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**ASSESSMENT REPORT**

describing

**PROSPECTING AND GEOCHEMICAL SAMPLING**

at the

**ALOTTA PROPERTY**

Sev 1-36      YF93765-YC63800  
Sev 37-54     YE60977-YE60994  
Sev 55-74     YE30638-YE30657

NTS 115J/07

Latitude 62°21'N; Longitude 138°35'W

Field work performed from July 25 to August 4, 2020

in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

K. Willms, B.Sc., GIT

December 2020

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## **INTRODUCTION**

The Alotta property covers porphyry-type gold, copper and molybdenum mineralization in western Yukon. It lies within the Dawson Range Gold Belt (DRGB) – a highly prospective belt of rocks known to host numerous porphyry and intrusion-related occurrences and deposits, including Western Copper and Gold Corporation’s Casino deposit, Rockhaven Resources Ltd.’s Klaza deposit and Triumph Gold Corp.’s Nucleus, Revenue and Tinta Hill deposits. The property is wholly owned by Strategic Metals Ltd.

This report describes prospecting and geochemical sampling conducted from July 25 to August 4, 2020. Archer, Cathro & Associates (1981) Limited performed the work and managed the program on behalf of Strategic Metals. The author did not participate in the exploration program but interpreted all resulting data. The author’s Statement of Qualifications is provided in Appendix I, and a Statement of Expenditures appears in Appendix II.

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

The Alotta property consists of 74 contiguous mineral claims, which are located within NTS map sheet 115J/07 at latitude 62°21’ north and longitude 138°35’ west (Figure 1). The property covers an area of approximately 1550 hectares (15.50 km<sup>2</sup>). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Sev 1-36	YF93765- YF93800	January 23, 2029
Sev 37-54	YE60977-YE60994	January 23, 2028
Sev 55-74	YE30638-YE30657	January 23, 2023

\* Expiry dates include 2020 work, which has been filed for assessment credit, but has not yet been accepted.

The Alotta property is located approximately 125 km west-northwest of the community of Carmacks and lies within the traditional territory of the Selkirk First Nation. The Rude Creek airstrip, located 32 km to the north, is the nearest fixed-wing landing field. An old winter cat trail is located five kilometres west of the property. This trail originates from the north end of Aishihik Lake and terminates at the Yukon River, near the abandoned community of Selkirk.

In 2020, access to and from the property was provided by a Bell 407 helicopter operated by Capital Helicopters (1995) Inc. of Whitehorse, from a staging area at Rockhaven Resources Klaza property, located 72 km southeast of the property.

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION**

ALOTTA PROPERTY

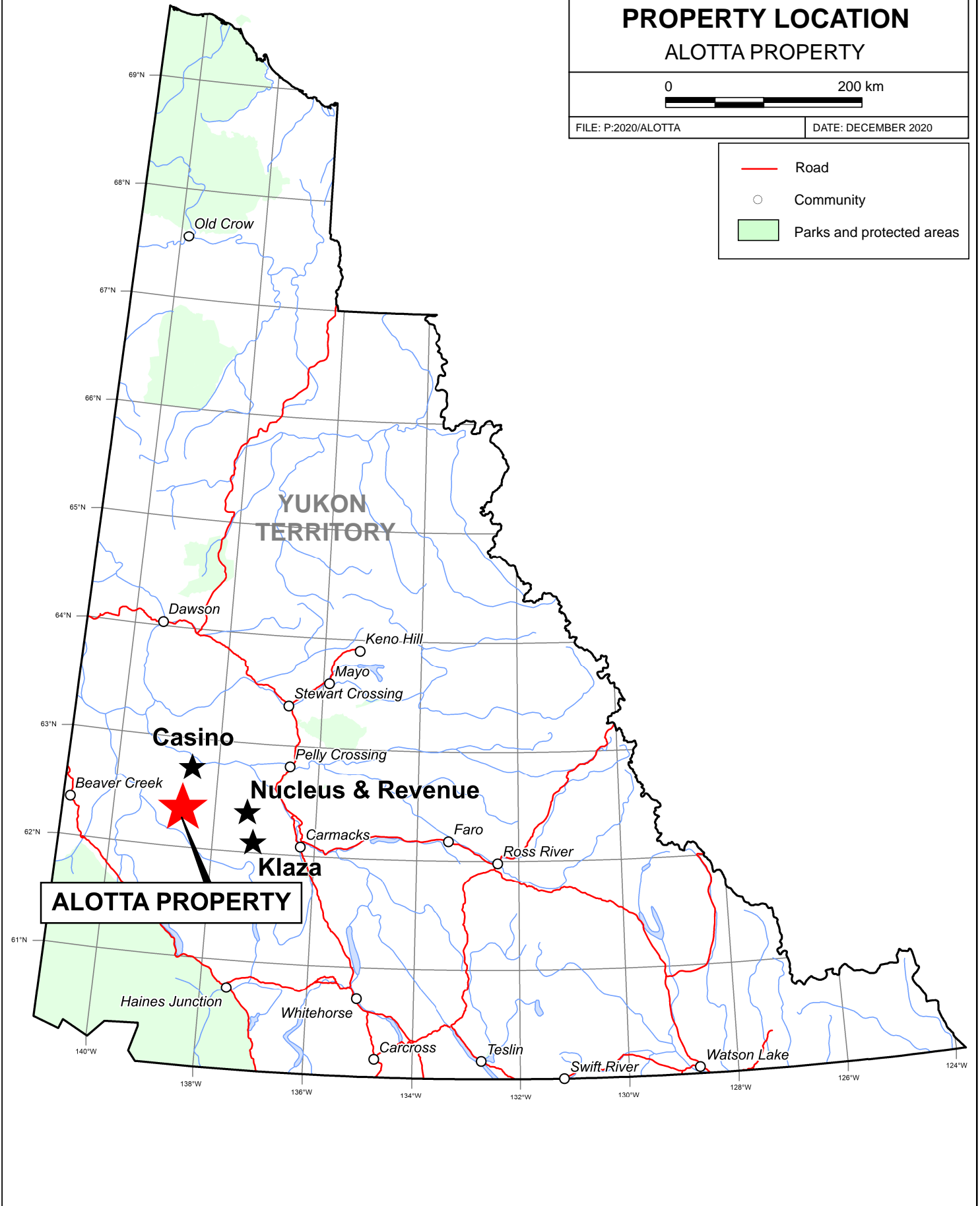
0 200 km

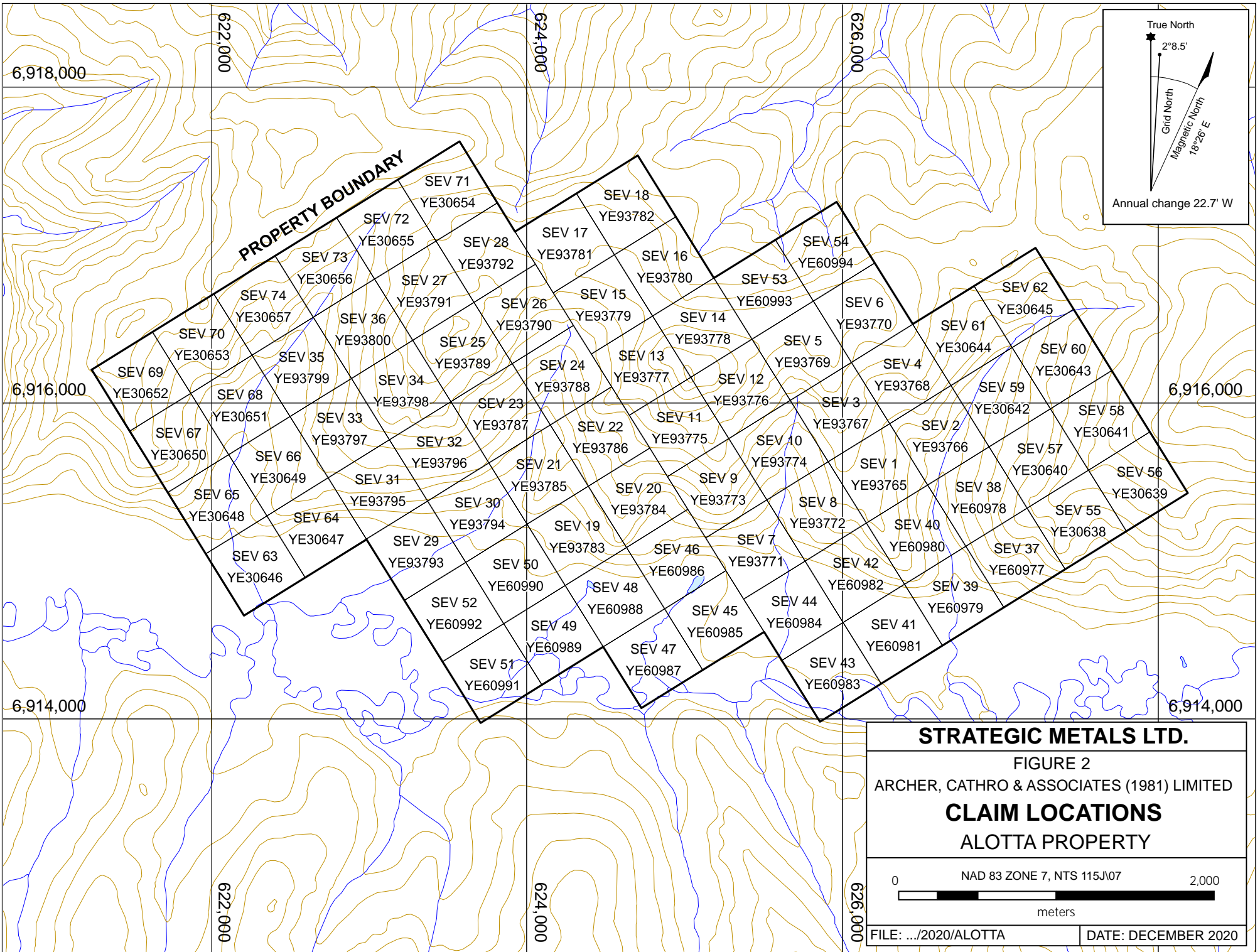


FILE: P:2020/ALOTTA

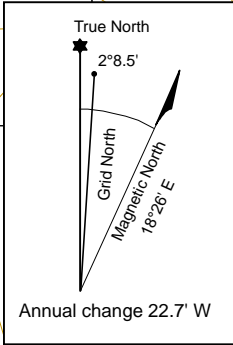
DATE: DECEMBER 2020

- Road
- Community
- Parks and protected areas





**PROPERTY BOUNDARY**



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

0      NAD 83 ZONE 7, NTS 115J07      2,000  
 meters

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020

## **HISTORY AND PREVIOUS WORK**

The first recorded work in the Alotta area was performed in 1970 by Atlas Explorations Ltd., following an earlier reconnaissance exploration program. That year, Atlas staked the Mim claims, which covered the current Alotta property, and performed geological mapping and geochemical sampling. This work identified copper and molybdenum mineralization and the presence of a broad but erratic copper-in-soil geochemical anomaly. Soil samples were reportedly collected from very shallow depths. Rock and soil samples were not analyzed for gold (Karvinen, 1970). Following this work, the claims were allowed to lapse.

In 1986, the Geological Survey of Canada (GSC) carried out a low-density stream sediment and water sampling survey in southwest Yukon, on NTS map sheet 115J and parts of map sheet 115K (Geological Survey of Canada, 1986). A stream sediment sample collected from a creek draining northward from the Alotta property yielded a very strongly anomalous value for gold (144 ppb).

In 1998, Kennecott Canada Exploration Inc. conducted a reconnaissance soil and stream sediment program over the Alotta area in order to locate the source of the anomalous GSC stream sediment sample. This work outlined a two kilometre long, greater than 35 ppb gold-in-soil anomaly, but no follow-up work was performed (pers. comm. R. Hulstein, 2019).

In January 2002, 4763 NWT Ltd. staked the Severance 1-30 claims to cover the area of Kennecott's gold-in-soil anomaly. Later that year, the company performed geological mapping, prospecting and geochemical sampling on the property. Grid soil sampling was hindered by permafrost in a number of areas; however, a combination of pre-stripping the ground and using a gas-powered soil auger successfully produced deep samples. This work identified a roughly 1800 by 1100 m area of anomalous gold-, copper-, arsenic- and molybdenum-in-soil. Geological mapping and prospecting was hampered by a lack of outcrop. The best rock sample, comprising a moderately silicified granodiorite hosting pyrite, returned 1.21 g/t gold and 0.35% copper (Casselmann, 2002).

In March 2003, Eagle Plains Resources Ltd. optioned the Severance property, and in 2004, initiated ground-based magnetic and induced-polarization (IP) surveys on the property, as well as additional geochemical sampling. The soil sampling extended the multi-element geochemical anomaly to the southwest. The IP survey identified a broad chargeability high with a moderately resistive core, while the magnetic survey was not completed due to time and budget constraints. Further work was recommended, including diamond drilling (Casselmann and Hildes, 2004). Subsequently, ownership of the Severance property was transferred to Omineca Mining and Metals Ltd.

In 2011, Northern Freegold Resources Ltd. purchased the Severance property from Omineca Mining and Metals. That September, the company spent three days prospecting on the property, before staking an additional 192 claims. A sample of monzonite, cut by quartz and chlorite veinlets, with a trace amount of disseminated pyrite, returned 0.4 g/t gold and 156 ppm copper (Sexton and von Bludow, 2013).

In 2012, Northern Freegold collected 115 ridge-and-spur soil samples on the property. Only five of these samples lie within the current Alotta claims. Results from this sampling were subdued, possibly due to the widespread presence of permafrost (Sexton and von Bludow, 2013). The Severance claims were subsequently allowed to lapse.

In 2019, Strategic Metals staked the Sev 1-36 claims to cover the historical soil geochemical anomaly and surrounding area. An exploration program of soil sampling and prospecting was completed, from which a total of 16 rock and 273 soil samples were collected. This work doubled the dimensions of the previously identified coincident copper-gold geochemical anomaly to a 2.3 by 1.2 km area. Following the exploration program, an additional 18 claims were staked in order to cover prospective ground to the south and east of the claim block.

### **GEOMORPHOLOGY**

The Alotta property lies within the southwestern foothills of the Dawson Range, in an unglaciated part of southwest Yukon. It is drained by creeks that converge with the Klotassin River and flow west into the Donjek River. These rivers and creeks are part of the White River watershed and the Yukon River system.

Elevations on the property range from 790 m above sea level (asl), on the floor of the Klotassin River Valley, to 1250 m asl, along a northwest trending ridge. The southern part of the property covers a broad, swampy wetland abutting the Klotassin River, while the middle portion is characterized by south facing slopes that are thickly treed with poplar, spruce and shrub willow. The northern part of the property covers the crest of a major east-west trending ridge and an adjacent gently sloping plateau, which are sparsely treed with alder and dwarf spruce, and mostly blanketed by a veneer of frozen overburden. Bedrock exposure on the property is very poor, and outcrops are limited to the ridge crest.

The climate in the Alotta area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively warm, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from mid-May to early October.

### **REGIONAL GEOLOGY**

The Alotta property is underlain by rocks of the Yukon-Tanana terrane (YTT), as shown on Figure 3. YTT is characterized by polydeformed and metamorphosed Late Proterozoic to Late Paleozoic continental margin siliciclastic rocks and arc-derived meta-volcanic and intrusive rocks. In west-central Yukon, YTT rocks are bounded by the Tintina Fault and the Denali Fault, which are situated 150 km to the northeast and 100 km to the southwest, respectively. Both faults are steeply dipping transcurrent structures that have undergone hundreds of kilometres of dextral strike-slip offset (Colpron and Nelson, 2011; Peter et al., 2007).

The earliest geological mapping performed in the vicinity of the Alotta property was undertaken in 1916 by the GSC (Cairnes, 1917). This map encompassed the area from the Yukon River to the junction of the Klotassin River and Somme Creek, immediately northwest of the property



# STRATEGIC METALS LTD.

FIGURE 3

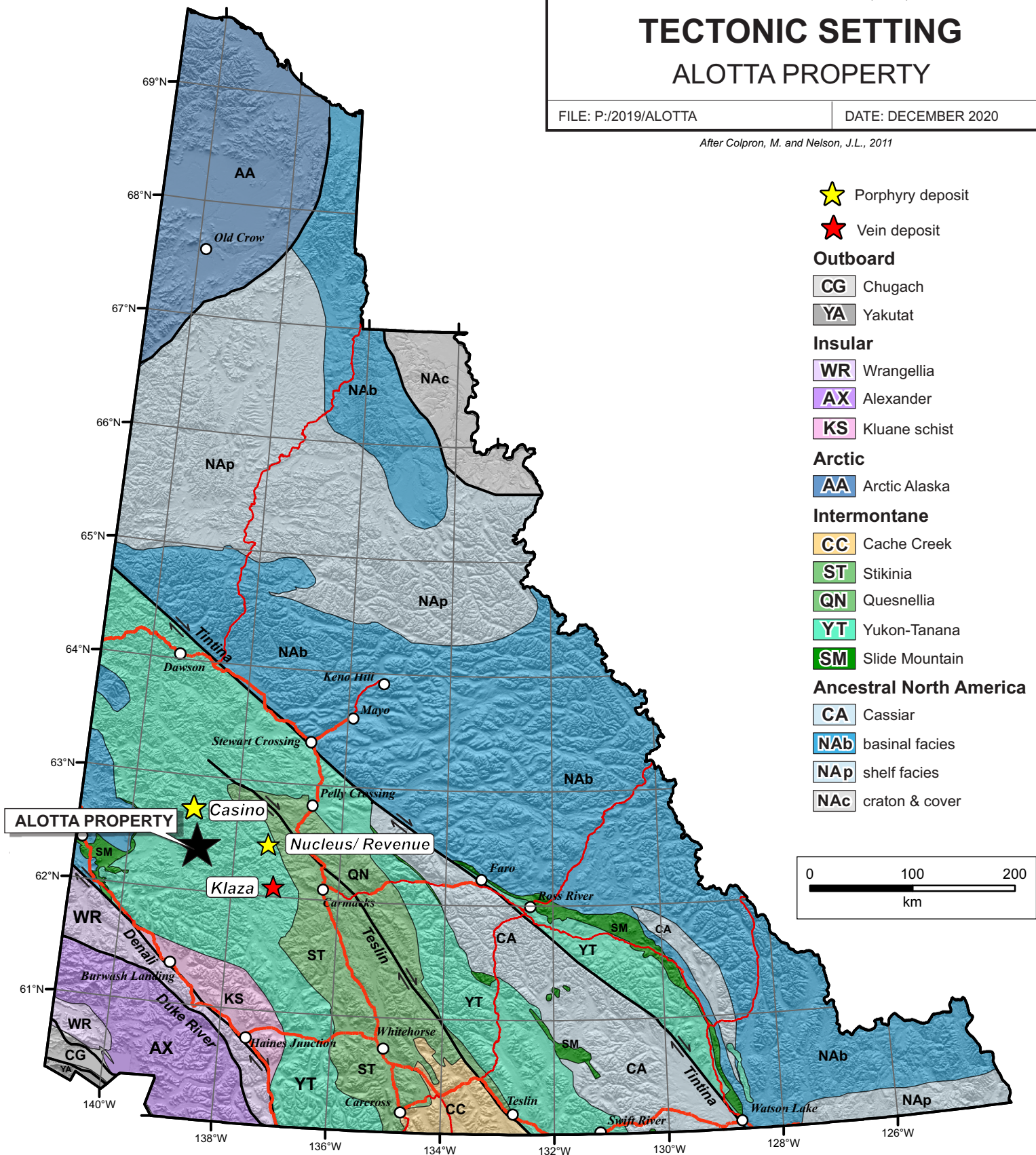
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## TECTONIC SETTING ALOTTA PROPERTY

FILE: P:/2019/ALOTTA

DATE: DECEMBER 2020

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



★ Porphyry deposit

★ Vein deposit

**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

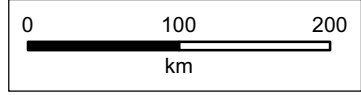
**Ancestral North America**

CA Cassiar

NAb basinal facies

NAp shelf facies

NAc craton & cover



(Cairnes, 1917). Between 1970 and 1972, the GSC completed 1:250,000 scale mapping of NTS map sheet 115J and parts of 115K, which was published in 1973 as a geological map of the Snag area (Templeman-Kluit, 1973). In 2013 and 2018, the GSC and the Yukon Geological Survey (YGS) completed 1:100,000 scale maps of the northeast part of Stevenson Ridge (Ryan et al., 2013), and the Klaza River area (Ryan et al., 2018). Collectively, these maps cover the area of the Alotta property. Regional-scale geological maps appear on the YGS website, which is periodically updated when new information becomes available (YGS, 2020). The regional geology, illustrated on Figure 4 and described below, is based on mapping performed by the GSC and YGS.

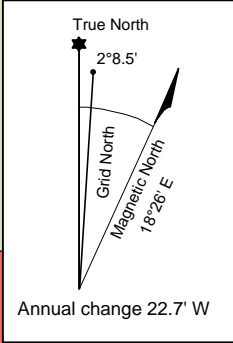
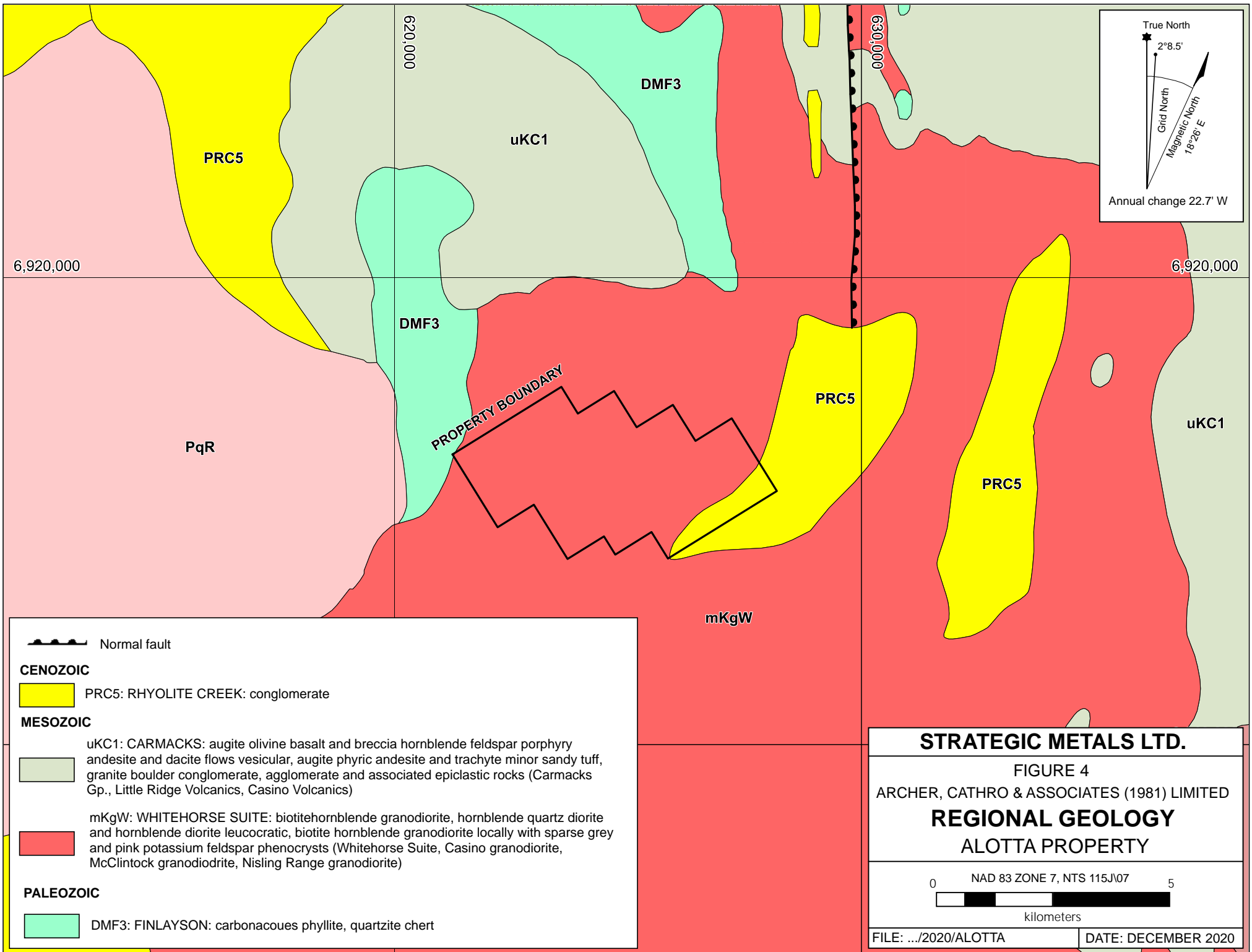
In the Alotta area, YTT is composed of strongly metamorphosed, Devonian to Mississippian, sedimentary and volcanic rocks of the Finlayson assemblage, which unconformably overlie an older package of continent-derived, meta-sedimentary rocks belonging to the Snowcap assemblage. Both assemblages are characterized by a transposition foliation developed at greenschist to amphibolite conditions, and are intruded by Cretaceous-aged Whitehorse Suite and Paleogene-aged Ruby Range Suite plutons. To the northeast the property, Carmacks Group volcanic rocks unconformably overlie the Finlayson and Snowcap assemblages (Ryan et al., 2018).

The Dawson Range batholith (Whitehorse Suite), which underlies the Alotta property, comprises a diverse range of plutonic rocks ranging from diorite to monzogranite. In the Klotassin River area, white to beige, hornblende-biotite granodiorite is the predominant lithology. This granodiorite is distinguished by its blocky weathering, as well as large phenocrysts of hornblende (3-5 mm) and lesser biotite.

West of the property, the Pattison Creek Pluton (Ruby Range Suite) intrudes YTT stratigraphy and is cut by and cuts contemporaneous dykes and sills of the Rhyolite Creek volcanoplutonic complex. In plan-view, the pluton comprises a 61 km<sup>2</sup> alkali granite, which is mineralogically homogenous but texturally zoned.

Northeast of the property, a 37 km long, east-dipping normal fault marks the eastern boundary of the Finlayson assemblage, and truncates a portion of the Dawson Range plutonic rocks. At its southernmost extent it is overlain or occupied by Rhyolite Creek volcanics.

The main lithological units are described below in Table I.



Normal fault

**CENOZOIC**

PRC5: RHYOLITE CREEK: conglomerate

**MESOZOIC**

uKC1: CARMACKS: augite olivine basalt and breccia hornblende feldspar porphyry andesite and dacite flows vesicular, augite phyric andesite and trachyte minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks (Carmacks Gp., Little Ridge Volcanics, Casino Volcanics)

mKqW: WHITEHORSE SUITE: biotitehornblende granodiorite, hornblende quartz diorite and hornblende diorite leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts (Whitehorse Suite, Casino granodiorite, McClintock granodiorite, Nisling Range granodiorite)

**PALEOZOIC**

DMF3: FINLAYSON: carbonaceous phyllite, quartzite chert

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FIGURE 4

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**REGIONAL GEOLOGY**

**ALOTTA PROPERTY**

0 NAD 83 ZONE 7, NTS 115J07 5

kilometers

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020

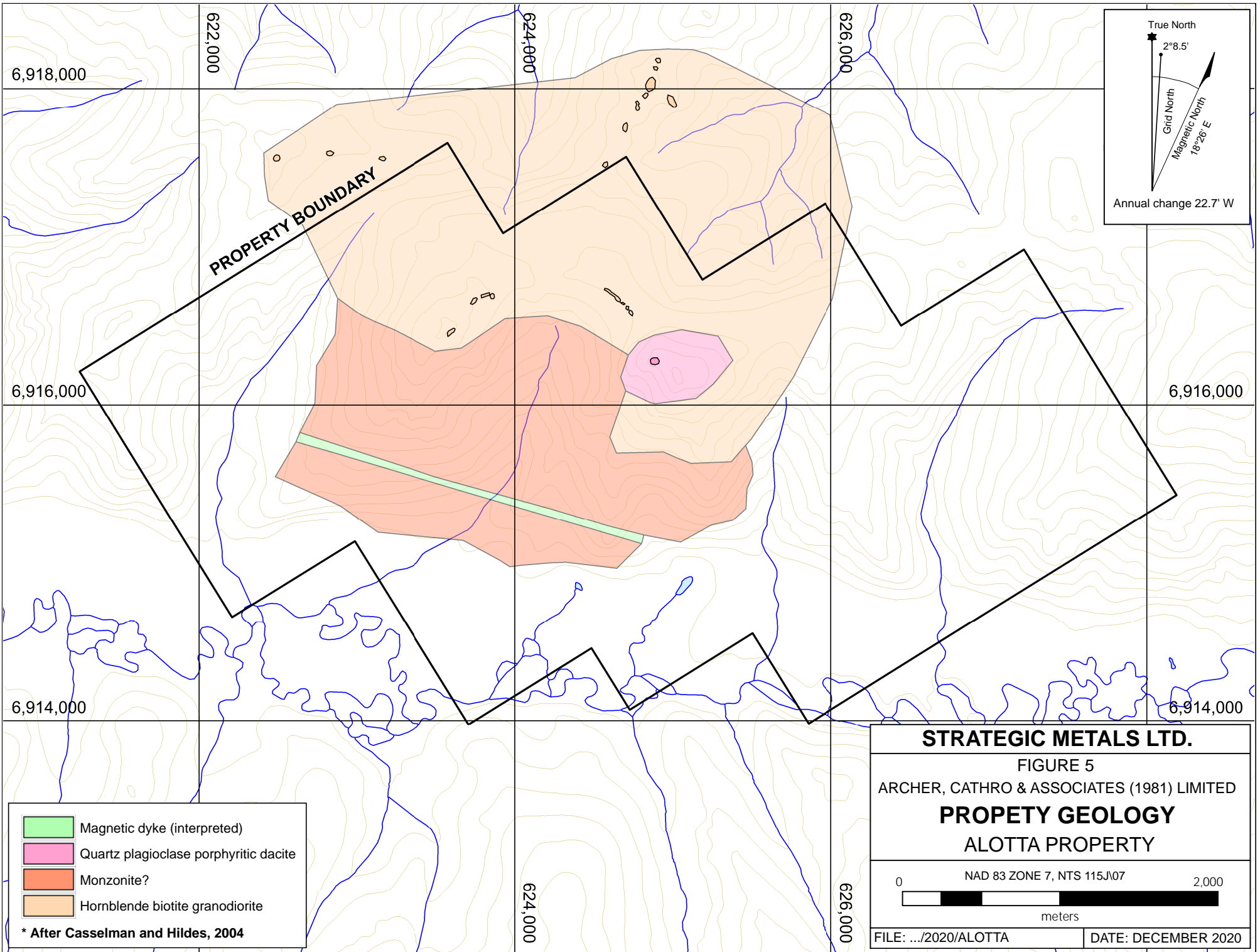
**Table I – Lithological Units (adapted from YGS, 2020)**

<b>Map Suite</b>	<b>Age</b>	<b>Map Unit</b>	<b>Description</b>
Rhyolite Creek	Paleocene to Eocene	PRC5	Volcanic rocks and basal conglomerate/breccia; rounded to angular clasts of underlying metamorphic rocks within a sandy volcanoclastic matrix.
Ruby Range Suite	Paleocene to Eocene	PqR	Leucocratic, biotite granite; miarolitic alaskite; saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite. ( <b>Pattison Creek Pluton</b> )
Carmacks Group	Upper Cretaceous	uKC1	Augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
Whitehorse Suite	Middle Cretaceous	mKgW	Biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts. ( <b>Dawson Range batholith</b> )
Finlayson Assemblage	Upper Devonian to Mississippian	DMF3	Dark grey to black carbonaceous metasedimentary rocks, metachert. Amphibolite and greenschist.
Snowcap Assemblage	Neoproterozoic to Upper Devonian	PDS1	Polydeformed and metamorphosed quartzite, psammite, pelite and marble; minor greenstone and amphibolite.

### **PROPERTY GEOLOGY**

Efforts to perform property-scale geological mapping on the property have been hampered by a lack of outcrop, which is observed almost exclusively along ridge crests. The following summary of property geology is based on the work of 4763 NWT, as well as observations made during other field programs (Figure 5).

The northern part of the property is underlain by coarse-grained, hornblende-biotite granodiorite of the Whitehorse Suite. These rocks are typically unaltered, but locally, mafic minerals have been partially replaced with fine grained pyrite. In the centre of the property, rare exposures of



**PROPERTY BOUNDARY**

6,918,000

622,000

624,000

626,000

6,916,000

6,916,000

6,914,000

6,914,000

624,000

626,000

- Magnetic dyke (interpreted)
  - Quartz plagioclase porphyritic dacite
  - Monzonite?
  - Hornblende biotite granodiorite
- \* After Casselman and Hildes, 2004

True North  
2°8.5'

Grid North  
Magnetic North  
18°26' E

Annual change 22.7' W

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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY GEOLOGY**  
**ALOTTA PROPERTY**

0      NAD 83 ZONE 7, NTS 115J07      2,000  
  
 meters

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020

unaltered, quartz-feldspar porphyry suggests the presence of a small plug. The porphyritic rocks are medium green, with a fine-grained to aphanitic matrix and phenocrysts of white quartz and plagioclase, up to 2 mm long. The plug is believed to be part of the Rhyolite Creek Complex, but could also belong to the Late Cretaceous Casino Suite based on the lithological descriptions.

In the western and southwestern parts of the property, fine- to medium-grained, light pink to medium-grey, monzonite boulders have been observed. Based on the abundance of boulder float in the area, it is interpreted that a body of monzonite underlies the middle-western part of the property. Many of the boulders are weakly altered, and host trace amounts of disseminated hematite.

### **GEOPHYSICS**

In 2004, Eagle Plains Resources performed ground-based magnetic and IP surveys over an area within the current Alotta property. Due to time and budget constraints, the magnetic survey could not be completed, and as a result, the magnetic data is incomplete and difficult to interpret.

The IP survey was performed with low-power equipment on three widely-spaced lines, resulting in a shallow coverage. It identified a broad chargeability high that is moderately resistive in the core and less resistive outboard. Two low resistivity zones were also identified, with values between 50 and 500 Ohm-m, and are most conductive in the central part of the grid (Casselmann and Hildes, 2004).

In 2017, the YGS merged and reprocessed regional-scale airborne magnetic survey data for the Stevenson Ridge (NTS 115J) area, which covers the Alotta property. The reprocessed data identified a westerly-elongated, oval-like, magnetic low, with a central 'bulls-eye' magnetic high, which underlies the property (Aurora Geosciences Ltd., 2017). The geophysical anomaly coincides with, and extends past, the known gold-copper-molybdenum soil geochemical anomaly.

### **MINERALIZATION**

Rock sampling at the Alotta property has been hindered by thick vegetation and a lack of outcrop; however, limited prospecting has identified porphyry-type gold, copper and molybdenum mineralization. Because the property lies in an area of the Yukon that has not been glaciated, the majority of samples collected are oxidized and presumably leached. As a result, copper concentrations in the surface samples may be depressed relative to rocks containing hypogene mineralization.

In 2002, a float sample collected from the property (SEV02-14), comprising silica-flooded granodiorite with quartz veins and disseminated pyrite, yielded 1.21 g/t gold and 3491 ppm copper. Another sample of similar material (SEV02-01), collected 340 m downslope, returned 0.53 g/t gold and 111 ppm copper. These rocks were not significantly enriched in molybdenum (Casselmann, 2002).

In 2019, composite samples collected in the area of SEV02-14 assayed up to 0.27 g/t gold and 170 ppm copper. The strongest gold-in-rock response, however, was obtained from an area located one kilometre west of SEV02-14. A composite sample of orange-brown weathering, biotite monzonite, with mm-scale barren quartz veinlets and chlorite and pyrite in fractures returned 0.49 g/t gold, while a nearby sample of similar material, but with dark hematite staining around pyrite-bearing quartz veinlets, yielded 0.39 g/t gold and 166 ppm molybdenum (Morton, 2019).

In 2020, a total of 15 rock samples were collected from the property. The majority of the samples were removed from shallow hand pits located in the central part of the property. Rock sample locations are shown on Figure 6, along with significant results from all programs to date. Rock sample descriptions for the 2020 samples are provided in Appendix III, and Certificates of Analysis are provided in Appendix IV.

The 2020 rock sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, YT and North Vancouver, BC, respectively. Each sample was dried, fine crushed to better than 90% passing 2 mm and then a 1 kg split was pulverized to better than 95% passing 106 microns. The fine fraction was analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21).

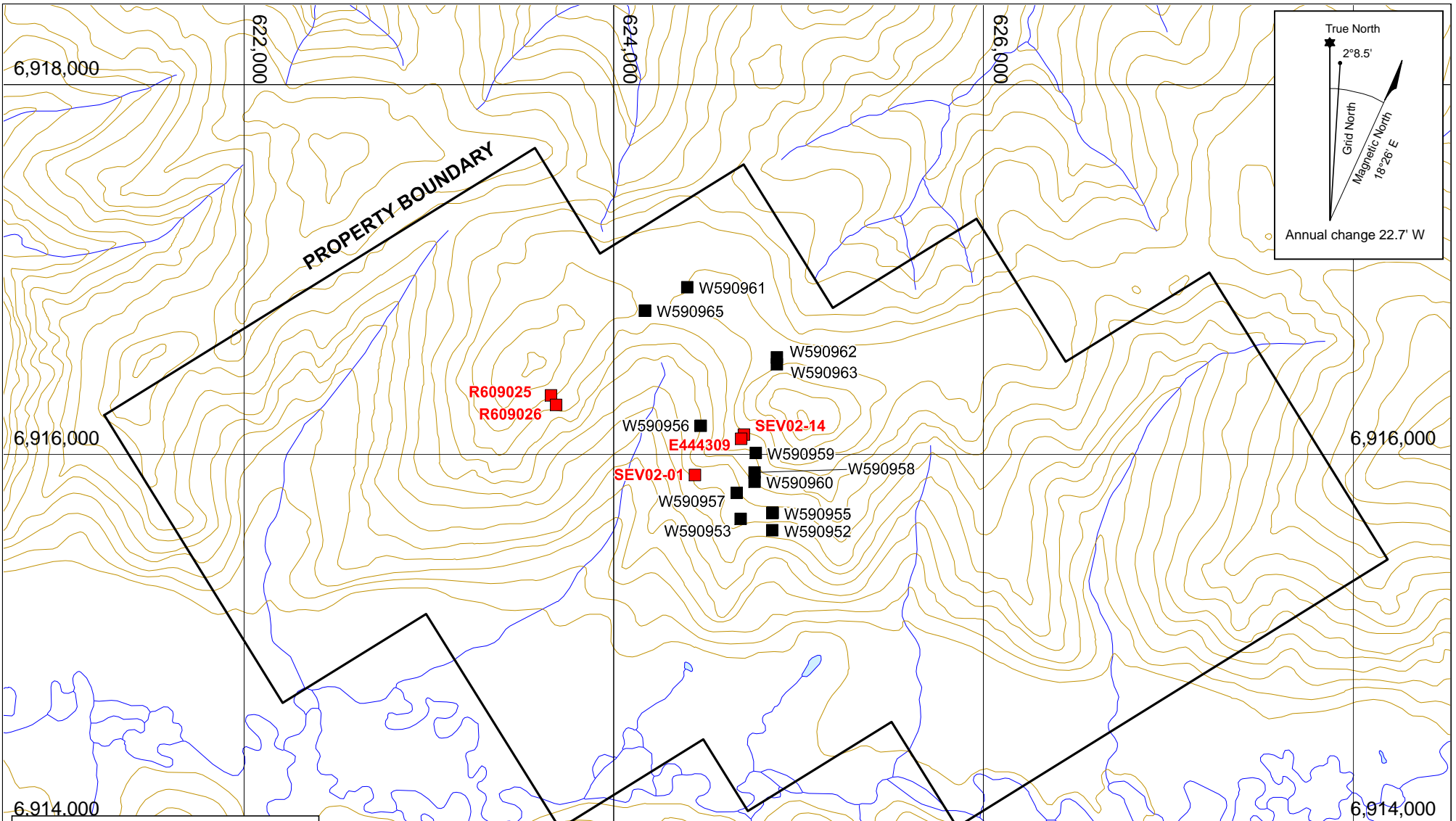
The strongest gold-in-rock response from 2020 sampling was from a previously un-sampled area located roughly 450 m north of SEV02-14. The sample, comprised of dark red-brown weathering granodiorite hosting fine pyrite, returned 0.364 g/t gold and 275 ppm copper. Rock samples collected from shallow pits returned anomalous gold values, up to 0.244 g/t, but were generally subdued for elements of interest.

### **SOIL GEOCHEMISTRY**

Grid soil geochemical sampling conducted in 2002, 2003 and 2019 identified a broad gold-copper-molybdenum-arsenic anomaly, covering both sides of a south-facing drainage. This anomaly remained open to the east and west.

In 2020, Strategic Metals collected 336 grid soil samples from the property, extending geochemical coverage to the east and west of the previous grid. The 2020 sample locations are plotted on Figure 7, while results for gold, copper, arsenic and molybdenum from all soil sampling programs are illustrated thematically on figures 8 to 11, respectively. Certificates of Analysis for the 2020 samples are provided in Appendix IV.

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 20 to 65 cm deep holes dug by handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were



- 2020 rock sample location
- Historical rock sample of significance

Sample ID	Year Taken	Au (g/t)	Cu (ppm)	Mo (ppm)
SEV02-01	2002	0.525	111	6
SEV02-14	2002	1.21	3491	5
E444309	2011	0.4	156	24
R609025	2019	0.49	22	1.8
R609026	2019	0.39	42	166
W590963	2020	0.364	275	2

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FIGURE 6  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ROCK SAMPLE LOCATIONS**  
ALOTTA PROPERTY

0

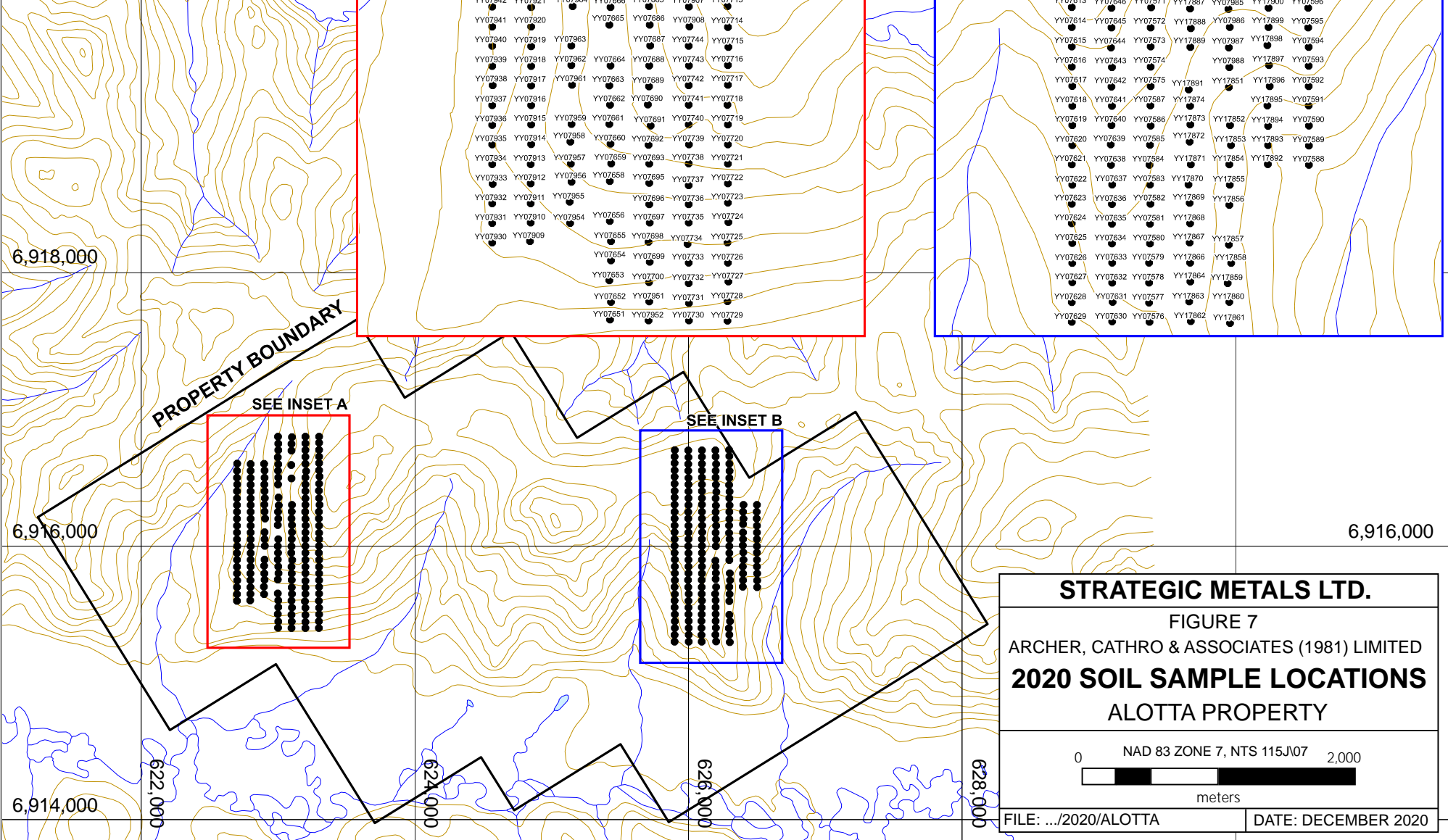
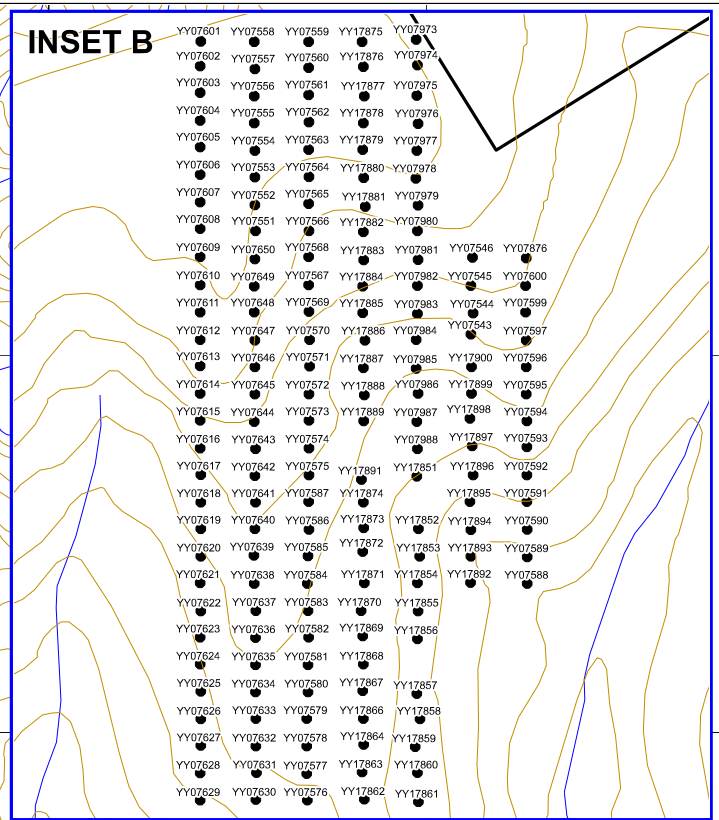
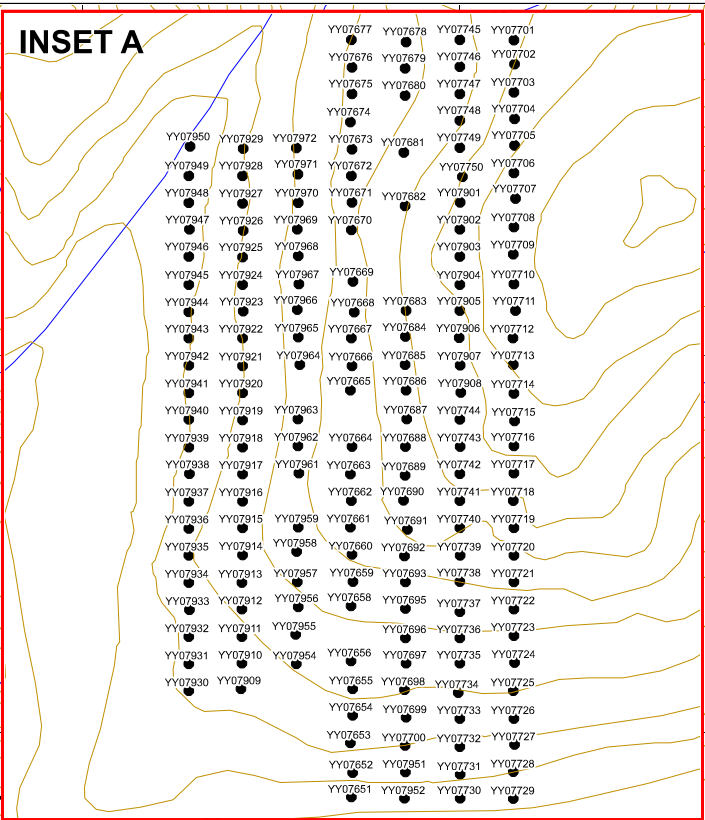
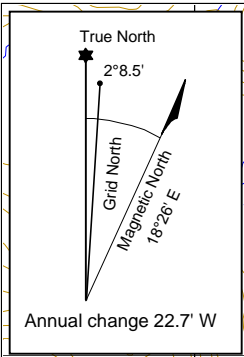
NAD 83 ZONE 7, NTS 115J07

2,000

meters

FILE: .../2020/ALOTTA
DATE: DECEMBER 2020





**STRATEGIC METALS LTD.**

FIGURE 7

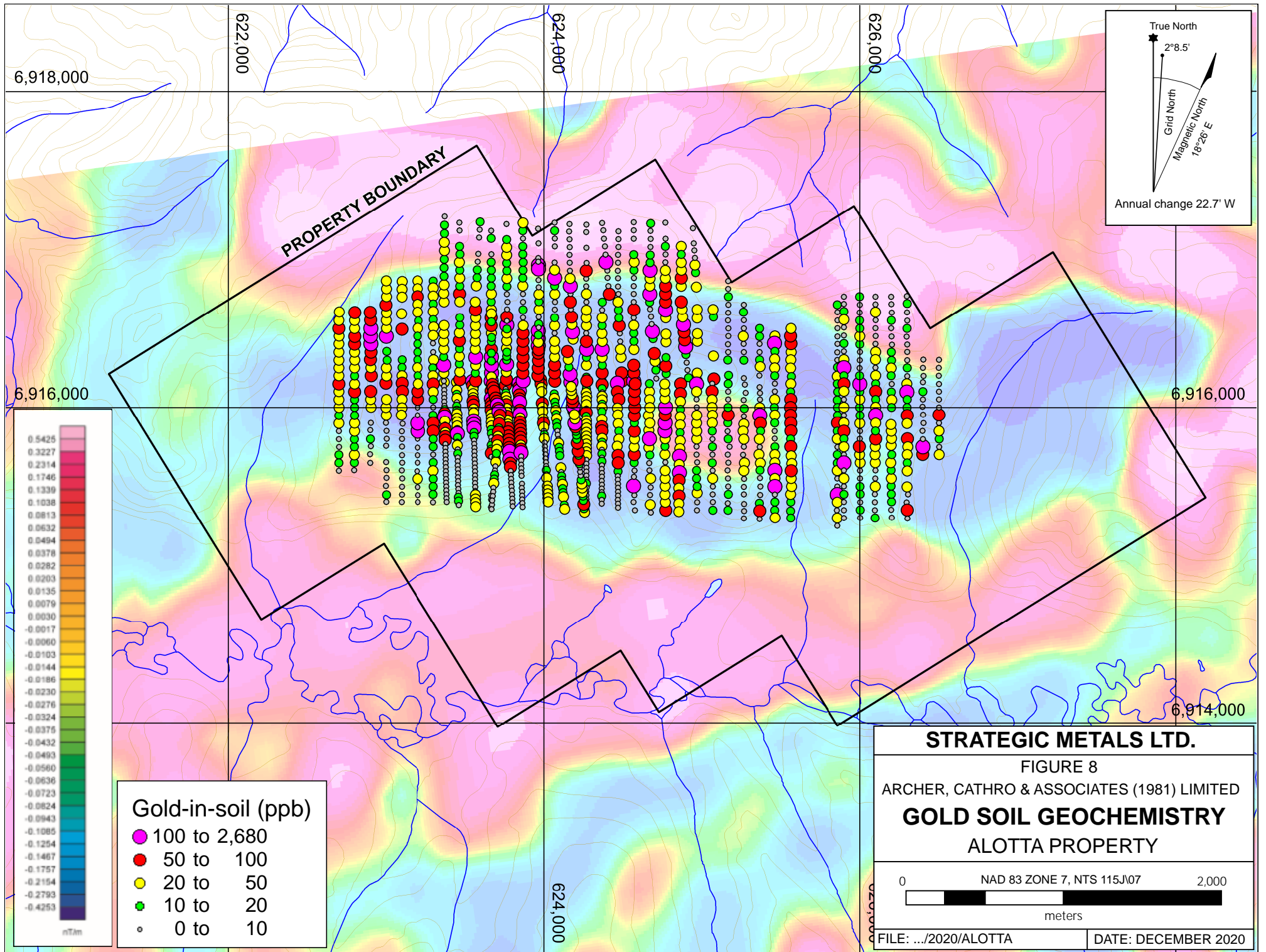
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**2020 SOIL SAMPLE LOCATIONS**

ALOTTA PROPERTY

0 NAD 83 ZONE 7, NTS 115J07 2,000  
meters

FILE: .../2020/ALOTTA DATE: DECEMBER 2020



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

- 100 to 2,680
- 50 to 100
- 20 to 50
- 10 to 20
- 0 to 10

**STRATEGIC METALS LTD.**

FIGURE 8

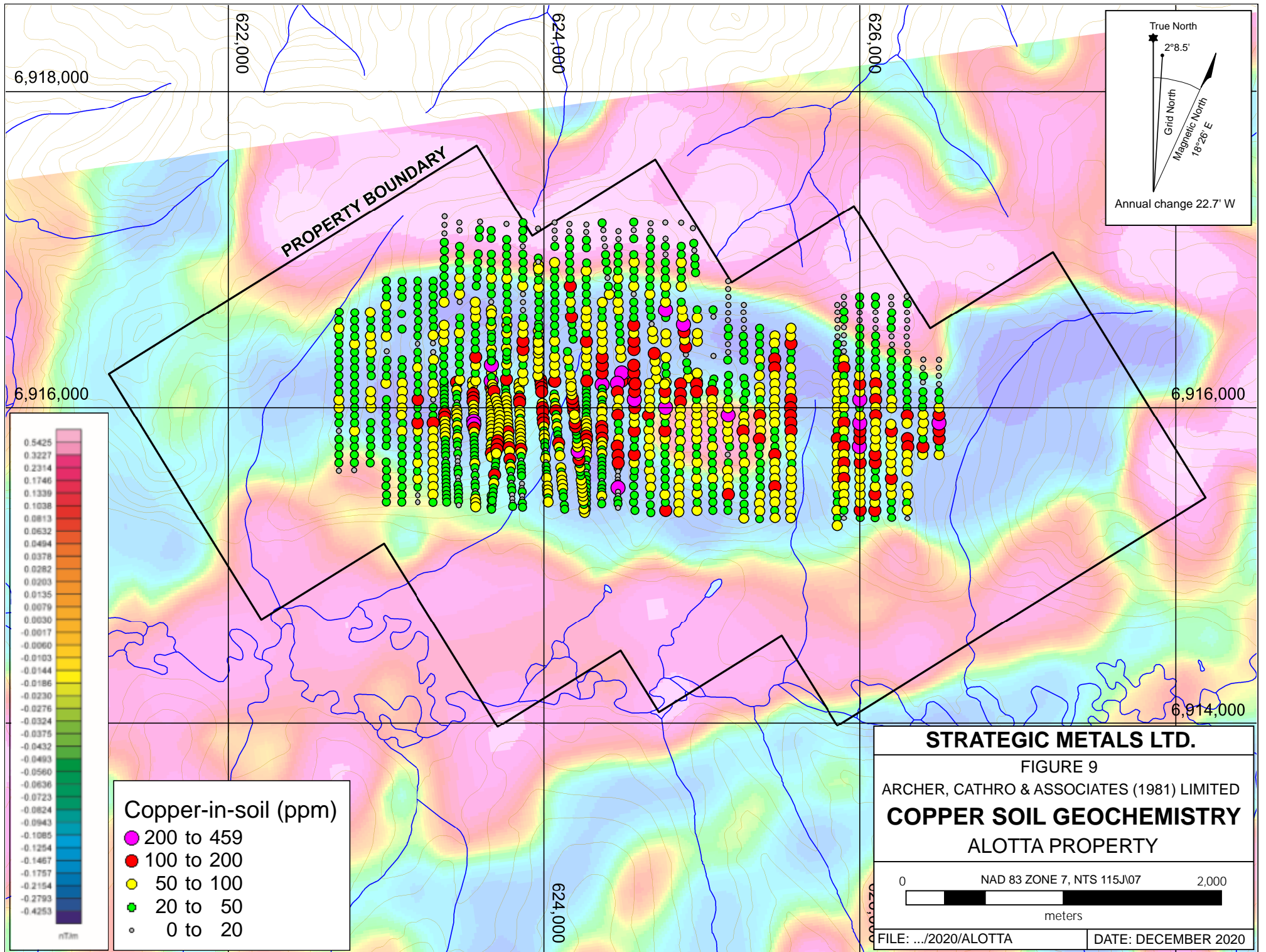
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**GOLD SOIL GEOCHEMISTRY**

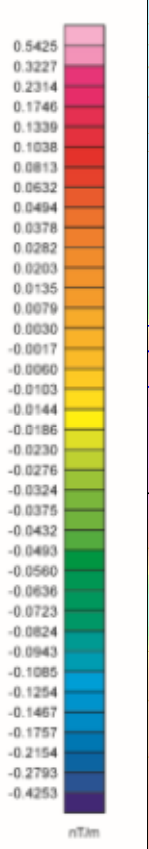
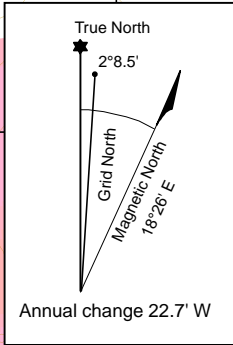
**ALOTTA PROPERTY**

0 NAD 83 ZONE 7, NTS 115J07 2,000  
 meters

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020



PROPERTY BOUNDARY



- Copper-in-soil (ppm)**
- 200 to 459
  - 100 to 200
  - 50 to 100
  - 20 to 50
  - 0 to 20

**STRATEGIC METALS LTD.**

FIGURE 9

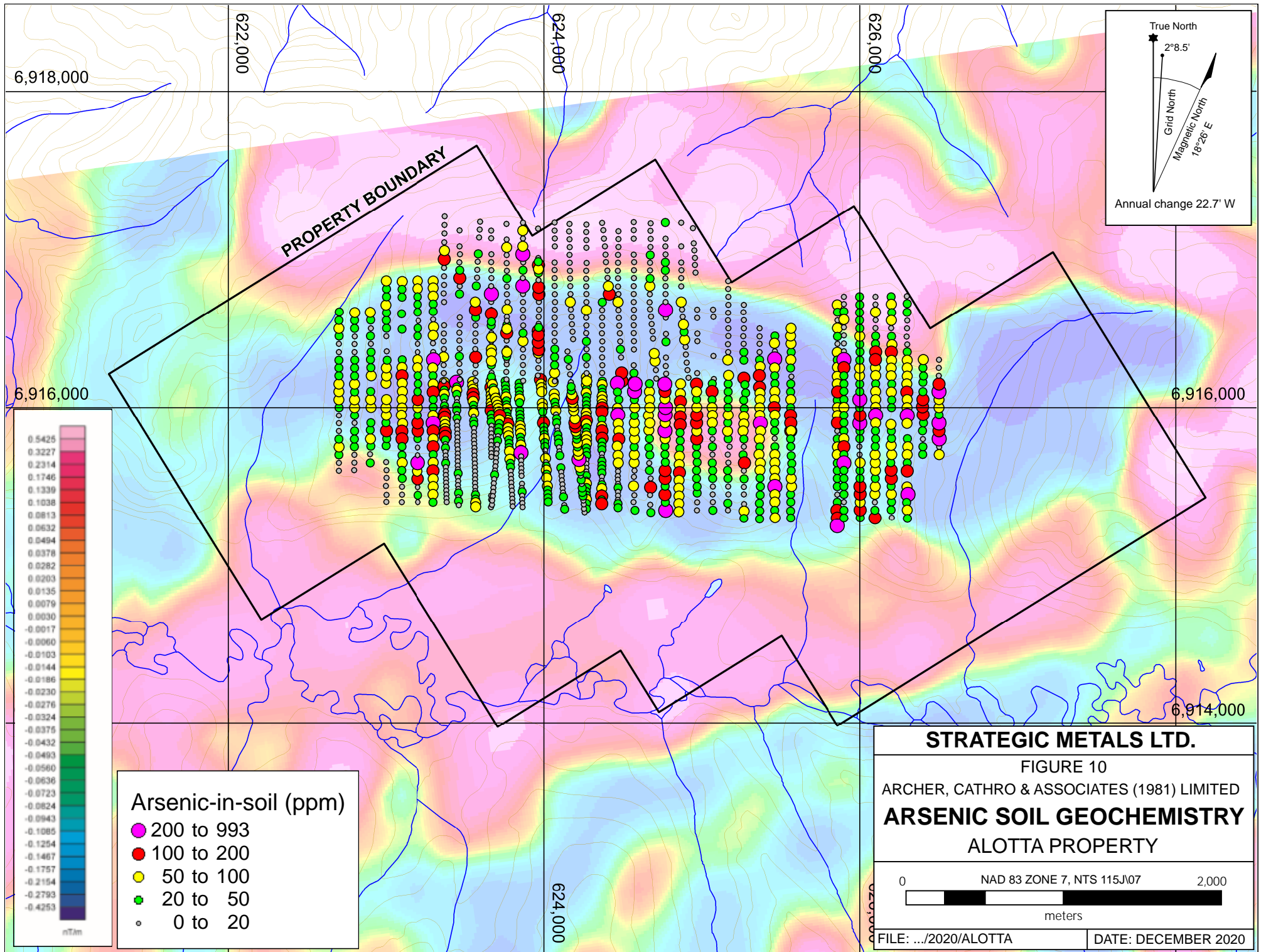
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COPPER SOIL GEOCHEMISTRY**

**ALOTTA PROPERTY**

0 NAD 83 ZONE 7, NTS 115J07 2,000  
 meters

FILE: .../2020/ALOTTA DATE: DECEMBER 2020



**Arsenic-in-soil (ppm)**

- 200 to 993
- 100 to 200
- 50 to 100
- 20 to 50
- 0 to 20

**STRATEGIC METALS LTD.**

FIGURE 10

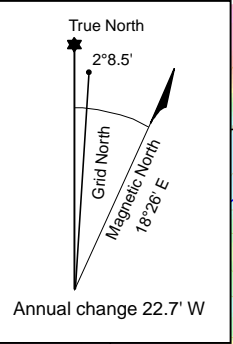
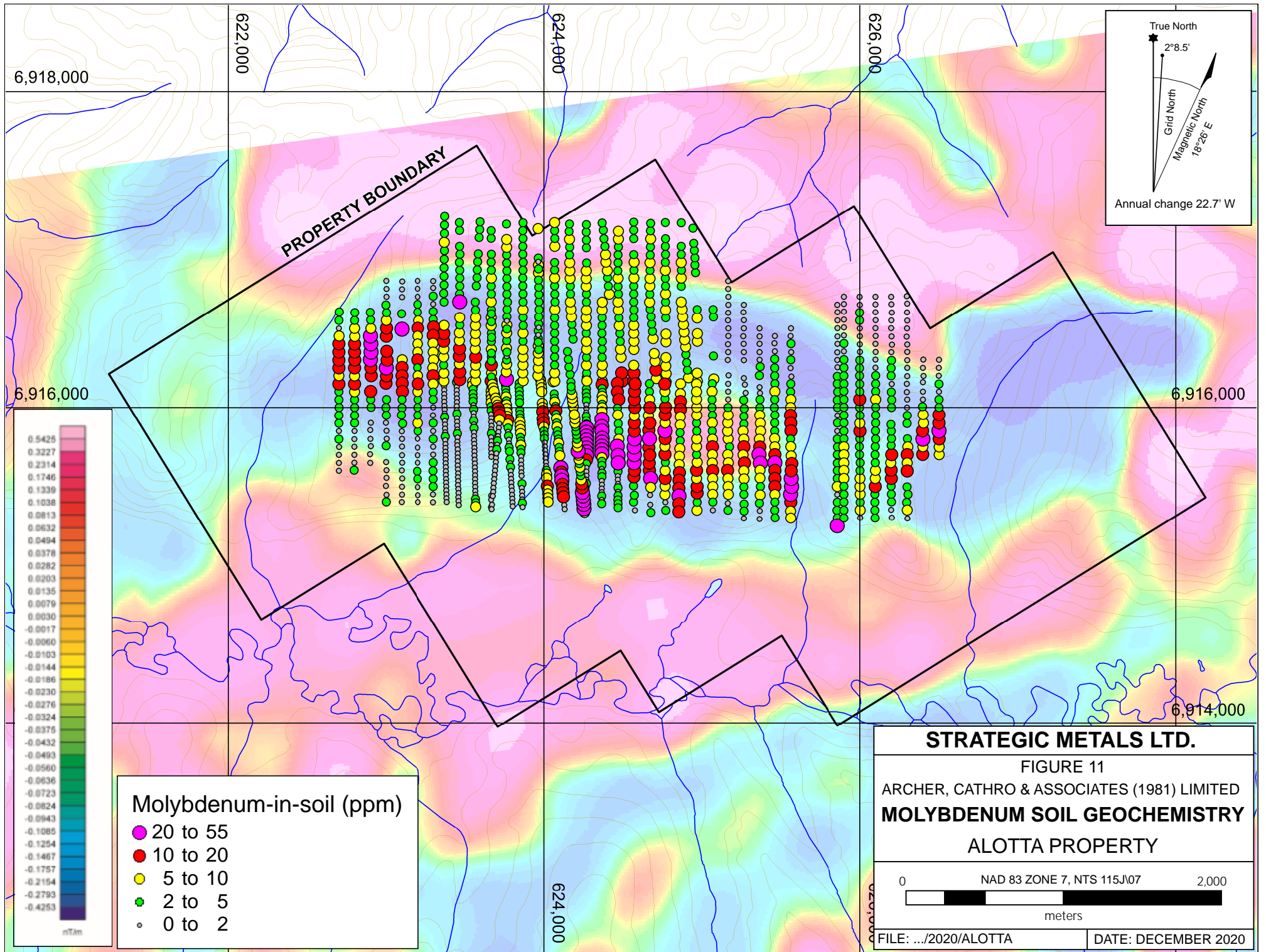
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ARSENIC SOIL GEOCHEMISTRY**

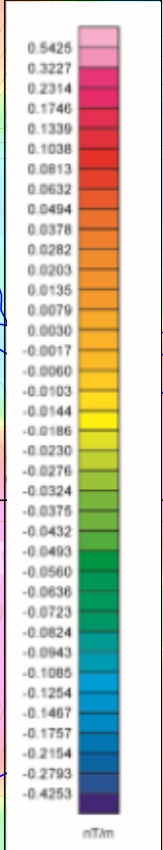
**ALOTTA PROPERTY**

0 NAD 83 ZONE 7, NTS 115J07 2,000  
 meters

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020



**PROPERTY BOUNDARY**



- Molybdenum-in-soil (ppm)**
- 20 to 55
  - 10 to 20
  - 5 to 10
  - 2 to 5
  - 0 to 2

**STRATEGIC METALS LTD.**

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**MOLYBDENUM SOIL GEOCHEMISTRY**

**ALOTTA PROPERTY**

0 NAD 83 ZONE 7, NTS 115J07 2,000  
 meters

FILE: .../2020/ALOTTA      DATE: DECEMBER 2020

dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma and atomic emission spectroscopy finish (Au-ICP21).

Anomalous thresholds and peak values for all soil samples collected to date on the property are listed in Table II.

**Table II – Soil Geochemical Thresholds**

Element	Anomalous Thresholds					
	Weak	Moderate	Strong	Very Strong	Historical Peak	2020 Peak
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100$	2680	389
Copper (ppm)	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200$	459	367
Molybdenum (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20$	55	27
Arsenic (ppm)	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200$	428	993

Soil sampling in 2020 was performed along north-south oriented sample lines, spaced 100 m apart. This work increased the size of the known multi-element soil anomaly to an area of approximately 4 by 1.7 km. Samples collected from the western part of the soil grid outlined highly anomalous gold values cored by a 1000 by 500 m area of strong molybdenum values, while samples from the eastern part of the soil grid show a broad area of strongly anomalous copper values with scattered but coincident gold and arsenic values and a northeasterly trending, 700 by 200 m area with highly elevated molybdenum values. Strongly elevated values for gold and molybdenum along the westernmost soil line and high gold, arsenic, copper and molybdenum values along the easternmost soil line indicate the anomaly remains open to the east and west.

## **DISCUSSION AND CONCLUSIONS**

The Alotta property lies near the northwestern end of the DRGB, a metallogenic belt that includes several orogenic gold, porphyry copper-molybdenum-gold and epithermal gold-silver deposits and occurrences. Work to date on the property has identified a broad area of strongly elevated gold, copper and molybdenum soil geochemistry. The soil anomaly is centered on a localized magnetic high that is surrounded by a relative magnetic low, which is enclosed by areas of much higher magnetism characteristic of the host granodiorite. The magnetic low may indicate a zone of magnetite destruction and sulphidation surrounding a potassic altered core. This type of magnetic signature and accompanying alteration are typical characteristics of porphyry-type deposits.

Several ages of porphyry mineralization occur within the DRGB including the Late Cretaceous Casino Suite (78-72 Ma), the Prospector Mountain Suite (72-68 Ma) and the Ruby Range Suite (65-52 Ma). Although exposure on the property is poor, several small outcrops and large boulders of porphyritic intrusive material found on the property resemble Casino Suite rocks observed at deposits in other parts of the DRGB (ex. Klaza, Casino and Revenue). An Ar/Ar age

of ~63 Ma from a felsic dyke near the Alotta property may suggest a Ruby Range Suite age for mineralization; however, it is unknown whether or not the dyke is associated with the mineralization.

The unglaciated nature of the Dawson Range often leads to thick overburden and/or permafrost cover, and the leaching of near-surface metals and indicator elements, which can hinder successful exploration. Even with these challenges, however, the Alotta property shows promise with favourable geochemical signatures and geophysical response.

Soil sampling to date has identified an approximately 4 long by 1.7 km wide gold-copper-arsenic-molybdenum soil geochemical anomaly, which remains open to the east and west. The geochemically anomaly is closely correlated with the magnetic low. Prospecting has been hampered by a lack of outcrop; however, rock samples collected from the property have yielded encouraging results consistent with porphyry-style mineralization. The best rock sample to date, collected in 2002 from the central part of the property, returned 1.21 g/t gold and 3491 ppm copper. Rock sampling in 2019 and 2020 successfully identified additional mineralized areas with up to 0.49 g/t gold, 166 ppm molybdenum and 275 ppm copper. Copper values in these areas range from near background to weakly elevated, however, this may be due to metal leaching because copper is much more mobile than gold or molybdenum.

Further work on the Alotta property is warranted and should include, but not be limited to:

- 1) 3D induced polarization surveying (3D IP) with equipment capable of measuring to at least 500 m depth, covering the entire area of the geochemical and magnetic anomaly.
- 2) Additional soil sampling to the east and west of the current geochemical grid to expand on the known multi-element soil geochemical anomaly. Power assisted soil sampling with the ability to reach bedrock may be required in some areas.
- 3) Hand trenching, mechanized trenching and/or rotary air-blast (RAB) drilling, in areas that have returned the strongest geochemical response.
- 4) Pending encouraging results, diamond drilling should be performed to determine the depth of oxidation and leaching, characterize alteration zonation and test for mineralization at depth.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Willms, B.Sc., GIT.

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 accessed: November 2020

**APPENDIX I**  
**STATEMENTS OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

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

1. I graduated from the University of British Columbia in 2017 with a B.Sc. in Earth and Environmental Sciences.
2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia, Canada; Nevada, United States of America and Mexico.
3. I am a Geologist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (License Number 208004).
4. I did not personally participated in the field work reported herein, but have interpreted all data resulting from this work.



K. Willms, B.Sc., GIT.

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



**Statement of Expenditures  
Alotta Property**

**Labour**

<b>Employee</b>	<b>Job Discription</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/Hr</b>	<b>Total</b>
Ed Lepp	Expeditior	8	July 2020 - October 2020	\$ 75.00	\$ 600.00
Heather Burrell	Project oversight, geo	43	July 2020 - October 2020	\$ 115.00	\$ 4,945.00
Jessie Gladish	Sample prep, labour	8	July 2020 - October 2020	\$ 68.00	\$ 544.00
Kieran Mcclenahan	Soil sampler, pit digger, labour	96	July 2020 - October 2020	\$ 54.00	\$ 5,184.00
Melissa Friend	Review rocks for sample subbmission, geo	32	July 2020 - October 2020	\$ 80.00	\$ 2,560.00
Sarah Shoniker	Soil sampler, pit digger, geo	99	July 2020 - October 2020	\$ 64.00	\$ 6,336.00
Tyson Brulotte	Expeditior, labour	3.5	July 2020 - October 2020	\$ 65.00	\$ 227.50

\$ 20,396.50

**Expenses**

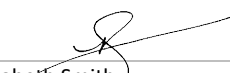
Room & board	\$180/night	\$ 5,520.00
Capital Helicopters, as attached		\$ 11,808.50
ALS Minerals, as attached		\$ 7,315.74
		<u>\$ 24,644.24</u>

**Report Writing Expenditures - Advancing YE30638-YE30657**

<b>Employee</b>	<b>Job Discription</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/Hr</b>	<b>Total</b>
Kelson Willms	Report Writer	32	November 2020 - December 2020	\$ 96.00	\$ 3,072.00
Scott Newman	Report Figures	6	November 2020 - December 2020	\$ 74.00	\$ 444.00

\$ 3,516.00

Total eligible expenditures submitted \$ 48,556.74

  
 Elizabeth Smith  
 January 18, 2021

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

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**Rock Sample Descriptions**

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Property: Alotta

Sample Number: W590951      Date Collected: 2020-07-28      UTM: 624859 mE      Nad83, Zone 7  
Elevation: 776 m      Sampler: Sara Shoniker      UTM: 6915682 mN

Comments: From soil sample (227 ppb) YY15955-3 Description: altered quartz-feldspar-biotite monzonite (?) with light orange-red to red brown oxidation and alteration of grains. Heavy and altered and weathers a light orange-brown. Plag crystals are light orange stained and finer grained than in the unaltered version; similar size as surrounding matrix whereas biotite grains are quite large and slightly altered to light brown. Biotite grains are roughly 0.5-2mm and sub-euhedral. Very oxidized and heavy.

---

Sample Number: W590952      Date Collected: 2020-07-28      UTM: 624858 mE      Nad83, Zone 7  
Elevation: 788 m      Sampler: Sara Shoniker      UTM: 6915588 mN

Comments: From soil sample YY15957-1 (184 ppb). Description: much less rock in pit, mostly soil that gets rockier/ sandier as you dig down. Coarse grains of altered biotite (and/or muscovite?) in soil. Rock is similar QFB porphyry/ monzonite with some cobbles of altered porphyry/monzonite as well (YY15957-1). Unaltered porphyry/monzonite is more green fresh surface; possibly more chlorite? Also has coarser plag crystals. As you dig lower in the pit get very crumbly coarse grained granodiorite that occurs mostly as pebble fragments (YY15957-2). Photos 4-6 shows pit looking NE with intrusive outcrop. YY15957-1 Description: Similar to YY15955-3. Some pitted texture on outside with oxidized orange-brown grains in matrix. Quartz phenos approximately 0.5cm in length, appears to be slightly smokey, biotite crystals are smaller grained although do occur as phenos as well. Biotite phenos are black to light brown in colour and show some alteration within the grains in altered rock. Altered monzonite in close contact with granodiorite.

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Sample Number: W590953      Date Collected: 2020-07-28      UTM: 624687 mE      Nad83, Zone 7  
Elevation: 788 m      Sampler: Sara Shoniker      UTM: 6915650 mN

Comments: Description : very light grey- almost white weathered fine-medium grained dark grey- blueish grey fresh siliceous feldspar porphyritic dacite (?). Dark brown- rust orange weathered sulphides within. Found as subcrop on small exposed knoll on walk back to camp. Photos 23 and 24 show subcrop looking to the E. Rock shows epidote staining and earthy medium brown weathering around some plag amygdules/ phenos. Have a fair bit of plag in matrix as well. Chlorite alteration of mafic minerals present and see unknown grey with blueish-green tinge mineral scattered through matrix as well (altered quartz?). Hard to distinguish cleavage. Rock is fairly siliceous; makes quartz-rich 'ping' when you hit it open with the hammer and is very hard to break. Weathered out pits on weathered surface and some on fresh surface with rust brown staining rimmed around. Some are infilled with earthy brown fine grained mineral on the fresh surface.

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**Rock Sample Descriptions**Property: Alotta

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Sample Number: W590954 Date Collected: 2020-07-28 UTM: 624859 mE Nad83, Zone 7  
Elevation: 789 m Sampler: Sara Shoniker UTM: 6915682 mN

Comments: From soil sample YY15955-1. Description: main lithology is grey-green quartz eye monzonite (?) with large biotite and plagioclase phenocrysts present throughout. Medium-coarse grained matrix with some rust orange-brown staining/ oxidation of possible pyrite (?). Some alteration to chlorite of biotite grains and possible fine grained metallic grey pyrite present in some samples.

---

Sample Number: W590955 Date Collected: 2020-08-28 UTM: 624859 mE Nad83, Zone 7  
Elevation: 789 m Sampler: Sara Shoniker UTM: 6915682 mN

Comments: From soil sample YY15955-2. Description: also see cobbles of fine grained green porphyritic dacite (?) or volcanic (? Is this too far south for Carmacks Grp volcanics?) with plagioclase phenocrysts approximately 1-2mm in length. Some hematite staining/ alteration within plagioclase grains. Weathers orange-brown and found in the upper section of pit near surface. Possibly not in place but occurs as random float. Fine grained pyrite/ sulphide visible within as well.

---

Sample Number: W590956 Date Collected: 2020-07-29 UTM: 624471 mE Nad83, Zone 7  
Elevation: 789 m Sampler: Sara Shoniker UTM: 6916154 mN

Comments: From soil sample YY13903-2 Description: light orange- grey brown weathered medium grained quartz eye monzonite? With visible pyrite and possibly chalcopyrite and other silvery metallic sulphides. Some red-brown to light orange staining within fresh surface. Some minor alteration of grains around rim of rock but inside is coherent with very clean edges.

---

Sample Number: W590957 Date Collected: 2020-08-29 UTM: 624666 mE Nad83, Zone 7  
Elevation: 788 m Sampler: Sara Shoniker UTM: 6915791 mN

Comments: From soil sample YY15983-2 Description: around unaltered siliceous rock is rim of red brown alteration and then the same monzonite? Looks leached and has more chlorite and possibly limonite alteration. Rust red staining seen throughout rock. Weathers lighter reddish-brown and is light yellow-orange brown to reddish grey fresh. Some visible sulphides present (py) within altered halo but mostly see red-brown weathered pits where sulphides used to be. There's a clear change in composition and weathering/ colour of fresh surface between this and rock just previously described. Appears to be the same rock but with more alteration in YY15983-2. Looks similar to other reps taken but with light red-orange staining and alteration of plagioclase and mafic minerals with chlorite (light yellow-green) as well as rust staining.

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**Rock Sample Descriptions**

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Property: Alotta

Sample Number: W590958      Date Collected: 2020-07-29      UTM: 624762 mE      Nad83, Zone 7  
Elevation: 785 m      Sampler: Sara Shoniker      UTM: 6915901 mN

Comments: From soil sample YY15974-1 Description: shows quartz vein cross cutting rock with pyrite on edges and red brown alteration rim. Very heavy. Matrix of rock is medium- coarse grained monzonite? Weathers red brown to orange grey brown and is grey-brown with red brown and light yellow orange staining on fresh surface. Plag crystals are light yellow-grey to light orange stained. Silicified dark grey with greenish blue tinge, possibly more siliceous version of host; lots of visible pyrite, some chalcopyrite. Light blueish-grey very fine grained metallic mineral (silvery pyrite?). Some orange weathering and dark red oxidized staining. Grains don't appear to be altered on edges, just very siliceous.

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Sample Number: W590959      Date Collected: 2020-07-29      UTM: 624768 mE      Nad83, Zone 7  
Elevation: 785 m      Sampler: Sara Shoniker      UTM: 6916006 mN

Comments: From soil sample YY15976 Description: light grey-brown to dark brown weathered with some light orange brown staining medium grained monzonite (?) similar to YY15974 and YY15983 except intensely silicified/ less visible individual grains. Some hematite staining and possible limonite? Yellow green alteration of plag crystals and green chlorite replacement. Also see dark green-black metallic mineral clusters with pyrite within and red-brown oxidation throughout. Some clusters of black mineral have light red- yellow rim around them. Small fragment of less red-brown stained grey-green siliceous monzonite? That typically hosts most visible sulphides at previous stations and has broader rim of red hematite (?) staining through mineral grains around it. Photos 17-19 of pit taken looking E.

---

Sample Number: W590960      Date Collected: 2020-07-30      UTM: 624762 mE      Nad83, Zone 7  
Elevation: 787 m      Sampler: Sara Shoniker      UTM: 6915851 mN

Comments: From soil sample YY15973-2 Description: grey- red brown weathered medium grained medium grey- light yellow green with red-orange oxidation and some light red hematite staining quartz eye monzonite. Heavily chloritized (possible epidote staining as well? Lighter yellow-green? Or is that just a reaction to chlorite from more felsic minerals?). Hematite staining around feldspars and rust orange-red weathering on more exposed weathered surface. Small quartz eyes relatively unaltered. See dark black earthy staining as well especially around piece that's more heavily silicified and very fine grained with abundant chlorite alteration. Some very fine grained pyrite visible but not a lot. Lots of 'pitted' black spots with light rust orange-brown oxidation around them on weathered surface. Difficult to make out individual grains of silicified sample as it's very fine grained. Visible silvery platy metallic sulphide in some samples but for most part not much visible sulphides present to naked eye. Small quartz veins cross cut some samples as well but are unaltered except for very thin rim of red brown alteration that rims both sides. Also see some pieces that are extremely 'leached' looking with possible sericite alteration (?). These pieces have some red brown hematite staining and are very heavy with visible silvery sulphide. Small hairline fractures throughout.

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**Rock Sample Descriptions**Property: Alotta

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Sample Number: W590961 Date Collected: 2020-08-02 UTM: 624398 mE Nad83, Zone 7  
Elevation: 788 m Sampler: Sara Shoniker UTM: 6916903 mN

Comments: From Handpit 1 (SK001 in notes) Description: leaving Handpit 1 (E: 624391 N: 6916917) came across old soil picket so decided to dig small pit there. Handpit 1 rock was very unaltered granodiorite, coarse grained with large biotite and hornblende. SK001 is similar granodiorite but slightly more altered. Weathers dark rust brown with light orange-red staining. Fresh surface is salt-and-pepper with light yellow-orange staining. Chlorite and epidote alteration of hornblende and biotite grains. Hornblende shows more alteration whereas biotite is still pretty fresh looking in most samples (possibly secondary biotite grains?). Some dark rust red-brown staining/ alteration of hornblende. Minor hematite in some plag grains as well. Quartz grains are slightly smokey. Photos 16 and 17 show pit taken looking NW

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Sample Number: W590962 Date Collected: 2020-08-02 UTM: 624883 mE Nad83, Zone 7  
Elevation: 787 m Sampler: Sara Shoniker UTM: 6916524 mN

Comments: From Handpit 6 (SK006-5 in notes) Description: almost coarser grained version of above monzonite and more altered version of SK006-2B. visible contact with granodiorite in hand specimen. Pyrite and chalcopyrite visible throughout. Outer surface has dark rust red staining and light greenish-white alteration in matrix (limonitic?). quartz and plag phenos are about 0.10cm and tarnished biotite grains roughly that size visible as well. Rock is heavy, with some pieces having brick red- orange to black earthy staining throughout. Contact with granodiorite is clearly defined but doesn't seem 'sharp'... slightly mixed at edges? Thin dull rust red line goes along contact showing slight alteration of grains. Very silicified monzonite.

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Sample Number: W590963 Date Collected: 2020-08-02 UTM: 624883 mE Nad83, Zone 7  
Elevation: 786 m Sampler: Sara Shoniker UTM: 6916486 mN

Comments: Float sample found en route to camp at base of hill (SSRock5 in notes) Description: float/ subcrop of dark red-brown weathered dark red-brown to orange brown fresh medium-coarse grained granodiorite with possibly some fine grained purple-grey porphyry? Very heavy with lots of dark rust red- purple red staining throughout matrix and visible pyrite. Hornblende grains are slightly altered but have very fresh looking biotite grains within. Oxidized sulphides weathered out on weathered surface

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**Rock Sample Descriptions**Property: Alotta

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Sample Number: W590964 Date Collected: 2020-08-03 UTM: 624170 mE Nad83, Zone 7  
Elevation: 788 m Sampler: Sara Shoniker UTM: 6916776 mN

Comments: From Handpit 9 (SK010-1 in notes) Description: heavily altered granodiorite. Red-orange brown weathered, light yellow green – yellow orange fresh heavily silicified. Dark purple-grey to red orange staining. Silicified pieces are medium blue-grey (similar to SK006-4) with light yellow-green chlorite alteration. Hornblende grains are replaced and altered whereas biotite grains appear fresh and medium-grain sized. Visible pyrite, minor chalcopyrite throughout. Quartz is very smokey. Possible thin hairline fractures (or silicified quartz veins?) in some samples. Infill is medium grey but it's difficult to tell if it's 'vein'/ other mineral or just a change in the overall siliceous composition. Dark red-brown to almost black staining in weathered areas. Some tarnished light brown biotite grains are visible as well in some samples

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Sample Number: W590965 Date Collected: 2020-08-03 UTM: 624170 mE Nad83, Zone 7  
Elevation: 788 m Sampler: Sara Shoniker UTM: 6916776 mN

Comments: From Handpit 9 (SK010-2 in notes) Description: dark red-brown weathered dark grey fine-medium grained siliceous quart-feldspar-mica (biotite and/or muscovite?) porphyritic dacite (?). similar to SSRock4 but with large clear-white (roughly 0.10cm) muscovite grains (sometimes biotite grains, depending on sample?). ~3% disseminate very fine grained silvery pyrite throughout rock. 'oily' black mineral/ alteration with dark red brown halo on weathered edge of some pieces, as well as earthy orange-brown oxidation in areas. Small hairline fractures with chocolate brown infill and red-brown alteration around margins on exposed surface. Chlorite alteration in matrix gives slight green-grey tinge. Minor bright red hematite visible as well. More silicified than previously seen although can still make out individual grains in matrix. Photos 62 and 63 show pit looking NW.

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



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

To: STRATEGIC METALS LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981)  
LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 1  
Total # Pages: 2 (A - C)  
Plus Appendix Pages  
Finalized Date: 9-SEP-2020  
Account: MTT

**CERTIFICATE WH20168513**

Project: ALOTTA

This report is for 15 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL  
JACK MORTON

MATT DUMALA  
SCOTT NEWMAN

STEVE ISRAEL  
LIZ SMITH

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize 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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**CERTIFICATE OF ANALYSIS WH20168513**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W590951		1.04	0.015	<0.2	1.39	9	<10	70	<0.5	2	0.67	<0.5	4	5	55	3.04
W590952		2.29	0.005	<0.2	1.26	5	<10	80	<0.5	<2	0.46	<0.5	2	5	16	2.98
W590953		1.53	<0.001	<0.2	2.27	<2	<10	100	1.4	<2	2.22	<0.5	12	24	8	5.11
W590954		1.00	0.013	0.2	1.01	2	<10	90	<0.5	<2	0.78	<0.5	2	5	11	2.58
W590955		1.32	<0.001	<0.2	2.74	<2	<10	60	0.7	<2	3.17	<0.5	14	5	4	6.57
W590956		2.50	0.065	0.4	2.45	16	<10	110	0.8	<2	1.23	0.9	7	7	182	3.72
W590957		1.45	0.028	0.2	1.12	3	<10	60	<0.5	<2	0.38	<0.5	6	5	145	2.15
W590958		1.36	0.060	0.2	1.46	18	<10	80	0.5	<2	0.60	0.6	4	7	79	3.23
W590959		1.75	0.244	0.4	0.89	21	<10	70	0.6	<2	1.22	1.2	2	6	70	1.62
W590960		2.27	0.076	0.2	1.03	14	<10	90	0.6	<2	0.26	0.5	3	4	47	1.81
W590961		1.88	0.002	0.2	1.91	6	<10	350	<0.5	3	0.74	<0.5	9	11	7	3.40
W590962		2.27	0.021	0.4	2.02	20	<10	100	0.6	3	1.08	0.5	7	8	134	4.41
W590963		1.67	0.364	0.8	2.32	11	<10	360	<0.5	<2	1.05	0.6	8	10	275	3.98
W590964		2.66	0.168	1.1	2.04	20	<10	220	<0.5	16	0.59	1.6	11	10	184	4.02
W590965		4.08	0.003	0.3	2.82	7	<10	280	1.0	<2	3.51	0.6	20	45	15	6.26



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**CERTIFICATE OF ANALYSIS WH20168513**

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 ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W590951		10	<1	0.13	10	0.69	217	16	0.07	2	840	6	0.05	<2	5	32
W590952		10	<1	0.16	10	0.57	390	3	0.04	3	740	5	0.01	<2	4	17
W590953		10	1	0.18	10	1.75	841	1	0.14	4	2640	<2	0.01	<2	7	125
W590954		10	<1	0.13	10	0.37	292	12	0.10	2	870	9	0.11	<2	2	31
W590955		10	1	0.09	20	1.98	1255	1	0.03	2	2850	<2	0.02	3	11	143
W590956		10	<1	0.26	10	0.75	197	5	0.23	4	640	16	0.62	<2	4	76
W590957		<10	<1	0.19	10	0.44	151	11	0.06	3	400	9	0.28	<2	3	47
W590958		10	<1	0.19	10	0.59	225	14	0.07	3	480	8	0.21	<2	4	23
W590959		<10	<1	0.22	10	0.28	195	16	0.06	3	400	13	0.11	<2	2	32
W590960		<10	<1	0.21	10	0.33	124	11	0.05	2	500	11	0.01	<2	3	15
W590961		10	<1	0.23	20	1.04	668	<1	0.14	4	630	10	0.04	<2	6	43
W590962		10	<1	0.14	10	0.96	284	5	0.07	5	800	9	0.38	<2	8	22
W590963		10	<1	0.46	10	1.19	237	2	0.17	3	600	11	0.42	3	12	45
W590964		10	<1	0.22	20	1.18	569	1	0.12	4	640	8	0.46	<2	8	33
W590965		10	<1	0.15	20	2.73	1145	1	0.08	12	2260	9	0.24	<2	17	117

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



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CERTIFICATE OF ANALYSIS WH20168513
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Sample Description	Method Analyte Units LOD	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		20	0.01	10	10	1	10	2
W590951		<20	0.18	<10	<10	49	<10	32
W590952		<20	0.08	<10	<10	42	<10	65
W590953		<20	0.30	<10	<10	108	<10	68
W590954		<20	0.15	<10	<10	39	<10	57
W590955		<20	0.26	<10	<10	134	<10	85
W590956		<20	0.12	<10	<10	36	<10	67
W590957		<20	0.05	<10	<10	19	<10	42
W590958		<20	0.14	<10	<10	35	<10	59
W590959		<20	0.01	<10	<10	13	<10	60
W590960		<20	0.01	<10	<10	16	<10	51
W590961		<20	0.23	<10	<10	84	<10	93
W590962		<20	0.20	<10	<10	74	<10	69
W590963		<20	0.27	<10	<10	100	<10	73
W590964		<20	0.15	<10	<10	89	<10	162
W590965		<20	0.53	<10	<10	230	<10	109





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**CERTIFICATE OF ANALYSIS WH20168513**

**CERTIFICATE COMMENTS**

**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-ICP41		



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**CERTIFICATE WH20168518**

Project: ALOTTA

This report is for 337 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

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.

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**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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**CERTIFICATE OF ANALYSIS WH20168518**

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY07551		0.56	0.009	0.3	2.70	21	<10	290	0.5	2	0.44	<0.5	11	33	22	3.59
YY07552		0.53	0.014	<0.2	2.32	29	<10	300	0.5	<2	0.54	0.7	12	33	21	3.64
YY07553		0.46	0.031	1.5	2.95	94	<10	380	0.8	3	0.40	2.2	13	39	39	4.38
YY07554		0.54	0.011	0.5	3.16	23	<10	340	0.6	<2	0.33	0.7	12	39	24	3.89
YY07555		0.44	0.010	<0.2	2.58	28	<10	130	<0.5	<2	0.19	0.9	7	29	15	4.72
YY07556		0.45	0.009	0.3	2.29	33	<10	190	<0.5	<2	0.47	2.3	11	24	14	3.36
YY07557		0.53	0.009	0.6	2.78	23	<10	360	0.7	2	0.62	0.8	12	40	32	3.73
YY07558		0.51	0.013	1.8	2.43	34	<10	380	0.6	3	0.68	3.3	12	37	47	3.88
YY07559		0.53	0.008	0.5	2.35	18	<10	350	0.5	2	0.71	0.7	12	33	24	3.05
YY07560		0.47	0.008	0.2	2.41	19	<10	340	0.5	2	0.50	<0.5	10	38	29	3.52
YY07561		0.61	0.031	0.3	2.55	56	<10	330	0.5	<2	0.40	0.9	11	36	19	3.72
YY07562		0.37	0.004	0.5	3.06	17	<10	160	0.5	<2	0.25	1.4	11	36	15	3.27
YY07563		0.42	0.003	0.3	1.79	10	<10	210	<0.5	<2	0.23	2.1	8	24	11	2.47
YY07564		0.39	0.006	0.6	3.71	38	<10	380	0.6	<2	0.41	1.4	15	31	23	4.23
YY07565		0.39	0.008	0.3	3.24	37	<10	360	0.5	2	0.36	1.0	13	31	20	4.26
YY07566		0.45	0.029	2.0	3.46	139	<10	430	0.7	5	0.92	2.6	13	31	33	4.57
YY07567		0.35	0.008	0.7	3.20	63	<10	400	0.6	3	0.78	0.7	13	32	30	4.18
YY07568		0.45	0.025	1.0	2.42	125	<10	350	0.5	3	0.88	0.6	13	29	46	3.07
YY07569		0.39	0.029	1.0	3.11	88	<10	450	0.6	4	0.93	0.5	17	27	94	5.03
YY07570		0.39	0.014	0.4	3.60	35	<10	470	0.9	2	0.59	<0.5	21	23	107	7.06
YY07571		0.36	0.056	0.9	2.57	61	<10	280	0.6	3	0.93	<0.5	14	26	99	4.83
YY07572		0.37	0.014	1.2	4.08	64	<10	300	0.7	3	0.46	0.8	21	25	166	7.50
YY07573		0.42	0.022	0.4	2.94	84	<10	250	0.6	3	0.46	<0.5	13	30	81	4.51
YY07574		0.42	0.101	0.6	2.99	259	<10	260	0.7	3	0.79	0.8	15	22	198	6.34
YY07575		0.43	0.021	0.6	2.40	51	<10	240	0.5	<2	0.76	<0.5	10	27	63	3.60
YY07576		0.36	0.016	0.3	2.65	106	<10	160	0.7	2	0.48	<0.5	14	36	41	4.64
YY07577		0.42	0.009	0.4	3.99	31	<10	150	0.9	2	0.52	<0.5	17	40	155	6.60
YY07578		0.35	0.009	0.6	3.67	15	<10	210	0.7	<2	0.33	<0.5	16	33	59	4.79
YY07579		0.36	0.005	0.3	3.47	62	<10	260	0.8	<2	0.46	<0.5	13	11	144	5.76
YY07580		0.39	0.021	0.2	2.61	53	<10	250	0.7	<2	0.43	<0.5	13	26	58	4.36
YY07581		0.40	0.008	0.4	3.44	20	<10	200	0.5	4	0.20	<0.5	14	32	33	4.11
YY07582		0.42	0.003	0.2	2.44	55	<10	100	0.7	<2	0.26	<0.5	11	21	46	4.36
YY07583		0.38	0.035	1.3	3.56	69	<10	310	0.6	3	0.48	0.9	18	29	186	6.06
YY07584		0.39	0.022	0.8	4.80	62	<10	410	0.8	4	0.64	<0.5	15	25	178	8.30
YY07585		0.44	0.027	0.3	3.15	48	<10	340	0.6	<2	0.44	<0.5	12	29	79	4.99
YY07586		0.41	0.051	0.7	2.66	49	<10	180	0.6	<2	0.42	<0.5	11	31	91	4.28
YY07587		0.39	0.014	0.9	2.25	33	<10	190	<0.5	2	0.39	0.7	8	26	78	4.32
YY07588		0.36	0.036	0.8	2.07	70	<10	180	<0.5	2	1.33	0.6	10	20	50	3.43
YY07589		0.44	0.005	0.8	3.01	19	<10	130	0.6	<2	0.39	<0.5	10	31	45	4.15
YY07590		0.40	0.012	0.2	2.14	217	<10	110	0.8	<2	0.38	<0.5	8	15	177	4.28



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**CERTIFICATE OF ANALYSIS WH20168518**

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 ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
YY07551		10	<1	0.08	10	0.72	455	1	0.02	23	350	12	0.01	<2	5	40
YY07552		10	<1	0.12	20	0.92	567	1	0.02	21	530	11	0.01	3	7	54
YY07553		10	1	0.14	20	0.75	667	1	0.02	24	380	53	0.05	<2	8	34
YY07554		10	<1	0.11	20	0.74	487	1	0.02	28	340	31	0.01	2	7	25
YY07555		10	<1	0.08	10	0.55	286	2	0.01	14	340	28	0.01	<2	4	19
YY07556		10	<1	0.10	10	0.60	607	2	0.01	12	450	64	0.01	2	4	44
YY07557		10	<1	0.11	30	0.72	713	1	0.02	25	530	41	0.01	2	9	42
YY07558		10	1	0.19	30	0.78	512	1	0.03	31	840	71	0.03	2	10	45
YY07559		10	<1	0.09	20	0.69	590	1	0.02	19	760	33	0.02	<2	6	41
YY07560		10	1	0.12	20	0.76	457	1	0.02	22	510	23	0.01	<2	9	37
YY07561		10	1	0.10	20	0.77	644	1	0.02	21	320	43	0.01	<2	8	33
YY07562		10	<1	0.06	10	0.59	254	1	0.01	23	480	14	0.02	<2	5	20
YY07563		10	<1	0.07	10	0.41	873	1	0.01	12	260	19	0.01	<2	3	22
YY07564		10	1	0.14	10	0.88	566	1	0.02	26	370	55	0.02	<2	6	53
YY07565		10	<1	0.18	10	0.86	461	1	0.02	22	380	28	0.02	<2	6	37
YY07566		10	<1	0.21	20	0.72	928	1	0.02	19	730	58	0.08	2	8	66
YY07567		10	<1	0.17	20	0.84	588	1	0.02	21	500	14	0.02	<2	7	54
YY07568		10	1	0.09	20	0.65	697	1	0.02	18	860	23	0.05	2	6	51
YY07569		10	1	0.36	20	1.10	720	2	0.03	17	690	15	0.04	2	8	52
YY07570		10	<1	0.42	20	1.60	837	2	0.04	12	770	18	<0.01	2	12	36
YY07571		10	<1	0.23	30	1.07	516	3	0.03	14	880	16	0.02	3	11	54
YY07572		10	<1	0.20	10	1.33	626	5	0.02	20	470	33	0.04	4	11	41
YY07573		10	<1	0.13	20	0.97	332	3	0.02	21	300	17	0.01	3	7	43
YY07574		10	<1	0.23	20	1.17	484	4	0.02	15	670	41	0.03	6	11	54
YY07575		10	<1	0.13	10	0.80	334	3	0.02	17	580	13	0.01	<2	6	43
YY07576		10	<1	0.15	30	1.05	463	2	0.02	21	380	9	0.01	3	10	34
YY07577		10	<1	0.13	20	1.24	298	3	0.02	23	360	13	0.04	3	12	48
YY07578		10	<1	0.10	10	0.83	409	2	0.01	23	450	10	0.01	3	6	31
YY07579		10	1	0.17	20	1.33	393	2	0.02	10	780	8	0.01	3	9	44
YY07580		10	<1	0.19	20	0.95	610	13	0.01	19	730	13	0.01	<2	8	30
YY07581		10	<1	0.12	10	0.75	284	9	0.01	23	300	10	0.01	2	6	20
YY07582		10	<1	0.08	10	0.72	595	9	0.01	13	250	15	0.01	3	5	20
YY07583		10	1	0.42	10	1.33	482	4	0.03	18	460	17	0.01	3	11	25
YY07584		20	<1	0.63	20	1.79	522	3	0.03	15	390	23	0.01	4	14	39
YY07585		10	<1	0.30	10	1.01	433	2	0.03	19	310	14	0.01	2	8	36
YY07586		10	<1	0.22	10	0.88	364	2	0.02	20	200	17	0.01	2	8	31
YY07587		10	<1	0.25	10	0.78	343	3	0.01	16	420	13	0.01	3	6	31
YY07588		10	<1	0.17	20	0.74	448	5	0.02	13	710	12	0.07	<2	6	63
YY07589		10	<1	0.13	10	0.84	226	8	0.01	19	200	11	0.01	3	7	31
YY07590		10	<1	0.14	30	0.83	231	19	0.02	9	430	15	0.01	3	9	42

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



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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
YY07551		<20	0.13	<10	<10	88	<10	78
YY07552		<20	0.18	<10	<10	88	<10	153
YY07553		<20	0.09	<10	<10	84	<10	299
YY07554		<20	0.11	<10	<10	84	<10	151
YY07555		<20	0.16	<10	<10	122	<10	106
YY07556		<20	0.17	<10	<10	96	<10	207
YY07557		<20	0.12	<10	<10	84	<10	169
YY07558		<20	0.15	<10	<10	84	<10	256
YY07559		<20	0.14	<10	<10	71	<10	112
YY07560		<20	0.16	<10	<10	82	<10	102
YY07561		<20	0.13	<10	<10	83	<10	189
YY07562		<20	0.12	<10	<10	72	<10	78
YY07563		<20	0.12	<10	<10	77	<10	113
YY07564		<20	0.15	<10	<10	92	<10	249
YY07565		<20	0.17	<10	<10	97	<10	175
YY07566		<20	0.09	<10	<10	87	<10	394
YY07567		<20	0.17	<10	<10	99	<10	135
YY07568		<20	0.09	<10	<10	67	<10	85
YY07569		<20	0.23	<10	<10	114	<10	115
YY07570		<20	0.34	<10	<10	175	<10	128
YY07571		<20	0.19	<10	<10	111	<10	102
YY07572		<20	0.22	<10	<10	147	<10	112
YY07573		<20	0.14	<10	<10	96	<10	91
YY07574		<20	0.14	<10	<10	108	<10	180
YY07575		<20	0.17	<10	<10	82	<10	80
YY07576		<20	0.15	<10	<10	109	<10	65
YY07577		<20	0.22	<10	<10	137	<10	67
YY07578		<20	0.17	<10	<10	108	<10	99
YY07579		<20	0.12	<10	<10	135	<10	69
YY07580		<20	0.10	<10	<10	100	<10	80
YY07581		<20	0.13	<10	<10	92	<10	53
YY07582		<20	0.09	<10	<10	71	<10	83
YY07583		<20	0.30	<10	<10	137	<10	131
YY07584		<20	0.47	<10	<10	188	<10	152
YY07585		<20	0.17	<10	<10	104	<10	115
YY07586		<20	0.13	<10	<10	89	<10	103
YY07587		<20	0.19	<10	<10	108	<10	106
YY07588		<20	0.12	<10	<10	76	<10	103
YY07589		<20	0.14	<10	<10	93	<10	55
YY07590		<20	0.11	<10	<10	75	<10	96



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**CERTIFICATE OF ANALYSIS WH20168518**

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOD		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY07591		0.44	0.026	0.4	2.56	123	<10	90	0.8	3	0.54	<0.5	11	23	178	4.88
YY07592		0.40	0.007	0.3	3.39	294	<10	110	0.9	3	0.49	<0.5	12	14	213	5.29
YY07593		0.36	0.072	0.3	2.93	42	<10	120	0.7	2	0.55	<0.5	8	11	156	4.59
YY07594		0.37	0.007	0.3	3.80	59	<10	300	0.7	<2	0.38	<0.5	16	28	81	5.46
YY07595		0.38	0.001	1.0	3.67	73	<10	250	0.7	2	0.21	0.5	16	17	49	4.64
YY07596		0.42	0.006	0.5	2.54	330	<10	340	0.6	4	0.38	1.6	11	13	26	4.23
YY07597		0.41	0.005	0.2	2.88	112	<10	120	<0.5	<2	0.91	<0.5	7	13	7	3.43
YY07599		0.41	0.006	0.3	3.29	14	<10	180	0.6	<2	1.55	1.1	9	19	12	3.07
YY07600		0.38	0.002	0.4	2.32	12	<10	170	<0.5	<2	0.45	1.1	10	27	14	3.36
YY07601		0.43	0.005	0.2	2.12	19	<10	250	<0.5	<2	0.54	1.6	12	23	12	3.56
YY07602		0.43	0.005	0.2	2.32	17	<10	300	<0.5	<2	0.54	2.6	11	27	14	3.60
YY07603		0.54	0.014	0.3	2.11	23	<10	230	<0.5	<2	0.55	1.7	10	33	23	3.23
YY07604		0.51	0.042	1.3	2.85	80	<10	330	0.7	2	0.64	8.9	12	29	30	4.54
YY07605		0.34	0.004	0.3	1.53	10	<10	150	<0.5	<2	0.22	1.4	5	20	13	2.22
YY07606		0.34	0.003	0.3	1.50	16	<10	150	<0.5	<2	0.25	0.9	6	20	12	2.18
YY07607		0.29	0.013	0.4	1.64	14	<10	170	<0.5	<2	0.17	0.6	4	21	11	2.40
YY07608		0.28	0.004	0.4	0.77	4	<10	120	<0.5	<2	0.28	1.0	2	12	19	0.91
YY07609		0.38	0.040	1.0	3.10	318	<10	230	0.6	5	1.19	0.6	14	14	96	4.07
YY07610		0.41	0.142	1.3	1.90	145	<10	120	0.7	2	0.26	1.3	15	26	107	4.66
YY07611		0.35	0.011	1.3	2.93	43	<10	210	0.6	3	0.28	0.7	14	38	30	3.91
YY07612		0.50	0.054	0.4	3.09	48	<10	270	0.6	3	0.28	<0.5	15	36	61	3.71
YY07613		0.47	0.034	0.3	2.70	43	<10	270	0.5	2	0.38	<0.5	13	35	60	3.93
YY07614		0.42	0.006	<0.2	3.14	23	<10	240	0.5	2	0.24	<0.5	12	36	43	3.68
YY07615		0.46	0.021	0.2	3.08	88	<10	220	0.6	4	0.40	<0.5	12	35	64	4.23
YY07616		0.41	0.008	0.7	1.93	38	<10	160	<0.5	<2	0.30	0.7	10	29	31	3.03
YY07617		0.46	0.032	0.3	3.05	23	<10	280	0.6	2	0.55	<0.5	12	38	114	4.98
YY07618		0.37	0.056	0.8	2.46	27	<10	180	0.5	3	0.52	1.2	10	21	70	3.78
YY07619		0.38	0.010	0.7	2.26	59	<10	100	0.6	<2	0.17	<0.5	10	26	44	3.52
YY07620		0.46	0.048	0.3	3.19	156	<10	180	0.7	5	0.50	0.5	12	22	124	5.43
YY07621		0.43	0.005	0.8	3.80	29	<10	200	0.6	2	0.86	0.8	13	28	64	4.71
YY07622		0.38	0.145	0.6	4.14	242	<10	340	0.7	6	0.66	<0.5	17	27	156	7.36
YY07623		0.35	0.003	0.4	2.27	20	<10	210	<0.5	<2	0.44	0.5	10	23	56	4.21
YY07624		0.40	0.045	0.4	3.69	37	<10	260	0.7	4	0.93	0.5	13	26	114	5.63
YY07625		0.39	0.008	0.4	2.08	42	<10	140	0.5	2	0.57	<0.5	10	28	54	3.38
YY07626		0.40	0.014	0.2	2.40	29	<10	220	0.5	3	0.68	<0.5	12	32	56	4.33
YY07627		0.35	0.009	0.2	3.57	19	<10	410	0.5	2	0.34	<0.5	15	29	83	4.88
YY07628		0.49	0.002	0.4	2.63	48	<10	220	0.6	4	0.34	<0.5	13	33	46	4.28
YY07629		0.38	<0.001	0.2	2.94	26	<10	400	0.6	3	0.74	<0.5	15	16	13	5.49
YY07630		0.41	0.007	0.2	2.87	31	<10	230	0.6	2	0.42	<0.5	14	33	37	5.17
YY07631		0.39	0.014	0.2	2.65	127	<10	120	0.8	3	0.42	<0.5	14	29	115	5.68



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Sample Description	Method Analyte Units Units Units Units Units Units Units Units Units Units Units Units Units Units Units Units															
	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	ME-ICP41	ME-ICP41
	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	LOD
	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
YY07591	10	1	0.11	20	0.92	310	20	0.02	16	240	9	0.01	2	10	69	
YY07592	10	<1	0.09	20	1.10	250	18	0.02	10	210	8	0.01	5	8	52	
YY07593	10	<1	0.13	10	0.80	154	15	0.01	7	270	12	0.01	2	7	44	
YY07594	10	<1	0.14	10	1.01	407	2	0.02	20	580	15	0.01	4	8	37	
YY07595	10	<1	0.19	10	0.74	319	2	0.01	10	630	18	0.02	5	8	19	
YY07596	10	1	0.19	10	0.77	748	1	0.02	9	390	25	0.02	6	6	37	
YY07597	10	<1	0.13	20	0.40	359	3	0.01	10	490	12	0.01	2	3	79	
YY07599	10	1	0.15	10	0.74	619	1	0.02	12	640	13	<0.01	2	8	136	
YY07600	10	<1	0.08	10	0.60	526	1	0.01	18	260	19	0.01	2	4	31	
YY07601	10	<1	0.18	10	0.86	685	1	0.02	14	590	42	0.02	2	5	34	
YY07602	10	<1	0.21	10	0.85	678	1	0.02	17	590	50	0.01	2	5	37	
YY07603	10	1	0.12	10	0.75	541	1	0.02	18	690	40	0.02	2	6	37	
YY07604	10	<1	0.18	20	0.73	862	1	0.03	17	780	149	0.12	<2	9	62	
YY07605	10	1	0.04	10	0.25	251	1	0.01	9	270	15	0.02	<2	2	21	
YY07606	10	<1	0.06	10	0.31	162	1	0.01	12	330	11	0.02	<2	2	25	
YY07607	10	<1	0.05	10	0.27	208	2	0.01	11	360	12	0.02	2	2	17	
YY07608	<10	<1	0.05	10	0.14	80	1	0.01	8	270	9	0.02	<2	1	27	
YY07609	10	<1	0.17	10	0.74	554	2	0.01	10	570	23	0.06	3	7	112	
YY07610	10	<1	0.07	20	0.66	757	3	0.01	18	280	128	0.02	4	9	22	
YY07611	10	<1	0.07	10	0.62	324	2	0.01	27	370	14	0.01	2	4	26	
YY07612	10	<1	0.10	10	0.82	298	2	0.01	29	220	16	0.01	3	6	26	
YY07613	10	<1	0.10	10	0.87	357	2	0.02	24	190	13	0.01	<2	8	30	
YY07614	10	<1	0.09	10	0.80	254	4	0.01	25	140	12	0.01	3	5	23	
YY07615	10	1	0.08	10	0.98	319	3	0.02	25	230	17	0.01	2	7	31	
YY07616	10	<1	0.06	10	0.49	358	3	0.01	17	420	17	0.01	2	3	20	
YY07617	10	<1	0.12	20	1.24	464	2	0.02	25	370	13	0.01	3	11	36	
YY07618	10	<1	0.13	10	0.61	328	4	0.01	13	420	17	0.01	2	5	46	
YY07619	10	<1	0.07	10	0.52	221	4	0.01	19	220	10	0.01	3	3	18	
YY07620	10	1	0.22	10	1.07	442	7	0.01	14	320	17	0.01	3	7	40	
YY07621	10	<1	0.14	10	0.81	364	8	0.02	21	270	14	0.01	<2	6	65	
YY07622	20	1	0.26	10	1.54	489	8	0.02	20	300	17	0.04	<2	11	46	
YY07623	10	<1	0.15	10	0.68	251	5	0.02	14	420	11	0.01	<2	5	33	
YY07624	10	<1	0.27	10	1.16	501	5	0.02	15	450	12	0.01	2	11	66	
YY07625	10	<1	0.10	10	0.69	310	4	0.02	19	380	14	0.01	<2	5	29	
YY07626	10	<1	0.14	20	0.97	390	3	0.02	18	550	11	0.01	2	8	35	
YY07627	10	<1	0.30	10	1.12	359	2	0.02	19	480	10	0.01	3	6	18	
YY07628	10	<1	0.14	10	0.82	638	2	0.01	21	300	10	0.02	<2	6	30	
YY07629	10	<1	0.36	20	1.35	922	2	0.02	8	1310	15	<0.01	3	12	31	
YY07630	10	<1	0.37	20	1.24	551	1	0.02	20	350	6	0.01	2	13	30	
YY07631	10	<1	0.13	30	1.12	369	6	0.01	18	360	10	0.01	2	12	27	



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Sample Description	Method Analyte Units LOD	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
YY07591		<20	0.16	<10	<10	93	<10	78
YY07592		<20	0.19	<10	<10	102	<10	79
YY07593		<20	0.15	<10	<10	85	<10	66
YY07594		<20	0.12	<10	<10	117	<10	88
YY07595		<20	0.04	<10	<10	98	<10	96
YY07596		<20	0.04	<10	<10	85	<10	237
YY07597		<20	0.01	<10	<10	39	<10	77
YY07599		<20	0.16	<10	<10	71	<10	137
YY07600		<20	0.07	<10	<10	68	<10	115
YY07601		<20	0.21	<10	<10	89	<10	225
YY07602		<20	0.21	<10	<10	88	<10	315
YY07603		<20	0.14	<10	<10	76	<10	237
YY07604		<20	0.07	<10	<10	77	<10	811
YY07605		<20	0.08	<10	<10	65	<10	53
YY07606		<20	0.11	<10	<10	63	<10	54
YY07607		<20	0.09	<10	<10	70	<10	55
YY07608		<20	0.06	<10	<10	27	<10	26
YY07609		<20	0.05	<10	<10	72	<10	128
YY07610		<20	0.04	<10	<10	60	<10	384
YY07611		<20	0.09	<10	<10	85	<10	106
YY07612		<20	0.12	<10	<10	79	<10	78
YY07613		<20	0.14	<10	<10	87	<10	74
YY07614		<20	0.15	<10	<10	89	<10	62
YY07615		<20	0.13	<10	<10	93	<10	81
YY07616		<20	0.09	<10	<10	76	<10	86
YY07617		<20	0.22	<10	<10	113	<10	103
YY07618		<20	0.15	<10	<10	95	<10	95
YY07619		<20	0.05	<10	<10	72	<10	64
YY07620		<20	0.12	<10	<10	105	<10	121
YY07621		<20	0.15	<10	<10	103	<10	102
YY07622		<20	0.29	<10	<10	152	<10	141
YY07623		<20	0.17	<10	<10	100	<10	74
YY07624		<20	0.28	<10	<10	131	<10	124
YY07625		<20	0.12	<10	<10	78	<10	61
YY07626		<20	0.18	<10	<10	101	<10	77
YY07627		<20	0.26	<10	<10	120	<10	84
YY07628		<20	0.12	<10	<10	92	<10	69
YY07629		20	0.30	<10	<10	141	<10	102
YY07630		<20	0.22	<10	<10	124	<10	67
YY07631		<20	0.08	<10	<10	105	<10	63





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To: STRATEGIC METALS LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: ALOTTA

**CERTIFICATE OF ANALYSIS WH20168518**

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 %
		LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
YY07632		0.39	<0.001	0.2	3.41	69	<10	210	0.7	<2	0.32	<0.5	12	21	51	5.94
YY07633		0.39	0.015	0.2	2.19	108	<10	190	0.6	3	0.44	<0.5	12	26	86	3.88
YY07634		0.38	0.012	0.4	1.80	170	<10	120	1.0	<2	0.67	<0.5	10	13	75	4.11
YY07635		0.39	0.006	0.5	4.22	30	<10	170	0.8	3	0.56	0.6	16	32	92	6.75
YY07636		0.38	0.003	0.3	3.37	27	<10	310	0.8	2	0.53	<0.5	13	26	81	5.20
YY07637		0.37	0.022	0.5	2.99	53	<10	330	0.5	3	0.53	<0.5	15	28	190	5.66
YY07638		0.39	0.028	0.6	3.12	13	<10	260	0.5	<2	0.40	<0.5	12	38	57	3.86
YY07639		0.36	0.065	0.6	2.65	7	<10	210	0.9	2	0.50	<0.5	6	13	234	4.74
YY07640		0.39	0.009	0.2	3.08	45	<10	130	0.7	2	0.46	0.8	16	18	113	6.02
YY07641		0.35	0.007	0.2	3.27	25	<10	210	0.6	3	0.37	0.7	13	22	100	4.76
YY07642		0.35	0.045	0.4	4.44	993	<10	340	1.0	4	1.22	1.2	20	20	204	7.06
YY07643		0.30	0.011	0.8	2.54	133	<10	180	0.5	<2	0.25	<0.5	11	33	55	3.17
YY07644		0.47	0.016	0.3	2.49	43	<10	210	0.5	2	0.53	<0.5	11	38	47	3.72
YY07645		0.35	0.032	1.2	5.30	232	<10	310	1.0	2	0.46	0.7	24	21	367	9.09
YY07646		0.37	0.015	0.5	2.11	33	<10	170	0.5	2	0.45	<0.5	11	32	71	3.25
YY07647		0.35	0.136	0.4	3.31	48	<10	370	0.6	3	0.36	<0.5	15	28	190	5.78
YY07648		0.36	0.012	1.5	4.01	52	<10	380	0.6	5	0.53	0.7	16	28	70	5.54
YY07649		0.30	0.004	0.5	2.12	51	<10	170	<0.5	2	0.29	<0.5	9	26	35	4.09
YY07650		0.36	0.009	0.8	1.90	31	<10	270	<0.5	2	0.33	0.8	8	22	40	2.94
YY07701		0.39	0.017	1.1	2.29	73	<10	240	0.5	4	0.62	<0.5	20	29	31	3.21
YY07702		0.33	0.022	1.4	2.08	50	<10	250	<0.5	5	0.81	0.8	14	28	31	2.88
YY07703		0.49	0.025	0.5	1.93	56	<10	170	<0.5	5	0.54	0.6	13	25	25	3.09
YY07704		0.53	0.019	0.5	1.76	24	<10	130	<0.5	3	0.39	<0.5	8	26	26	2.58
YY07705		0.32	0.020	0.8	1.80	21	<10	150	<0.5	3	0.71	0.7	12	24	44	2.33
YY07706		0.38	0.019	0.3	1.74	15	<10	110	<0.5	2	0.41	<0.5	7	27	24	2.09
YY07707		0.39	0.023	0.4	1.77	52	<10	110	<0.5	3	0.38	0.5	9	27	40	2.73
YY07708		0.43	0.046	0.7	1.84	75	<10	140	0.5	<2	0.94	0.6	9	24	69	2.69
YY07709		0.37	0.006	0.4	0.87	6	<10	110	<0.5	<2	0.22	1.5	3	15	14	1.87
YY07710		0.42	0.003	0.5	1.66	10	<10	120	<0.5	2	0.28	1.0	9	28	14	3.21
YY07711		0.41	0.049	1.4	2.35	285	<10	160	0.6	3	0.61	0.8	9	31	72	3.22
YY07712		0.38	0.014	0.3	2.26	79	<10	150	<0.5	3	0.49	0.5	8	34	26	3.44
YY07713		0.43	0.041	0.4	2.18	34	<10	140	<0.5	3	0.46	<0.5	9	31	33	3.60
YY07714		0.41	0.077	0.9	2.20	94	<10	220	0.7	3	0.60	0.6	14	31	52	3.69
YY07715		0.46	0.049	0.5	2.09	107	<10	230	0.6	3	0.62	0.9	10	37	54	3.42
YY07716		0.34	0.013	1.0	1.72	30	<10	220	<0.5	2	0.22	1.0	12	26	18	3.02
YY07717		0.45	0.006	0.4	2.29	20	<10	150	0.5	3	0.40	<0.5	10	38	36	3.29
YY07718		0.41	0.012	0.5	1.72	72	<10	180	<0.5	5	0.36	0.5	9	22	49	3.41
YY07719		0.33	0.054	0.8	2.79	634	<10	220	0.8	7	0.63	<0.5	25	37	152	4.61
YY07720		0.40	0.051	0.4	1.97	129	<10	160	0.6	6	0.49	<0.5	10	36	71	3.57
YY07721		0.38	0.013	0.9	2.42	80	<10	180	0.5	7	0.39	1.1	12	25	57	4.00

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



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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 ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
YY07632		10	<1	0.10	20	1.33	607	2	0.01	13	630	14	0.01	<2	10	26
YY07633		10	<1	0.15	20	0.84	340	5	0.01	17	580	17	0.01	2	6	26
YY07634		10	<1	0.17	30	0.36	524	8	0.01	9	590	13	0.01	5	9	25
YY07635		20	<1	0.32	10	1.46	548	9	0.02	20	480	19	0.01	2	11	27
YY07636		10	<1	0.49	10	1.04	560	3	0.02	17	330	15	0.01	2	11	35
YY07637		10	<1	0.28	10	1.28	476	3	0.02	18	1170	14	0.01	3	8	30
YY07638		10	<1	0.07	10	0.88	354	2	0.02	30	210	9	0.01	2	6	30
YY07639		10	<1	0.19	20	0.87	371	3	0.02	6	750	10	<0.01	3	10	30
YY07640		10	<1	0.10	30	1.38	874	4	0.01	12	890	21	<0.01	<2	12	31
YY07641		10	<1	0.17	10	0.84	438	10	0.01	15	530	20	0.01	2	6	57
YY07642		20	1	0.35	20	1.30	581	7	0.02	13	850	57	0.01	18	12	91
YY07643		10	<1	0.07	10	0.66	273	2	0.01	25	200	16	0.01	2	4	26
YY07644		10	<1	0.07	10	0.88	382	2	0.02	25	320	12	0.01	2	8	35
YY07645		20	1	0.23	20	1.45	366	12	0.02	15	390	32	0.02	4	15	38
YY07646		10	<1	0.08	20	0.75	371	2	0.02	21	370	11	0.01	2	6	31
YY07647		10	<1	0.27	20	1.09	486	2	0.03	17	230	24	0.03	4	10	37
YY07648		10	<1	0.35	10	1.01	521	2	0.03	22	560	28	0.02	2	7	41
YY07649		10	<1	0.08	10	0.51	285	2	0.01	17	440	15	0.03	<2	3	27
YY07650		10	<1	0.09	10	0.46	560	2	0.02	14	460	16	0.02	<2	4	32
YY07701		10	<1	0.06	20	0.59	979	1	0.02	17	720	19	0.06	<2	5	43
YY07702		10	<1	0.07	10	0.60	1265	1	0.02	16	1030	14	0.08	2	4	62
YY07703		10	1	0.06	10	0.66	1285	2	0.01	14	780	13	0.04	2	4	38
YY07704		10	<1	0.07	10	0.59	288	1	0.02	16	770	13	0.03	2	3	26
YY07705		10	<1	0.06	10	0.47	364	2	0.02	15	760	13	0.07	<2	3	56
YY07706		10	<1	0.06	10	0.53	279	2	0.02	15	700	11	0.05	2	3	30
YY07707		10	<1	0.05	10	0.42	390	16	0.01	12	680	13	0.04	<2	3	31
YY07708		10	<1	0.07	10	0.51	310	12	0.02	17	510	10	0.05	4	4	60
YY07709		10	<1	0.03	10	0.15	324	5	0.01	10	180	7	0.01	<2	2	21
YY07710		10	<1	0.05	10	0.34	406	5	0.01	17	260	11	0.01	<2	2	22
YY07711		10	<1	0.09	10	0.54	450	7	0.02	21	410	16	0.04	<2	5	55
YY07712		10	<1	0.08	10	0.62	336	6	0.01	22	330	11	0.02	3	4	36
YY07713		10	1	0.08	10	0.60	292	11	0.01	21	460	11	0.03	<2	4	34
YY07714		10	<1	0.09	10	0.53	1310	9	0.02	20	610	15	0.02	2	3	43
YY07715		10	<1	0.07	10	0.69	477	3	0.02	24	340	13	0.02	<2	5	44
YY07716		10	<1	0.05	10	0.34	807	2	0.01	13	380	13	0.01	<2	3	19
YY07717		10	<1	0.09	10	0.67	245	1	0.02	25	160	8	0.02	<2	5	32
YY07718		10	<1	0.14	10	0.64	261	1	0.02	13	370	12	0.10	2	3	35
YY07719		10	<1	0.14	20	0.66	775	2	0.02	25	350	16	0.03	5	6	46
YY07720		10	<1	0.11	20	0.66	310	1	0.02	23	390	9	0.03	3	7	36
YY07721		10	<1	0.14	10	0.68	331	2	0.02	16	260	12	0.06	2	5	47



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**CERTIFICATE OF ANALYSIS WH20168518**

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
YY07632		<20	0.03	<10	<10	122	<10	91
YY07633		<20	0.08	<10	<10	80	<10	99
YY07634		<20	0.01	<10	<10	63	<10	86
YY07635		<20	0.37	<10	<10	158	<10	111
YY07636		<20	0.16	<10	<10	105	<10	127
YY07637		<20	0.18	<10	<10	122	<10	129
YY07638		<20	0.15	<10	<10	88	<10	72
YY07639		<20	0.05	<10	<10	77	<10	90
YY07640		20	0.02	<10	<10	108	<10	322
YY07641		<20	0.07	<10	<10	96	<10	126
YY07642		<20	0.23	<10	<10	131	<10	190
YY07643		<20	0.08	<10	<10	69	<10	70
YY07644		<20	0.15	<10	<10	86	<10	75
YY07645		<20	0.23	<10	<10	164	<10	177
YY07646		<20	0.12	<10	<10	72	<10	75
YY07647		<20	0.20	<10	<10	122	<10	114
YY07648		<20	0.24	<10	<10	122	<10	117
YY07649		<20	0.10	<10	<10	91	<10	67
YY07650		<20	0.11	<10	<10	75	<10	95
YY07701		<20	0.08	<10	<10	68	<10	100
YY07702		<20	0.07	<10	<10	56	<10	121
YY07703		<20	0.06	<10	<10	61	<10	114
YY07704		<20	0.08	<10	<10	57	<10	79
YY07705		<20	0.06	<10	<10	48	<10	93
YY07706		<20	0.07	<10	<10	37	<10	77
YY07707		<20	0.06	<10	<10	61	<10	76
YY07708		<20	0.07	<10	<10	52	<10	87
YY07709		<20	0.09	<10	<10	62	<10	55
YY07710		<20	0.08	<10	<10	82	<10	86
YY07711		<20	0.06	<10	<10	60	<10	88
YY07712		<20	0.08	<10	<10	74	<10	79
YY07713		<20	0.08	<10	<10	77	<10	70
YY07714		<20	0.05	<10	<10	65	<10	93
YY07715		<20	0.07	<10	<10	64	<10	128
YY07716		<20	0.06	<10	<10	79	<10	169
YY07717		<20	0.12	<10	<10	71	<10	58
YY07718		<20	0.06	<10	<10	61	<10	91
YY07719		<20	0.04	<10	<10	72	<10	99
YY07720		<20	0.10	<10	<10	68	<10	60
YY07721		<20	0.06	<10	<10	74	<10	129



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY07722		0.40	0.018	0.7	2.23	106	<10	140	0.5	5	0.46	<0.5	12	45	67	3.67
YY07723		0.47	0.009	0.5	2.34	33	<10	220	0.5	4	0.59	<0.5	12	37	52	4.08
YY07724		0.61	0.019	1.0	1.92	91	<10	260	<0.5	6	1.26	0.6	12	28	96	3.31
YY07725		0.42	0.028	0.9	1.99	102	<10	210	<0.5	7	1.04	0.8	11	26	71	3.75
YY07726		0.37	0.018	0.8	1.85	62	<10	260	<0.5	6	1.91	0.6	10	24	63	3.16
YY07727		0.38	0.016	0.9	1.84	54	<10	290	<0.5	5	1.49	1.0	13	27	52	3.28
YY07728		0.40	0.015	0.6	1.83	73	<10	220	<0.5	3	1.30	<0.5	11	27	55	3.39
YY07729		0.37	0.008	0.7	1.50	26	<10	230	<0.5	2	1.61	1.1	9	25	42	2.61
YY07730		0.45	0.004	0.2	2.75	8	<10	310	0.5	2	0.71	0.7	14	16	14	4.77
YY07731		0.42	0.003	0.2	4.12	24	<10	150	0.8	3	1.49	0.5	13	14	15	4.93
YY07732		0.39	0.008	0.4	2.23	17	<10	300	0.5	2	0.68	0.5	12	26	31	4.36
YY07733		0.43	0.046	1.1	2.33	143	<10	140	0.6	6	0.39	0.9	13	29	63	4.09
YY07734		0.43	0.002	0.6	3.32	72	<10	240	0.7	8	0.60	0.7	15	23	47	5.10
YY07735		0.46	0.008	1.2	3.15	512	<10	190	0.7	6	0.44	2.0	14	19	52	4.79
YY07736		0.42	0.001	0.4	3.72	16	<10	260	0.7	4	0.47	<0.5	15	34	40	5.13
YY07737		0.50	0.002	0.4	2.94	12	<10	350	0.5	2	0.54	<0.5	14	35	23	4.54
YY07738		0.38	<0.001	0.7	4.24	32	<10	290	0.8	4	0.63	0.9	19	23	44	5.96
YY07739		0.49	0.223	0.6	2.41	188	<10	120	0.5	10	0.34	<0.5	11	32	67	4.23
YY07740		0.47	0.107	0.5	2.96	172	<10	140	0.7	6	0.51	<0.5	17	30	105	5.50
YY07741		0.39	0.009	0.7	2.61	27	<10	170	0.5	2	0.50	0.5	14	23	37	4.22
YY07742		0.43	0.009	0.4	2.53	63	<10	160	0.5	5	0.37	0.5	11	34	34	3.62
YY07743		0.47	0.082	1.6	2.01	135	<10	220	0.7	3	0.70	1.3	10	31	126	3.60
YY07744		0.42	0.087	0.4	1.51	42	<10	140	<0.5	3	0.71	<0.5	7	27	34	2.54
YY07745		0.58	0.025	0.9	2.06	61	<10	190	<0.5	6	0.48	0.6	7	25	23	2.81
YY07746		0.46	0.031	1.2	2.41	53	<10	190	0.5	5	0.45	0.5	10	27	43	3.13
YY07747		0.43	0.070	0.8	1.92	30	<10	190	<0.5	5	0.71	0.6	14	24	37	3.12
YY07748		0.52	0.048	0.5	1.78	30	<10	130	<0.5	6	0.39	0.7	11	21	49	3.56
YY07749		0.37	0.033	0.8	1.79	22	<10	140	<0.5	2	0.50	0.8	15	24	42	2.58
YY07750		0.30	0.018	0.6	1.68	18	<10	110	<0.5	2	0.37	0.5	10	25	33	2.32
YY07876		0.41	0.001	0.2	3.83	6	<10	260	0.6	2	1.85	<0.5	7	8	7	2.48
YY07901		0.52	0.044	0.4	1.69	33	<10	130	<0.5	2	0.61	0.5	9	25	38	2.61
YY07902		0.35	0.014	0.4	1.74	26	<10	100	<0.5	3	0.16	0.7	5	24	23	2.91
YY07903		0.29	0.010	0.6	0.78	8	<10	80	<0.5	2	0.17	1.8	4	15	19	1.94
YY07904		0.30	0.012	0.7	0.76	9	<10	160	<0.5	2	0.21	1.9	8	15	21	2.05
YY07905		0.40	0.011	0.5	1.75	76	<10	220	<0.5	5	0.60	1.1	12	26	28	3.36
YY07906		0.32	0.025	0.8	2.13	70	<10	180	0.6	4	0.31	4.6	12	28	56	2.92
YY07907		0.37	0.017	0.9	1.39	43	<10	130	<0.5	<2	0.24	0.9	8	20	22	2.54
YY07908		0.45	0.035	0.5	2.26	41	<10	180	0.5	2	0.46	0.6	11	31	43	3.15
YY07909		0.44	0.004	0.2	3.04	11	<10	250	<0.5	<2	0.46	<0.5	13	32	14	4.06
YY07910		0.40	0.011	0.4	2.67	18	<10	260	0.5	4	0.69	<0.5	13	28	20	3.99

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



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte Units LOD	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
YY07722		10	<1	0.09	20	0.80	316	1	0.03	27	300	8	0.02	<2	9	32
YY07723		10	<1	0.16	20	0.94	449	1	0.03	23	500	10	0.01	3	9	38
YY07724		10	<1	0.14	10	0.74	507	2	0.03	21	720	10	0.05	3	6	66
YY07725		10	<1	0.18	10	0.87	464	2	0.03	18	830	9	0.04	2	6	55
YY07726		10	1	0.19	10	0.77	509	2	0.03	17	830	9	0.09	2	5	87
YY07727		10	1	0.14	10	0.71	1325	2	0.03	20	710	13	0.05	<2	5	68
YY07728		10	1	0.13	10	0.73	489	1	0.03	18	530	13	0.05	2	5	60
YY07729		10	<1	0.14	10	0.67	407	1	0.03	19	810	14	0.06	3	5	63
YY07730		10	<1	0.36	20	1.19	922	<1	0.02	9	890	60	0.01	3	11	38
YY07731		10	<1	0.20	20	1.16	868	1	0.02	8	810	18	0.01	2	15	135
YY07732		10	<1	0.20	20	1.13	636	1	0.03	17	800	15	0.01	3	9	49
YY07733		10	<1	0.14	10	0.66	421	2	0.02	17	280	41	0.08	4	5	44
YY07734		10	<1	0.22	20	1.16	645	2	0.02	14	500	22	0.01	2	11	72
YY07735		10	<1	0.19	20	0.91	603	1	0.01	12	270	38	0.01	4	9	51
YY07736		10	<1	0.39	20	1.26	570	1	0.02	22	350	13	0.01	<2	8	41
YY07737		10	<1	0.30	20	0.99	495	1	0.02	21	430	10	0.01	3	11	35
YY07738		10	<1	0.33	20	1.34	806	1	0.02	16	1100	15	0.02	2	9	47
YY07739		10	<1	0.16	10	0.76	287	2	0.02	21	260	11	0.09	2	5	39
YY07740		10	<1	0.14	10	0.84	319	6	0.02	18	220	14	0.08	3	8	51
YY07741		10	<1	0.08	10	0.62	292	2	0.02	16	260	11	0.04	2	4	48
YY07742		10	<1	0.08	10	0.72	321	2	0.02	23	210	12	0.03	2	5	33
YY07743		10	1	0.11	20	0.67	398	3	0.02	24	420	37	0.04	<2	6	57
YY07744		10	<1	0.08	10	0.53	305	6	0.02	17	430	11	0.02	2	3	43
YY07745		10	<1	0.07	10	0.64	270	1	0.01	14	550	19	0.03	2	4	34
YY07746		10	<1	0.08	10	0.64	336	1	0.01	15	690	22	0.04	<2	5	35
YY07747		10	<1	0.07	10	0.66	831	1	0.02	16	700	15	0.05	<2	5	53
YY07748		10	<1	0.12	10	0.68	476	2	0.02	13	680	19	0.06	<2	4	34
YY07749		10	<1	0.07	10	0.53	688	2	0.01	13	670	12	0.04	<2	4	37
YY07750		10	<1	0.06	10	0.47	390	7	0.01	13	610	12	0.04	<2	3	28
YY07876		10	<1	0.15	10	0.56	409	1	0.02	6	560	11	0.01	<2	5	152
YY07901		10	<1	0.07	10	0.59	360	11	0.02	15	630	8	0.04	2	4	36
YY07902		10	<1	0.05	10	0.29	147	9	0.01	13	310	14	0.02	<2	2	16
YY07903		10	<1	0.05	<10	0.13	163	7	0.01	10	230	9	0.02	2	1	15
YY07904		10	<1	0.06	<10	0.17	1090	5	0.02	10	240	17	0.02	<2	2	18
YY07905		10	<1	0.12	10	0.46	620	10	0.02	18	230	13	0.03	<2	3	42
YY07906		10	<1	0.14	20	0.38	1045	4	0.02	22	1010	13	0.04	2	3	27
YY07907		10	<1	0.07	10	0.30	513	6	0.01	13	370	10	0.03	2	2	22
YY07908		10	<1	0.08	10	0.60	456	11	0.02	21	330	12	0.01	<2	4	33
YY07909		10	<1	0.11	10	0.87	500	2	0.01	19	520	15	0.01	2	5	30
YY07910		10	<1	0.11	20	0.92	532	1	0.02	17	420	30	0.01	2	7	43



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOD	20	0.01	10	10	1	10	2
YY07722	<20	0.15	<10	<10	85	<10	68
YY07723	<20	0.19	<10	<10	96	<10	80
YY07724	<20	0.12	<10	<10	71	<10	84
YY07725	<20	0.15	<10	<10	80	<10	110
YY07726	<20	0.13	<10	<10	66	<10	94
YY07727	<20	0.12	<10	<10	72	<10	103
YY07728	<20	0.13	<10	<10	74	<10	85
YY07729	<20	0.12	<10	<10	65	<10	93
YY07730	<20	0.33	<10	<10	119	<10	138
YY07731	<20	0.13	<10	<10	109	<10	110
YY07732	<20	0.23	<10	<10	108	<10	102
YY07733	<20	0.07	<10	<10	73	<10	146
YY07734	<20	0.20	<10	<10	122	<10	143
YY07735	<20	0.09	<10	<10	99	<10	335
YY07736	<20	0.32	<10	<10	134	<10	92
YY07737	<20	0.29	<10	<10	120	<10	74
YY07738	<20	0.28	<10	<10	143	<10	156
YY07739	<20	0.09	<10	<10	78	<10	67
YY07740	<20	0.15	<10	<10	98	<10	78
YY07741	<20	0.07	<10	<10	82	<10	90
YY07742	<20	0.11	<10	<10	74	<10	107
YY07743	<20	0.07	<10	<10	58	<10	143
YY07744	<20	0.07	<10	<10	59	<10	55
YY07745	<20	0.08	<10	<10	58	<10	118
YY07746	<20	0.07	<10	<10	62	<10	123
YY07747	<20	0.08	<10	<10	64	<10	100
YY07748	<20	0.09	<10	<10	70	<10	160
YY07749	<20	0.07	<10	<10	56	<10	92
YY07750	<20	0.07	<10	<10	49	<10	94
YY07876	<20	0.12	<10	<10	62	<10	57
YY07901	<20	0.09	<10	<10	56	<10	88
YY07902	<20	0.07	<10	<10	68	<10	70
YY07903	<20	0.06	<10	<10	51	<10	55
YY07904	<20	0.06	<10	<10	55	<10	104
YY07905	<20	0.05	<10	<10	69	<10	77
YY07906	<20	0.06	<10	<10	52	<10	163
YY07907	<20	0.06	<10	<10	57	<10	77
YY07908	<20	0.07	<10	<10	66	<10	76
YY07909	<20	0.20	<10	<10	95	<10	99
YY07910	<20	0.21	<10	<10	94	<10	131



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
YY07911		0.30	0.033	1.3	1.93	19	<10	220	<0.5	2	1.77	0.8	8	17	34	2.22
YY07912		0.41	0.013	0.9	2.62	37	<10	280	0.5	4	0.66	1.0	13	25	36	4.24
YY07913		0.42	0.012	1.0	2.11	24	<10	230	<0.5	2	0.58	<0.5	10	29	37	3.34
YY07914		0.37	0.022	0.6	3.95	26	<10	410	0.6	3	0.46	1.4	17	22	51	5.37
YY07915		0.44	0.028	0.5	3.51	15	<10	380	0.6	2	0.54	0.9	16	33	42	4.17
YY07916		0.43	0.010	0.4	2.91	39	<10	200	<0.5	2	0.36	1.6	11	24	35	4.31
YY07917		0.35	0.014	1.0	1.87	51	<10	150	<0.5	3	0.55	0.7	7	23	41	2.82
YY07918		0.33	0.017	0.6	1.88	58	<10	140	<0.5	4	0.54	<0.5	13	27	32	3.04
YY07919		0.39	0.056	0.5	1.58	40	<10	120	<0.5	<2	0.98	<0.5	9	23	29	2.57
YY07920		0.39	0.030	0.6	1.66	85	<10	120	<0.5	4	1.13	0.5	6	22	42	2.71
YY07921		0.36	0.017	0.5	1.76	45	<10	160	<0.5	3	0.90	<0.5	9	26	35	2.66
YY07922		0.55	0.023	0.4	1.82	32	<10	120	<0.5	<2	0.65	<0.5	10	27	23	2.98
YY07923		0.41	0.028	0.4	1.78	24	<10	120	<0.5	3	1.02	<0.5	8	25	35	2.90
YY07924		0.38	0.030	0.4	1.79	18	<10	120	<0.5	3	1.18	<0.5	9	23	27	2.97
YY07925		0.39	0.060	0.9	2.47	18	<10	210	0.5	5	1.30	0.6	9	26	81	3.48
YY07926		0.58	0.050	0.4	2.01	19	<10	140	<0.5	3	0.54	<0.5	9	26	35	3.14
YY07927		0.39	0.030	0.6	1.84	27	<10	150	<0.5	3	0.46	<0.5	15	27	29	2.89
YY07928		0.36	0.024	0.9	1.92	22	<10	150	<0.5	<2	0.49	0.7	10	26	35	2.53
YY07929		0.42	0.070	2.2	2.26	61	<10	210	0.6	6	0.62	1.2	16	28	47	2.89
YY07930		0.44	0.003	0.2	3.21	12	<10	320	<0.5	2	0.30	<0.5	14	33	16	3.73
YY07931		0.42	0.011	0.9	2.82	17	<10	360	0.6	2	0.84	1.7	14	28	33	4.01
YY07932		0.39	0.017	1.4	2.31	33	<10	290	0.5	3	1.41	1.1	9	21	36	3.35
YY07933		0.42	0.008	0.4	3.76	75	<10	240	0.6	3	0.80	1.1	15	25	39	5.10
YY07934		0.40	0.001	0.2	4.82	30	<10	250	1.0	3	1.46	1.8	14	15	33	4.94
YY07935		0.45	0.003	3.1	3.57	13	<10	260	0.5	3	0.32	1.0	14	34	18	4.40
YY07936		0.44	0.028	0.5	3.50	19	<10	290	0.6	2	0.54	0.5	15	34	36	4.27
YY07937		0.57	0.012	0.5	2.32	14	<10	240	<0.5	2	0.75	0.6	11	28	22	3.37
YY07938		0.43	0.045	2.5	2.40	34	<10	190	0.5	2	0.51	1.5	11	25	88	3.51
YY07939		0.56	0.023	1.4	2.24	65	<10	160	<0.5	2	0.48	1.0	15	26	55	3.99
YY07940		0.39	0.040	0.5	1.67	51	<10	130	<0.5	3	0.93	<0.5	10	26	38	2.76
YY07941		0.44	0.065	0.4	1.67	72	<10	130	<0.5	2	0.93	<0.5	11	22	36	3.15
YY07942		0.42	0.032	0.4	1.71	48	<10	120	<0.5	3	0.64	<0.5	9	25	26	2.66
YY07943		0.43	0.045	0.3	1.77	23	<10	130	<0.5	3	0.86	<0.5	9	24	29	2.82
YY07944		0.35	0.039	0.3	1.72	22	<10	110	<0.5	2	0.86	<0.5	9	23	25	2.74
YY07945		0.44	0.027	0.3	1.77	17	<10	100	<0.5	2	0.81	<0.5	7	21	29	3.01
YY07946		0.42	0.023	0.3	1.84	18	<10	150	<0.5	2	0.63	<0.5	11	23	26	2.87
YY07947		0.39	0.024	1.6	1.99	20	<10	160	<0.5	2	0.49	0.6	7	28	37	2.96
YY07948		0.39	0.052	0.3	2.89	58	<10	250	0.7	4	1.11	1.0	10	16	50	3.69
YY07949		0.39	0.025	0.9	2.18	27	<10	170	<0.5	2	0.61	0.8	11	26	33	3.08
YY07950		0.34	0.029	2.8	1.96	39	<10	200	0.5	6	0.64	1.0	16	24	43	2.55

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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 ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
YY07911	10	<1	0.17	20	0.57	500	1	0.02	10	900	18	0.15	2	6	93
YY07912	10	1	0.20	20	0.90	671	1	0.02	14	650	22	0.02	2	7	42
YY07913	10	<1	0.10	10	0.74	395	1	0.02	17	300	19	0.01	2	6	34
YY07914	10	<1	0.29	10	1.07	729	1	0.03	19	810	18	<0.01	4	8	40
YY07915	10	<1	0.10	10	0.74	421	2	0.02	25	350	32	0.01	2	5	48
YY07916	10	<1	0.13	10	0.76	440	3	0.02	15	430	46	0.02	<2	5	33
YY07917	10	<1	0.07	10	0.58	265	2	0.02	13	670	20	0.06	<2	4	41
YY07918	10	1	0.08	10	0.62	401	2	0.02	15	640	18	0.04	<2	4	39
YY07919	10	<1	0.07	10	0.57	534	6	0.02	14	450	13	0.05	<2	4	54
YY07920	10	<1	0.08	10	0.53	206	10	0.02	13	550	13	0.09	2	4	77
YY07921	10	<1	0.07	10	0.57	377	9	0.02	16	600	12	0.06	<2	4	52
YY07922	10	<1	0.07	10	0.64	582	10	0.02	15	640	11	0.02	2	4	41
YY07923	10	<1	0.06	10	0.63	371	19	0.02	14	540	12	0.05	<2	5	56
YY07924	10	<1	0.07	10	0.65	429	17	0.02	14	490	10	0.07	2	5	67
YY07925	10	1	0.11	20	0.71	311	19	0.02	16	640	13	0.08	<2	6	67
YY07926	10	<1	0.07	10	0.72	307	7	0.02	15	620	12	0.01	2	5	33
YY07927	10	<1	0.07	10	0.63	783	5	0.02	16	580	12	0.02	<2	4	32
YY07928	10	<1	0.07	10	0.57	320	3	0.02	15	560	14	0.03	2	4	36
YY07929	10	<1	0.10	20	0.57	967	2	0.02	16	570	31	0.05	2	5	50
YY07930	10	1	0.10	10	0.73	327	1	0.02	24	360	12	<0.01	<2	4	26
YY07931	10	1	0.23	30	0.93	595	1	0.03	19	770	37	0.03	<2	9	50
YY07932	10	1	0.19	30	0.71	471	1	0.03	12	870	20	0.05	3	7	76
YY07933	10	<1	0.27	10	1.03	601	1	0.02	15	460	49	0.01	4	8	57
YY07934	10	1	0.19	10	1.11	707	2	0.03	10	440	68	<0.01	2	14	107
YY07935	10	<1	0.07	10	0.74	407	1	0.02	25	220	47	<0.01	<2	5	30
YY07936	10	<1	0.08	10	0.82	407	2	0.02	24	320	21	<0.01	3	7	43
YY07937	10	<1	0.09	10	0.76	406	2	0.02	15	350	22	0.01	<2	5	40
YY07938	10	<1	0.11	10	0.63	395	3	0.02	15	570	36	0.07	<2	6	46
YY07939	10	<1	0.09	10	0.72	706	3	0.02	15	710	51	0.05	<2	5	39
YY07940	10	<1	0.07	10	0.58	416	4	0.02	16	600	16	0.05	<2	4	53
YY07941	10	<1	0.08	10	0.59	635	13	0.02	14	640	10	0.05	<2	4	60
YY07942	10	<1	0.07	10	0.55	459	9	0.02	13	610	12	0.04	<2	4	39
YY07943	10	<1	0.07	10	0.59	498	18	0.02	16	640	10	0.04	2	4	52
YY07944	10	<1	0.06	10	0.57	507	18	0.02	14	570	11	0.04	<2	4	47
YY07945	10	<1	0.06	10	0.66	323	15	0.02	12	630	10	0.03	2	5	42
YY07946	10	1	0.05	10	0.63	503	10	0.02	14	500	12	0.03	2	4	38
YY07947	10	<1	0.07	10	0.59	318	6	0.02	15	770	12	0.04	<2	3	37
YY07948	10	<1	0.28	20	0.70	401	1	0.02	9	820	14	<0.01	4	8	89
YY07949	10	<1	0.10	10	0.64	547	3	0.02	14	590	16	0.02	3	4	43
YY07950	10	<1	0.07	20	0.51	1000	2	0.01	14	690	29	0.06	<2	3	50





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Sample Description	Method Analyte Units LOD	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
YY07911		<20	0.11	<10	<10	57	<10	83
YY07912		<20	0.20	<10	<10	101	<10	145
YY07913		<20	0.16	<10	<10	81	<10	85
YY07914		<20	0.26	<10	<10	129	<10	150
YY07915		<20	0.18	<10	<10	91	<10	170
YY07916		<20	0.21	<10	<10	105	<10	263
YY07917		<20	0.10	<10	<10	61	<10	108
YY07918		<20	0.08	<10	<10	74	<10	110
YY07919		<20	0.07	<10	<10	55	<10	65
YY07920		<20	0.07	<10	<10	52	<10	84
YY07921		<20	0.09	<10	<10	54	<10	71
YY07922		<20	0.10	<10	<10	61	<10	84
YY07923		<20	0.10	<10	<10	61	<10	83
YY07924		<20	0.11	<10	<10	65	<10	70
YY07925		<20	0.14	<10	<10	76	<10	97
YY07926		<20	0.13	<10	<10	71	<10	87
YY07927		<20	0.10	<10	<10	66	<10	81
YY07928		<20	0.10	<10	<10	57	<10	91
YY07929		<20	0.09	<10	<10	60	<10	119
YY07930		<20	0.19	<10	<10	89	<10	66
YY07931		<20	0.23	<10	<10	97	<10	159
YY07932		<20	0.15	<10	<10	81	<10	114
YY07933		<20	0.25	<10	<10	120	<10	189
YY07934		<20	0.24	<10	<10	124	<10	373
YY07935		<20	0.17	<10	<10	104	<10	157
YY07936		<20	0.19	<10	<10	99	<10	99
YY07937		<20	0.18	<10	<10	84	<10	131
YY07938		<20	0.13	<10	<10	68	<10	168
YY07939		<20	0.12	<10	<10	76	<10	181
YY07940		<20	0.08	<10	<10	56	<10	76
YY07941		<20	0.08	<10	<10	61	<10	77
YY07942		<20	0.08	<10	<10	58	<10	72
YY07943		<20	0.10	<10	<10	59	<10	78
YY07944		<20	0.10	<10	<10	59	<10	74
YY07945		<20	0.12	<10	<10	68	<10	70
YY07946		<20	0.12	<10	<10	67	<10	73
YY07947		<20	0.09	<10	<10	69	<10	81
YY07948		<20	0.20	<10	<10	87	<10	110
YY07949		<20	0.12	<10	<10	74	<10	105
YY07950		<20	0.05	<10	<10	53	<10	104



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
YY07651		0.47	0.001	0.3	3.24	10	<10	290	0.6	4	0.64	1.8	15	27	21	4.96
YY07652		0.50	0.012	0.6	2.53	11	<10	150	0.6	<2	0.49	<0.5	12	49	32	3.97
YY07653		0.61	0.001	0.4	2.88	11	<10	230	0.6	<2	0.61	<0.5	15	37	27	4.56
YY07654		0.48	0.007	0.3	2.85	14	<10	270	0.5	2	0.46	<0.5	13	31	22	4.54
YY07655		0.51	0.001	0.6	3.07	13	<10	230	0.6	2	0.44	<0.5	13	40	25	4.26
YY07656		0.50	<0.001	0.7	4.04	15	<10	460	0.7	3	0.50	1.2	15	27	21	4.90
YY07658		0.49	<0.001	1.0	3.27	45	<10	330	0.5	6	0.36	1.0	14	30	43	5.03
YY07659		0.48	<0.001	0.4	2.92	22	<10	270	0.5	2	0.29	<0.5	12	39	22	3.67
YY07660		0.45	0.009	0.8	2.89	150	<10	270	0.6	7	0.62	0.7	11	22	41	4.36
YY07661		0.48	0.001	1.0	3.78	34	<10	330	0.8	2	0.56	1.7	14	40	32	4.92
YY07662		0.32	0.041	0.5	2.01	60	<10	150	<0.5	2	0.48	0.5	10	28	48	3.30
YY07663		0.49	0.033	0.4	1.97	57	<10	160	<0.5	3	0.62	0.5	8	27	46	3.30
YY07664		0.29	0.038	0.5	1.54	53	<10	150	<0.5	4	0.67	0.5	9	24	44	2.78
YY07665		0.48	0.074	0.7	1.99	95	<10	110	0.5	3	0.88	0.5	9	23	61	3.22
YY07666		0.50	0.040	0.7	1.76	82	<10	140	<0.5	6	0.95	<0.5	9	24	46	3.05
YY07667		0.32	0.045	0.5	1.47	56	<10	90	<0.5	4	0.72	0.5	6	22	27	2.77
YY07668		0.31	0.017	0.6	1.78	29	<10	120	<0.5	4	0.27	0.8	8	24	22	3.36
YY07669		0.38	0.016	0.4	1.68	18	<10	100	<0.5	3	0.23	0.5	7	23	19	3.28
YY07670		0.29	0.264	1.1	2.23	19	<10	190	0.5	4	0.83	1.7	11	26	62	3.05
YY07671		0.50	0.041	0.4	1.71	20	<10	110	<0.5	3	0.41	<0.5	7	24	25	2.47
YY07672		0.51	0.027	0.7	1.87	24	<10	120	<0.5	2	0.40	<0.5	8	27	42	2.70
YY07673		0.52	0.029	0.7	1.86	30	<10	130	<0.5	4	0.35	0.6	10	26	34	2.93
YY07674		0.42	0.086	5.4	3.19	95	<10	340	1.0	7	0.71	1.1	19	29	93	3.83
YY07675		0.31	0.031	1.3	2.07	29	<10	180	<0.5	5	0.64	0.6	15	25	28	2.66
YY07676		0.42	0.030	1.0	2.04	46	<10	170	<0.5	4	0.44	0.7	11	26	29	2.80
YY07677		0.40	0.029	2.0	2.42	51	<10	240	0.5	6	0.57	1.1	18	27	35	3.19
YY07678		0.35	0.034	2.0	2.37	64	<10	240	0.5	6	0.72	1.7	13	25	37	3.33
YY07679		0.45	0.025	0.9	2.00	29	<10	200	0.5	4	0.52	0.5	11	24	39	2.43
YY07680		0.48	0.023	0.5	1.90	33	<10	160	<0.5	5	0.60	<0.5	9	25	27	2.97
YY07681		0.39	0.035	0.5	1.68	24	<10	120	<0.5	2	0.45	<0.5	7	25	30	2.35
YY07682		0.36	0.053	0.7	1.81	24	<10	120	<0.5	3	0.60	<0.5	9	25	35	2.55
YY07683		0.37	0.010	0.3	2.20	27	<10	120	<0.5	5	0.18	0.9	9	28	21	3.76
YY07684		0.45	0.016	0.4	1.92	67	<10	140	<0.5	5	0.35	0.7	8	25	34	3.42
YY07685		0.41	0.031	0.7	2.08	184	<10	140	0.5	6	0.32	0.7	11	31	46	3.67
YY07686		0.38	0.077	0.8	2.10	54	<10	140	0.7	3	1.34	0.6	11	25	92	3.40
YY07687		0.50	0.097	0.8	1.99	58	<10	160	0.6	3	1.18	<0.5	10	32	86	3.01
YY07688		0.43	0.045	0.5	1.71	50	<10	200	0.6	3	0.79	<0.5	10	27	70	2.67
YY07689		0.45	0.038	1.3	2.22	94	<10	220	0.5	4	0.77	1.0	15	35	75	3.52
YY07690		0.42	0.024	0.7	2.38	73	<10	200	0.5	4	0.65	1.0	12	32	73	3.58
YY07691		0.46	0.003	0.4	2.68	52	<10	250	0.5	2	0.34	0.6	12	36	28	3.49



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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY07651		10	<1	0.20	20	1.04	1010	2	0.02	20	440	24	0.02	3	9	49
YY07652		10	<1	0.13	20	0.81	420	1	0.02	27	170	23	0.01	2	11	37
YY07653		10	<1	0.27	20	1.02	511	1	0.02	21	460	16	0.01	2	9	31
YY07654		10	1	0.26	20	1.05	545	1	0.02	19	350	30	0.01	3	8	34
YY07655		10	<1	0.23	20	0.90	429	1	0.02	25	220	19	0.01	2	9	41
YY07656		10	1	0.15	10	1.03	549	1	0.02	24	460	38	0.01	<2	6	35
YY07658		10	<1	0.17	10	0.99	551	2	0.02	18	340	45	0.02	<2	6	40
YY07659		10	<1	0.13	10	0.76	440	1	0.02	26	310	13	0.01	2	4	25
YY07660		10	<1	0.15	20	0.97	605	1	0.02	14	400	18	0.02	2	8	45
YY07661		10	<1	0.12	10	1.03	749	1	0.02	22	460	13	0.01	2	11	42
YY07662		10	<1	0.07	10	0.71	314	2	0.01	19	460	17	0.02	<2	5	34
YY07663		10	<1	0.07	10	0.75	232	2	0.02	16	480	20	0.04	<2	5	41
YY07664		10	<1	0.07	10	0.57	361	2	0.02	13	680	18	0.05	4	4	43
YY07665		10	<1	0.10	10	0.63	263	13	0.01	12	510	12	0.05	3	5	73
YY07666		10	<1	0.07	10	0.53	375	18	0.02	14	460	14	0.05	3	4	77
YY07667		10	<1	0.08	10	0.44	261	23	0.02	14	250	15	0.04	<2	3	42
YY07668		10	<1	0.06	10	0.39	231	11	0.01	17	290	14	0.02	2	2	24
YY07669		10	<1	0.06	10	0.35	191	14	0.01	14	290	11	0.02	<2	2	21
YY07670		10	1	0.08	10	0.65	401	15	0.02	16	690	19	0.06	<2	5	57
YY07671		10	<1	0.06	10	0.55	233	10	0.01	14	590	11	0.03	<2	3	29
YY07672		10	<1	0.07	10	0.58	291	7	0.01	15	680	12	0.03	2	4	26
YY07673		10	<1	0.07	10	0.59	442	4	0.01	15	480	21	0.03	2	4	27
YY07674		10	<1	0.11	30	0.58	817	3	0.02	18	910	32	0.08	2	5	61
YY07675		10	<1	0.08	10	0.59	589	1	0.01	13	650	18	0.05	<2	4	48
YY07676		10	<1	0.07	10	0.62	442	1	0.01	14	570	19	0.03	<2	4	34
YY07677		10	<1	0.08	20	0.61	733	1	0.02	16	780	26	0.06	<2	4	50
YY07678		10	1	0.10	10	0.68	591	1	0.02	16	730	31	0.06	<2	5	60
YY07679		10	<1	0.06	20	0.54	246	1	0.02	16	650	20	0.05	<2	5	43
YY07680		10	<1	0.08	10	0.66	337	1	0.01	14	580	15	0.04	<2	4	46
YY07681		10	<1	0.07	10	0.58	237	3	0.01	15	730	12	0.04	2	3	29
YY07682		10	<1	0.06	10	0.50	481	24	0.01	14	680	15	0.05	2	3	45
YY07683		10	<1	0.06	10	0.42	286	9	0.01	18	300	13	0.02	<2	3	18
YY07684		10	<1	0.10	10	0.45	310	15	0.01	18	350	12	0.02	3	3	31
YY07685		10	<1	0.15	10	0.61	456	13	0.01	19	330	19	0.04	3	4	28
YY07686		10	1	0.08	20	0.73	408	19	0.02	19	640	14	0.06	2	6	70
YY07687		10	1	0.08	20	0.70	356	10	0.02	21	520	17	0.03	2	6	67
YY07688		10	<1	0.06	20	0.54	450	3	0.02	18	710	16	0.04	<2	4	53
YY07689		10	1	0.09	10	0.73	650	3	0.02	21	460	22	0.02	2	5	54
YY07690		10	1	0.10	10	0.73	403	2	0.02	21	510	18	0.02	2	6	47
YY07691		10	<1	0.08	10	0.71	481	2	0.02	27	360	9	<0.01	<2	4	25



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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
YY07651		<20	0.20	<10	<10	114	<10	257
YY07652		<20	0.16	<10	<10	96	<10	71
YY07653		<20	0.28	<10	<10	115	<10	71
YY07654		<20	0.25	<10	<10	109	<10	111
YY07655		<20	0.24	<10	<10	108	<10	81
YY07656		<20	0.26	<10	<10	116	<10	184
YY07658		<20	0.21	<10	<10	110	<10	186
YY07659		<20	0.15	<10	<10	84	<10	81
YY07660		<20	0.17	<10	<10	99	<10	170
YY07661		<20	0.14	<10	<10	113	<10	183
YY07662		<20	0.08	<10	<10	66	<10	98
YY07663		<20	0.07	<10	<10	62	<10	157
YY07664		<20	0.06	<10	<10	48	<10	89
YY07665		<20	0.08	<10	<10	57	<10	103
YY07666		<20	0.09	<10	<10	55	<10	84
YY07667		<20	0.08	<10	<10	55	<10	80
YY07668		<20	0.07	<10	<10	71	<10	76
YY07669		<20	0.08	<10	<10	78	<10	58
YY07670		<20	0.10	<10	<10	63	<10	138
YY07671		<20	0.08	<10	<10	51	<10	77
YY07672		<20	0.09	<10	<10	57	<10	84
YY07673		<20	0.10	<10	<10	67	<10	100
YY07674		<20	0.06	<10	<10	70	<10	156
YY07675		<20	0.07	<10	<10	58	<10	96
YY07676		<20	0.08	<10	<10	61	<10	105
YY07677		<20	0.07	<10	<10	65	<10	129
YY07678		<20	0.08	<10	<10	69	<10	162
YY07679		<20	0.06	<10	<10	51	<10	98
YY07680		<20	0.08	<10	<10	67	<10	98
YY07681		<20	0.09	<10	<10	51	<10	82
YY07682		<20	0.07	<10	<10	54	<10	88
YY07683		<20	0.08	<10	<10	83	<10	90
YY07684		<20	0.07	<10	<10	66	<10	77
YY07685		<20	0.07	<10	<10	66	<10	93
YY07686		<20	0.08	<10	<10	62	<10	96
YY07687		<20	0.08	<10	<10	58	<10	68
YY07688		<20	0.06	<10	<10	49	<10	65
YY07689		<20	0.07	<10	<10	65	<10	173
YY07690		<20	0.09	<10	<10	69	<10	121
YY07691		<20	0.12	<10	<10	80	<10	94



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<b>CERTIFICATE OF ANALYSIS WH20168518</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 %
YY07692		0.44	<0.001	2.1	4.19	160	<10	510	0.7	9	0.51	3.1	19	30	69	5.65
YY07693		0.48	<0.001	0.5	3.89	122	<10	160	0.9	6	0.49	1.2	15	13	37	5.50
YY07695		0.51	<0.001	0.7	2.97	33	<10	180	0.7	3	0.33	<0.5	11	41	29	3.58
YY07696		0.45	0.004	0.6	2.51	20	<10	140	0.6	2	0.33	<0.5	11	46	26	3.49
YY07697		0.55	0.003	0.4	2.82	58	<10	160	0.6	3	0.45	<0.5	13	45	27	3.80
YY07698		0.48	0.005	0.6	2.80	48	<10	320	0.5	3	0.46	2.3	13	27	20	3.89
YY07699		0.55	<0.001	0.4	3.57	20	<10	470	0.6	<2	0.60	0.5	16	19	20	5.26
YY07700		0.47	<0.001	0.4	2.95	10	<10	330	0.6	<2	0.53	<0.5	15	37	24	4.45
YY07951		0.45	0.001	0.3	1.94	10	<10	130	<0.5	<2	0.49	<0.5	9	39	26	3.15
YY07952		0.51	<0.001	0.6	3.29	13	<10	230	0.8	<2	0.59	0.5	15	37	24	4.96
YY07953		0.45	0.003	0.3	2.65	12	<10	290	<0.5	2	0.30	0.6	22	34	16	4.38
YY07954		0.45	0.001	0.6	3.29	38	<10	310	0.5	3	0.33	0.5	14	38	27	4.51
YY07955		0.50	0.004	0.3	3.64	19	<10	250	0.7	<2	1.46	0.5	9	22	28	3.52
YY07956		0.48	0.009	0.4	2.37	45	<10	260	0.5	3	0.49	<0.5	10	35	22	3.60
YY07957		0.49	0.014	1.1	2.49	87	<10	210	<0.5	3	0.40	0.7	11	29	32	3.80
YY07958		0.45	0.002	0.7	4.07	40	<10	330	0.7	3	0.49	0.9	17	32	33	5.00
YY07959		0.46	0.002	2.1	4.89	29	<10	410	0.7	2	0.68	1.2	15	24	47	4.80
YY07961		0.36	0.020	0.5	1.86	63	<10	170	0.5	5	0.62	0.5	13	25	54	3.14
YY07962		0.44	0.035	0.5	1.85	62	<10	180	0.5	3	0.56	<0.5	12	27	54	3.28
YY07963		0.37	0.050	0.5	1.79	46	<10	150	0.5	4	1.18	<0.5	13	27	64	2.99
YY07964		0.54	0.063	0.4	1.87	53	<10	120	<0.5	4	0.88	<0.5	10	26	39	3.04
YY07965		0.41	0.039	0.5	1.93	41	<10	140	0.5	5	0.76	<0.5	11	27	38	3.02
YY07966		0.32	0.054	0.5	1.72	25	<10	120	<0.5	4	1.18	<0.5	7	22	41	2.86
YY07967		0.54	0.061	0.5	2.12	21	<10	170	0.5	3	0.98	<0.5	10	26	66	3.47
YY07968		0.52	0.126	0.6	2.21	18	<10	170	<0.5	4	0.73	0.5	10	25	78	3.74
YY07969		0.41	0.109	0.8	2.29	25	<10	200	0.5	2	0.62	<0.5	11	27	61	3.58
YY07970		0.41	0.103	0.4	1.88	17	<10	130	<0.5	3	0.42	<0.5	7	26	24	2.49
YY07971		0.37	0.058	0.8	1.72	22	<10	150	<0.5	3	0.47	0.8	10	24	49	2.84
YY07972		0.30	0.078	4.0	2.40	58	<10	230	0.7	3	0.56	2.4	56	31	59	3.16
YY07973		0.62	0.001	0.2	2.07	13	<10	190	<0.5	2	0.39	<0.5	10	30	11	3.41
YY07974		0.61	0.011	0.3	3.00	22	<10	310	0.6	2	0.56	<0.5	12	36	22	3.76
YY07975		0.53	0.004	<0.2	2.42	21	<10	240	<0.5	2	0.34	0.5	10	30	16	3.38
YY07976		0.56	0.006	0.2	2.46	15	<10	170	0.5	<2	0.31	0.8	11	31	15	3.36
YY07977		0.49	0.011	<0.2	2.36	10	<10	200	<0.5	<2	0.30	1.1	11	29	14	3.48
YY07978		0.56	0.002	0.3	3.40	12	<10	230	0.5	<2	0.19	1.8	11	23	12	4.32
YY07979		0.46	0.003	0.8	3.54	10	<10	250	0.6	3	0.32	1.5	14	31	15	4.20
YY07980		0.53	0.006	0.5	2.90	25	<10	280	0.5	2	0.28	0.8	12	35	17	3.51
YY07981		0.44	0.007	1.3	3.49	58	<10	290	0.6	6	0.36	1.8	13	23	22	4.33
YY07982		0.55	0.012	0.5	2.64	51	<10	250	<0.5	2	1.03	0.7	12	21	22	3.94
YY07983		0.41	0.009	0.7	2.62	88	<10	210	<0.5	2	0.80	0.9	12	23	21	3.84



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To: STRATEGIC METALS LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH20168518**

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
YY07692		10	<1	0.17	10	1.07	1165	1	0.02	23	880	25	0.02	3	7	53
YY07693		10	<1	0.14	20	1.21	673	1	0.02	8	280	30	0.04	<2	10	36
YY07695		10	<1	0.08	20	0.72	323	1	0.02	26	180	17	<0.01	<2	9	35
YY07696		10	<1	0.20	10	0.66	327	1	0.01	27	230	15	<0.01	<2	8	23
YY07697		10	1	0.13	20	0.80	358	1	0.02	26	200	17	<0.01	<2	9	40
YY07698		10	<1	0.11	10	0.68	706	1	0.02	17	380	45	0.01	<2	5	38
YY07699		10	<1	0.54	10	1.37	778	1	0.03	13	560	16	<0.01	3	7	46
YY07700		10	<1	0.43	20	1.03	561	1	0.02	23	630	14	<0.01	<2	8	33
YY07951		10	<1	0.11	20	0.68	340	1	0.02	22	410	9	<0.01	<2	8	33
YY07952		10	<1	0.21	20	1.06	535	1	0.02	21	300	17	<0.01	2	10	44
YY07953		10	<1	0.19	10	0.77	1195	2	0.02	18	1520	16	0.02	<2	4	24
YY07954		10	<1	0.13	10	0.96	452	1	0.02	23	230	30	<0.01	<2	6	28
YY07955		10	<1	0.15	10	0.79	492	<1	0.03	11	380	21	<0.01	<2	8	107
YY07956		10	1	0.10	10	0.78	398	1	0.02	18	490	12	<0.01	2	6	37
YY07957		10	<1	0.09	10	0.77	379	1	0.02	16	370	34	<0.01	3	5	34
YY07958		10	<1	0.19	10	0.90	485	1	0.02	23	510	25	<0.01	2	6	36
YY07959		10	1	0.09	10	0.87	533	1	0.03	23	340	21	<0.01	2	7	68
YY07961		10	<1	0.07	10	0.59	476	2	0.02	16	650	15	0.04	<2	4	49
YY07962		10	<1	0.08	10	0.62	484	2	0.02	17	640	18	0.03	2	4	38
YY07963		10	<1	0.07	10	0.64	533	10	0.03	17	640	15	0.08	<2	4	63
YY07964		10	1	0.07	10	0.63	453	17	0.02	14	580	13	0.03	<2	4	53
YY07965		10	<1	0.07	10	0.56	619	19	0.02	15	600	16	0.03	<2	4	49
YY07966		10	<1	0.07	10	0.61	295	25	0.02	12	560	14	0.06	3	5	65
YY07967		10	1	0.10	10	0.72	357	27	0.02	14	610	10	0.04	2	6	63
YY07968		10	<1	0.11	10	0.79	291	20	0.02	14	520	13	0.02	<2	6	58
YY07969		10	<1	0.07	20	0.71	586	23	0.02	16	650	15	0.03	<2	5	41
YY07970		10	1	0.06	10	0.61	240	5	0.01	14	590	12	0.02	<2	4	30
YY07971		10	<1	0.08	10	0.60	408	4	0.02	14	590	15	0.04	<2	4	36
YY07972		10	<1	0.08	20	0.51	3770	4	0.02	16	920	57	0.06	2	4	45
YY07973		10	<1	0.08	10	0.73	391	1	0.02	17	240	19	<0.01	<2	4	24
YY07974		10	1	0.11	10	0.78	499	1	0.02	22	340	33	0.01	<2	8	46
YY07975		10	<1	0.08	10	0.69	423	1	0.01	17	270	23	0.01	<2	5	31
YY07976		10	1	0.07	10	0.65	421	1	0.01	21	420	33	0.01	<2	4	23
YY07977		10	<1	0.08	10	0.59	452	1	0.01	18	540	24	0.01	<2	4	23
YY07978		10	<1	0.10	10	0.71	449	1	0.01	15	380	55	0.01	<2	4	23
YY07979		10	<1	0.16	10	0.84	432	1	0.02	22	350	19	0.01	2	5	31
YY07980		10	<1	0.11	10	0.72	365	1	0.01	25	210	16	0.01	2	4	27
YY07981		10	<1	0.16	10	0.84	474	1	0.02	18	340	19	0.01	<2	5	36
YY07982		10	1	0.17	10	1.08	501	1	0.10	12	620	18	0.02	<2	6	81
YY07983		10	1	0.13	10	0.95	450	1	0.07	13	460	22	0.04	2	5	74



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Project: ALOTTA

**CERTIFICATE OF ANALYSIS WH20168518**

Sample Description	Method Analyte Units LOD	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
YY07692		<20	0.21	<10	<10	128	<10	264
YY07693		<20	0.06	<10	<10	115	<10	278
YY07695		<20	0.12	<10	<10	89	<10	73
YY07696		<20	0.15	<10	<10	84	<10	72
YY07697		<20	0.17	<10	<10	90	<10	68
YY07698		<20	0.10	<10	<10	85	<10	289
YY07699		<20	0.41	<10	<10	129	<10	117
YY07700		<20	0.29	<10	<10	111	<10	82
YY07951		<20	0.14	<10	<10	75	<10	52
YY07952		<20	0.27	<10	<10	118	<10	100
YY07953		<20	0.18	<10	<10	92	<10	142
YY07954		<20	0.21	<10	<10	105	<10	145
YY07955		<20	0.21	<10	<10	86	<10	105
YY07956		<20	0.17	<10	<10	86	<10	77
YY07957		<20	0.14	<10	<10	90	<10	130
YY07958		<20	0.21	<10	<10	113	<10	173
YY07959		<20	0.17	<10	<10	110	<10	141
YY07961		<20	0.07	<10	<10	61	<10	99
YY07962		<20	0.06	<10	<10	57	<10	90
YY07963		<20	0.07	<10	<10	58	<10	71
YY07964		<20	0.09	<10	<10	59	<10	84
YY07965		<20	0.08	<10	<10	58	<10	79
YY07966		<20	0.09	<10	<10	61	<10	84
YY07967		<20	0.12	<10	<10	73	<10	79
YY07968		<20	0.16	<10	<10	80	<10	102
YY07969		<20	0.11	<10	<10	72	<10	92
YY07970		<20	0.10	<10	<10	53	<10	77
YY07971		<20	0.10	<10	<10	61	<10	99
YY07972		<20	0.05	<10	<10	61	<10	146
YY07973		<20	0.15	<10	<10	85	<10	106
YY07974		<20	0.14	<10	<10	86	<10	108
YY07975		<20	0.13	<10	<10	82	<10	91
YY07976		<20	0.11	<10	<10	74	<10	105
YY07977		<20	0.12	<10	<10	78	<10	91
YY07978		<20	0.09	<10	<10	93	<10	200
YY07979		<20	0.21	<10	<10	102	<10	137
YY07980		<20	0.14	<10	<10	83	<10	100
YY07981		<20	0.16	<10	<10	97	<10	132
YY07982		<20	0.15	<10	<10	77	<10	142
YY07983		<20	0.12	<10	<10	70	<10	129



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Sample Description	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 %
	Method Analyte Units LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
YY07984	0.46	0.024	0.7	2.30	73	<10	210	0.5	3	0.82	0.5	11	29	28	3.38
YY07985	0.42	0.389	1.4	2.72	139	<10	300	0.5	4	1.02	2.3	12	22	28	4.31
YY07986	0.66	0.012	0.3	2.83	81	<10	380	0.6	2	0.61	0.5	13	31	31	4.85
YY07987	0.47	0.016	1.0	2.50	71	<10	270	0.5	3	1.02	<0.5	9	25	30	3.46
YY07988	0.50	0.075	0.4	2.72	278	<10	250	0.5	4	0.61	1.3	17	22	130	5.74
YY17851	0.41	0.033	1.3	1.90	98	<10	180	0.5	<2	1.20	0.9	10	21	96	3.23
YY17852	0.48	0.055	0.9	2.34	38	<10	210	0.5	2	0.96	0.7	10	25	120	3.72
YY17853	0.46	0.037	0.6	2.17	64	<10	210	0.6	2	1.04	0.5	10	24	114	3.82
YY17854	0.43	0.033	0.4	2.22	50	<10	250	0.5	2	1.27	0.5	13	24	98	4.35
YY17855	0.50	0.010	0.3	2.16	49	<10	200	<0.5	3	0.59	0.5	9	24	61	3.89
YY17856	0.47	0.032	0.4	1.95	160	<10	150	0.6	3	1.07	<0.5	11	26	87	3.44
YY17857	0.43	0.027	0.5	2.65	80	<10	200	0.9	<2	0.75	<0.5	15	31	68	4.15
YY17858	0.43	0.006	0.3	3.68	331	<10	230	0.6	2	0.42	<0.5	14	29	87	5.18
YY17859	0.47	0.008	0.2	2.93	21	<10	300	<0.5	3	0.54	<0.5	13	32	34	4.54
YY17860	0.44	0.058	0.5	2.90	61	<10	370	0.5	<2	0.65	<0.5	18	26	62	5.90
YY17861	0.53	0.008	0.2	1.94	24	<10	190	<0.5	2	0.34	<0.5	8	20	15	3.41
YY17862	0.47	0.006	<0.2	2.41	15	<10	200	<0.5	<2	0.23	<0.5	11	33	21	3.56
YY17863	0.54	0.008	<0.2	2.63	20	<10	260	<0.5	<2	0.24	<0.5	14	34	27	3.96
YY17864	0.56	0.011	<0.2	2.62	46	<10	210	0.6	3	0.45	<0.5	12	33	48	4.23
YY17866	0.56	0.010	0.7	3.86	90	<10	330	0.9	3	0.29	<0.5	16	23	84	5.93
YY17867	0.48	0.012	0.4	2.10	29	<10	170	0.5	<2	0.48	<0.5	11	29	57	3.15
YY17868	0.49	0.020	0.5	2.53	198	<10	220	0.7	3	0.64	<0.5	13	30	106	4.88
YY17869	0.55	0.013	0.4	2.65	105	<10	220	0.6	<2	0.68	<0.5	12	25	53	4.58
YY17870	0.53	0.020	0.7	2.55	41	<10	240	<0.5	2	0.54	<0.5	12	35	65	4.02
YY17871	0.59	0.014	0.6	2.57	51	<10	220	<0.5	3	0.43	0.5	11	25	69	4.38
YY17872	0.47	0.035	1.4	2.62	68	<10	230	0.5	2	1.08	0.5	11	22	90	4.34
YY17873	0.52	0.022	1.0	2.37	35	<10	210	<0.5	2	0.66	<0.5	10	29	82	3.53
YY17874	0.32	0.043	1.3	2.12	45	<10	210	0.5	2	1.27	0.7	10	25	106	3.34
YY17875	0.62	0.009	0.2	2.23	23	<10	220	0.5	<2	0.43	<0.5	10	31	17	3.34
YY17876	0.64	0.007	0.6	3.69	74	<10	260	0.6	2	0.39	1.9	16	33	19	4.56
YY17877	0.60	0.009	0.3	2.15	45	<10	290	0.5	<2	0.43	0.7	11	32	24	3.48
YY17878	0.57	0.018	0.5	3.03	74	<10	290	0.7	3	0.44	0.6	13	35	31	4.11
YY17879	0.53	0.004	0.7	3.14	16	<10	200	0.6	<2	0.24	0.6	13	42	23	3.86
YY17880	0.54	0.004	0.2	3.47	25	<10	320	0.5	2	0.74	2.1	12	15	9	4.27
YY17881	0.57	0.002	0.7	2.89	71	<10	240	<0.5	8	0.47	1.4	15	23	15	5.11
YY17882	0.55	0.013	0.5	3.02	107	<10	280	0.5	2	0.32	1.0	13	31	25	4.21
YY17883	0.52	0.012	1.3	3.50	83	<10	440	0.6	2	0.72	1.3	18	25	21	5.20
YY17884	0.51	0.029	2.1	3.37	84	<10	490	0.7	4	1.08	1.4	16	30	41	4.77
YY17885	0.52	0.015	1.2	3.01	73	<10	420	0.5	3	0.88	2.6	12	19	26	4.71
YY17886	0.49	0.006	0.4	2.52	48	<10	300	<0.5	3	0.73	0.9	11	25	24	3.67





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**CERTIFICATE OF ANALYSIS WH20168518**

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
YY07984		10	<1	0.10	20	0.78	515	1	0.04	18	580	15	0.02	2	6	52
YY07985		10	<1	0.26	30	0.86	707	1	0.03	12	810	21	0.05	2	8	64
YY07986		10	<1	0.14	20	1.02	677	1	0.02	17	480	24	0.01	3	10	46
YY07987		10	<1	0.22	20	0.79	337	1	0.02	14	650	14	0.05	<2	7	60
YY07988		10	<1	0.26	10	1.03	565	4	0.02	12	760	36	0.02	3	8	45
YY17851		10	1	0.11	20	0.64	398	4	0.02	13	730	18	0.05	2	6	62
YY17852		10	<1	0.20	20	0.85	350	3	0.02	14	680	14	0.03	<2	8	50
YY17853		10	1	0.21	20	0.85	460	8	0.02	15	760	14	0.02	2	9	45
YY17854		10	<1	0.22	20	0.97	398	19	0.02	16	730	10	0.04	3	9	51
YY17855		10	<1	0.19	10	0.83	282	9	0.02	14	450	12	0.01	2	6	30
YY17856		10	<1	0.10	20	0.75	366	19	0.02	17	650	13	0.04	4	7	49
YY17857		10	<1	0.10	40	0.74	965	3	0.02	19	580	11	0.01	<2	8	45
YY17858		10	<1	0.11	10	1.12	368	2	0.02	23	240	9	0.01	4	7	42
YY17859		10	<1	0.27	10	1.02	419	2	0.02	19	350	8	0.01	<2	6	31
YY17860		10	<1	0.42	20	1.16	693	5	0.03	15	870	10	0.02	3	7	33
YY17861		10	<1	0.20	10	0.62	321	1	0.02	9	470	9	0.01	<2	4	19
YY17862		10	<1	0.09	10	0.65	282	1	0.01	21	420	9	0.01	<2	4	18
YY17863		10	<1	0.18	10	0.84	485	1	0.02	26	440	9	0.01	<2	5	18
YY17864		10	<1	0.10	10	0.88	385	3	0.02	19	260	9	0.01	3	7	33
YY17866		10	<1	0.33	10	0.85	324	2	0.02	15	490	15	0.01	2	7	18
YY17867		10	<1	0.08	30	0.68	534	3	0.02	19	480	8	0.01	<2	5	32
YY17868		10	<1	0.12	20	0.99	383	12	0.02	17	710	13	0.01	3	8	35
YY17869		10	1	0.15	10	1.03	462	11	0.02	14	800	14	0.01	<2	7	36
YY17870		10	<1	0.11	10	0.90	345	5	0.02	21	530	10	0.01	<2	6	33
YY17871		10	<1	0.20	10	0.87	303	19	0.01	16	530	14	0.01	2	6	25
YY17872		10	1	0.22	20	0.83	375	3	0.02	15	550	15	0.02	3	9	50
YY17873		10	<1	0.11	20	0.76	362	2	0.02	21	470	14	0.02	3	6	41
YY17874		10	1	0.14	20	0.75	339	3	0.02	16	750	12	0.05	3	7	61
YY17875		10	<1	0.09	20	0.83	497	1	0.02	17	380	31	0.01	<2	7	31
YY17876		10	<1	0.13	10	0.79	681	1	0.02	22	450	101	0.03	<2	6	38
YY17877		10	<1	0.11	20	0.74	522	1	0.02	20	450	81	0.04	<2	6	34
YY17878		10	<1	0.13	20	0.83	632	1	0.02	22	330	68	0.06	<2	9	42
YY17879		10	<1	0.08	10	0.70	379	1	0.01	30	370	17	0.02	<2	5	20
YY17880		10	<1	0.19	10	0.89	884	1	0.02	10	470	90	0.03	<2	7	82
YY17881		10	1	0.28	10	1.13	621	1	0.02	12	340	47	0.04	<2	7	48
YY17882		10	<1	0.14	10	0.80	453	1	0.02	21	290	31	0.07	2	5	41
YY17883		10	<1	0.32	20	1.06	1150	2	0.02	15	590	25	0.03	<2	9	48
YY17884		10	<1	0.30	30	0.94	887	2	0.03	21	910	28	0.09	<2	10	69
YY17885		10	1	0.42	20	0.86	724	4	0.03	11	840	20	0.04	3	8	49
YY17886		10	<1	0.27	20	0.80	514	1	0.02	16	420	12	0.04	<2	6	50

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



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**CERTIFICATE OF ANALYSIS WH20168518**

Sample Description	Method Analyte Units LOD	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
YY07984		<20	0.10	<10	<10	70	<10	105
YY07985		<20	0.13	<10	<10	96	<10	197
YY07986		<20	0.22	<10	<10	113	<10	164
YY07987		<20	0.15	<10	<10	81	<10	93
YY07988		<20	0.15	<10	<10	114	<10	141
YY17851		<20	0.08	<10	<10	68	<10	90
YY17852		<20	0.15	<10	<10	84	<10	107
YY17853		<20	0.13	<10	<10	83	<10	93
YY17854		<20	0.18	<10	<10	102	<10	83
YY17855		<20	0.17	<10	<10	93	<10	81
YY17856		<20	0.10	<10	10	74	<10	66
YY17857		<20	0.08	<10	<10	84	<10	70
YY17858		<20	0.17	<10	<10	119	<10	60
YY17859		<20	0.25	<10	<10	112	<10	66
YY17860		<20	0.26	<10	<10	127	<10	91
YY17861		<20	0.19	<10	<10	98	<10	49
YY17862		<20	0.13	<10	<10	88	<10	49
YY17863		<20	0.17	<10	<10	92	<10	60
YY17864		<20	0.12	<10	<10	95	<10	56
YY17866		<20	0.14	<10	<10	111	<10	79
YY17867		<20	0.09	<10	<10	71	<10	58
YY17868		<20	0.13	<10	<10	92	<10	73
YY17869		<20	0.13	<10	<10	100	<10	75
YY17870		<20	0.16	<10	<10	91	<10	75
YY17871		<20	0.15	<10	<10	98	<10	76
YY17872		<20	0.12	<10	<10	93	<10	97
YY17873		<20	0.12	<10	<10	79	<10	80
YY17874		<20	0.12	<10	<10	74	<10	94
YY17875		<20	0.09	<10	<10	72	<10	108
YY17876		<20	0.14	<10	<10	95	<10	278
YY17877		<20	0.14	<10	<10	79	<10	155
YY17878		<20	0.12	<10	<10	87	<10	148
YY17879		<20	0.13	<10	<10	85	<10	103
YY17880		<20	0.07	<10	<10	89	<10	439
YY17881		<20	0.20	<10	<10	117	<10	219
YY17882		<20	0.11	<10	<10	89	<10	189
YY17883		<20	0.22	<10	<10	124	<10	187
YY17884		<20	0.16	<10	<10	107	<10	200
YY17885		<20	0.18	<10	<10	107	<10	216
YY17886		<20	0.19	<10	<10	91	<10	116



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY17887		0.52	0.016	0.4	2.71	70	<10	340	<0.5	2	0.84	<0.5	14	30	37	4.23
YY17888		0.34	0.024	1.0	2.25	29	<10	350	0.5	2	1.17	<0.5	12	27	66	3.35
YY17889		0.60	0.018	0.4	2.50	33	<10	270	0.5	<2	0.62	<0.5	11	31	56	3.81
YY17891		0.47	0.047	0.8	2.57	77	<10	210	<0.5	2	0.80	0.5	10	23	91	4.31
YY17892		0.48	0.058	0.5	2.24	45	<10	220	0.5	3	1.17	<0.5	10	23	77	3.98
YY17893		0.40	0.108	0.7	2.07	45	<10	200	0.5	2	1.40	0.7	11	21	101	3.65
YY17894		0.50	0.004	0.4	2.12	19	<10	90	0.5	<2	0.64	<0.5	7	22	40	3.65
YY17895		0.59	0.009	0.2	2.21	24	<10	170	0.5	<2	0.59	<0.5	11	29	52	3.28
YY17896		0.46	0.009	0.2	1.91	26	<10	150	<0.5	<2	0.60	<0.5	8	26	50	2.86
YY17897		0.62	0.008	<0.2	3.02	112	<10	170	0.6	4	0.57	<0.5	13	23	94	4.70
YY17898		0.47	0.001	0.4	2.70	164	<10	230	<0.5	3	0.58	<0.5	14	27	30	4.17
YY17899		0.56	0.004	0.4	2.94	167	<10	200	0.6	4	0.52	<0.5	11	30	38	4.06
YY17900		0.58	0.010	0.5	2.18	47	<10	200	<0.5	3	0.65	<0.5	9	28	21	2.73
YY07543		0.59	<0.001	0.3	3.71	32	<10	330	0.6	2	0.83	1.0	14	17	15	4.66
YY07544		0.53	<0.001	0.4	3.20	46	<10	260	0.6	<2	0.35	1.4	12	22	21	3.57
YY07545		0.66	0.001	1.0	2.92	23	<10	300	0.6	2	0.28	3.4	12	14	12	3.91
YY07546		0.49	0.004	0.5	3.03	54	<10	230	0.8	<2	0.32	3.0	11	15	11	4.85



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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 ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
YY17887		10	<1	0.19	10	0.96	559	2	0.02	17	570	18	0.03	3	7	50
YY17888		10	<1	0.10	20	0.73	577	2	0.02	16	770	14	0.07	<2	7	74
YY17889		10	<1	0.10	20	0.90	411	2	0.02	17	570	13	0.03	2	7	43
YY17891		10	<1	0.13	10	0.86	332	2	0.02	14	600	19	0.03	2	7	49
YY17892		10	1	0.19	20	0.89	358	14	0.02	14	740	11	0.08	<2	8	51
YY17893		10	1	0.20	20	0.79	639	6	0.02	14	740	11	0.08	3	8	58
YY17894		10	<1	0.08	10	0.56	200	24	0.01	12	220	9	0.02	2	4	47
YY17895		10	<1	0.09	10	0.68	333	11	0.01	17	280	8	0.02	<2	5	44
YY17896		10	<1	0.09	10	0.63	346	8	0.02	17	440	9	0.02	<2	5	34
YY17897		10	<1	0.12	10	0.96	345	6	0.01	13	610	16	0.02	3	7	37
YY17898		10	<1	0.10	10	0.97	565	2	0.02	14	400	12	0.03	<2	6	43
YY17899		10	<1	0.09	10	0.89	407	1	0.02	18	240	12	0.02	2	6	45
YY17900		10	<1	0.07	20	0.61	582	<1	0.02	16	510	9	0.02	<2	5	40
YY07543		10	1	0.37	10	0.99	606	1	0.02	12	570	14	0.02	<2	7	62
YY07544		10	<1	0.10	10	0.71	634	1	0.02	15	240	26	0.02	<2	5	72
YY07545		10	1	0.24	10	0.73	749	1	0.03	10	420	25	0.03	<2	5	60
YY07546		10	<1	0.15	10	0.84	924	1	0.01	9	450	855	0.04	<2	6	64



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Sample Description	Method Analyte Units LOD	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		20	0.01	10	10	1	10	2
YY17887		<20	0.20	<10	<10	99	<10	100
YY17888		<20	0.10	<10	<10	79	<10	66
YY17889		<20	0.15	<10	<10	88	<10	77
YY17891		<20	0.12	<10	<10	95	<10	114
YY17892		<20	0.15	<10	<10	94	<10	89
YY17893		<20	0.12	<10	<10	80	<10	93
YY17894		<20	0.11	<10	<10	77	<10	53
YY17895		<20	0.13	<10	<10	73	<10	53
YY17896		<20	0.11	<10	<10	66	<10	48
YY17897		<20	0.12	<10	<10	95	<10	71
YY17898		<20	0.10	<10	<10	92	<10	82
YY17899		<20	0.11	<10	<10	88	<10	89
YY17900		<20	0.11	<10	<10	64	<10	71
YY07543		<20	0.24	<10	<10	116	<10	160
YY07544		<20	0.07	<10	<10	76	<10	281
YY07545		<20	0.07	<10	<10	79	<10	305
YY07546		<20	0.03	<10	<10	81	<10	1065



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**CERTIFICATE OF ANALYSIS WH20168518**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 ME-ICP41