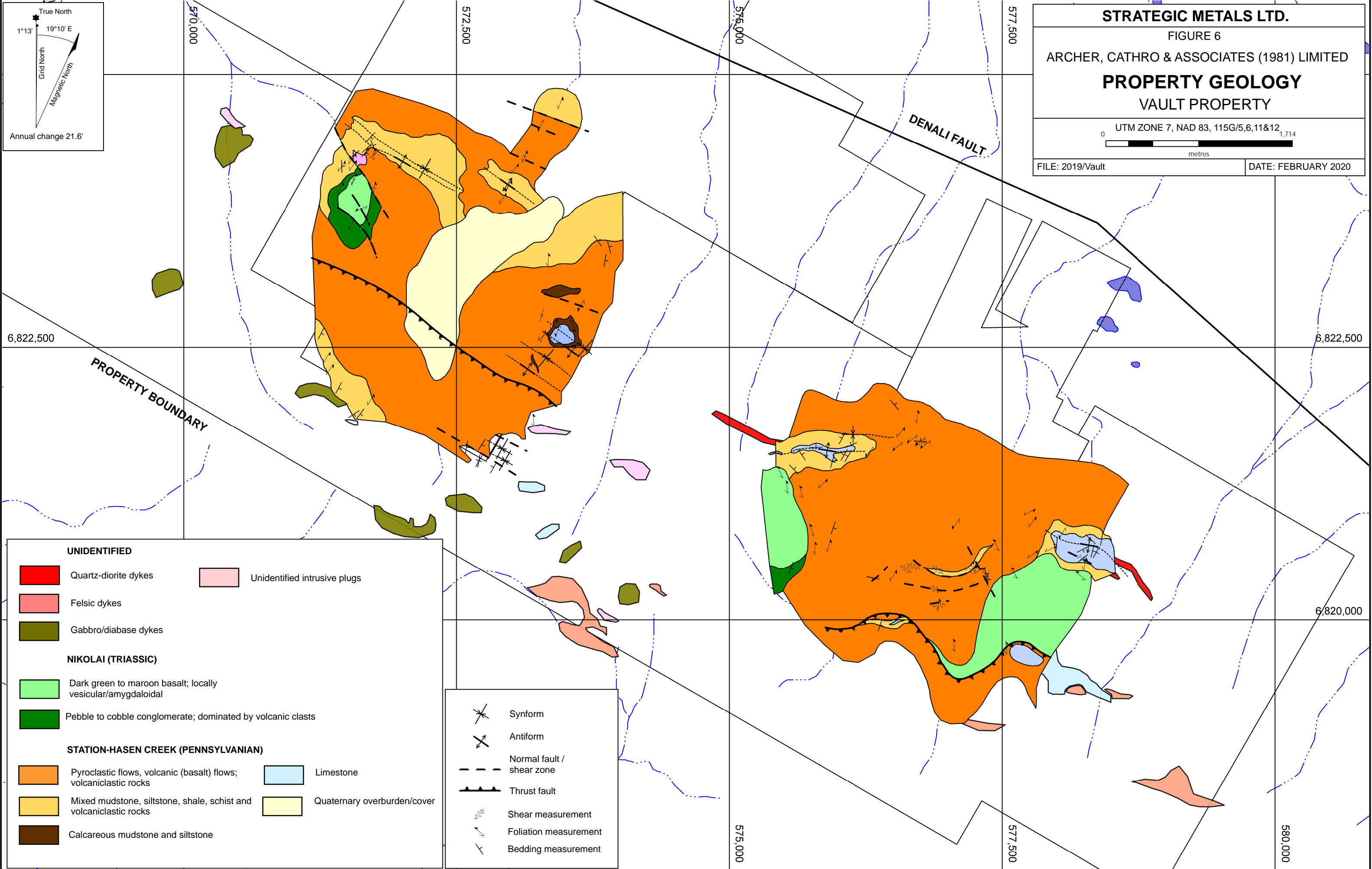
VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0  4,000

metres

FILE: 2019/Vault DATE: FEBRUARY 2020



**STRATEGIC METALS LTD.**

FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY GEOLOGY**

**VAULT PROPERTY**

UTM ZONE 7, NAD 83, 115G/5,6,11&12  
0 1,714 metres

FILE: 2019/Vault DATE: FEBRUARY 2020

True North  
1°13' 19°10' E  
Grid North  
Magnetic North  
Annual change 21.6'

**UNIDENTIFIED**

Quartz-diorite dykes  
Felsic dykes  
Gabbro/diabase dykes  
Unidentified intrusive plugs

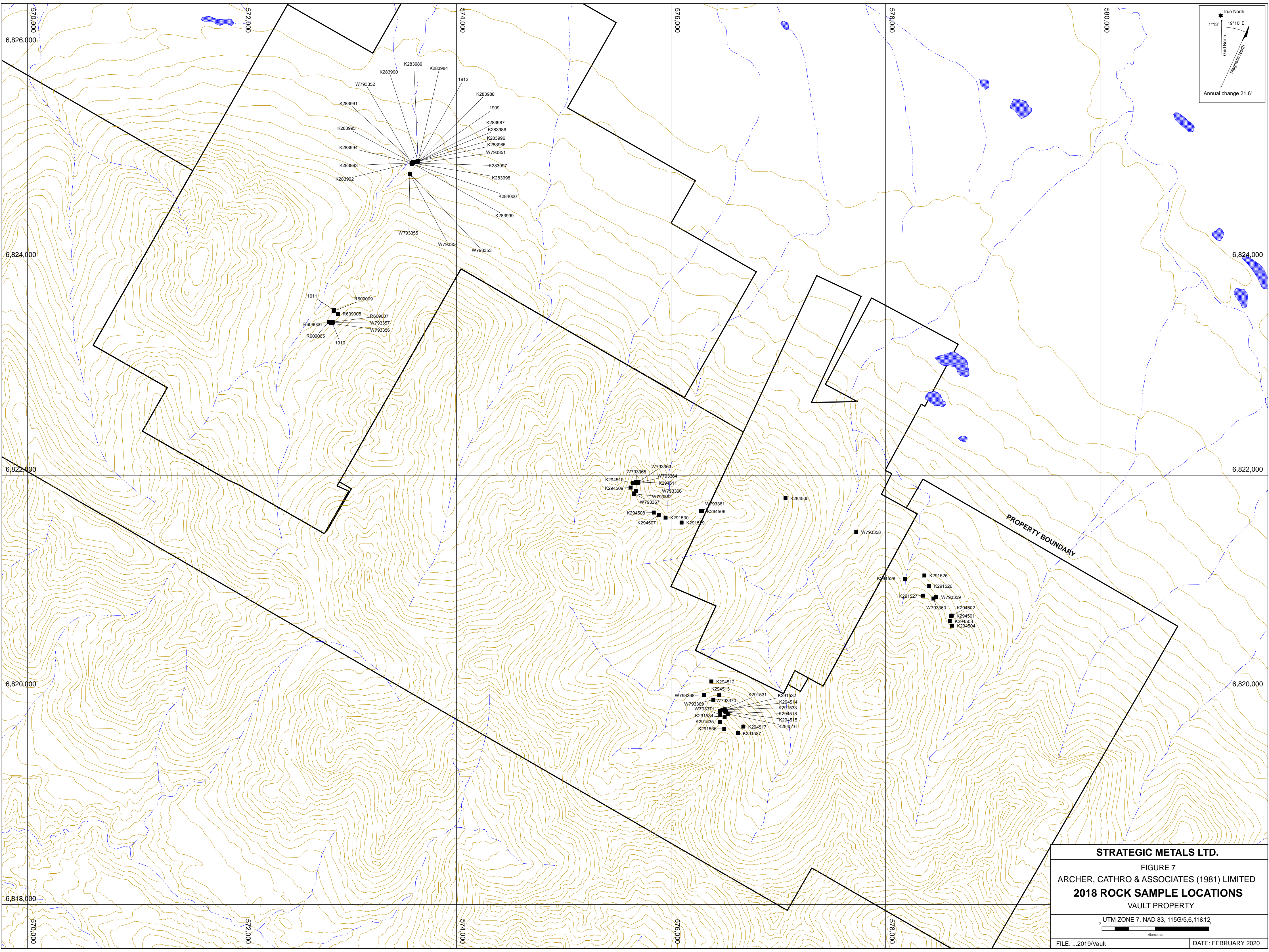
**NIKOLAI (TRIASSIC)**

Dark green to maroon basalt; locally vesicular/amygdaloidal  
Pebble to cobble conglomerate; dominated by volcanic clasts

**STATION-HASEN CREEK (PENNSYLVANIAN)**

Pyroclastic flows, volcanic (basalt) flows; volcaniclastic rocks  
Mixed mudstone, siltstone, shale, schist and volcaniclastic rocks  
Calcareous mudstone and siltstone  
Limestone  
Quaternary overburden/cover


Synform  
Antiform  
Normal fault / shear zone  
Thrust fault  
Shear measurement  
Foliation measurement  
Bedding measurement



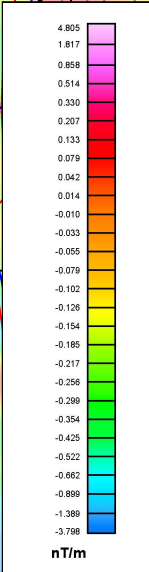
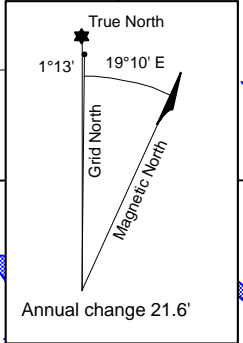
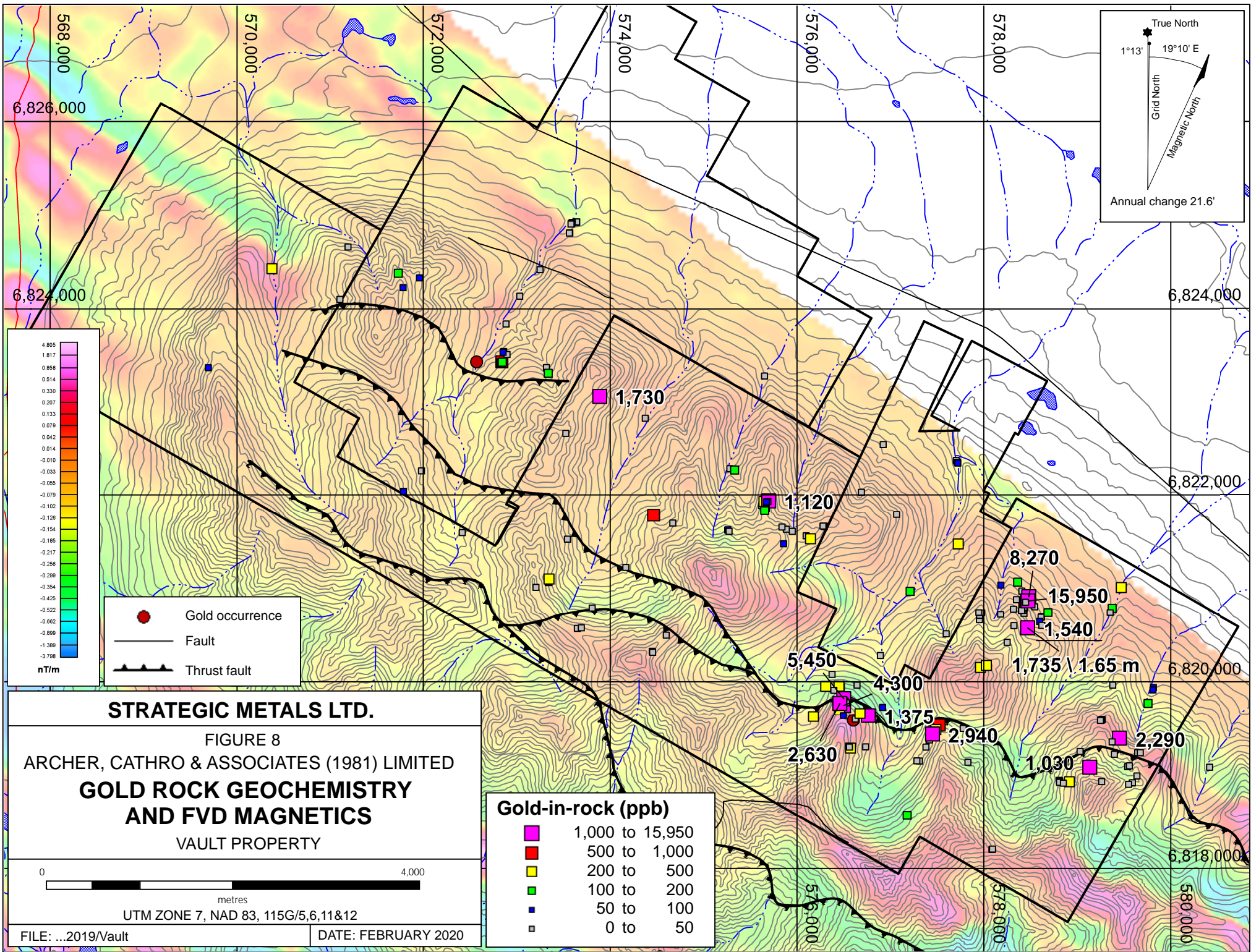
**STRATEGIC METALS LTD.**

FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**2018 ROCK SAMPLE LOCATIONS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

  
 Kilometers

FILE: ...2019/Vault DATE: FEBRUARY 2020

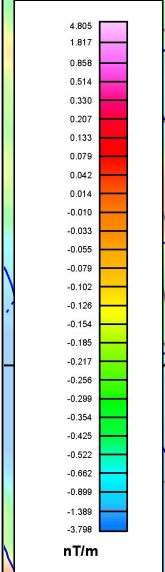
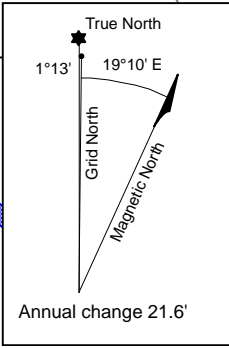
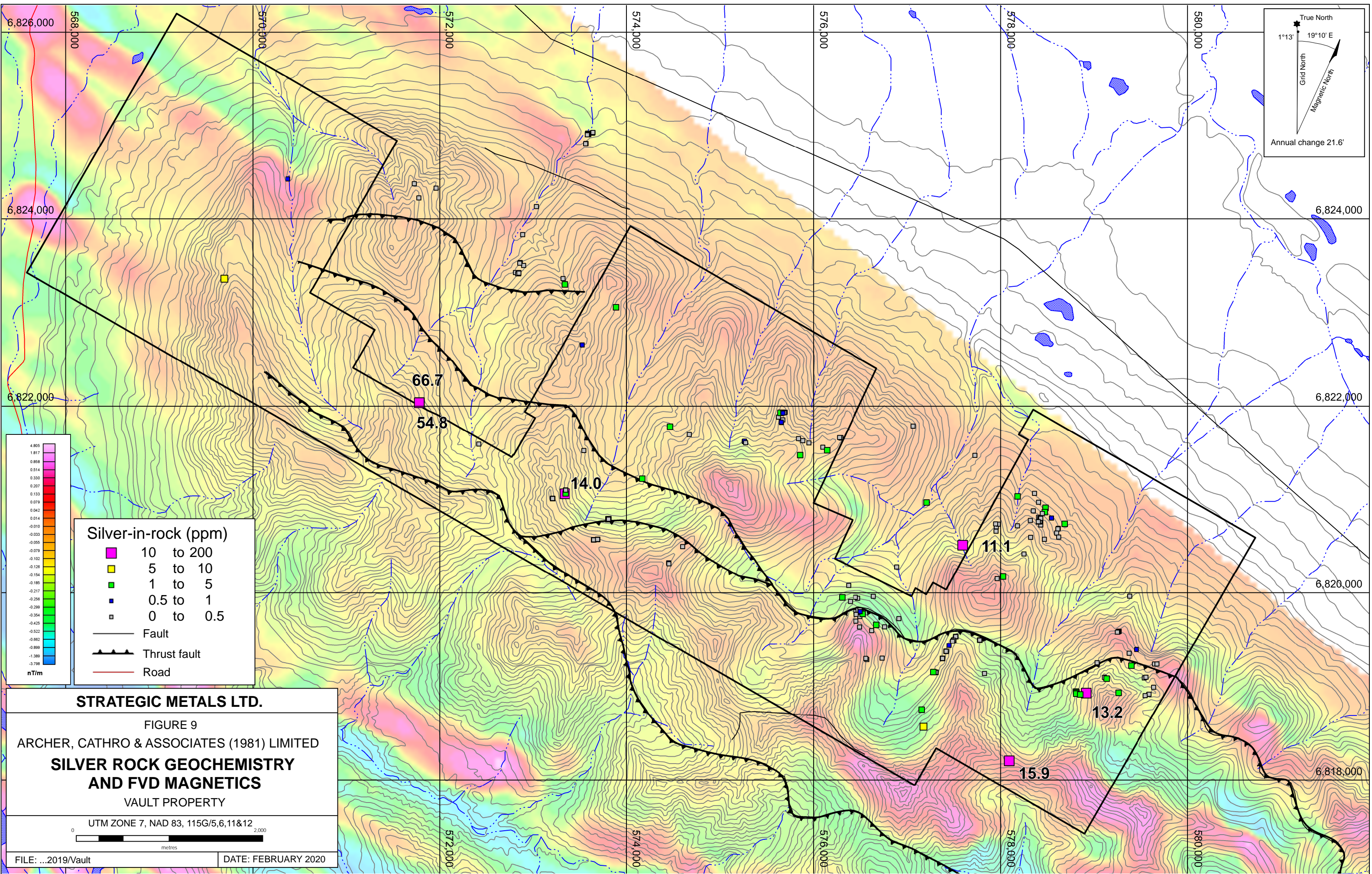


- Gold occurrence
- Fault
- Thrust fault

- Gold-in-rock (ppb)**
- 1,000 to 15,950
  - 500 to 1,000
  - 200 to 500
  - 100 to 200
  - 50 to 100
  - 0 to 50

**STRATEGIC METALS LTD.**  
 FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

0 4,000  
 metres  
 UTM ZONE 7, NAD 83, 115G/5,6,11&12  
 FILE: ...2019/Vault DATE: FEBRUARY 2020



**Silver-in-rock (ppm)**

- 10 to 200
- 5 to 10
- 1 to 5
- 0.5 to 1
- 0 to 0.5

- Fault
- Thrust fault
- Road

**STRATEGIC METALS LTD.**

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SILVER ROCK GEOCHEMISTRY AND FVD MAGNETICS**

VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

0 2,000 metres

FILE: ...2019/Vault DATE: FEBRUARY 2020

66.7

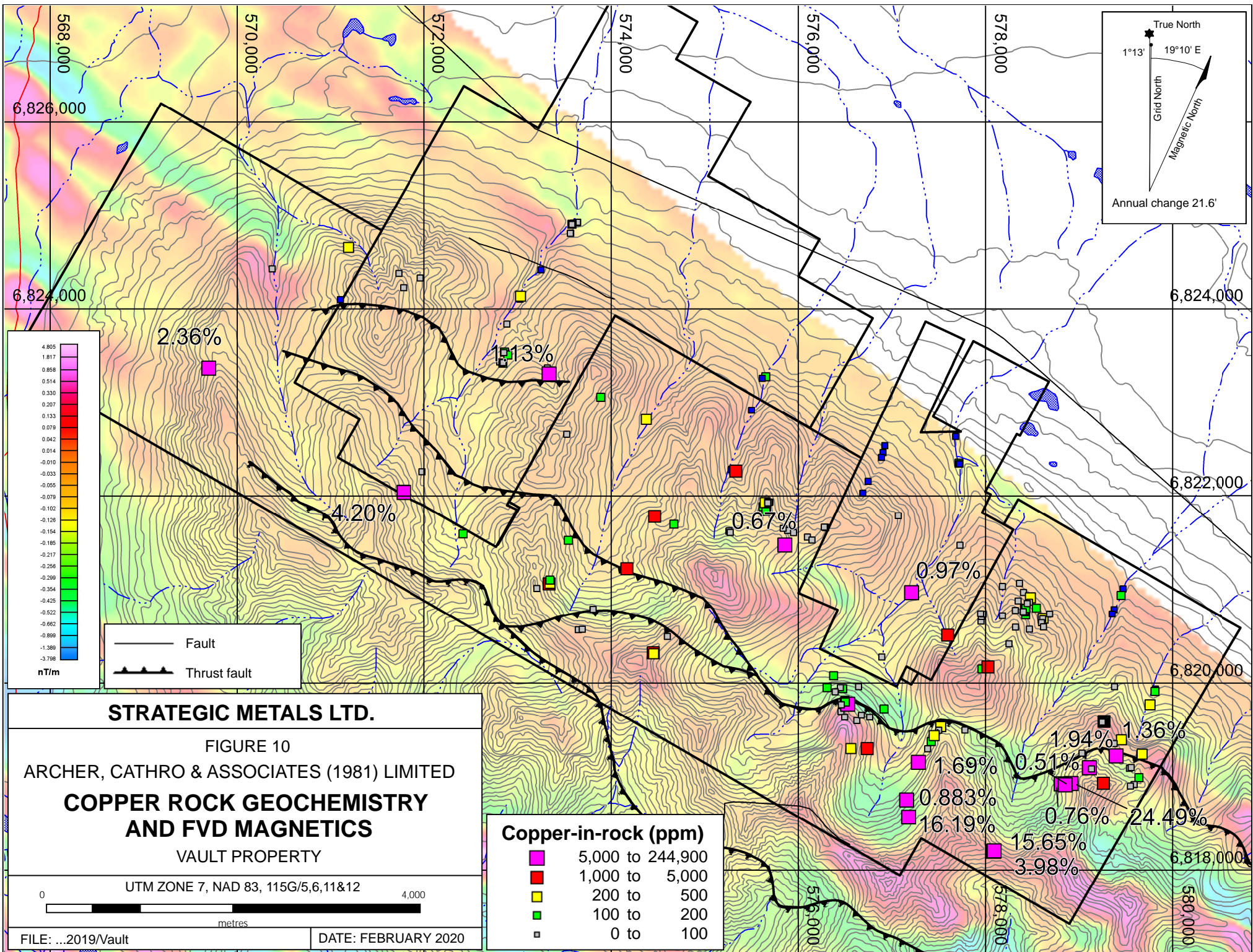
54.8

14.0

11.1

13.2

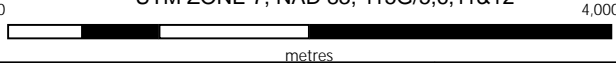
15.9



**STRATEGIC METALS LTD.**

FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER ROCK GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

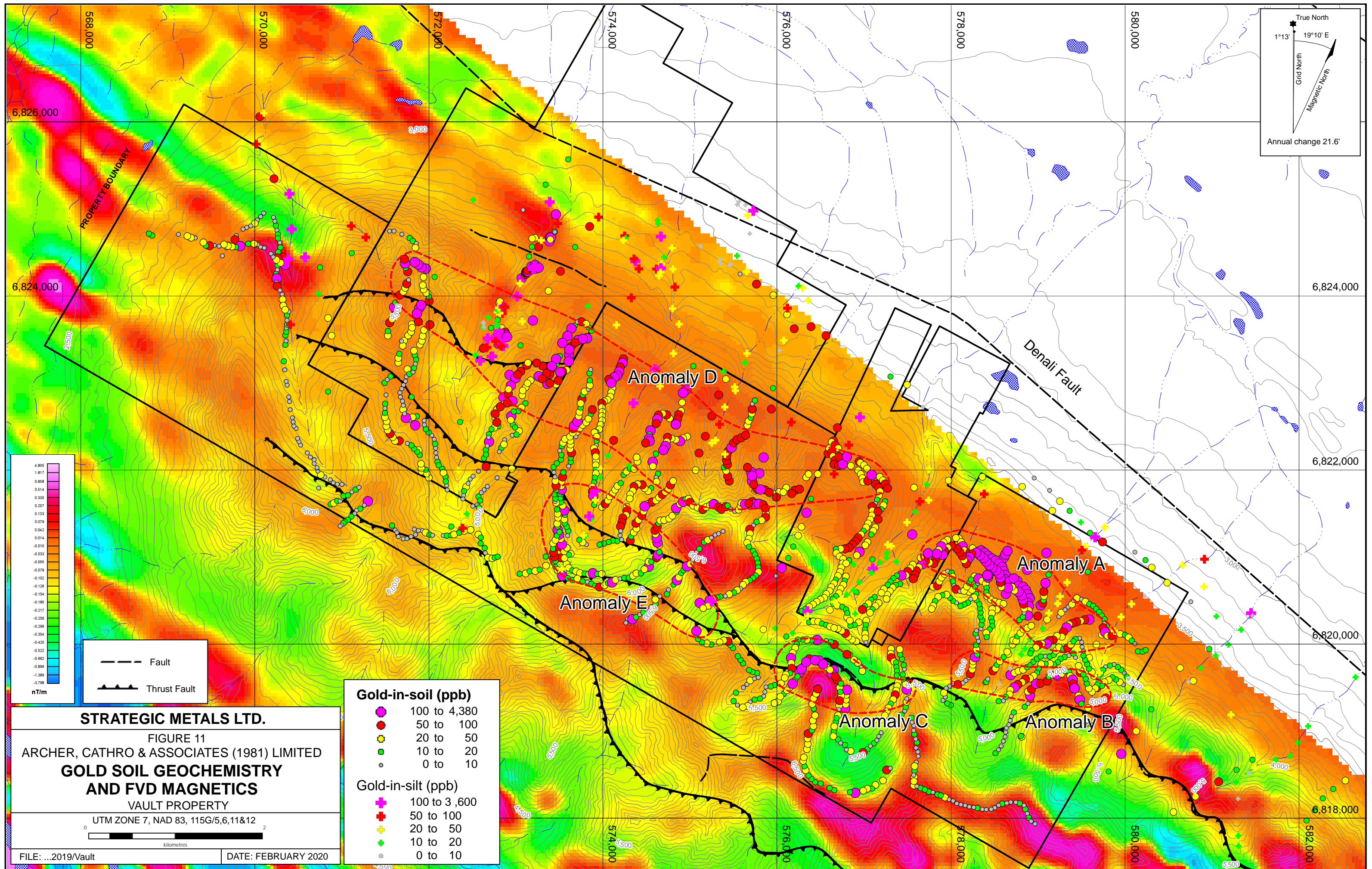


FILE: ...2019/Vault

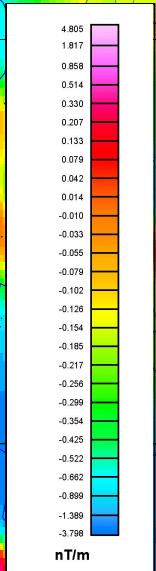
DATE: FEBRUARY 2020

**Copper-in-rock (ppm)**

- 5,000 to 244,900
- 1,000 to 5,000
- 200 to 500
- 100 to 200
- 0 to 100



True North  
 1°13' 19'10" E  
 Grid North  
 Magnetic North  
 Annual change 21.6'



--- Fault  
 —▲— Thrust Fault

**Gold-in-soil (ppb)**

- 100 to 4,380
- 50 to 100
- 20 to 50
- 10 to 20
- 0 to 10

**Gold-in-silt (ppb)**

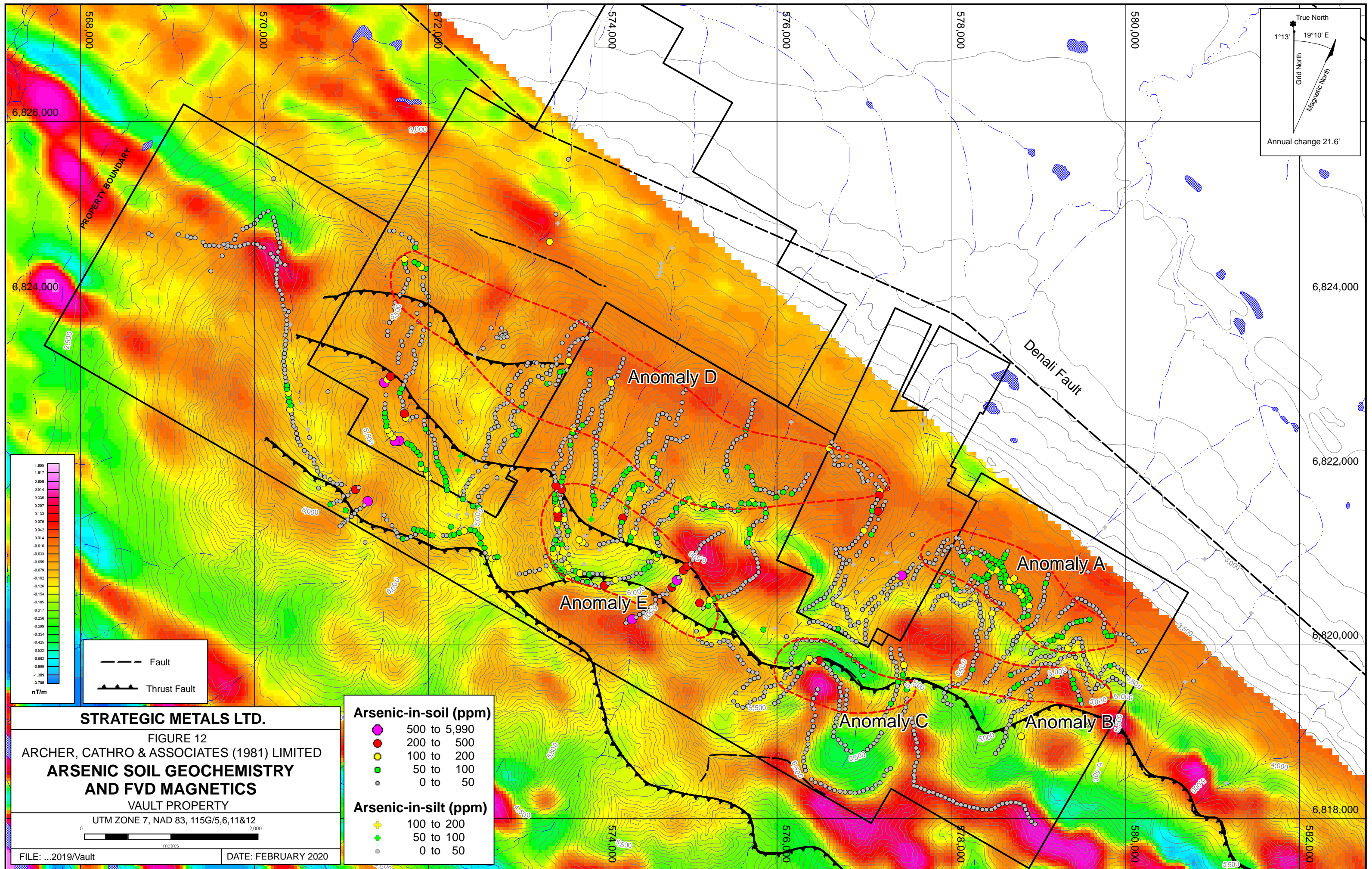
- ✚ 100 to 3,600
- ✚ 50 to 100
- ✚ 20 to 50
- ✚ 10 to 20
- 0 to 10

**STRATEGIC METALS LTD.**

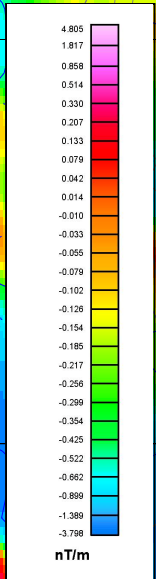
FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

FILE: ...2019/Vault      DATE: FEBRUARY 2020



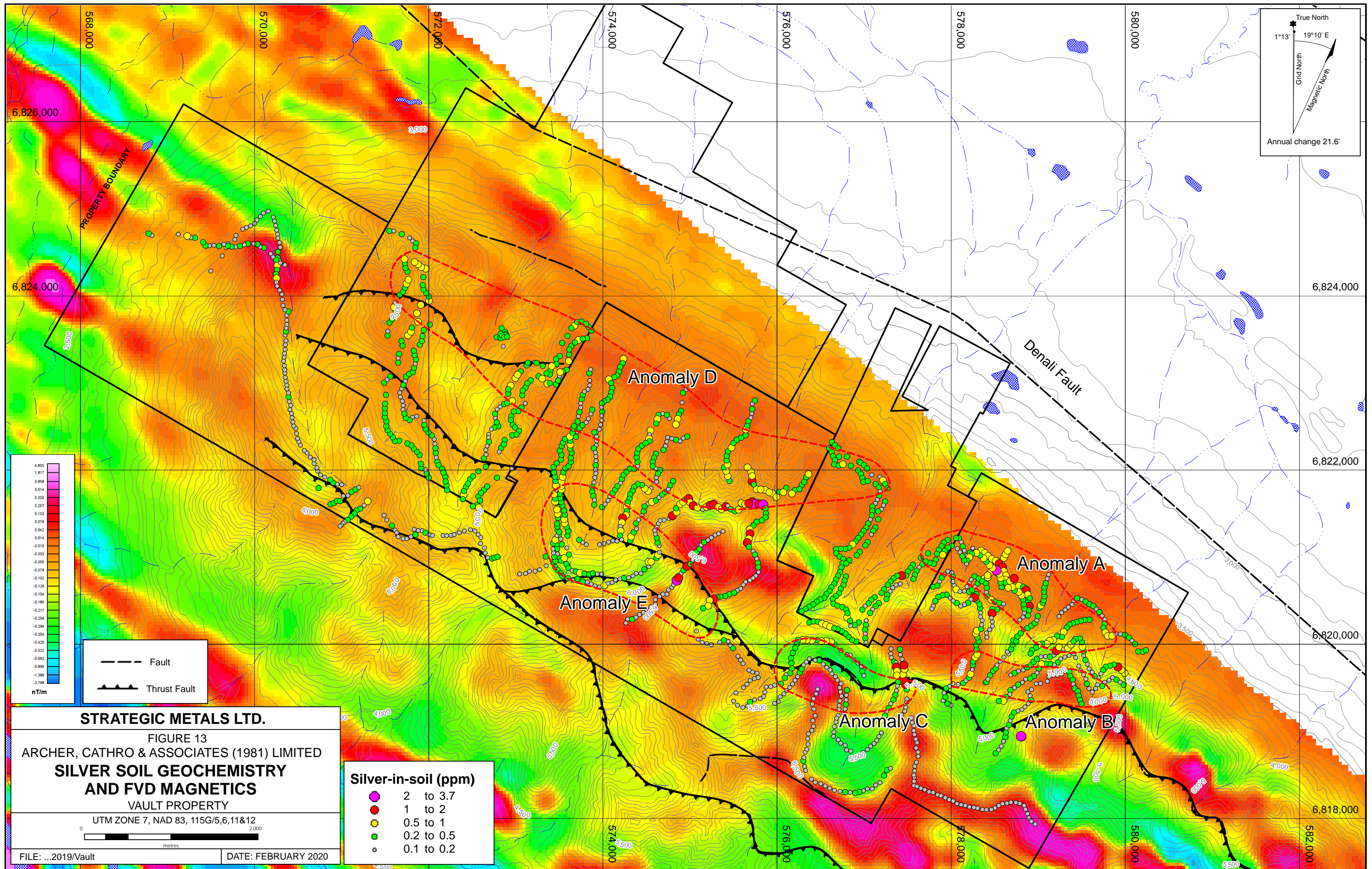
True North  
 1°13' 19'10" E  
 Grid North  
 Magnetic North  
 Annual change 21.6'



--- Fault  
 —▲— Thrust Fault

**STRATEGIC METALS LTD.**  
 FIGURE 12  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL GEOCHEMISTRY  
 AND FVD MAGNETICS**  
 VAULT PROPERTY  
 UTM ZONE 7, NAD 83, 115G/5,6,11&12  
 FILE: ...2019/Vault DATE: FEBRUARY 2020

**Arsenic-in-soil (ppm)**  
 ● 500 to 5,990  
 ● 200 to 500  
 ● 100 to 200  
 ● 50 to 100  
 ● 0 to 50  
**Arsenic-in-silt (ppm)**  
 + 100 to 200  
 + 50 to 100  
 + 0 to 50



**STRATEGIC METALS LTD.**

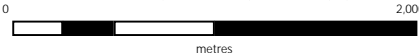
FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SILVER SOIL GEOCHEMISTRY  
AND FVD MAGNETICS**

VAULT PROPERTY

UTM ZONE 7, NAD 83, 115G/5,6,11&12

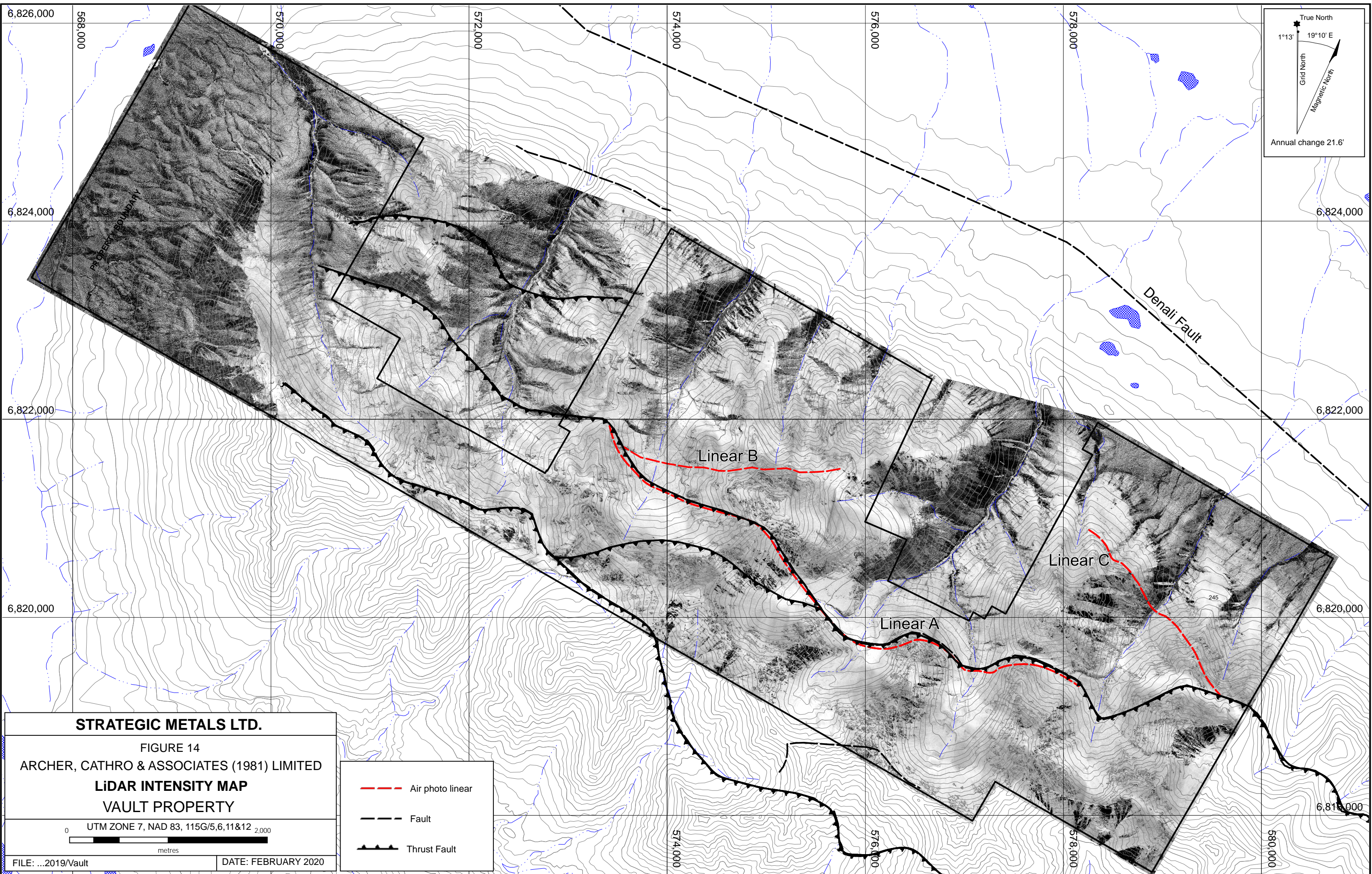


FILE: ...2019/Vault

DATE: FEBRUARY 2020

**Silver-in-soil (ppm)**

- 2 to 3.7
- 1 to 2
- 0.5 to 1
- 0.2 to 0.5
- 0.1 to 0.2



**STRATEGIC METALS LTD.**

FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LiDAR INTENSITY MAP**  
**VAULT PROPERTY**

UTM ZONE 7, NAD 83, 115G/5,6,11&12 2,000

0 metres

FILE: ...2019/Vault DATE: FEBRUARY 2020

- - - Air photo linear
- - - Fault
- ▲-▲-▲- Thrust Fault