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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

NTS 115J/07

Latitude 62°21'N; Longitude 138°35'W

Field work performed from August 19 to August 26, 2019

in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

J. Morton, B.Sc., P.Geo.

January 2020

## **CONTENTS**

INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY AND PREVIOUS WORK	1
GEOMORPHOLOGY	3
REGIONAL GEOLOGY	3
PROPERTY GEOLOGY	5
GEOPHYSICS	5
MINERALIZATION	6
SOIL GEOCHEMISTRY	7
DISCUSSION AND CONCLUSIONS	8
REFERENCES	9

## **APPENDICES**

I	STATEMENT OF QUALIFICATIONS
II	STATEMENT OF EXPENDITURES
III	ROCK SAMPLE DESCRIPTIONS
IV	CERTIFICATES OF ANALYSIS

## **TABLES**

I	Regional Lithological Units	4
II	Soil Geochemical Thresholds	7

## FIGURES

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claims	1
3	Tectonic Setting	3
4	Regional Geology	3
5	Property Geology	5
6	Rock Sample Locations	6
7	Soil Sample Locations	7
8	Gold Soil Geochemistry	7
9	Copper Soil Geochemistry	7
10	Arsenic Soil Geochemistry	7
11	Molybdenum Soil Geochemistry	7

## **INTRODUCTION**

The Alotta property covers porphyry-type gold, copper and molybdenum mineralization in western Yukon. It lies within the Dawson Range Gold Belt – 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, which were conducted from August 19 to August 26, 2019. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals. The author supervised and participated in the exploration program and 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 54 contiguous mineral claims, which are located on NTS map sheet 115J/07 at latitude 62°21’ north and longitude 138°35’ west (Figure 1). The property covers an area of approximately 1128 hectares (11.28 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, 2025
Sev 37-54	YE60977-YE60994	January 23, 2024

\* Expiry dates include 2019 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 2019, 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.

## **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



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FIGURE 1  
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**PROPERTY LOCATION**

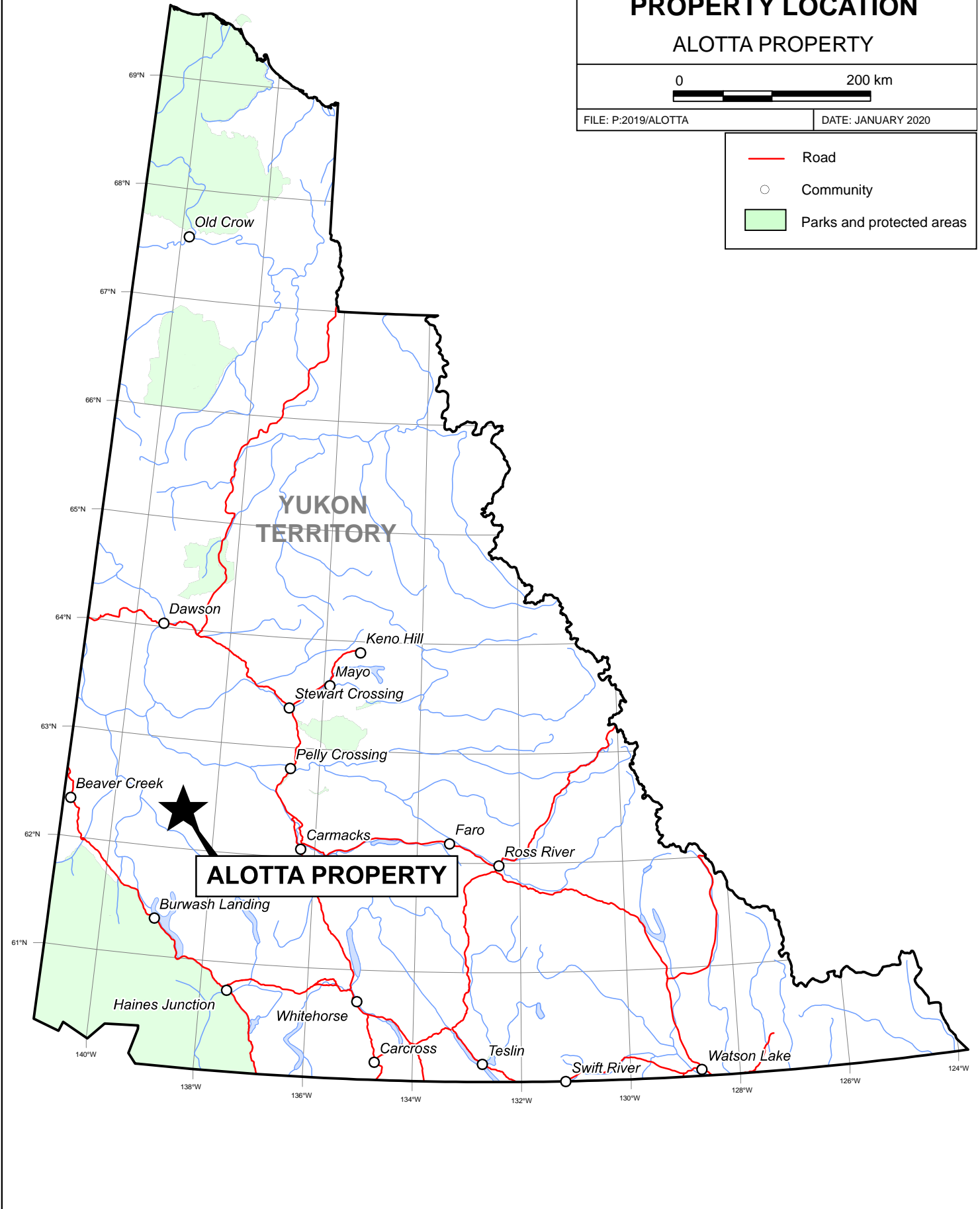
**ALOTTA PROPERTY**



FILE: P:2019/ALOTTA

DATE: JANUARY 2020

- Road
- Community
- Parks and protected areas





geochemical sampling. This work identified copper and molybdenum mineralization and the presence of a broad but erratic copper-in-soil anomaly. Soil samples were reportedly collected from very shallow depths, and both rock and soil samples were not analyzed for gold (Karvinen, 1970). The claims were subsequently 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, in order 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. Gridded 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 m by 1100 m area of anomalous gold-, copper-, arsenic- and molybdenum-in-soil. Geological mapping and prospecting was hampered by a lack of outcrop. One rock sample comprising moderately silicified and pyrite-bearing granodiorite returned 1.21 g/t gold and 0.35% copper (Cassleman, 2002).

In March 2003, Eagle Plains Resources Ltd. optioned the Severance property. In 2004, Eagle Plains initiated ground-based magnetic and induced-polarization (IP) surveys on the property, as well as additional geochemical sampling. Soil sampling extended the multi-element geochemical anomaly southwest of the 2002 grid. 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 (Casselman 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 January, 2019, Strategic Metals staked the Sev 1-36 claims to cover the historical soil geochemical anomaly and surrounding area. In November that year, Strategic Metals staked an additional 18 claims in order to cover prospective ground to the south and east.

### **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, which is a 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 river, while the middle part is characterized by south facing slopes and is thickly treed with poplar, spruce and shrub willow. The northern part of the property covers a gently sloping plateau that is sparsely treed with alder and dwarf spruce, and is covered 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 mild, 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 located within Yukon-Tanana Terrane (YTT), as shown on Figure 3. YTT represents a continental arc that developed between Late Devonian and Permian time along the ancient Pacific margin of North America. The segment of YTT containing the property is bounded by the Tintina Fault, 150 km to the northeast, and the Denali Fault, 100 km to the southwest. Both faults are steeply dipping transcurrent structures that have seen 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 Alotta was conducted in 1916 by the Geological Survey of Canada (GSC). That year, the GSC mapped an area extending south from the Yukon River to the junction of Somme Creek and the Klotassin River, immediately northwest of the property (Cairnes, 1917). Between 1970 and 1972, the GSC performed 1:250,000 scale mapping on NTS map sheet 115J and parts of 115K. This work was published in 1973 as a geological map of the Snag area (Tempelman-Kluit, 1973). In 2013 and 2018, the GSC published 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), respectively. Collectively, these maps cover the area of the Alotta property. Regional-scale geological maps appear on the Yukon Geological Survey (YGS) website, which is periodically updated when new information becomes available (YGS, 2019). The regional geology, illustrated on Figure 4 and described below, is based on mapping performed by the GSC and YGS.



# STRATEGIC METALS LTD.

FIGURE 3

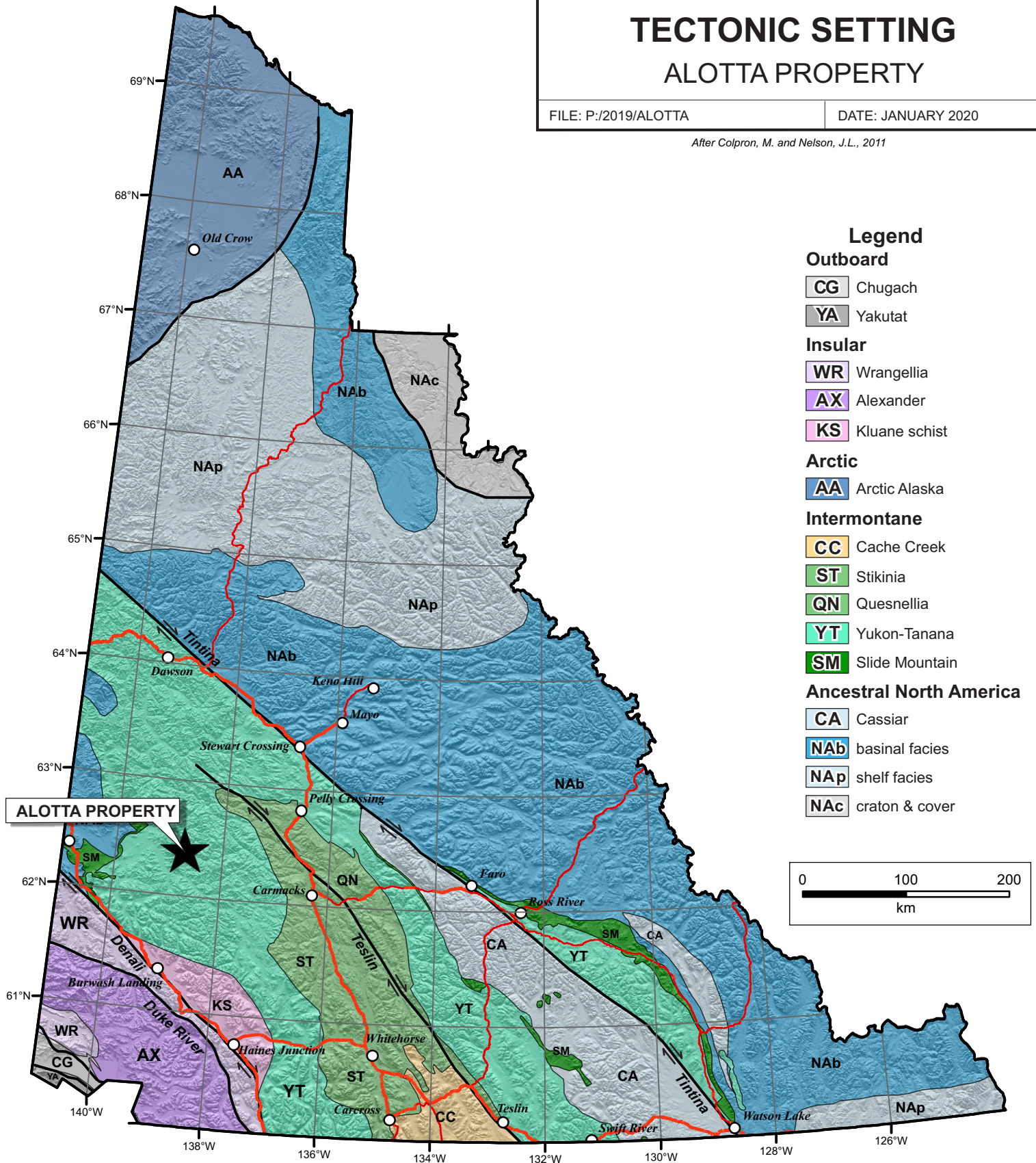
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## TECTONIC SETTING ALOTTA PROPERTY

FILE: P:/2019/ALOTTA

DATE: JANUARY 2020

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



### Legend

#### Outboard

- CG Chugach
- YA Yakutat

#### Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

#### Arctic

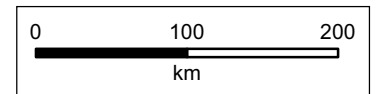
- AA Arctic Alaska

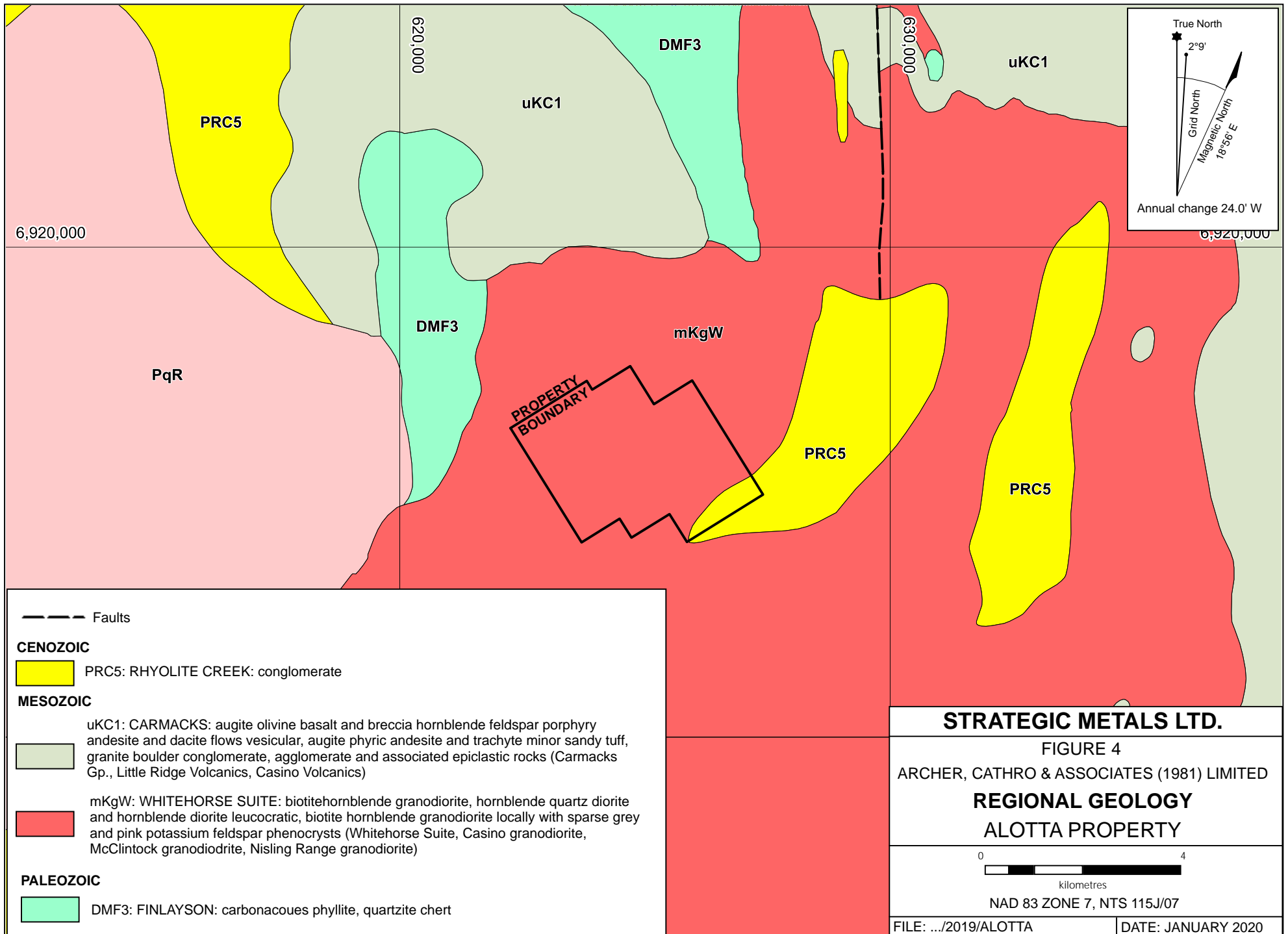
#### Intermontane

- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

#### Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAP shelf facies
- NAc craton & cover





--- Faults

**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)**

**mKgW: 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**

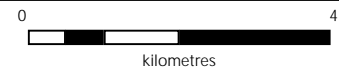
**DMF3: FINLAYSON: carbonaceous phyllite, quartzite chert**

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**FIGURE 4**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

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



**NAD 83 ZONE 7, NTS 115J/07**

**FILE: .../2019/ALOTTA**

**DATE: JANUARY 2020**

In the Alotta area, YTT is composed of strongly metamorphosed, Devonian to Mississippian, sedimentary and volcanic rocks of the Finlayson Assemblage (DMF3), which unconformably overlie an older package of continent-derived, meta-sedimentary rocks belonging to the Snowcap Assemblage (PDS1). Both assemblages are characterized by a transposition foliation developed at greenschist – amphibolite conditions, and are intruded by Cretaceous-aged Whitehorse Suite (mKgW) and Paleogene-aged Ruby Range Suite (PqR) plutons. Carmacks Group (uKC1) volcanics, which are extensive northeast of the property, unconformably overlie DMF3 and PDS1 (Ryan et al., 2018).

The Dawson Range phase of mKgW, 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, and is distinguished by blocky weathering, as well as porphyritic hornblende and lesser biotite.

West of the property, the high-level, fractionated, Pattison Pluton (PqR) cuts YTT stratigraphy and sits within a concentric field of slightly younger Rhyolite Creek (PRC5) volcanics. In plan-view, the pluton comprises a 61 km<sup>2</sup> alkali granite, which is mineralogically homogenous but texturally zoned. It is spatially and possibly genetically linked to a series of north-trending feldspar porphyry dykes, which are depicted as two elongate fields of PRC5, immediately east of the property. Because good exposures of PRC5 are rare, the geometry of the swarms have been interpreted from air photos (Tempelman-Kluit, 1974; Lynch and Pride, 1984)

Northeast of the property, a 37 km long, east-dipping normal fault marks the eastern boundary of DMF, and truncates a portion of the Dawson Range phase. At its southernmost extent, it is overlain by PRC5 volcanics, or is possibly occupied by, one of the PRC5 dyke swarms.

The main lithological units are described below in Table I.

**Table I – Lithological Units (adapted from YGS, 2019)**

Map Suite	Age	Map Unit	Description
Rhyolite Creek	Paleocene to Eocene	PRC5	Poorly lithified, light green to brown weathering, green, grey and maroon, volcanoclastic rocks and auto-breccia deposits; feldspar porphyritic to aphanitic, auto-brecciated, intermediate volcanic rock.
Pattison Pluton	Paleocene to Eocene	PqR	Texturally zoned, alaskitic alkali granite.
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	Hornblende diorite, biotite-hornblende quartz diorite and mesocratic, often strongly magnetic,

			hypersthene-hornblende diorite, quartz diorite and gabbro.
Finlayson Assemblage	Upper Devonian to Mississippian	DMF3	Carbonaceous phyllite and quartzite; chert.
Snowcap Assemblage	Neoproterozoic to Upper Devonian	PDS1	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. In 2002, 4763 NWT conducted limited geological mapping in conjunction with rock and soil geochemical sampling. The following summary, and the property geology depicted on Figure 5, is based on the work of 4763 NWT, as well as observations made by the author.

The northern part of the property is underlain by coarse-grained, hornblende-biotite granodiorite of the mid-Cretaceous 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 unaltered, quartz-feldspar porphyry suggests the presence of a small plug, which underlies the highest point along the ridge. These rocks are medium green, with a fine grained to aphanitic matrix and white quartz and plagioclase phenocrysts, up to 2 mm long. The plug is believed to be part of the Rhyolite Creek Complex, but could be Late Cretaceous (Casino Suite) in age, based on the lithological description.

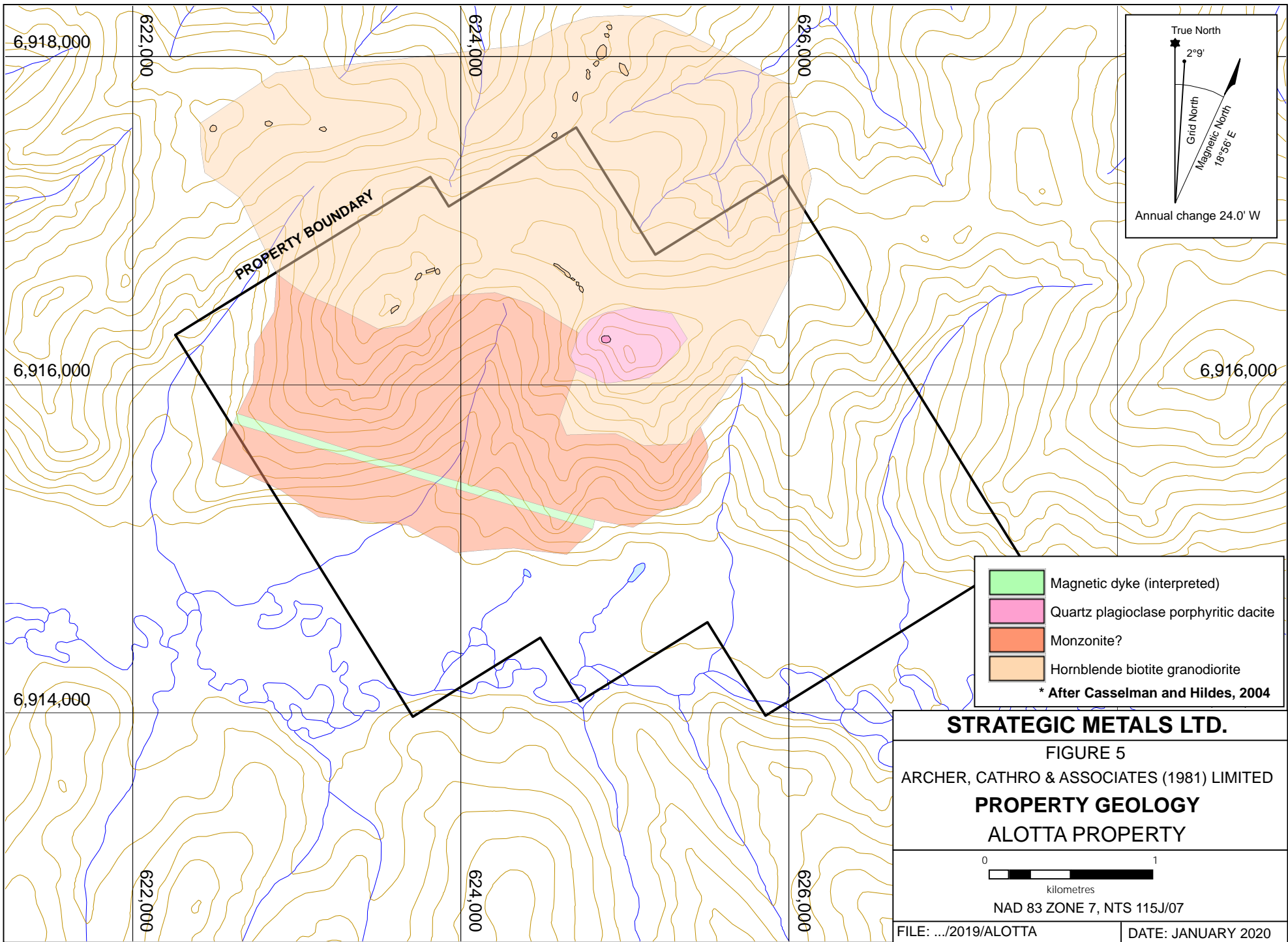
Fine to medium grained, light pink to medium grey, monzonite boulders have been observed in the western and southwestern part of the property. It is interpreted that a body of monzonite underlies the middle-western part of the property, based on the abundance of float, as well as the geophysical response of the area. Many of the boulders are weakly altered, and host trace amounts of disseminated hematite.





### **GEOPHYSICS**

In 2004, Eagle Plains performed ground-based magnetic and IP surveying 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 widely-spaced lines, resulting in a shallow analysis. 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 (L4200E). Conductor A occurs on line L3800 E, from 5550N to 5800N; line L4000E, from 5325N to 5775N; and line L4200E, from 5300N to 5650N. This conductor is modelled at a depth of approximately 50 m on all three lines. Conductor B, which may comprise several smaller discrete conductors, occurs on line L3800E, from 6325N to 6650N; line L4000E, from 6300N to 6825N; and line L4200E,






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

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FIGURE 5  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
**ALOTTA PROPERTY**

0  1  
 kilometres

NAD 83 ZONE 7, NTS 115J/07

FILE: ../2019/ALOTTA	DATE: JANUARY 2020
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from 5825N to 6075N. Conductor B is modelled to extend to surface on line L3800E and is 30 m deep on L4200E (Cassleman 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**

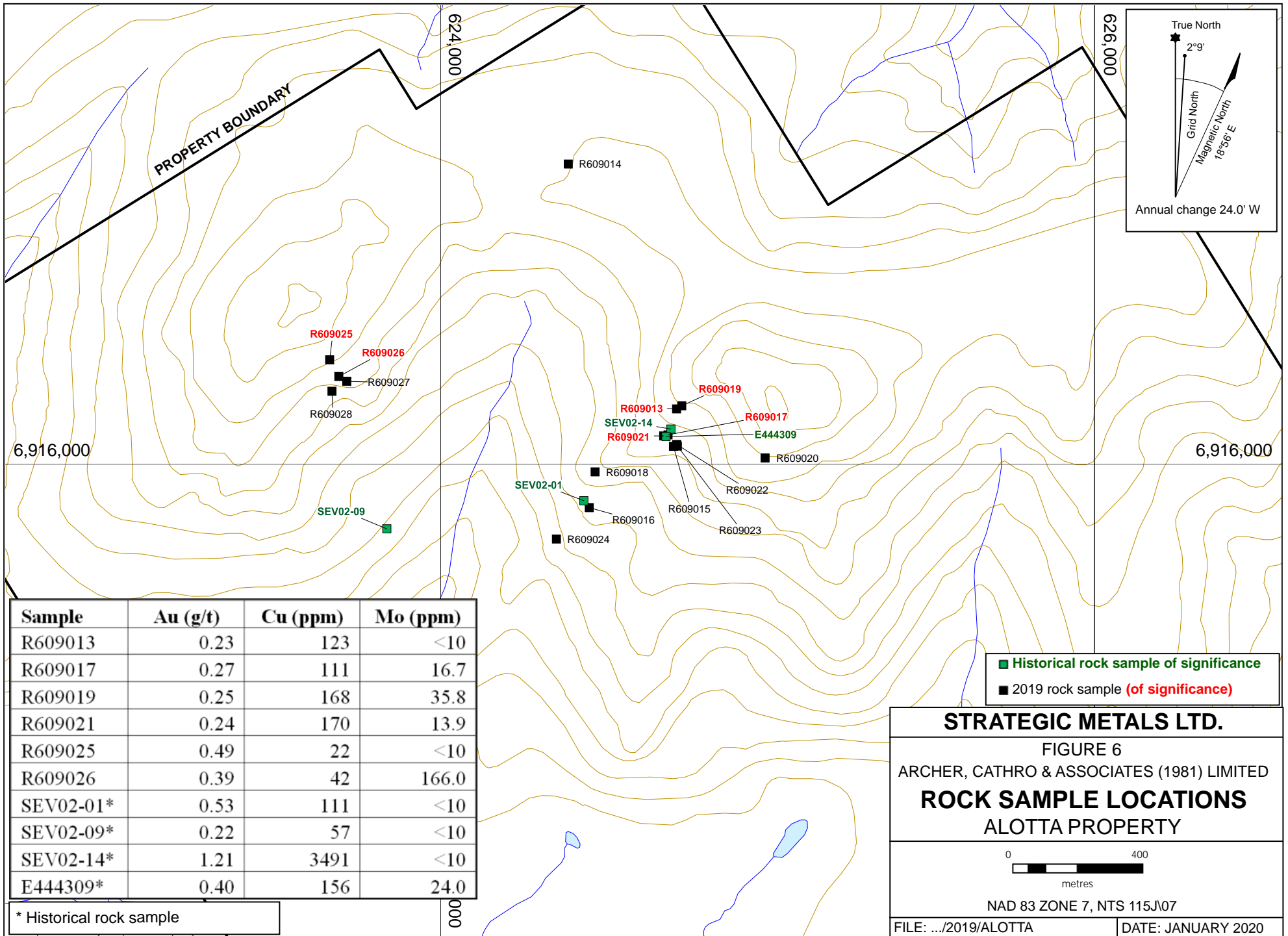
Rock sampling at the Alotta property has been hindered by thick vegetation and a lack of outcrop; however, limited prospecting has identified porphyry-type gold, copper and molybdenum mineralization. Because the property lies in an area of the Yukon that has not been glaciated, the majority of samples collected from Alotta 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, and hosting 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 (Cassleman, 2002).

In 2019, a total of 16 rock samples were collected from the property. The majority of the samples were removed from shallow pits. Rock sample locations are shown on Figure 6, along with significant results from all programs to date. Rock sample descriptions for the 2019 samples are provided in Appendix III, and Certificates of Analysis are provided in Appendix IV.

The 2019 rock geochemical 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).

Composite samples collected in the area of SEV02-14 assayed up to 0.27 g/t gold and 170 ppm copper. They comprised orange to brick-red weathering, altered, quartz-eye monzonite, with up to 2% disseminated, very fine grained pyrite and lesser hematite. None of these rocks yielded significant values for molybdenum. The strongest gold-in-rock response was obtained from an area located one kilometre west of SEV02-14. A composite sample from this area returned



Sample	Au (g/t)	Cu (ppm)	Mo (ppm)
R609013	0.23	123	<10
R609017	0.27	111	16.7
R609019	0.25	168	35.8
R609021	0.24	170	13.9
R609025	0.49	22	<10
R609026	0.39	42	166.0
SEV02-01*	0.53	111	<10
SEV02-09*	0.22	57	<10
SEV02-14*	1.21	3491	<10
E444309*	0.40	156	24.0

\* Historical rock sample

■ Historical rock sample of significance  
■ 2019 rock sample (of significance)

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FIGURE 6  
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**ROCK SAMPLE LOCATIONS**  
 ALOTTA PROPERTY

0 400  
 metres

NAD 83 ZONE 7, NTS 115J07

FILE: .../2019/ALOTTA      DATE: JANUARY 2020

0.49 g/t gold, with only background values for copper and molybdenum. The sample comprised orange-brown weathering, biotite monzonite, with phenocrysts of feldspar and rounded quartz, mm-scale barren quartz veinlets and chlorite and pyrite in fractures. A nearby sample of similar material, but with dark hematite staining around pyrite-bearing quartz veinlets, yielded 0.39 g/t gold, 166 ppm molybdenum and a background response for copper.

### **SOIL GEOCHEMISTRY**

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

In 2019, Strategic Metals collected 273 grid soil samples from the property, extending the geochemical coverage east of the historical grid. The 2019 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 2019 samples are provided in Appendix IV.

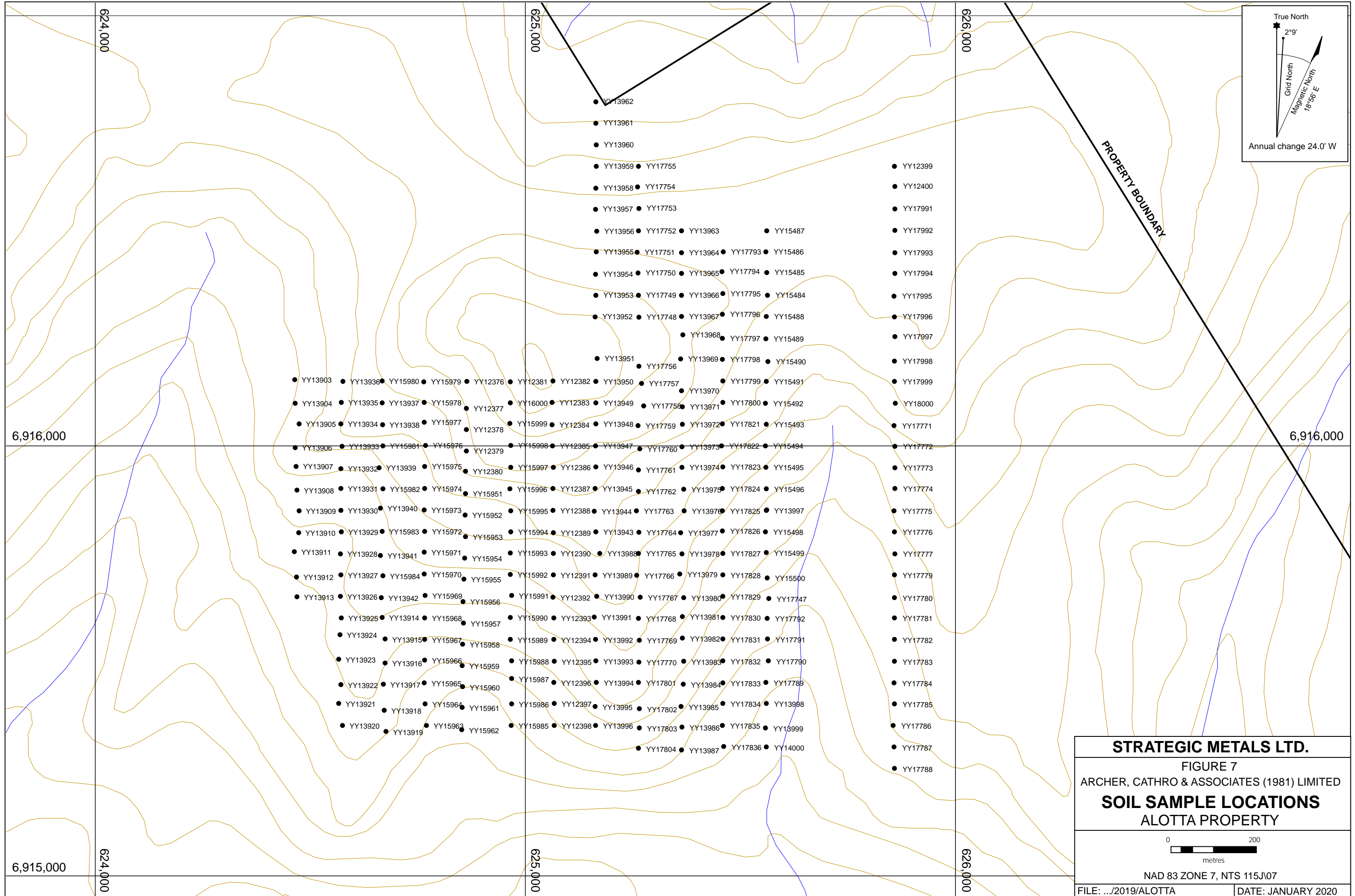
Soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 20 to 65 cm deep holes dug by handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were 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	Peak
Gold (ppb)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	2680
Copper (ppm)	≥ 20 < 50	≥ 50 < 100	≥ 100 < 200	≥ 200	459
Molybdenum (ppm)	≥ 2 < 5	≥ 5 < 10	≥ 10 < 20	≥ 20	55
Arsenic (ppm)	≥ 20 < 50	≥ 50 < 100	≥ 100 < 200	≥ 200	428

Soil sampling in 2019 was performed along north-south oriented sample lines, spaced 100 m apart. This work doubled the dimensions of the previously identified geochemical anomaly, which now covers a 2.3 km by 1.2 km area. Strongly to very strongly anomalous values for gold, copper and arsenic are scattered throughout the eastern part of the anomaly, including five consecutive samples that returned coincident, strongly anomalous values for both gold and copper. In the southeastern corner of the grid, sampling identified a small cluster of very



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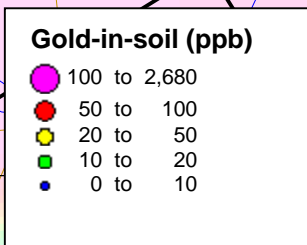
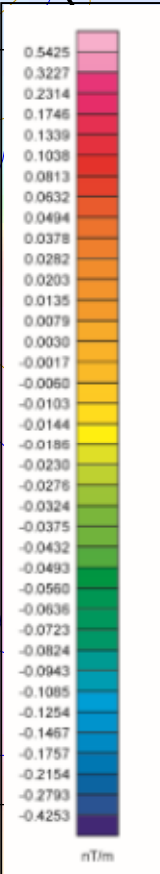
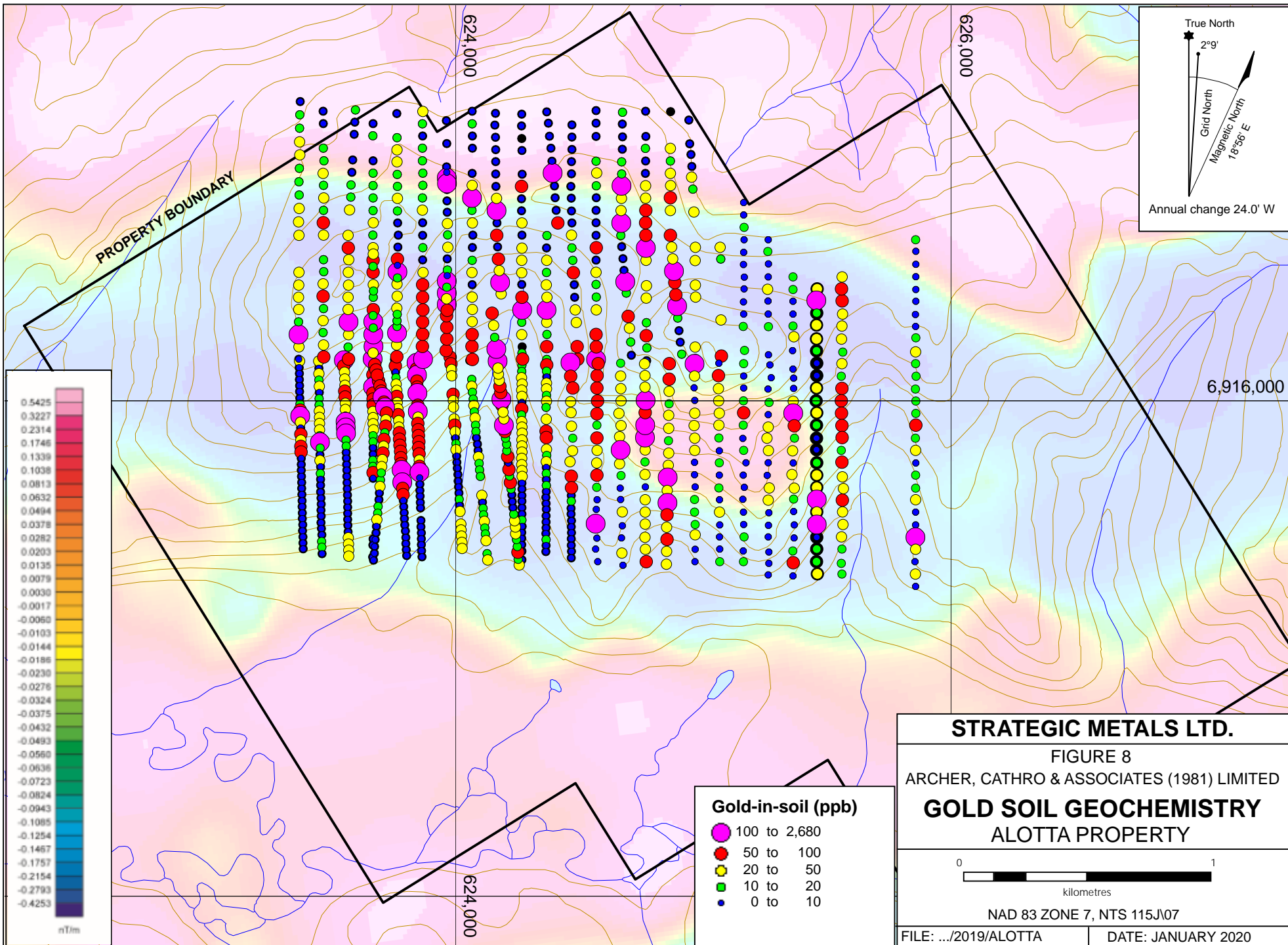
FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SOIL SAMPLE LOCATIONS**  
 ALOTTA PROPERTY

0 200  
 metres

NAD 83 ZONE 7, NTS 115J07

FILE: .../2019/ALOTTA DATE: JANUARY 2020





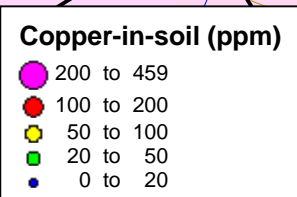
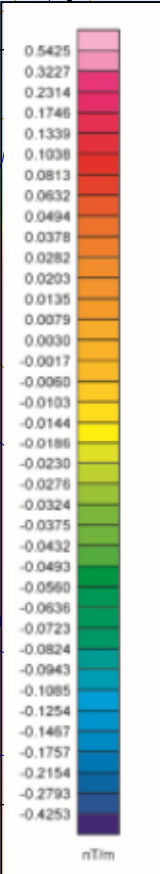
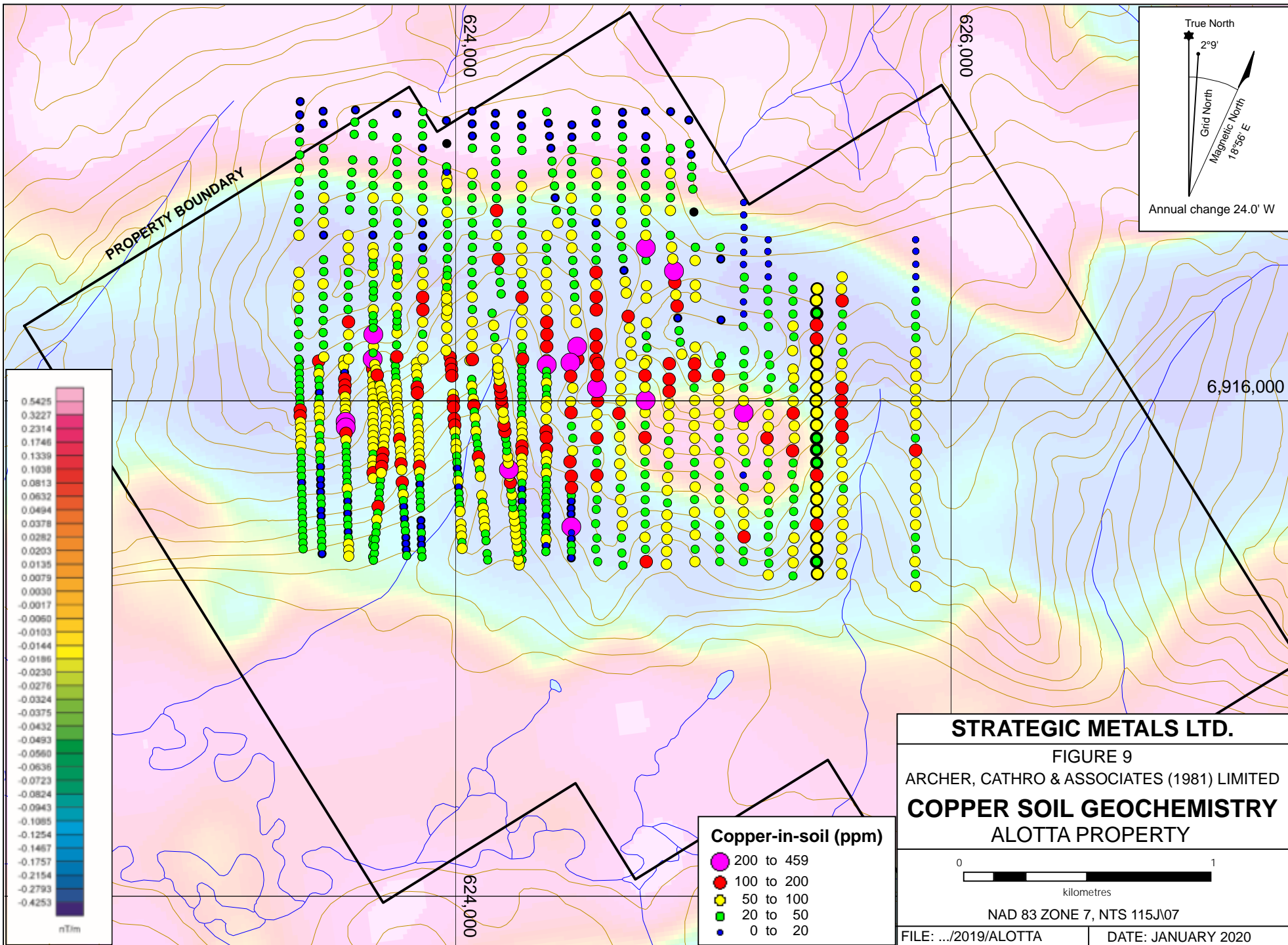
**STRATEGIC METALS LTD.**

FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL GEOCHEMISTRY**  
 ALOTTA PROPERTY

0  1  
 kilometres

NAD 83 ZONE 7, NTS 115J07

FILE: .../2019/ALOTTA	DATE: JANUARY 2020
-----------------------	--------------------



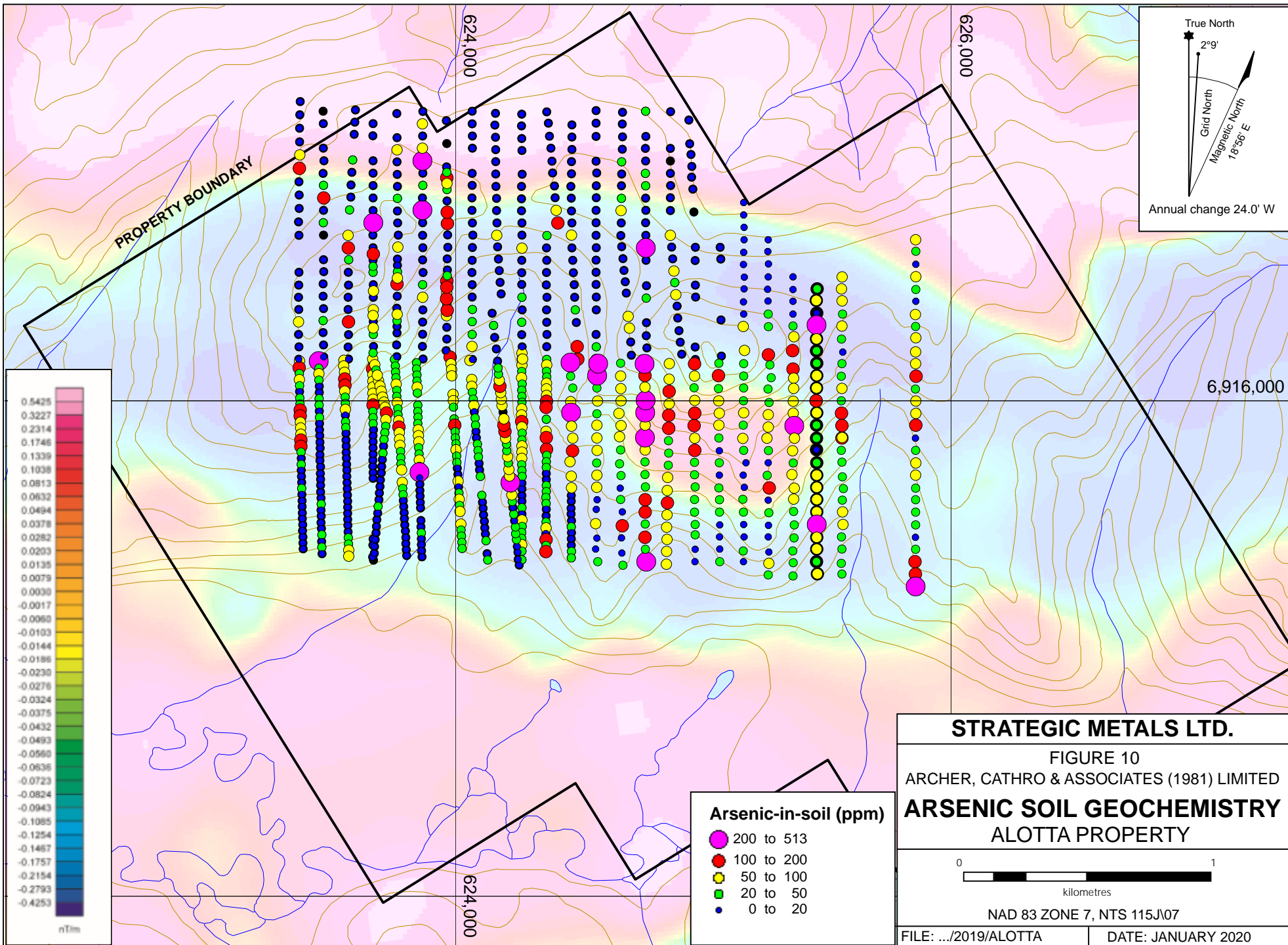
**STRATEGIC METALS LTD.**

FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER SOIL GEOCHEMISTRY**  
 ALOTTA PROPERTY

0 ————— 1  
 kilometres

NAD 83 ZONE 7, NTS 115J07

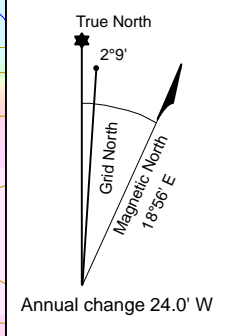
FILE: .../2019/ALOTTA      DATE: JANUARY 2020



PROPERTY BOUNDARY

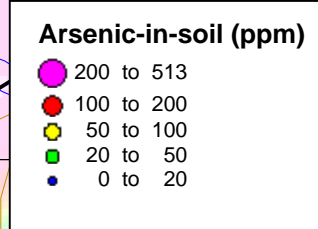
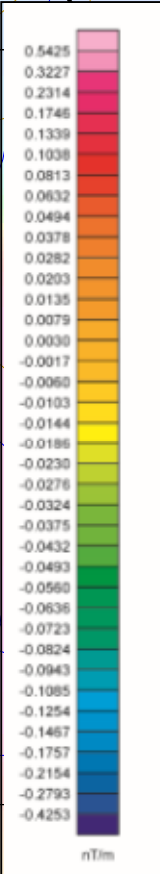
624,000

626,000



6,916,000

624,000



**STRATEGIC METALS LTD.**

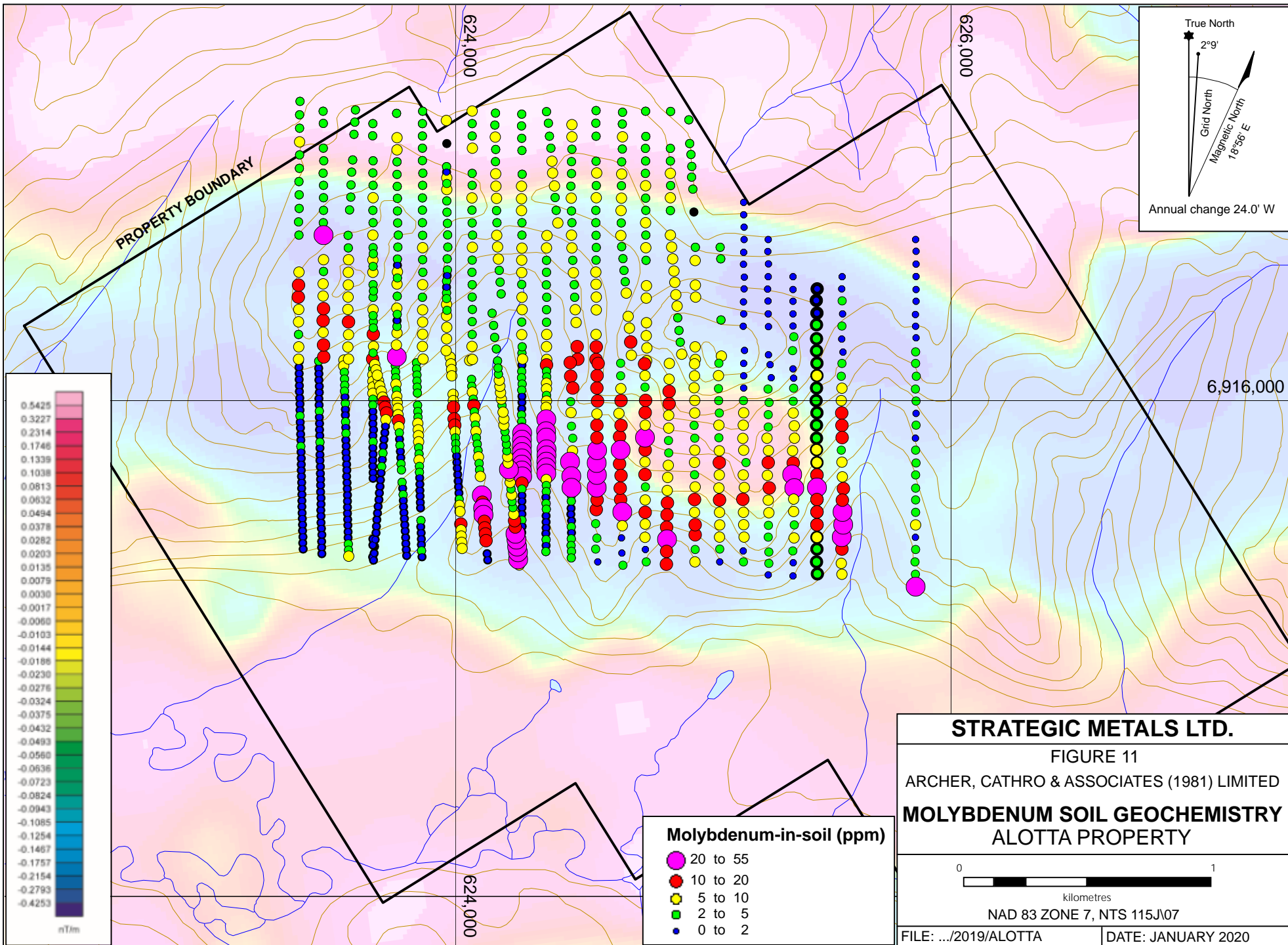
FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL GEOCHEMISTRY**  
ALOTTA PROPERTY

0 1  
kilometres

NAD 83 ZONE 7, NTS 115J07

FILE: .../2019/ALOTTA      DATE: JANUARY 2020





**STRATEGIC METALS LTD.**

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**MOLYBDENUM SOIL GEOCHEMISTRY**

**ALOTTA PROPERTY**

0 1  
kilometres

NAD 83 ZONE 7, NTS 115J07

FILE: ../2019/ALOTTA      DATE: JANUARY 2020

strongly anomalous molybdenum values. The geochemical anomaly remains open to the east and west.

### **DISCUSSION AND CONCLUSIONS**

The Alotta property covers a broad area of strongly elevated gold, copper and molybdenum soil geochemistry, which is centered on a pronounced ‘bulls-eye’ magnetic anomaly characteristic of a porphyry deposit. The property lies below treeline in an area that has not been glaciated.

Regional mapping suggests that the area is underlain by Whitehorse Suite granodiorite that is cut by porphyry dykes. This is significant for two reasons: 1) this geology resembles that of other important porphyry targets in the Dawson Range, including the nearby Casino deposit; and, 2) Whitehorse Suite typically contains sufficient magnetite to produce a strong, positive magnetic response, whereas the Alotta target is characterized by a westerly-elongated, oval-like magnetic low.

Soil sampling to date has identified a 2.3 km long by 1.2 km wide gold-copper-arsenic-molybdenum soil geochemical anomaly, which remains open to extension. Prospecting has been hampered by a lack of outcrop, which is observed almost exclusively along ridge crests. Rock sampling in 2002, in the central part of the property, yielded assays of up to 1.21 g/t gold and 3491 ppm copper. Work in 2019 resulted in the discovery of a second mineralized area, located one kilometre west of the 2002 samples, where a composite sample returned 0.49 g/t gold, with only background values for copper.

Further work on the Alotta property is warranted. Previous operators conducted IP surveying using under-powered equipment, which limited measurements to less than 200 m below the surface. Future work should include: 1) 3D induced polarization surveying (3DIP) with equipment capable of measuring to a greater depth, covering the entire area of the geochemical and magnetic anomaly; and 2) hand trenching, and possibly rotary air-blast (RAB) drilling or mechanized trenching, in areas that have returned the strongest geochemical response. Pending encouraging results, diamond drilling should be performed in order to test the mineralization at depth.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



J. Morton, B.Sc., P.Geol.

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 accessed: December 2019

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

## **STATEMENT OF QUALIFICATIONS**

I, Jack Morton, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from Simon Fraser University in 2013 with a B.Sc. in Earth Science.
2. From 2007 to present, I have been actively engaged in mineral exploration in Nevada, Yukon Territory, British Columbia, and Northwest Territories.
3. I am a Professional Geologist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (License Number 45807).
4. I supervised and participated in the exploration program and interpreted all data resulting from this work.



J. Morton, B.Sc., P.Geo.

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

**Statement of Expenditures**

**Alotta**

**January 17, 2020**

**Labour**

<b>Employee</b>	<b>Job Description</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/hr</b>	<b>Total</b>
Doug Eaton	Sr. Geologist	11	July 1 - August 31, 2019	\$ 120.00	\$ 1,320.00
Jack Morton	Sr. Geologist	68	July 1 - August 31, 2019	\$ 98.00	\$ 6,664.00
Jessie Thomspson Gladish	Geology Student, Labour	72	July 1 - August 31, 2019	\$ 66.00	\$ 4,752.00
Scott Newman	Mapping	4	July 1 - August 31, 2019	\$ 71.00	\$ 284.00
Thomas Rozsypalek	Labour	64	July 1 - August 31, 2019	\$ 49.00	\$ 3,136.00
Wayne Schneider	Labour, Expediting	10	July 1 - August 31, 2019	\$ 99.00	\$ 990.00
					<u>\$ 17,146.00</u>

**Report Writing - up to 10% of \$38,318.62**

<b>Employee</b>	<b>Job Description</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/hr</b>	<b>Total</b>
Doug Eaton	Sr. Geologist	4	Dec 1, 2019-Jan 15, 2020	\$ 120.00	\$ 480.00
Jack Morton	Sr. Geologist	32	Dec 1, 2019-Jan 15, 2020	\$ 98.00	\$ 3,136.00
					<u>\$ 3,616.00</u>

**Expenses**

Field room and board	20 mandays	\$ 100.00 /per day	\$ 2,000.00
Whitehorse room and board	3 mandays	\$ 180.00 / per day	\$ 540.00
Ecofor HROA			\$ 4,027.50
Capital Helicopters, as attached			\$ 5,777.00
Jet Fuel, AC Provided			\$ 912.72
ALS Chemex, as attached			\$ 7,915.40
			<u>\$ 21,172.62</u>

Total 2019 expenditures \$ 41,934.62

Expenditures for Sev 37-54 - Required Expenditures for 3.5 years assessment \$6,300

Ecofor	\$	4,027.50
Report Costs	\$	3,616.00
	\$	<u>7,643.50</u>



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

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**Rock Sample Descriptions**Property: Alotta

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Sample Number: R609013 Date Collected: 2019-08-20 UTM: 624722 mE Nad83, Zone 7  
Elevation: 3792 m Sampler: Jack Morton UTM: 6916168 mN

Comments: Composite sample of rusty to brick-red weathering, hematitic, quartz-eye monzonite(?), removed from a ~20 cm deep pit on a vegetated slope.

---

Sample Number: R609014 Date Collected: 2019-08-20 UTM: 624391 mE Nad83, Zone 7  
Elevation: 3691 m Sampler: Jack Morton UTM: 6916917 mN

Comments: Float sample of crowded biotite-hornblende porphyry granodiorite, with phenocrysts of hornblende that are being partially replaced with masses of very fine grained magnetite. Removed from a ~40cm deep pit.

---

Sample Number: R609015 Date Collected: 2019-08-21 UTM: 624713 mE Nad83, Zone 7  
Elevation: 3615 m Sampler: Jack Morton UTM: 6916053 mN

Comments: Composite sample, removed from a shallow pit, comprising orange weathering, bleached tan-white, moderately QSP-altered, coarse grained quartz-eye monzonite(?), hosting ~3% v.f.g. pyrite throughout and with abundant masses of dark black, earthy (chalcocite?) mineralization with trace v.f.g. chalcopyrite; patchy orange oxide throughout, and one piece has a barren 2mm wide quartz veinlet with v.f.g. black mineralization along selvages.

---

Sample Number: R609016 Date Collected: 2019-08-21 UTM: 624455 mE Nad83, Zone 7  
Elevation: 3361 m Sampler: Jack Morton UTM: 6915866 mN

Comments: Float sample of orange-brown weathering, pale yellow-green, intensely QSP-altered monzonite(?), with disseminated v.f.g. limonite throughout and <1mm wide chocolate brown hairline fractures; removed from a shallow pit on a vegetated slope.

---

Sample Number: R609017 Date Collected: 2019-08-22 UTM: 624696 mE Nad83, Zone 7  
Elevation: 3660 m Sampler: Jack Morton UTM: 6916088 mN

Comments: Composite sample of oxidized, orange weathering monzonite(?), removed from a 30 cm deep pit (at the site of an old soil sample?) No rep.

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**Rock Sample Descriptions**Property: Alotta

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Sample Number: R609018 Date Collected: 2019-08-22 UTM: 624473 mE Nad83, Zone 7  
Elevation: 3498 m Sampler: Jack Morton UTM: 6915975 mN

Comments: Composite sample of orange-brown weathering, dark grey quartz-eye monzonite(?), with round grains of quartz, 2-4mm in diameter, set in a very fine grained groundmass, with ~1% disseminated limonite throughout; removed from a shallow pit - this rock is a relatively un-altered version of R609015.

---

Sample Number: R609019 Date Collected: 2019-08-22 UTM: 624738 mE Nad83, Zone 7  
Elevation: 3835 m Sampler: Jack Morton UTM: 6916177 mN

Comments: Composite sample of brick-red weathering, moderately QSP-altered monzonite(?) with ~2% disseminated v.f.g. silvery pyrite throughout; removed from a shallow pit.

---

Sample Number: R609020 Date Collected: 2019-08-22 UTM: 624993 mE Nad83, Zone 7  
Elevation: 3953 m Sampler: Jack Morton UTM: 6916018 mN

Comments: Outcrop sample of dark red-brown weathering, medium grey, strongly fractured and strongly QSP-altered dacite(?), with ~3% disseminated v.f.g. limonite (after pyrite) throughout; excavated in a shallow pit.

---

Sample Number: R609021 Date Collected: 2019-08-24 UTM: 624683 mE Nad83, Zone 7  
Elevation: 3657 m Sampler: Jack Morton UTM: 6916085 mN

Comments: Composite sample of up to 10cm<sup>3</sup> pieces of rock with the same lithology as R609015, but with less pyrite and also hosting fine grained, brown (secondary?) biotite; removed from a 20 cm deep pit; no rep.

---

Sample Number: R609022 Date Collected: 2019-08-24 UTM: 624723 mE Nad83, Zone 7  
Elevation: 3645 m Sampler: Jack Morton UTM: 6916059 mN

Comments: Float sample of rusty weathering, pale grey, more clay-altered version of R609023?

---

Sample Number: R609023 Date Collected: 2019-08-24 UTM: 624725 mE Nad83, Zone 7  
Elevation: 3640 m Sampler: Jack Morton UTM: 6916054 mN

Comments: Subcrop sample of rusty-brown weathering, intensely silicified and pyritized monzonite(?), with several chocolate-brown and rusty hairline fractures, ~5% disseminated v.f.g. silvery pyrite throughout, often hosted within larger clots of dark black, earthy mineralization, and trace v.f.g. chalcopyrite.

---

---

**Rock Sample Descriptions**

---

Property: Alotta

Sample Number: R609024 Date Collected: 2019-08-24 UTM: 624355 mE Nad83, Zone 7  
Elevation: 3200 m Sampler: Jack Morton UTM: 6915770 mN

Comments: Composite sample of brick-red weathering, altered granodiorite (with mafic minerals altered to shreddy biotite?), and <`% disseminated, v.f.g. pyrite; removed from a shallow pit.

---

Sample Number: R609025 Date Collected: 2019-08-25 UTM: 623661 mE Nad83, Zone 7  
Elevation: 3671 m Sampler: Jack Morton UTM: 6916318 mN

Comments: Composite sample of orange-brown weathering, fresh medium grey-green, biotite monzonite, with phenocrysts of feldspar and rounded quartz, mm-scale barren quartz veinlets, and hairline fractures filled with chlorite and very fine grained pyrite; removed from a 50 cm deep pit.

---

Sample Number: R609026 Date Collected: 2019-08-25 UTM: 623689 mE Nad83, Zone 7  
Elevation: 3637 m Sampler: Jack Morton UTM: 6916267 mN

Comments: Composite sample of brown weathering rock with the same lithology as R609025, but with pervasive dark red hematite staining, focused around quartz veinlets hosting rare clots of fine grained pyrite; no rep, and sample on site is not representative.

---

Sample Number: R609027 Date Collected: 2019-08-25 UTM: 623713 mE Nad83, Zone 7  
Elevation: 3609 m Sampler: Jack Morton UTM: 6916252 mN

Comments: Composite sample of punky, intensley silicified monzonite(?) (of the R609025 variety?), with numerous cross-cutting <5mm wide quartz veinlets and hosting clots of dark black to orange oxide, as well as trace malachite; locally abundant on a vegetated slope.

---

Sample Number: R609028 Date Collected: 2019-08-25 UTM: 623668 mE Nad83, Zone 7  
Elevation: 3558 m Sampler: Jack Morton UTM: 6916222 mN

Comments: Float sample of orange weathering, bleached, pale grey, texturally-destructive quartz-sericite altered monzonite(?), with moderate clots of bright orange oxide; removed from a 70 cm deep pit.

---

**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: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

**CERTIFICATE WH19213275**

Project: Alotta

This report is for 274 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27-AUG-2019.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-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-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY13903		0.46	0.130	0.52	1.70	513	0.09	<10	110	0.77	1.96	0.97	0.64	39.8	11.2	23
YY13904		0.34	0.080	0.37	1.86	41.6	0.04	<10	100	0.46	1.15	0.48	0.34	23.7	6.5	21
YY13905		0.36	0.089	0.24	1.76	33.1	0.04	<10	130	0.43	0.82	0.72	0.39	19.40	9.8	25
YY13906		0.41	0.023	0.38	1.99	50.8	<0.02	<10	160	0.47	0.67	0.34	0.46	18.10	9.0	27
YY13907		0.44	0.022	0.19	2.36	297	<0.02	<10	80	0.72	0.70	0.37	0.41	20.5	7.3	13
YY13908		0.42	0.028	0.16	1.63	70.1	<0.02	<10	70	0.42	0.29	0.31	0.15	14.85	8.7	29
YY13909		0.42	0.018	0.13	2.07	55.8	<0.02	<10	80	0.48	0.52	0.30	0.18	15.30	7.7	27
YY13910		0.53	0.034	0.11	1.98	157.5	0.02	<10	70	0.56	0.72	0.28	0.22	16.45	6.3	21
YY13911		0.28	0.049	0.46	1.42	85.7	0.16	<10	120	0.55	0.66	1.34	0.80	25.4	7.7	20
YY13912		0.43	0.086	0.20	2.28	84.6	0.04	<10	150	0.70	0.69	0.87	0.17	32.9	10.2	25
YY13913		0.41	0.059	0.23	2.26	83.7	0.02	<10	150	0.53	0.80	0.98	0.33	28.5	11.8	24
YY13914		0.42	0.008	0.14	3.16	22.5	<0.02	<10	280	0.58	0.55	0.60	0.39	23.4	13.5	29
YY13915		0.49	0.028	0.16	3.38	9.5	<0.02	<10	290	0.68	0.84	0.48	0.19	34.1	11.4	24
YY13916		0.40	<0.001	0.47	4.28	106.0	<0.02	<10	440	0.69	1.04	0.60	0.71	26.3	18.0	28
YY13917		0.31	0.004	0.23	2.66	15.7	<0.02	<10	220	0.74	0.30	0.39	0.08	40.7	11.9	50
YY13918		0.50	0.030	0.24	2.27	17.5	0.02	<10	180	0.63	0.38	0.41	0.11	29.4	12.2	47
YY13919		0.37	<0.001	0.23	2.45	42.9	<0.02	<10	180	0.73	0.23	0.52	0.64	45.5	14.1	22
YY13920		0.46	0.002	0.52	3.38	28.4	<0.02	<10	290	0.82	0.34	0.45	0.48	43.4	16.4	36
YY13921		0.40	0.002	0.05	3.55	16.4	<0.02	<10	240	0.61	0.25	0.71	0.14	26.2	11.1	33
YY13922		0.39	0.007	0.16	3.18	12.1	<0.02	<10	380	0.71	0.32	0.69	0.26	23.0	13.9	30
YY13923		0.39	0.321	0.12	2.52	99.8	0.11	<10	200	0.46	2.71	0.24	0.15	20.7	12.2	36
YY13924		0.35	0.003	0.13	3.02	19.6	0.03	<10	200	0.51	0.35	0.32	0.31	15.00	15.3	34
YY13925		0.42	0.009	0.10	2.43	14.8	<0.02	<10	260	0.47	0.30	0.47	0.15	21.9	11.7	36
YY13926		0.38	0.017	0.23	2.86	56.7	<0.02	<10	250	0.43	0.65	0.42	0.23	18.05	12.3	30
YY13927		0.43	0.056	0.30	2.64	85.5	0.02	<10	170	0.50	0.88	0.71	0.23	21.7	13.4	27
YY13928		0.32	0.035	0.22	1.96	33.8	0.02	<10	140	0.46	0.52	0.47	0.23	17.35	7.9	26
YY13929		0.34	0.026	0.13	1.98	77.7	<0.02	<10	120	0.43	0.47	0.39	0.44	16.00	6.7	25
YY13930		0.17	0.066	0.66	1.57	98.7	0.04	<10	140	0.67	0.65	1.70	0.65	29.0	8.5	21
YY13931		0.38	0.016	0.37	2.67	90.0	<0.02	<10	120	0.64	1.59	0.45	0.47	15.70	10.0	22
YY13932		0.38	0.063	0.16	2.00	49.3	0.06	<10	90	0.57	0.58	0.36	0.13	21.5	8.5	32
YY13933		0.39	0.082	0.31	2.05	99.6	0.06	<10	90	0.55	1.19	0.38	0.47	15.95	8.4	24
YY13934		0.44	0.082	0.85	3.16	33.5	0.06	<10	150	0.93	0.69	0.16	0.65	17.55	13.7	36
YY13935		0.36	0.052	0.94	1.67	272	0.04	<10	130	0.56	1.17	0.23	0.88	22.8	9.0	20
YY13936		0.43	0.052	0.48	1.77	237	0.02	<10	140	0.50	1.71	0.32	0.57	23.1	9.8	23
YY13937		0.43	0.035	1.04	2.86	55.9	0.07	<10	140	0.67	0.54	0.31	0.41	19.35	10.7	36
YY13938		0.42	0.039	1.09	1.76	93.5	0.04	<10	130	0.45	0.85	0.41	0.56	21.5	8.6	32
YY13939		0.26	0.043	0.38	1.37	53.7	0.02	<10	110	0.48	0.90	1.57	0.75	27.1	6.1	18
YY13940		0.44	0.029	0.21	2.21	77.2	0.05	<10	140	0.45	0.56	0.45	0.29	19.45	9.5	29
YY13941		0.37	0.040	0.19	2.59	45.9	0.02	<10	140	0.53	0.55	0.53	0.19	20.7	11.1	31
YY13942		0.36	0.003	0.26	2.54	11.3	<0.02	<10	300	0.49	0.48	0.51	0.36	18.00	17.6	33



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Page: 2 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY13903		1.62	290	4.16	5.78	0.10	0.08	0.04	0.034	0.10	20.1	15.2	0.51	285	12.75	0.01
YY13904		1.53	134.0	3.50	6.35	0.06	0.03	0.02	0.031	0.09	12.1	15.5	0.58	170	19.25	0.01
YY13905		1.19	90.9	2.71	6.11	<0.05	<0.02	0.02	0.024	0.07	9.8	16.4	0.51	268	12.15	0.01
YY13906		1.25	56.3	3.22	7.90	<0.05	<0.02	0.02	0.024	0.07	9.2	15.5	0.44	215	4.87	<0.01
YY13907		1.13	198.5	4.09	7.64	0.05	0.05	0.01	0.056	0.14	10.2	18.0	0.67	196	5.85	<0.01
YY13908		0.52	48.8	2.83	5.09	<0.05	0.10	0.01	0.022	0.12	6.6	10.8	0.58	191	2.34	0.01
YY13909		0.66	42.7	2.95	6.04	<0.05	0.05	0.02	0.021	0.12	7.2	11.8	0.63	191	2.75	0.01
YY13910		0.62	70.9	2.75	5.71	<0.05	0.08	0.01	0.017	0.07	8.1	10.7	0.57	149	5.08	0.01
YY13911		0.72	142.0	2.43	4.67	0.09	0.07	0.04	0.035	0.08	13.0	11.0	0.45	256	22.9	0.01
YY13912		1.06	119.0	3.64	7.51	0.10	0.10	0.04	0.034	0.13	17.0	15.2	0.73	303	41.2	0.02
YY13913		1.22	121.5	3.90	7.94	0.10	0.08	0.04	0.051	0.17	14.5	14.9	0.85	365	43.1	0.02
YY13914		1.39	55.8	4.52	10.40	0.06	0.05	0.01	0.039	0.20	10.2	12.4	0.85	821	13.85	0.01
YY13915		1.45	79.1	4.23	10.55	0.07	0.12	0.01	0.051	0.18	13.5	11.8	0.90	251	24.7	0.02
YY13916		3.39	86.3	7.04	17.00	0.10	0.18	0.01	0.073	0.80	10.5	20.9	1.70	503	6.67	0.02
YY13917		0.74	28.9	3.59	7.42	0.06	0.46	0.02	0.035	0.07	14.4	12.5	0.71	248	1.50	0.01
YY13918		0.68	44.3	3.22	6.32	0.06	0.27	0.02	0.033	0.06	12.7	13.0	0.75	317	0.91	0.01
YY13919		1.69	44.5	4.19	8.87	0.08	0.09	0.01	0.070	0.26	15.3	18.8	0.93	504	3.07	0.01
YY13920		1.12	36.2	4.38	9.86	0.07	0.17	0.03	0.055	0.13	16.9	16.3	0.81	560	1.52	0.01
YY13921		1.27	25.8	3.39	9.47	0.06	0.11	0.01	0.033	0.14	9.9	11.7	0.71	284	2.28	0.01
YY13922		1.18	25.6	4.14	10.30	0.05	0.05	0.02	0.046	0.09	9.4	13.7	0.78	781	4.13	0.01
YY13923		0.94	30.8	3.51	6.76	0.05	0.05	0.02	0.033	0.09	9.9	14.6	0.64	247	3.73	0.01
YY13924		1.27	32.3	4.65	9.35	0.05	0.10	0.02	0.040	0.13	7.4	21.9	0.75	290	12.40	0.01
YY13925		0.91	36.0	3.55	7.99	0.06	0.13	0.02	0.032	0.07	11.5	14.6	0.81	411	11.20	0.01
YY13926		1.20	53.2	4.63	9.82	0.07	0.10	0.02	0.046	0.15	8.7	17.5	0.90	297	29.4	0.01
YY13927		1.22	103.5	4.53	9.23	0.09	0.08	0.02	0.054	0.24	12.6	16.5	0.95	374	38.8	0.02
YY13928		0.69	49.6	3.02	7.18	0.05	0.11	0.01	0.027	0.08	9.2	11.5	0.59	226	20.4	0.01
YY13929		0.93	45.4	3.09	7.89	<0.05	0.05	0.02	0.027	0.07	8.5	12.8	0.51	189	22.0	0.01
YY13930		0.76	186.0	2.36	4.64	0.09	0.05	0.05	0.031	0.08	18.4	12.2	0.42	386	16.15	0.01
YY13931		1.33	99.4	4.33	8.79	0.06	0.10	0.02	0.024	0.23	7.7	13.1	0.70	229	11.50	0.01
YY13932		0.78	78.6	3.42	5.83	0.05	0.13	0.01	0.021	0.13	8.6	12.4	0.63	224	6.02	0.01
YY13933		1.31	115.0	3.71	6.72	<0.05	0.06	0.01	0.031	0.14	8.0	12.8	0.57	221	12.10	0.01
YY13934		2.08	214	4.64	8.23	0.05	0.14	0.03	0.046	0.06	8.7	19.7	0.52	226	11.20	0.01
YY13935		1.74	172.0	3.26	6.46	0.05	0.05	0.02	0.038	0.08	12.5	11.9	0.35	198	12.70	0.01
YY13936		1.54	146.5	4.11	6.45	0.05	0.04	0.03	0.034	0.12	12.6	13.2	0.44	385	11.50	0.01
YY13937		1.24	88.2	3.90	7.54	<0.05	0.09	0.02	0.034	0.10	10.6	12.9	0.67	258	4.41	0.01
YY13938		0.51	67.8	2.99	5.07	<0.05	0.06	0.03	0.031	0.17	10.4	10.6	0.54	305	7.64	0.01
YY13939		0.82	125.5	2.19	4.89	0.08	0.09	0.03	0.044	0.10	13.5	10.4	0.51	163	5.73	0.01
YY13940		0.90	74.1	3.35	7.36	0.05	0.06	0.01	0.031	0.08	10.6	14.7	0.65	251	12.40	0.01
YY13941		0.89	78.6	3.80	7.61	0.05	0.10	0.02	0.039	0.07	10.9	12.8	0.76	389	16.00	0.01
YY13942		1.34	29.9	4.02	9.92	0.05	0.12	0.02	0.043	0.10	8.5	12.5	0.74	798	12.55	0.01





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Page: 2 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
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CERTIFICATE OF ANALYSIS WH19213275
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY13903		1.01	15.2	520	16.4	9.2	0.002	0.04	9.54	4.2	3.2	0.4	62.6	<0.01	1.03	2.8
YY13904		1.11	12.0	750	11.6	11.7	0.001	0.03	1.38	3.8	1.4	0.6	36.7	<0.01	0.47	2.2
YY13905		1.02	15.7	570	8.2	10.9	0.001	0.02	0.52	3.4	0.8	0.5	47.1	<0.01	0.25	1.4
YY13906		1.24	17.5	550	10.6	10.3	<0.001	0.01	0.73	2.8	0.6	0.7	28.7	<0.01	0.19	1.0
YY13907		0.52	7.1	210	13.4	14.2	0.001	<0.01	2.64	3.9	0.7	0.5	29.6	<0.01	0.13	5.6
YY13908		0.85	15.8	100	6.0	11.1	0.001	<0.01	0.97	3.7	0.3	0.5	23.8	<0.01	0.06	2.5
YY13909		1.09	16.4	140	6.7	10.7	<0.001	<0.01	1.22	3.8	0.4	0.5	24.1	<0.01	0.08	2.8
YY13910		0.75	12.8	100	8.2	7.8	<0.001	<0.01	2.13	3.3	0.5	0.4	26.1	<0.01	0.19	3.5
YY13911		1.14	12.5	690	10.7	8.6	0.013	0.11	1.57	3.7	7.2	0.4	67.7	<0.01	0.24	1.4
YY13912		2.02	17.1	520	9.0	14.4	0.004	0.02	1.35	8.1	1.7	0.6	55.6	<0.01	0.27	4.4
YY13913		2.50	16.2	600	9.0	19.6	0.003	0.03	1.45	8.9	1.9	0.8	56.7	<0.01	0.34	4.6
YY13914		2.38	19.4	650	9.5	19.0	0.001	<0.01	0.63	5.4	0.4	1.1	40.7	0.01	0.05	8.4
YY13915		1.54	15.6	290	8.2	20.6	0.011	<0.01	0.31	8.4	0.5	1.2	47.9	<0.01	0.07	10.5
YY13916		3.32	18.4	360	37.3	75.1	0.002	<0.01	0.47	9.1	0.3	2.6	41.6	<0.01	0.46	8.4
YY13917		1.31	29.7	150	7.9	8.5	<0.001	<0.01	0.41	10.2	0.4	0.7	30.7	<0.01	0.06	7.4
YY13918		0.73	27.6	370	7.0	7.0	<0.001	<0.01	0.41	6.3	0.4	0.6	29.8	<0.01	0.13	6.1
YY13919		1.21	13.1	250	17.7	19.4	<0.001	<0.01	0.87	7.9	0.4	1.1	46.7	<0.01	0.03	12.1
YY13920		1.33	21.8	430	13.6	16.4	<0.001	<0.01	0.58	9.5	0.4	1.4	53.1	<0.01	0.04	9.8
YY13921		1.49	20.8	320	8.2	13.9	<0.001	<0.01	0.34	5.2	0.3	1.1	67.0	0.02	0.03	7.7
YY13922		1.84	20.2	590	12.0	11.0	0.001	<0.01	0.48	6.4	0.2	1.5	57.9	0.01	0.06	8.8
YY13923		1.45	24.6	380	7.8	10.2	<0.001	0.05	1.51	4.2	0.5	0.7	24.4	<0.01	0.69	3.0
YY13924		2.41	24.7	600	9.9	20.3	0.001	<0.01	0.40	5.2	0.3	0.9	24.4	0.01	0.06	2.9
YY13925		1.53	23.3	280	7.7	12.1	0.001	<0.01	0.40	6.2	0.3	0.8	32.6	<0.01	0.08	3.6
YY13926		2.38	19.1	290	9.3	19.7	0.001	<0.01	0.77	6.8	0.6	1.0	28.3	<0.01	0.28	3.9
YY13927		2.56	18.4	440	10.2	24.9	0.002	<0.01	1.23	8.5	0.8	1.0	45.0	<0.01	0.31	4.2
YY13928		1.57	16.4	280	9.6	10.7	0.001	<0.01	0.53	4.2	0.4	0.6	32.0	<0.01	0.15	2.3
YY13929		1.69	14.8	270	9.7	11.9	0.001	<0.01	0.80	3.5	0.4	0.7	27.2	<0.01	0.15	2.0
YY13930		1.07	15.2	800	8.5	9.2	0.013	0.09	1.63	3.6	3.8	0.4	85.4	<0.01	0.25	0.9
YY13931		1.39	14.0	160	8.7	27.3	<0.001	<0.01	1.68	5.6	0.6	0.7	34.1	<0.01	0.81	3.4
YY13932		0.87	17.4	140	6.2	13.4	<0.001	0.01	0.83	5.0	0.7	0.5	29.9	<0.01	0.24	3.0
YY13933		1.09	14.3	160	9.9	15.6	0.001	<0.01	1.61	3.6	0.6	0.6	39.2	<0.01	0.65	2.9
YY13934		1.58	23.0	400	13.0	11.9	<0.001	0.01	1.39	4.0	0.7	0.7	16.6	0.01	0.32	2.7
YY13935		1.25	12.6	270	20.7	11.3	<0.001	0.03	2.73	2.7	0.7	0.5	24.9	<0.01	0.47	2.3
YY13936		1.20	13.9	300	17.0	11.8	<0.001	0.04	2.79	3.0	1.0	0.5	31.7	<0.01	0.61	2.4
YY13937		1.46	23.8	200	10.7	10.8	<0.001	0.02	0.81	4.3	0.4	0.6	28.2	<0.01	0.16	2.7
YY13938		1.23	17.1	250	13.9	11.6	<0.001	0.03	0.87	3.6	0.4	0.4	28.5	<0.01	0.32	2.4
YY13939		1.30	10.0	690	10.7	8.0	0.003	0.11	1.31	3.5	2.3	0.5	78.6	<0.01	0.22	1.7
YY13940		1.89	16.8	270	8.6	11.5	<0.001	0.02	0.76	4.2	0.5	0.7	31.4	<0.01	0.18	2.3
YY13941		2.06	18.9	260	7.9	10.4	0.001	0.02	0.90	6.0	0.5	0.8	38.5	<0.01	0.14	3.4
YY13942		2.69	21.9	400	8.6	17.9	0.001	0.02	0.41	7.0	0.5	1.2	35.9	<0.01	0.09	2.9



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Page: 2 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13903		0.053	0.10	3.27	45	0.18	12.95	82	2.6
YY13904		0.059	0.14	1.35	55	0.50	8.22	81	1.0
YY13905		0.054	0.12	0.93	52	0.24	5.79	67	0.6
YY13906		0.070	0.12	0.70	72	0.16	4.25	76	0.5
YY13907		0.013	0.21	0.76	57	0.23	5.78	56	2.3
YY13908		0.082	0.09	0.41	62	0.14	3.06	42	3.9
YY13909		0.063	0.10	0.45	63	0.18	3.25	47	1.8
YY13910		0.036	0.09	0.50	54	0.16	3.57	45	2.9
YY13911		0.059	0.08	9.53	45	0.15	13.05	72	2.3
YY13912		0.131	0.12	5.00	71	0.35	16.95	66	3.9
YY13913		0.163	0.17	3.37	82	0.69	13.50	75	3.6
YY13914		0.224	0.16	1.29	102	0.22	5.76	107	2.1
YY13915		0.169	0.18	1.55	95	0.18	5.94	74	3.9
YY13916		0.495	0.51	1.00	170	0.27	5.32	154	4.7
YY13917		0.140	0.09	0.96	86	0.28	5.74	53	16.4
YY13918		0.123	0.07	0.77	77	0.25	6.68	55	10.8
YY13919		0.133	0.15	1.34	95	0.24	8.29	139	2.9
YY13920		0.162	0.15	1.26	98	0.27	8.07	133	5.7
YY13921		0.178	0.12	0.88	81	0.27	3.76	58	3.8
YY13922		0.170	0.12	0.75	96	0.32	5.83	99	2.2
YY13923		0.104	0.10	0.63	73	0.24	4.07	53	2.0
YY13924		0.168	0.12	0.52	100	0.24	3.40	68	3.7
YY13925		0.154	0.11	1.01	84	0.38	6.66	62	4.7
YY13926		0.211	0.14	1.02	105	0.50	5.12	73	3.9
YY13927		0.187	0.19	1.52	91	0.25	9.33	79	3.1
YY13928		0.099	0.08	0.99	65	0.19	6.00	55	3.5
YY13929		0.088	0.11	0.72	71	0.26	3.90	57	1.9
YY13930		0.052	0.09	5.71	41	0.14	18.95	68	1.9
YY13931		0.088	0.26	0.70	76	0.18	3.89	58	4.2
YY13932		0.097	0.15	0.77	66	0.14	5.95	46	5.0
YY13933		0.052	0.16	0.69	64	0.19	3.78	65	3.0
YY13934		0.064	0.15	0.76	78	0.39	4.12	87	4.9
YY13935		0.041	0.11	0.75	56	0.16	4.38	75	2.6
YY13936		0.045	0.12	0.72	57	0.14	5.08	70	2.0
YY13937		0.077	0.14	0.52	75	0.18	3.72	67	4.1
YY13938		0.074	0.09	0.58	59	0.35	3.62	70	2.5
YY13939		0.061	0.08	4.28	39	0.11	11.05	94	3.9
YY13940		0.104	0.10	0.81	72	0.21	5.53	58	2.4
YY13941		0.125	0.13	0.95	79	0.21	6.56	63	4.3
YY13942		0.174	0.14	0.66	94	0.27	6.06	98	5.1



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Page: 3 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY13943		0.38	0.011	0.41	2.12	34.9	<0.02	<10	160	0.54	0.41	0.39	0.23	26.1	10.8	33
YY13944		0.43	0.006	0.30	2.41	73.7	<0.02	<10	120	0.55	0.66	0.42	0.43	23.2	10.4	33
YY13945		0.45	0.010	0.20	2.08	40.9	0.02	<10	120	0.49	0.64	0.43	0.19	23.4	9.4	29
YY13946		0.30	0.050	1.51	3.67	85.8	0.03	<10	190	1.42	1.52	0.84	0.75	50.2	17.6	41
YY13947		0.35	0.013	0.27	2.58	28.7	<0.02	<10	150	0.67	0.40	0.63	0.45	29.2	11.8	36
YY13948		0.32	0.008	0.13	2.27	48.5	<0.02	<10	140	0.47	0.46	0.50	0.22	21.4	10.5	34
YY13949		0.44	0.004	0.19	2.56	23.2	<0.02	<10	140	0.59	0.20	0.52	0.25	22.2	11.3	35
YY13950		0.36	0.015	0.13	2.30	25.8	<0.02	<10	150	0.48	0.25	0.45	0.17	23.5	10.6	35
YY13951		0.32	0.010	0.11	2.45	87.0	<0.02	<10	140	0.48	0.45	0.46	0.56	22.0	9.8	29
YY13952		0.36	0.010	0.18	1.69	50.5	<0.02	<10	110	0.43	0.39	0.51	0.34	24.8	10.9	29
YY13953		0.37	0.004	0.10	1.52	14.9	<0.02	<10	110	0.25	0.27	0.46	0.29	22.5	7.7	28
YY13954		0.30	0.008	0.08	1.37	6.5	<0.02	<10	100	0.19	0.22	0.38	0.23	17.75	4.8	25
YY13955		0.40	0.006	0.11	1.91	14.2	<0.02	<10	130	0.43	0.28	0.35	0.29	25.9	7.0	32
YY13956		0.49	0.007	0.10	2.03	8.5	<0.02	<10	130	0.40	0.30	0.35	0.23	22.4	7.3	31
YY13957		0.38	0.003	0.09	1.79	10.1	<0.02	<10	120	0.29	0.25	0.37	0.16	19.50	7.9	28
YY13958		0.39	0.005	0.08	1.89	12.2	<0.02	<10	130	0.31	0.26	0.36	0.18	20.0	8.7	29
YY13959		0.23	0.005	0.14	1.90	11.8	<0.02	<10	140	0.30	0.32	0.40	0.23	19.90	13.2	29
YY13960		0.36	0.013	0.12	1.87	9.3	<0.02	<10	130	0.25	0.32	0.37	0.17	19.70	8.9	27
YY13961		0.34	0.005	0.19	2.03	17.5	<0.02	<10	140	0.35	0.38	0.33	0.24	20.8	9.6	29
YY13962		0.29	0.006	0.11	1.81	13.9	<0.02	<10	120	0.26	0.27	0.32	0.16	19.80	8.0	24
YY13963		0.62	0.011	0.13	2.35	18.7	<0.02	<10	190	0.42	0.58	0.42	0.16	23.7	11.3	30
YY13964		0.42	0.014	0.17	2.11	14.5	<0.02	<10	170	0.32	0.46	0.45	0.17	23.4	11.9	29
YY13965		0.36	0.006	0.14	2.11	13.2	<0.02	<10	180	0.41	0.33	0.45	0.29	27.3	9.5	31
YY13966		0.32	0.006	0.10	2.23	7.9	<0.02	<10	150	0.43	0.20	0.67	0.18	24.2	8.4	30
YY13967		0.42	0.019	0.29	2.42	31.8	0.11	<10	190	0.61	0.33	0.57	0.36	33.7	10.3	31
YY13968		0.41	0.026	0.17	2.51	71.7	<0.02	<10	140	0.51	0.34	0.42	0.39	23.2	12.2	31
YY13969		0.35	0.007	0.41	1.86	104.0	<0.02	<10	180	0.56	0.33	0.57	1.01	30.9	10.7	26
YY13970		0.32	0.009	0.34	2.68	102.0	<0.02	<10	120	0.56	0.47	0.60	0.54	20.6	11.0	34
YY13971		0.44	0.006	0.31	2.43	96.0	<0.02	<10	140	0.49	0.38	0.45	0.51	22.3	10.7	35
YY13972		0.40	0.006	0.89	1.77	98.0	<0.02	<10	110	0.40	0.48	0.39	0.80	19.05	10.6	27
YY13973		0.38	0.040	0.55	2.22	83.7	0.02	<10	150	0.52	0.97	0.47	0.20	27.8	10.4	34
YY13974		0.40	0.113	0.47	2.56	79.4	0.05	<10	80	0.79	2.40	0.30	0.48	33.9	10.1	27
YY13975		0.33	0.076	0.97	2.22	293	0.11	<10	130	0.68	2.95	0.39	0.40	34.0	11.4	32
YY13976		0.33	0.011	0.38	2.11	61.6	<0.02	<10	220	0.54	0.96	0.47	0.99	26.6	11.8	30
YY13977		0.38	0.039	0.38	2.23	90.4	0.02	<10	120	0.54	1.12	0.49	0.27	27.2	13.1	33
YY13978		0.34	0.007	0.19	2.03	35.8	<0.02	<10	120	0.40	0.40	0.40	0.19	17.10	10.0	26
YY13979		0.37	0.046	0.25	2.32	66.7	<0.02	<10	150	0.41	0.48	0.43	0.32	22.3	9.8	29
YY13980		0.42	0.043	0.21	2.40	73.2	0.04	<10	200	0.45	0.71	0.47	0.19	23.5	13.9	27
YY13981		0.43	0.013	0.14	2.45	61.4	<0.02	<10	210	0.42	0.46	0.41	0.08	24.0	11.2	34
YY13982		0.41	0.003	0.28	2.45	33.6	<0.02	<10	240	0.47	0.33	0.35	0.30	20.8	13.9	34



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Page: 3 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
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Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY13943		0.86	52.4	3.20	6.45	0.05	0.08	0.02	0.041	0.05	14.5	13.8	0.64	429	9.28	0.01
YY13944		0.88	62.8	3.59	7.75	0.05	0.04	0.02	0.047	0.07	11.2	15.0	0.64	380	5.32	0.01
YY13945		0.78	68.3	3.46	6.53	0.06	0.07	0.01	0.036	0.10	11.8	13.3	0.68	294	5.14	0.01
YY13946		1.25	240	4.73	10.25	0.11	0.07	0.04	0.086	0.17	26.5	16.2	0.71	713	5.79	0.02
YY13947		0.83	56.0	3.39	7.30	0.06	0.05	0.02	0.052	0.15	15.2	14.3	0.71	484	2.38	0.01
YY13948		0.82	36.4	3.24	6.59	0.05	0.05	0.01	0.050	0.09	9.8	13.5	0.72	333	1.77	0.01
YY13949		0.97	23.7	3.13	6.75	<0.05	0.05	0.02	0.045	0.08	9.7	13.5	0.73	308	1.12	0.01
YY13950		0.99	29.5	3.14	6.22	0.05	0.07	0.02	0.048	0.05	10.1	12.0	0.67	382	1.14	0.01
YY13951		1.57	26.1	3.30	7.73	<0.05	0.04	0.01	0.064	0.06	11.0	17.2	0.64	330	1.69	0.01
YY13952		1.17	21.9	2.66	5.74	0.06	0.03	0.04	0.058	0.05	12.0	12.2	0.53	931	1.73	0.01
YY13953		0.93	14.1	2.18	5.19	0.05	0.03	0.03	0.045	0.06	11.3	11.5	0.55	212	0.90	0.01
YY13954		0.96	9.6	1.64	5.13	<0.05	0.02	0.03	0.032	0.05	8.8	9.9	0.48	131	0.60	0.01
YY13955		1.11	27.9	2.05	5.98	0.05	0.02	0.05	0.053	0.05	12.9	12.9	0.56	156	0.69	0.01
YY13956		1.06	24.4	2.05	6.26	<0.05	0.03	0.04	0.050	0.06	11.4	13.5	0.60	167	0.84	0.01
YY13957		1.04	13.7	2.27	6.06	<0.05	0.02	0.04	0.045	0.05	9.6	12.2	0.55	199	0.92	0.01
YY13958		1.12	16.0	2.57	6.43	<0.05	0.02	0.03	0.047	0.05	9.9	12.9	0.57	245	0.97	0.01
YY13959		1.07	17.1	2.49	6.10	<0.05	0.02	0.05	0.046	0.06	9.9	11.9	0.57	288	1.07	0.01
YY13960		1.10	15.7	2.24	6.37	0.05	0.02	0.04	0.043	0.05	10.1	12.5	0.56	322	0.83	0.01
YY13961		1.15	19.1	2.74	6.47	0.05	0.02	0.04	0.050	0.05	10.3	12.6	0.56	302	1.09	0.01
YY13962		0.98	14.8	2.43	6.04	<0.05	0.02	0.03	0.045	0.05	10.0	11.4	0.53	199	0.96	0.01
YY13963		1.62	27.2	3.18	7.02	0.07	0.06	0.03	0.051	0.09	11.8	15.2	0.82	301	1.01	0.01
YY13964		1.42	23.2	3.24	7.03	0.06	0.04	0.03	0.051	0.07	11.7	14.3	0.78	359	1.70	0.01
YY13965		1.26	29.6	2.55	6.74	0.06	0.05	0.04	0.057	0.06	13.4	15.3	0.71	207	0.89	0.01
YY13966		1.13	25.8	2.36	7.16	0.05	0.04	0.04	0.052	0.05	12.0	16.0	0.78	288	0.93	0.01
YY13967		1.81	54.5	2.99	7.40	0.07	0.04	0.06	0.077	0.07	17.5	18.1	0.80	275	1.66	0.01
YY13968		2.00	45.6	3.83	7.78	0.05	0.04	0.02	0.070	0.09	11.8	19.8	0.78	323	3.23	0.01
YY13969		1.45	67.6	3.01	6.58	0.06	0.03	0.01	0.064	0.08	16.1	13.5	0.50	858	2.30	0.01
YY13970		1.43	63.9	3.82	6.56	<0.05	0.06	0.02	0.100	0.08	8.1	14.7	0.74	371	1.61	0.01
YY13971		1.19	58.8	3.34	6.94	<0.05	0.11	0.02	0.076	0.06	10.1	11.9	0.66	327	1.72	0.02
YY13972		0.93	49.3	3.11	7.62	<0.05	0.04	0.02	0.056	0.07	10.6	8.6	0.42	306	3.87	0.02
YY13973		0.69	69.1	3.40	5.97	0.05	0.16	0.02	0.047	0.07	11.2	11.7	0.68	378	2.38	0.02
YY13974		1.00	124.5	4.11	7.91	<0.05	0.12	0.02	0.073	0.11	12.2	12.8	0.58	256	7.53	0.02
YY13975		0.75	90.1	3.57	7.05	0.05	0.15	0.02	0.056	0.07	13.2	11.2	0.56	362	7.44	0.02
YY13976		0.44	51.0	3.21	6.73	0.05	0.08	0.02	0.050	0.15	10.5	10.5	0.52	466	6.85	0.02
YY13977		0.74	105.5	3.62	7.59	0.08	0.21	0.02	0.064	0.09	13.7	13.8	0.60	422	7.45	0.03
YY13978		0.54	29.5	3.72	7.82	<0.05	0.05	0.05	0.049	0.11	8.1	12.7	0.54	321	19.70	0.02
YY13979		0.69	40.3	4.10	9.65	0.05	0.07	0.02	0.041	0.09	12.1	12.5	0.60	404	41.5	0.01
YY13980		1.03	45.0	4.46	8.84	0.09	0.13	0.01	0.039	0.15	12.4	13.3	0.89	399	21.9	0.02
YY13981		0.87	36.2	3.83	8.15	0.07	0.16	0.01	0.035	0.12	12.6	12.9	0.78	346	9.65	0.02
YY13982		1.01	24.6	3.86	8.35	0.05	0.06	0.01	0.041	0.16	9.8	14.1	0.70	330	6.00	0.02



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Page: 3 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
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CERTIFICATE OF ANALYSIS WH19213275
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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY13943		1.39	18.8	280	7.4	9.3	<0.001	0.02	0.65	5.1	0.4	0.6	30.8	<0.01	0.09	2.7
YY13944		1.60	20.3	320	7.9	11.5	<0.001	0.04	0.92	4.1	0.4	0.7	37.0	<0.01	0.10	2.1
YY13945		1.87	17.7	280	6.6	12.4	<0.001	0.03	0.61	4.5	0.6	0.6	30.1	<0.01	0.16	2.5
YY13946		1.77	31.8	740	13.3	15.3	<0.001	0.05	1.16	7.7	1.0	0.9	67.2	<0.01	0.35	2.2
YY13947		1.65	24.6	420	9.0	16.8	<0.001	0.04	0.53	5.5	0.4	0.8	46.3	<0.01	0.08	1.6
YY13948		1.56	22.3	310	8.4	9.8	<0.001	0.03	0.73	4.4	0.2	0.9	37.7	<0.01	0.05	2.3
YY13949		1.52	27.8	300	8.5	9.4	<0.001	0.03	0.38	4.5	0.3	0.9	40.9	<0.01	0.04	1.7
YY13950		1.48	22.5	410	8.7	8.0	<0.001	0.03	0.43	4.3	0.2	0.8	30.2	<0.01	0.02	2.7
YY13951		1.64	19.1	510	12.3	10.5	<0.001	0.03	0.84	4.2	0.3	1.3	29.8	<0.01	0.04	2.1
YY13952		1.14	15.1	730	12.8	8.5	<0.001	0.05	0.58	3.7	0.5	0.8	30.7	<0.01	0.04	1.5
YY13953		1.25	14.2	830	8.0	9.1	<0.001	0.05	0.31	3.7	0.4	0.7	25.8	<0.01	0.03	1.6
YY13954		1.09	11.7	670	7.3	6.2	<0.001	0.05	0.25	2.8	0.3	0.6	21.8	<0.01	0.02	0.9
YY13955		1.28	15.4	740	9.3	9.1	<0.001	0.07	0.44	3.9	0.6	0.7	21.4	<0.01	0.02	1.2
YY13956		1.36	16.6	650	9.4	8.0	<0.001	0.05	0.44	3.8	0.4	0.7	20.3	<0.01	0.03	1.4
YY13957		1.27	15.1	640	8.0	8.9	<0.001	0.04	0.32	3.5	0.5	0.7	23.8	<0.01	0.03	1.0
YY13958		1.26	14.9	690	8.0	9.4	<0.001	0.05	0.35	3.5	0.3	0.8	22.2	<0.01	0.03	0.9
YY13959		1.21	15.3	800	8.4	9.5	<0.001	0.06	0.39	3.9	0.4	0.8	25.9	<0.01	0.04	0.7
YY13960		1.13	13.9	690	8.4	9.8	<0.001	0.05	0.34	3.8	0.4	0.8	23.0	<0.01	0.04	1.0
YY13961		1.15	14.4	790	9.3	11.2	<0.001	0.05	0.36	3.8	0.4	0.8	21.6	<0.01	0.06	0.8
YY13962		1.11	13.0	650	7.5	10.1	<0.001	0.04	0.31	3.5	0.4	0.9	19.7	<0.01	0.03	0.8
YY13963		1.86	16.5	740	10.0	12.7	<0.001	0.02	0.44	6.3	0.4	1.1	22.7	<0.01	0.14	3.8
YY13964		1.91	15.7	730	9.1	10.4	<0.001	0.03	0.42	6.2	0.6	1.1	24.9	<0.01	0.12	3.1
YY13965		1.89	17.3	610	9.7	8.9	<0.001	0.04	0.55	6.1	0.7	0.9	26.6	<0.01	0.06	3.5
YY13966		1.58	14.2	740	9.1	6.7	<0.001	0.07	0.67	5.8	0.5	0.9	39.5	<0.01	0.01	2.3
YY13967		1.58	18.1	730	13.8	11.3	<0.001	0.04	0.83	6.9	0.8	1.1	34.2	<0.01	0.04	2.8
YY13968		1.90	20.0	330	12.7	12.2	<0.001	0.03	0.89	5.4	0.5	1.2	30.7	<0.01	0.05	2.6
YY13969		1.23	17.2	470	12.7	14.3	<0.001	0.04	1.27	3.9	0.5	1.0	40.4	<0.01	0.05	1.2
YY13970		1.41	20.5	290	12.6	10.1	<0.001	0.04	0.68	4.1	0.4	1.4	44.1	<0.01	0.05	1.9
YY13971		1.53	22.7	260	11.2	10.1	<0.001	0.03	0.64	4.2	0.3	1.1	33.5	<0.01	0.05	2.8
YY13972		1.47	15.7	260	12.7	15.2	<0.001	0.03	0.71	3.0	0.4	1.1	30.6	<0.01	0.07	1.3
YY13973		1.12	19.4	180	13.7	6.5	<0.001	0.03	0.55	4.9	0.3	0.7	32.2	<0.01	0.14	2.9
YY13974		0.96	16.8	200	19.4	12.4	<0.001	0.03	0.99	4.5	1.0	0.9	36.6	<0.01	0.80	3.6
YY13975		1.14	17.7	180	17.5	8.5	<0.001	0.03	1.11	5.9	0.7	0.7	35.9	<0.01	1.16	3.2
YY13976		1.46	17.8	320	13.2	10.6	<0.001	0.03	0.55	4.4	0.5	0.7	36.3	<0.01	0.20	2.2
YY13977		1.52	19.6	200	13.0	9.9	<0.001	0.03	0.78	6.9	0.8	0.9	34.6	<0.01	0.30	3.3
YY13978		1.68	15.5	310	8.0	7.4	<0.001	0.03	0.48	3.6	0.4	0.6	26.8	<0.01	0.10	1.7
YY13979		2.28	17.9	380	8.2	12.5	<0.001	0.03	1.00	4.8	0.5	0.8	32.3	<0.01	0.10	2.4
YY13980		2.66	17.2	420	7.9	17.1	<0.001	0.03	1.24	7.0	0.7	0.8	27.1	<0.01	0.27	5.7
YY13981		1.87	19.5	200	6.8	15.3	<0.001	0.02	0.77	6.3	0.3	0.7	29.7	<0.01	0.09	5.0
YY13982		1.89	20.2	210	8.0	23.3	<0.001	0.03	0.59	5.6	0.2	0.8	27.2	<0.01	0.07	3.6



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Page: 3 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13943		0.090	0.08	0.73	67	0.32	7.52	56	3.5
YY13944		0.084	0.09	0.67	70	0.17	6.71	71	1.8
YY13945		0.128	0.12	0.89	65	0.18	6.80	61	2.8
YY13946		0.086	0.11	1.97	73	0.22	23.2	102	2.6
YY13947		0.101	0.11	0.86	70	0.19	10.40	74	1.9
YY13948		0.104	0.09	0.54	72	0.17	5.17	66	2.3
YY13949		0.099	0.10	0.50	70	0.16	5.29	64	2.0
YY13950		0.108	0.10	0.51	71	0.27	5.37	74	3.2
YY13951		0.067	0.12	0.49	67	0.17	5.15	102	2.1
YY13952		0.075	0.10	0.99	60	0.39	6.95	98	1.3
YY13953		0.089	0.09	0.88	49	0.79	6.34	77	1.3
YY13954		0.082	0.09	0.54	36	0.26	4.95	63	0.8
YY13955		0.083	0.12	1.16	49	0.21	6.00	73	1.0
YY13956		0.094	0.11	0.75	48	0.22	5.22	71	1.0
YY13957		0.079	0.11	0.56	50	0.17	5.00	66	0.9
YY13958		0.081	0.14	0.67	59	0.18	5.03	68	0.8
YY13959		0.077	0.13	0.76	53	0.20	5.47	72	0.9
YY13960		0.082	0.13	0.67	49	0.14	5.05	67	0.7
YY13961		0.073	0.13	0.82	62	0.15	5.42	72	0.7
YY13962		0.074	0.12	0.55	54	0.16	5.05	67	0.7
YY13963		0.145	0.18	0.93	72	0.17	7.01	75	2.5
YY13964		0.135	0.16	0.90	77	0.22	7.00	72	2.0
YY13965		0.113	0.15	1.20	65	0.30	8.59	69	2.5
YY13966		0.089	0.12	1.04	56	0.24	7.50	65	2.1
YY13967		0.091	0.19	2.10	66	0.12	11.00	95	1.7
YY13968		0.104	0.16	0.85	81	0.24	6.16	84	1.7
YY13969		0.060	0.10	0.90	59	0.12	10.75	99	1.1
YY13970		0.077	0.11	0.46	72	0.14	4.72	96	3.2
YY13971		0.082	0.12	0.56	73	0.33	5.94	80	4.3
YY13972		0.072	0.12	0.52	72	0.18	6.04	73	1.8
YY13973		0.094	0.08	0.75	68	0.18	6.76	78	6.2
YY13974		0.047	0.13	0.89	62	0.19	6.71	105	4.9
YY13975		0.068	0.10	0.92	64	0.19	7.36	77	6.3
YY13976		0.073	0.08	0.74	63	0.39	5.24	78	3.0
YY13977		0.098	0.08	1.43	68	0.21	14.45	69	8.5
YY13978		0.075	0.07	0.57	78	0.19	4.08	55	2.0
YY13979		0.119	0.08	0.97	89	0.21	7.30	62	3.0
YY13980		0.194	0.12	1.17	93	0.39	5.92	73	5.0
YY13981		0.165	0.10	1.13	86	0.22	5.39	59	5.9
YY13982		0.129	0.12	0.55	88	0.51	4.07	67	2.4



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Page: 4 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13983		0.34	0.003	0.67	2.69	29.8	<0.02	<10	160	0.49	0.28	0.38	0.24	22.6	11.7	36
YY13984		0.40	0.001	0.36	3.49	41.7	0.09	<10	220	0.72	0.57	0.49	0.30	51.4	15.1	30
YY13985		0.43	0.017	0.48	2.45	27.4	<0.02	<10	230	0.53	0.34	0.81	0.25	34.5	12.8	26
YY13986		0.42	0.057	0.19	2.65	20.0	<0.02	<10	180	0.61	0.33	0.52	0.14	50.9	12.5	38
YY13987		0.37	0.004	0.32	3.89	29.1	<0.02	<10	300	0.78	0.47	0.59	0.28	51.6	15.0	26
YY13988		0.43	0.002	0.10	2.52	17.3	<0.02	<10	130	0.52	0.23	0.47	0.35	18.60	11.8	30
YY13989		0.34	0.006	0.24	2.01	14.5	<0.02	<10	180	0.37	0.39	0.33	0.33	11.55	11.3	27
YY13990		0.34	0.004	0.19	2.91	18.6	<0.02	<10	180	0.44	0.50	0.42	0.34	16.40	13.4	30
YY13991		0.40	0.004	0.16	3.36	36.1	<0.02	<10	220	0.65	0.36	0.38	0.26	24.2	15.3	29
YY13992		0.52	0.006	0.20	3.12	25.1	<0.02	<10	130	0.59	0.29	0.40	0.23	51.6	12.8	37
YY13993		0.48	0.004	0.53	3.84	18.8	<0.02	<10	360	0.72	0.26	0.62	0.28	37.3	16.9	35
YY13994		0.54	0.012	0.62	4.80	11.6	<0.02	<10	670	0.73	0.53	0.80	0.60	33.8	17.5	23
YY13995		0.43	0.004	0.16	2.42	20.2	<0.02	<10	150	0.57	0.28	0.52	0.11	39.3	11.6	41
YY13996		0.48	0.014	0.44	3.27	19.3	0.13	<10	310	0.69	0.83	0.45	0.48	41.8	15.1	29
YY13997		0.33	0.015	0.52	3.21	175.0	<0.02	<10	280	0.75	1.23	0.59	0.60	41.3	16.0	24
YY13998		0.35	0.019	0.30	1.88	32.0	<0.02	<10	180	0.48	0.47	1.48	0.31	33.0	13.6	25
YY13999		0.35	0.018	0.41	2.23	43.5	<0.02	<10	210	0.49	0.49	1.11	0.23	34.4	11.4	29
YY14000		0.55	0.011	0.29	2.06	25.2	<0.02	<10	180	0.45	0.33	1.01	0.36	33.2	13.6	30
YY15484		0.52	0.035	0.34	2.21	40.5	<0.02	<10	220	0.41	0.87	0.26	0.45	27.9	9.6	26
YY15485		0.56	0.057	1.03	3.51	84.5	0.04	<10	440	0.66	1.66	0.44	0.34	52.7	18.0	37
YY15486		0.49	0.074	0.44	2.73	75.9	0.02	<10	320	0.47	1.64	0.51	0.27	34.4	12.9	32
YY15487		0.59	0.034	0.44	2.59	52.6	0.02	<10	240	0.44	2.00	0.45	0.28	26.6	13.2	31
YY15488		0.34	0.022	0.58	2.67	95.3	<0.02	<10	240	0.50	1.38	0.29	0.35	25.5	13.3	32
YY15489		0.42	0.032	0.53	2.45	33.0	0.02	<10	280	0.49	1.19	0.45	0.21	32.1	12.5	32
YY15490		0.43	0.011	0.25	2.28	19.0	<0.02	<10	220	0.47	0.23	0.35	0.13	20.0	11.1	34
YY15491		0.33	0.026	0.42	2.48	34.2	<0.02	<10	290	0.59	0.33	0.62	0.24	38.7	14.0	30
YY15492		0.38	0.015	0.30	1.88	31.3	<0.02	<10	160	0.48	0.35	0.76	0.39	24.0	9.3	28
YY15493		0.36	0.096	0.40	2.72	69.9	<0.02	<10	260	0.67	0.61	0.57	0.28	34.9	12.7	29
YY15494		0.39	0.068	0.34	2.27	36.9	0.03	<10	120	0.50	0.81	0.41	0.20	20.4	10.1	32
YY15495		0.45	0.077	0.72	2.82	120.0	0.16	<10	110	0.65	1.53	0.39	0.44	17.40	10.3	28
YY15496		0.39	0.099	0.50	2.68	129.0	0.04	<10	100	0.66	1.24	0.35	0.52	16.05	10.2	27
YY15497		0.46	0.099	0.57	2.25	97.9	0.02	<10	110	0.63	1.43	0.38	0.40	20.1	10.0	25
YY15498		0.39	0.016	0.32	2.08	20.7	<0.02	<10	110	0.57	0.27	0.42	0.10	30.6	11.4	42
YY15499		0.44	0.072	0.54	2.08	42.5	0.03	<10	150	0.73	0.51	0.62	0.17	38.1	10.9	34
YY15500		0.49	0.021	0.31	2.23	32.2	<0.02	<10	160	0.62	0.36	0.56	0.14	31.7	11.2	37
YY12376		0.42	0.061	0.47	2.30	59.8	0.02	<10	140	0.82	1.56	0.46	0.58	32.1	12.2	29
YY12377		0.36	0.060	0.42	2.64	95.0	0.02	<10	130	0.88	1.48	0.59	1.24	31.3	14.8	34
YY12378		0.25	0.021	0.47	2.35	107.5	<0.02	<10	100	0.66	0.82	0.39	0.79	14.50	11.9	30
YY12379		0.34	0.011	0.24	2.40	67.3	<0.02	<10	160	0.59	0.49	0.41	0.38	19.80	11.9	30
YY12380		0.35	0.043	1.26	2.46	197.0	0.09	<10	120	0.58	0.91	0.35	0.41	17.40	10.5	32





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Page: 4 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
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**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY13983		0.81	25.7	3.65	8.15	0.05	0.09	0.02	0.045	0.14	9.7	13.8	0.70	296	3.43	0.02
YY13984		1.57	74.6	5.24	13.65	0.08	0.15	0.01	0.077	0.46	18.6	16.8	1.08	370	7.46	0.02
YY13985		1.54	64.9	4.33	9.09	0.11	0.18	0.02	0.051	0.26	18.4	17.8	0.96	492	4.10	0.03
YY13986		0.95	55.3	3.83	8.53	0.08	0.24	0.01	0.041	0.11	21.1	13.5	0.82	320	1.83	0.02
YY13987		1.65	44.5	4.67	13.70	0.07	0.13	0.01	0.064	0.29	17.8	18.9	0.99	457	1.36	0.02
YY13988		0.95	24.9	3.84	9.53	0.05	0.08	0.02	0.071	0.07	8.5	14.0	0.71	639	3.47	0.02
YY13989		0.70	15.4	3.35	7.33	<0.05	0.03	0.01	0.029	0.08	5.8	9.2	0.44	887	7.31	0.02
YY13990		1.51	34.1	4.64	10.60	0.05	0.09	0.01	0.042	0.16	7.9	15.3	0.96	372	9.25	0.02
YY13991		2.52	74.4	5.98	12.70	0.11	0.15	0.01	0.090	0.40	11.4	21.9	1.26	417	11.85	0.02
YY13992		1.39	52.7	4.43	9.93	0.06	0.13	0.01	0.063	0.16	19.8	18.2	0.91	319	9.51	0.02
YY13993		1.78	77.4	5.85	14.95	0.10	0.17	0.02	0.081	0.30	16.1	19.2	1.20	461	8.58	0.02
YY13994		3.01	132.5	6.73	18.90	0.18	0.11	0.01	0.091	0.64	12.4	19.2	1.47	615	8.26	0.03
YY13995		0.69	35.9	3.60	7.72	0.07	0.30	0.02	0.041	0.12	16.9	14.4	0.67	283	1.84	0.02
YY13996		1.25	47.3	4.49	11.40	0.06	0.13	0.02	0.069	0.30	17.0	15.2	0.83	381	3.77	0.02
YY13997		1.17	71.5	4.79	10.80	0.07	0.09	0.02	0.057	0.14	19.1	13.8	0.84	649	6.10	0.03
YY13998		1.38	62.5	3.39	7.68	0.11	0.09	0.03	0.047	0.15	19.1	14.3	0.71	409	12.65	0.03
YY13999		1.29	69.8	3.63	8.08	0.12	0.12	0.03	0.045	0.14	18.5	15.6	0.89	399	8.40	0.04
YY14000		1.03	55.9	3.52	7.51	0.11	0.16	0.02	0.043	0.13	17.6	14.9	0.87	430	5.40	0.04
YY15484		1.39	40.8	2.73	7.87	0.05	0.02	0.02	0.044	0.09	14.4	10.9	0.51	289	1.04	0.02
YY15485		2.72	103.5	4.67	10.20	0.11	0.06	0.06	0.088	0.22	31.3	20.1	0.91	452	2.15	0.02
YY15486		2.06	81.1	3.90	8.97	0.09	0.09	0.04	0.066	0.19	18.2	18.4	0.97	283	0.99	0.02
YY15487		2.92	58.3	3.53	8.40	0.08	0.07	0.03	0.074	0.18	13.6	19.8	0.92	359	0.82	0.02
YY15488		1.68	45.8	4.17	10.75	0.05	0.04	0.02	0.049	0.12	13.2	16.5	0.72	511	2.27	0.02
YY15489		1.39	72.8	2.99	7.99	0.06	0.03	0.03	0.045	0.08	18.1	13.6	0.63	373	1.65	0.02
YY15490		0.78	37.6	3.04	6.32	0.05	0.12	0.01	0.034	0.08	10.3	13.7	0.68	282	1.67	0.02
YY15491		1.57	80.4	3.57	7.41	0.09	0.06	0.04	0.068	0.13	21.1	14.8	0.74	566	2.86	0.02
YY15492		0.95	57.3	2.81	5.67	0.06	0.05	0.03	0.060	0.09	12.7	13.0	0.63	379	3.29	0.02
YY15493		1.65	119.0	4.57	8.77	0.10	0.11	0.01	0.103	0.18	17.8	16.5	0.97	398	7.40	0.03
YY15494		0.80	113.0	3.17	6.23	0.05	0.10	0.01	0.040	0.06	11.4	14.9	0.63	307	7.15	0.02
YY15495		0.94	108.0	4.21	8.08	0.05	0.13	0.02	0.062	0.07	8.6	14.4	0.73	244	12.25	0.02
YY15496		0.84	143.0	4.34	8.10	0.05	0.07	0.02	0.088	0.10	7.6	13.0	0.62	320	15.00	0.02
YY15497		1.02	164.0	4.23	7.35	<0.05	0.11	0.01	0.081	0.10	9.1	13.8	0.63	324	15.15	0.02
YY15498		0.53	71.6	3.25	6.33	0.07	0.31	0.02	0.041	0.08	15.7	12.3	0.67	274	3.12	0.03
YY15499		0.49	95.6	3.40	6.58	0.08	0.14	0.04	0.054	0.09	19.7	14.5	0.62	388	6.30	0.03
YY15500		0.80	57.2	3.69	7.31	0.07	0.18	0.03	0.054	0.08	13.9	15.7	0.74	391	6.64	0.03
YY12376		1.64	162.0	3.75	6.91	0.06	0.04	0.02	0.092	0.09	14.4	17.2	0.58	563	5.38	0.02
YY12377		1.18	125.0	4.05	7.97	0.05	0.05	0.02	0.055	0.07	15.0	14.0	0.59	402	7.80	0.02
YY12378		1.31	106.5	4.13	8.30	<0.05	0.04	0.01	0.043	0.08	7.4	16.4	0.52	265	14.20	0.02
YY12379		0.94	65.7	3.62	7.94	<0.05	0.03	0.01	0.038	0.09	9.5	14.1	0.64	367	12.25	0.02
YY12380		1.03	99.2	3.87	7.06	<0.05	0.07	0.02	0.073	0.09	8.6	13.5	0.63	262	8.00	0.01





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Page: 4 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY13983		1.59	21.4	230	9.7	11.7	<0.001	0.02	0.43	5.1	0.2	0.8	29.2	<0.01	0.04	4.6
YY13984		1.92	17.0	270	12.7	31.7	0.002	0.02	0.60	11.5	0.3	1.5	45.4	<0.01	0.05	11.5
YY13985		1.89	15.9	640	9.7	21.4	0.001	0.02	0.49	9.4	0.6	1.0	38.7	0.01	0.04	6.5
YY13986		1.55	20.3	330	7.5	11.8	<0.001	0.02	0.58	9.2	0.3	0.8	36.6	<0.01	0.10	8.8
YY13987		2.85	16.0	490	10.3	26.8	<0.001	0.03	0.43	10.1	0.4	1.2	55.5	<0.01	0.11	10.8
YY13988		1.91	21.2	620	11.4	9.5	<0.001	0.03	0.40	4.9	0.3	0.9	29.0	<0.01	0.05	2.8
YY13989		1.75	15.0	670	6.8	10.9	<0.001	0.03	0.38	2.5	0.2	0.5	26.0	<0.01	0.09	1.2
YY13990		3.28	19.4	510	7.8	24.0	<0.001	0.03	0.42	8.0	0.3	0.9	30.0	<0.01	0.08	3.2
YY13991		1.95	17.5	320	11.7	38.5	0.001	0.02	0.58	10.6	0.3	1.3	26.6	<0.01	0.05	8.5
YY13992		1.93	21.6	230	11.2	18.5	0.001	0.02	0.50	7.9	0.3	0.9	31.4	<0.01	0.05	9.5
YY13993		3.23	23.1	370	14.7	29.1	0.002	0.03	0.52	10.8	0.6	2.1	41.2	<0.01	0.04	10.9
YY13994		2.70	15.2	910	14.2	55.2	<0.001	0.03	0.30	11.8	0.5	2.8	50.4	<0.01	0.06	10.6
YY13995		1.12	21.7	260	7.3	10.6	<0.001	0.03	0.51	9.5	0.2	0.7	36.8	<0.01	0.06	6.0
YY13996		2.40	18.5	320	11.9	26.6	<0.001	0.05	0.59	9.1	0.3	1.1	40.4	<0.01	0.04	8.6
YY13997		2.23	13.7	390	15.8	11.2	<0.001	0.05	1.99	8.6	0.6	1.0	43.1	<0.01	0.27	9.4
YY13998		2.57	17.7	710	7.3	16.1	0.002	0.07	0.99	8.5	1.0	0.8	71.3	<0.01	0.10	3.6
YY13999		2.53	21.3	720	10.7	14.7	0.002	0.05	0.90	8.2	0.6	0.8	53.6	<0.01	0.11	3.6
YY14000		2.55	22.0	770	9.9	13.1	0.001	0.05	0.62	8.1	0.5	0.8	50.0	<0.01	0.04	4.6
YY15484		1.64	15.2	440	22.5	12.2	<0.001	0.04	0.47	4.3	0.6	1.0	23.6	0.01	0.21	1.4
YY15485		2.51	23.6	820	18.7	25.7	<0.001	0.06	0.71	11.8	1.0	1.5	29.6	<0.01	0.53	5.0
YY15486		2.92	18.3	700	11.6	24.7	<0.001	0.04	0.55	8.5	0.7	1.4	29.3	<0.01	0.38	5.5
YY15487		2.36	18.0	650	12.2	24.9	<0.001	0.04	0.54	7.8	0.6	1.3	28.3	<0.01	0.26	4.3
YY15488		2.51	18.5	370	19.5	22.2	<0.001	0.04	0.69	5.5	0.3	1.4	26.2	<0.01	0.37	2.8
YY15489		1.78	20.0	630	13.9	15.1	<0.001	0.04	0.34	5.2	0.6	0.9	34.1	<0.01	0.33	1.6
YY15490		1.10	21.1	240	10.3	8.1	<0.001	0.02	0.58	4.8	0.2	0.8	26.6	<0.01	0.06	3.9
YY15491		1.82	17.7	530	11.0	17.6	<0.001	0.04	0.62	7.6	0.4	1.1	40.0	<0.01	0.07	3.6
YY15492		1.09	16.2	580	7.8	9.4	<0.001	0.04	0.77	5.0	0.6	0.8	44.6	<0.01	0.07	1.7
YY15493		1.99	17.5	390	12.2	20.4	<0.001	0.04	0.98	8.0	0.8	1.7	36.7	<0.01	0.10	5.9
YY15494		1.31	18.4	240	7.8	6.9	0.001	0.03	0.57	4.1	0.6	0.8	32.3	<0.01	0.20	2.7
YY15495		1.17	15.8	180	14.1	7.7	<0.001	0.04	1.40	4.6	0.8	1.6	37.7	<0.01	0.37	2.6
YY15496		1.13	15.8	190	20.0	10.6	0.001	0.03	1.29	3.9	1.0	1.7	35.5	<0.01	0.37	2.4
YY15497		1.03	14.1	210	31.5	14.3	0.001	0.03	1.25	4.2	0.8	1.3	35.6	<0.01	0.45	2.5
YY15498		0.68	22.6	130	6.6	7.8	<0.001	0.02	0.45	7.6	0.2	0.7	35.2	<0.01	0.07	4.0
YY15499		1.26	20.1	290	8.4	7.3	<0.001	0.03	0.74	7.0	0.8	0.7	43.1	<0.01	0.12	3.3
YY15500		0.88	19.4	400	7.4	9.2	0.001	0.02	0.64	8.3	0.4	0.8	38.7	<0.01	0.10	4.3
YY12376		0.99	18.2	510	15.4	11.7	<0.001	0.04	1.16	4.0	0.8	0.8	40.0	<0.01	0.22	1.7
YY12377		1.40	22.0	320	13.1	10.4	<0.001	0.04	1.08	4.2	0.4	0.8	36.1	<0.01	0.51	1.8
YY12378		1.52	18.3	310	12.4	16.8	<0.001	0.03	1.11	3.2	0.5	0.7	27.8	<0.01	0.22	1.6
YY12379		1.58	18.8	330	11.2	11.8	<0.001	0.03	0.68	4.5	0.4	0.7	31.7	<0.01	0.14	2.0
YY12380		1.35	21.8	230	47.8	11.0	<0.001	0.03	1.03	3.7	0.6	0.7	33.1	<0.01	0.42	2.5



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Page: 4 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13983		0.126	0.12	0.57	86	0.23	3.99	67	3.4
YY13984		0.244	0.21	1.10	122	0.24	7.71	98	5.3
YY13985		0.195	0.15	1.22	102	0.24	14.60	84	5.9
YY13986		0.174	0.11	1.29	94	0.23	7.38	65	8.7
YY13987		0.230	0.20	0.97	113	0.86	7.12	87	4.5
YY13988		0.132	0.08	0.75	86	0.25	5.30	89	3.4
YY13989		0.096	0.09	0.37	74	0.17	1.99	113	1.3
YY13990		0.202	0.15	0.74	109	0.22	4.66	101	3.1
YY13991		0.258	0.26	0.88	138	0.18	5.84	103	5.1
YY13992		0.186	0.14	1.16	105	0.27	6.34	79	5.0
YY13993		0.346	0.24	1.04	145	0.36	7.43	96	5.8
YY13994		0.424	0.43	1.08	160	0.58	7.62	138	3.5
YY13995		0.143	0.09	0.78	85	0.25	8.49	55	11.5
YY13996		0.179	0.19	1.11	100	0.22	6.90	114	4.6
YY13997		0.092	0.20	1.20	101	0.28	8.02	117	3.0
YY13998		0.128	0.09	2.10	72	0.47	17.80	69	4.0
YY13999		0.156	0.11	2.79	81	0.18	14.65	82	4.6
YY14000		0.156	0.10	0.90	81	0.19	13.45	82	6.2
YY15484		0.102	0.13	1.20	66	0.17	6.96	60	0.8
YY15485		0.161	0.29	3.83	97	0.54	18.95	110	2.5
YY15486		0.220	0.26	1.83	92	0.40	9.89	88	3.5
YY15487		0.184	0.24	1.03	84	0.29	6.71	100	2.8
YY15488		0.142	0.19	0.89	99	0.25	6.55	99	2.0
YY15489		0.102	0.14	2.52	68	0.20	8.44	67	1.2
YY15490		0.116	0.09	0.95	72	0.20	5.53	55	4.3
YY15491		0.132	0.15	2.19	80	0.43	16.20	77	2.2
YY15492		0.085	0.08	1.18	59	0.19	10.40	72	1.8
YY15493		0.175	0.19	1.65	98	0.19	10.40	88	4.2
YY15494		0.090	0.09	0.81	68	0.17	6.75	52	3.4
YY15495		0.085	0.11	0.63	74	0.19	4.31	75	5.0
YY15496		0.069	0.13	0.58	70	0.19	3.81	94	3.4
YY15497		0.071	0.13	0.63	71	0.19	4.56	100	4.2
YY15498		0.124	0.07	1.06	75	0.18	9.85	50	12.8
YY15499		0.098	0.06	2.26	70	0.28	21.0	57	5.4
YY15500		0.123	0.08	1.58	80	0.19	11.55	63	7.6
YY12376		0.047	0.13	1.28	62	0.25	9.97	100	1.3
YY12377		0.069	0.12	1.00	72	0.18	9.72	87	2.1
YY12378		0.067	0.11	0.49	79	0.18	2.84	80	1.8
YY12379		0.087	0.11	0.65	77	0.25	4.96	82	1.5
YY12380		0.080	0.10	0.55	69	0.28	3.57	84	2.6



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Page: 5 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY12381		0.40	0.119	0.23	2.52	121.5	0.06	<10	100	0.89	2.67	0.47	0.44	20.5	13.9	27
YY12382		0.37	0.003	0.30	2.66	22.0	<0.02	<10	150	0.76	0.22	0.35	0.41	19.35	10.6	35
YY12383		0.47	0.056	0.41	2.23	189.0	0.04	<10	80	0.75	2.32	0.40	0.67	24.2	10.8	23
YY12384		0.33	0.029	0.29	2.68	43.1	0.04	<10	150	0.73	0.90	0.41	0.32	21.1	11.8	35
YY12385		0.57	0.049	0.19	2.37	76.2	0.04	<10	110	0.68	0.99	0.34	0.17	22.6	9.0	32
YY12386		0.56	0.020	0.21	2.46	74.2	0.03	<10	140	0.73	0.61	0.41	0.12	33.9	9.9	37
YY12387		0.33	0.032	0.24	2.48	72.8	<0.02	<10	110	0.82	0.69	0.43	0.56	20.9	10.0	26
YY12388		0.48	0.013	0.39	2.40	32.4	0.10	<10	150	0.77	0.43	0.54	0.13	45.3	11.5	44
YY12389		0.41	0.005	0.43	2.41	19.8	<0.02	<10	110	0.87	0.26	0.53	0.47	29.7	11.3	33
YY12390		0.35	0.013	0.14	1.91	30.9	<0.02	<10	90	0.64	0.37	0.54	0.40	24.0	9.7	29
YY12391		0.31	0.007	0.15	2.01	12.7	<0.02	<10	130	0.40	0.25	0.44	0.56	13.85	9.5	31
YY12392		0.43	0.011	0.20	1.99	29.3	0.02	<10	170	0.61	0.29	0.58	0.15	36.3	10.5	31
YY12393		0.50	0.007	0.47	3.91	43.0	<0.02	<10	250	0.68	0.56	0.44	0.37	24.0	16.0	35
YY12394		0.44	0.022	0.16	2.83	24.0	0.02	<10	280	0.57	0.43	0.52	0.11	43.7	13.9	43
YY12395		0.38	0.005	0.13	2.14	15.1	<0.02	<10	200	0.52	0.23	0.52	0.12	31.9	10.3	30
YY12396		0.39	0.007	0.33	2.60	11.4	<0.02	<10	240	0.44	0.23	0.52	0.16	21.7	12.3	30
YY12397		0.37	0.003	0.26	2.39	18.4	<0.02	<10	190	0.60	0.33	0.35	0.11	36.8	11.9	40
YY12398		0.51	0.016	0.24	2.04	37.8	<0.02	<10	170	0.56	0.42	0.46	0.12	29.1	10.8	37
YY12399		0.60	0.012	0.61	2.19	51.9	<0.02	<10	330	0.44	0.52	0.55	1.48	34.2	9.5	28
YY12400		0.43	0.003	0.25	2.95	39.3	0.02	<10	190	0.46	0.44	0.28	2.06	15.15	10.6	33
YY15951		0.37	0.025	0.69	2.31	158.5	<0.02	<10	200	0.82	0.92	0.48	0.47	40.0	12.4	28
YY15952		0.36	0.013	0.50	2.31	44.8	<0.02	<10	150	0.65	0.42	0.46	0.20	32.5	10.0	37
YY15953		0.43	0.030	0.43	1.91	49.3	0.02	<10	140	0.62	0.36	0.49	0.11	36.3	7.7	32
YY15954		0.35	0.034	0.37	2.35	23.2	<0.02	<10	170	0.61	0.37	0.47	0.35	23.1	12.6	35
YY15955		0.37	0.277	0.26	2.57	61.0	<0.02	<10	130	0.74	0.57	0.53	0.23	33.8	10.6	34
YY15956		0.35	0.029	0.22	2.63	93.4	0.02	<10	120	0.77	0.68	0.56	0.22	36.8	9.9	37
YY15957		0.43	0.184	0.40	2.79	116.5	0.02	<10	180	0.60	0.64	0.80	0.55	33.6	10.4	22
YY15958		0.36	0.055	0.38	2.12	94.3	0.03	<10	130	0.63	0.79	1.10	0.33	30.5	7.1	22
YY15959		0.44	0.043	0.37	2.24	86.0	0.03	<10	140	0.70	0.71	0.97	0.34	33.5	8.3	23
YY15960		0.37	0.062	0.42	2.04	63.0	0.02	<10	130	0.68	0.81	1.02	0.45	39.0	9.4	23
YY15961		0.34	0.023	0.29	1.93	56.9	<0.02	<10	150	0.61	0.63	1.44	0.23	32.9	7.8	22
YY15962		0.32	0.030	0.19	1.94	58.5	0.02	<10	160	0.62	0.60	1.08	0.24	32.5	7.4	22
YY15963		0.33	0.051	0.43	3.74	203	0.16	<10	250	0.87	3.14	0.43	0.51	37.9	20.8	28
YY15964		0.46	0.037	0.24	2.81	24.0	<0.02	<10	230	0.73	0.55	0.54	0.12	51.5	14.8	49
YY15965		0.49	0.020	0.24	2.57	133.0	0.02	<10	240	0.53	0.84	0.73	0.24	30.5	11.6	33
YY15966		0.40	0.021	0.09	2.89	49.8	<0.02	<10	220	0.76	0.50	0.63	0.14	41.6	12.6	43
YY15967		0.42	0.031	0.25	2.84	101.0	0.02	<10	280	0.46	0.40	0.88	0.23	29.4	10.6	22
YY15968		0.37	0.026	0.30	2.99	138.0	<0.02	<10	170	0.63	0.44	0.44	0.22	33.4	12.4	40
YY15969		0.39	0.004	0.18	2.72	44.4	<0.02	<10	170	0.64	0.43	0.40	0.12	30.9	11.6	49
YY15970		0.39	0.024	0.20	4.09	35.9	<0.02	<10	210	0.85	0.45	0.56	0.26	41.3	13.9	35



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Page: 5 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY12381		1.52	176.5	4.41	7.47	<0.05	0.04	0.03	0.095	0.06	9.6	14.7	0.54	391	8.61	0.02
YY12382		1.37	24.3	3.60	8.21	<0.05	0.04	0.02	0.040	0.05	8.7	13.8	0.63	395	2.34	0.02
YY12383		1.36	175.0	4.36	7.19	<0.05	0.05	0.02	0.161	0.10	10.6	15.8	0.55	343	6.78	0.02
YY12384		1.09	63.8	3.50	7.70	0.05	0.07	0.02	0.052	0.07	10.3	15.7	0.67	322	3.74	0.02
YY12385		1.00	96.0	3.47	6.85	0.05	0.08	0.01	0.040	0.08	10.8	14.6	0.68	255	4.90	0.02
YY12386		0.85	85.6	3.60	7.09	0.06	0.17	0.02	0.042	0.07	15.9	14.4	0.73	263	4.26	0.02
YY12387		1.14	57.6	4.95	7.60	<0.05	0.07	0.01	0.081	0.13	8.8	14.9	0.58	663	8.08	0.02
YY12388		0.64	49.2	3.57	7.03	0.06	0.24	0.03	0.048	0.09	13.6	13.7	0.70	328	2.91	0.02
YY12389		0.76	31.0	3.71	7.15	0.07	0.08	0.02	0.068	0.09	13.7	10.9	0.48	406	7.69	0.02
YY12390		0.68	55.0	3.41	5.89	0.07	0.08	0.02	0.060	0.11	9.9	11.3	0.52	351	12.35	0.02
YY12391		0.62	21.7	3.24	7.23	<0.05	0.04	0.02	0.036	0.08	7.1	12.0	0.47	353	9.38	0.02
YY12392		0.71	38.9	3.43	6.50	0.09	0.12	0.03	0.040	0.09	19.2	12.3	0.70	485	8.35	0.03
YY12393		1.69	37.7	5.43	12.00	0.07	0.10	0.02	0.050	0.33	9.7	17.4	1.06	379	10.30	0.02
YY12394		0.98	55.2	4.46	8.79	0.11	0.31	0.02	0.046	0.16	20.3	15.4	1.00	352	5.60	0.02
YY12395		1.20	35.5	3.63	7.07	0.07	0.15	0.02	0.042	0.17	15.0	15.3	0.80	358	5.71	0.02
YY12396		1.40	46.4	4.15	8.56	0.08	0.14	0.02	0.040	0.23	12.3	15.2	0.93	363	8.44	0.02
YY12397		0.80	27.6	3.47	7.16	0.06	0.25	0.02	0.036	0.19	12.9	12.2	0.67	273	2.06	0.02
YY12398		0.79	43.5	3.22	6.26	0.07	0.23	0.03	0.035	0.10	16.5	12.1	0.67	322	1.95	0.02
YY12399		1.16	18.2	3.37	6.89	0.08	0.06	0.03	0.092	0.12	18.5	13.7	0.74	403	0.71	0.02
YY12400		1.22	12.7	4.60	9.65	<0.05	0.07	0.03	0.077	0.07	7.9	20.6	0.61	324	1.35	0.02
YY15951		1.06	91.3	4.21	7.29	0.06	0.11	0.02	0.057	0.18	17.4	14.4	0.58	648	8.75	0.02
YY15952		0.59	49.4	3.53	6.83	0.07	0.15	0.02	0.045	0.12	14.3	13.2	0.57	341	4.53	0.02
YY15953		0.49	62.4	3.40	5.95	0.09	0.20	0.02	0.050	0.13	18.5	12.9	0.59	273	4.02	0.02
YY15954		0.65	27.8	3.55	7.68	0.05	0.08	0.02	0.046	0.08	10.2	12.0	0.53	556	8.21	0.02
YY15955		0.69	53.6	4.11	7.92	0.07	0.14	0.03	0.063	0.10	13.0	14.4	0.65	358	8.57	0.02
YY15956		0.65	64.8	4.11	8.03	0.07	0.20	0.01	0.057	0.15	13.9	15.3	0.72	288	6.50	0.02
YY15957		1.28	47.0	4.97	10.10	0.11	0.08	0.02	0.057	0.43	14.2	14.5	0.79	357	11.70	0.02
YY15958		0.87	72.8	3.71	7.19	0.09	0.12	0.03	0.071	0.11	16.4	13.7	0.62	311	12.85	0.02
YY15959		1.18	90.6	4.16	7.92	0.13	0.13	0.02	0.065	0.15	23.8	14.8	0.71	385	15.20	0.03
YY15960		1.00	89.3	3.81	7.34	0.11	0.15	0.03	0.073	0.11	18.7	15.1	0.61	488	20.8	0.03
YY15961		0.77	71.8	3.11	6.49	0.09	0.10	0.03	0.059	0.08	16.0	12.0	0.55	451	19.35	0.03
YY15962		0.72	75.8	3.34	6.37	0.08	0.12	0.04	0.059	0.10	15.6	11.7	0.57	552	13.00	0.03
YY15963		2.32	199.0	5.56	10.75	0.07	0.17	0.01	0.065	0.27	17.8	22.0	1.10	376	2.95	0.02
YY15964		0.80	34.3	3.91	8.06	0.13	0.35	0.03	0.043	0.10	36.5	17.5	0.85	393	1.97	0.02
YY15965		1.28	62.7	4.11	8.39	0.09	0.17	0.02	0.042	0.19	14.4	16.1	0.94	400	7.48	0.03
YY15966		1.05	48.4	4.32	8.61	0.07	0.26	0.04	0.043	0.12	17.6	16.3	1.03	343	6.99	0.03
YY15967		1.67	45.5	4.65	10.25	0.14	0.17	0.02	0.069	0.33	15.5	15.7	0.92	393	12.10	0.03
YY15968		0.94	48.6	4.31	8.55	0.08	0.19	0.02	0.048	0.18	12.9	14.5	0.81	289	6.22	0.02
YY15969		0.62	32.7	3.71	7.35	0.07	0.28	0.02	0.040	0.15	11.7	12.5	0.72	261	4.00	0.02
YY15970		1.72	45.4	5.73	12.70	0.10	0.24	0.05	0.057	0.47	12.8	15.6	1.09	320	10.95	0.02



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Page: 5 - C  
 Total # Pages: 8 (A - D)  
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Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY12381		1.39	17.2	430	16.0	8.0	<0.001	0.04	2.92	3.7	0.9	1.1	40.3	0.01	0.74	1.8
YY12382		1.44	20.9	310	11.2	11.1	<0.001	0.03	0.64	4.0	0.2	1.0	29.1	<0.01	0.04	2.0
YY12383		1.11	13.7	310	19.6	14.8	<0.001	0.04	2.81	3.3	0.9	1.5	42.0	<0.01	0.19	1.8
YY12384		1.45	22.5	290	8.8	11.6	<0.001	0.04	0.66	4.2	0.4	0.8	41.0	<0.01	0.12	2.0
YY12385		1.18	20.4	210	7.4	10.0	<0.001	0.04	0.97	4.4	0.7	0.7	36.4	<0.01	0.13	2.4
YY12386		0.98	22.7	170	6.9	7.6	<0.001	0.03	1.23	5.5	0.5	0.6	39.6	<0.01	0.16	3.2
YY12387		0.84	15.4	340	8.5	13.2	<0.001	0.03	2.13	4.5	0.6	0.8	46.2	<0.01	0.22	2.6
YY12388		1.13	25.5	180	6.4	7.6	<0.001	0.03	0.69	7.7	0.4	0.7	50.5	<0.01	0.13	4.0
YY12389		0.82	17.9	260	9.9	6.5	0.001	0.03	0.64	5.1	0.3	0.7	42.9	<0.01	0.05	2.7
YY12390		1.12	16.1	260	9.3	8.3	<0.001	0.03	0.78	4.9	0.5	0.6	40.8	<0.01	0.09	2.4
YY12391		1.40	16.4	390	9.6	10.2	<0.001	0.03	0.41	3.1	0.2	0.7	29.2	<0.01	0.05	1.2
YY12392		1.30	19.2	430	6.3	9.0	0.001	0.03	0.63	7.0	0.3	0.7	35.2	<0.01	0.09	4.0
YY12393		2.95	24.5	390	9.6	31.2	<0.001	0.04	0.69	7.0	0.3	1.2	38.0	<0.01	0.05	4.2
YY12394		1.10	24.2	180	7.4	14.5	<0.001	0.03	0.54	9.7	0.2	0.9	35.4	<0.01	0.05	8.9
YY12395		1.32	16.4	310	7.3	16.3	<0.001	0.03	0.45	7.5	0.3	1.2	32.4	<0.01	0.03	6.5
YY12396		1.72	16.8	360	9.3	27.9	<0.001	0.03	0.37	5.8	0.3	1.2	28.6	<0.01	0.04	5.4
YY12397		1.13	20.5	210	7.5	17.3	<0.001	0.03	0.46	7.0	0.2	0.8	25.4	<0.01	0.05	7.0
YY12398		0.68	18.8	390	7.4	11.3	<0.001	0.03	0.68	7.1	0.4	0.7	29.6	<0.01	0.09	5.5
YY12399		1.67	13.8	700	111.5	17.3	<0.001	0.05	0.45	5.8	0.4	1.2	32.1	<0.01	0.02	5.8
YY12400		2.02	16.6	340	27.8	13.2	<0.001	0.05	0.48	4.3	0.3	1.1	25.3	<0.01	0.04	2.6
YY15951		1.13	18.0	400	15.5	11.0	<0.001	0.02	1.41	5.7	0.8	0.5	37.9	<0.01	0.42	3.4
YY15952		1.32	22.0	200	9.6	8.3	<0.001	0.02	0.57	6.3	0.5	0.7	41.2	<0.01	0.12	3.3
YY15953		1.03	20.6	210	9.2	5.9	<0.001	0.02	0.64	7.1	0.5	0.6	36.2	<0.01	0.08	4.0
YY15954		1.33	21.9	340	10.8	6.2	<0.001	0.02	0.53	5.1	0.3	0.7	36.3	<0.01	0.08	2.4
YY15955		1.43	22.4	290	11.8	10.1	<0.001	0.02	0.75	6.9	0.7	0.8	42.6	<0.01	0.17	3.5
YY15956		1.37	23.3	270	13.5	11.4	<0.001	0.02	0.87	7.6	0.5	0.8	38.0	<0.01	0.21	5.0
YY15957		3.15	12.1	450	17.1	22.4	<0.001	0.02	0.72	6.9	0.6	1.2	67.6	0.01	0.10	6.3
YY15958		1.77	12.6	540	19.8	9.3	0.002	0.04	1.10	6.5	1.2	0.8	72.0	<0.01	0.20	3.1
YY15959		2.18	13.1	570	16.7	11.9	0.002	0.03	1.22	7.5	1.4	1.0	58.2	<0.01	0.17	5.8
YY15960		2.01	15.4	570	29.2	9.8	0.004	0.03	1.23	7.2	1.4	1.0	61.3	<0.01	0.18	4.5
YY15961		1.67	13.4	670	12.6	7.1	0.006	0.09	1.19	5.1	1.8	0.7	80.3	<0.01	0.15	2.1
YY15962		1.74	14.3	650	10.9	7.5	0.004	0.06	1.05	5.5	1.3	0.7	64.2	<0.01	0.14	2.6
YY15963		1.43	18.5	290	15.2	24.5	<0.001	0.05	2.33	8.4	0.9	1.3	54.2	<0.01	1.43	13.5
YY15964		0.85	27.5	320	7.5	9.7	<0.001	0.01	0.43	10.7	0.3	0.9	38.3	<0.01	0.03	7.3
YY15965		1.59	18.9	550	16.9	17.2	0.001	0.02	0.92	8.1	0.5	1.1	44.5	0.01	0.08	5.8
YY15966		1.28	25.3	400	7.0	12.1	0.001	0.01	0.53	7.7	0.3	1.0	41.3	<0.01	0.07	7.7
YY15967		1.87	11.4	720	7.2	24.7	0.001	0.01	0.96	8.6	0.4	1.7	45.5	0.01	0.06	8.0
YY15968		1.10	22.2	270	8.4	16.5	<0.001	0.01	1.25	8.3	0.3	1.0	39.8	<0.01	0.16	6.8
YY15969		1.16	27.0	240	7.0	10.8	<0.001	0.01	0.53	7.9	0.3	0.8	34.4	<0.01	0.08	6.1
YY15970		2.40	24.0	320	10.9	33.9	0.001	0.02	0.58	11.9	0.4	1.2	45.1	<0.01	0.17	8.1



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Page: 5 - D  
 Total # Pages: 8 (A - D)  
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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY12381		0.069	0.11	0.91	66	0.30	6.06	102	1.9
YY12382		0.078	0.14	0.44	81	0.16	4.85	95	2.0
YY12383		0.048	0.15	0.77	57	0.32	6.08	146	1.6
YY12384		0.083	0.12	0.60	70	0.18	4.55	82	2.8
YY12385		0.102	0.12	0.73	64	0.17	5.83	67	3.4
YY12386		0.109	0.09	0.86	71	0.15	7.44	60	6.6
YY12387		0.049	0.13	0.80	67	0.15	5.92	91	2.6
YY12388		0.128	0.07	0.82	78	0.16	7.73	60	8.9
YY12389		0.044	0.09	0.64	69	0.13	10.50	70	3.3
YY12390		0.085	0.07	0.77	64	0.25	5.42	62	3.2
YY12391		0.091	0.07	0.44	77	0.15	3.40	63	1.6
YY12392		0.124	0.07	1.26	75	0.18	13.30	61	4.5
YY12393		0.277	0.20	0.74	123	0.40	4.33	93	3.9
YY12394		0.213	0.13	1.43	105	0.21	7.67	69	12.4
YY12395		0.159	0.12	1.22	83	0.20	10.80	63	5.2
YY12396		0.238	0.19	0.93	99	0.20	8.07	73	4.7
YY12397		0.158	0.11	0.86	85	0.24	5.06	53	8.5
YY12398		0.134	0.09	1.07	75	0.23	11.90	57	8.4
YY12399		0.146	0.16	1.36	77	0.34	8.68	204	2.2
YY12400		0.122	0.11	0.58	94	0.17	3.24	193	2.6
YY15951		0.070	0.12	0.99	63	0.13	9.51	81	4.1
YY15952		0.095	0.08	1.01	69	0.18	11.95	58	5.8
YY15953		0.110	0.06	0.97	66	0.14	12.40	53	7.6
YY15954		0.083	0.09	0.76	75	0.15	5.47	65	3.3
YY15955		0.096	0.08	1.50	78	0.17	8.39	63	5.1
YY15956		0.124	0.08	1.39	80	0.19	8.56	74	7.8
YY15957		0.236	0.15	1.80	106	0.46	9.08	97	2.9
YY15958		0.101	0.08	3.31	66	0.18	14.60	89	4.2
YY15959		0.136	0.10	3.41	80	0.23	20.2	89	4.7
YY15960		0.108	0.09	2.99	67	0.33	15.65	88	5.9
YY15961		0.086	0.06	3.43	61	0.17	12.95	67	3.2
YY15962		0.093	0.07	2.72	61	0.22	13.10	69	4.6
YY15963		0.193	0.25	1.75	116	0.35	6.33	110	5.3
YY15964		0.150	0.09	2.44	95	0.21	15.35	63	12.7
YY15965		0.202	0.14	1.90	98	0.23	10.30	83	5.8
YY15966		0.210	0.11	1.58	104	0.27	6.87	69	8.7
YY15967		0.287	0.18	3.29	108	0.30	10.55	89	5.1
YY15968		0.147	0.11	1.41	91	0.25	7.51	77	6.8
YY15969		0.136	0.08	0.93	86	0.21	5.71	56	9.5
YY15970		0.297	0.20	1.28	123	0.37	6.47	92	8.1



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Page: 6 - A  
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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY15971		0.36	0.013	0.17	2.32	22.6	<0.02	<10	100	0.47	0.34	0.39	0.15	15.50	10.2	36
YY15972		0.30	0.026	0.21	2.48	59.4	<0.02	<10	160	0.69	0.85	0.50	0.54	17.30	12.6	25
YY15973		0.42	0.214	0.17	2.42	240	0.22	<10	130	1.08	2.70	0.30	0.61	26.2	7.4	15
YY15974		0.31	0.104	0.34	1.92	51.4	<0.02	<10	150	0.38	0.67	0.39	0.27	18.70	6.9	25
YY15975		0.31	0.078	0.48	1.95	205	0.03	<10	120	0.49	1.11	0.46	0.64	15.55	8.9	26
YY15976		0.33	0.127	2.08	2.14	304	0.08	<10	150	0.80	1.31	0.55	1.17	35.9	12.0	28
YY15977		0.38	0.028	0.22	2.23	52.4	<0.02	<10	150	0.68	0.72	0.63	0.34	34.2	12.0	34
YY15978		0.35	0.034	0.33	1.93	158.0	<0.02	<10	120	0.56	0.71	0.56	0.22	28.3	10.9	32
YY15979		0.42	0.020	0.29	1.86	200	<0.02	<10	120	0.69	0.54	0.53	0.38	31.6	7.4	22
YY15980		0.31	0.010	0.53	2.15	37.1	<0.02	<10	180	0.56	0.52	0.47	0.61	15.80	13.1	30
YY15981		0.34	0.025	0.73	1.86	54.3	0.04	<10	110	0.39	0.60	0.36	0.81	14.25	6.2	24
YY15982		0.26	0.020	0.22	1.83	66.2	<0.02	<10	100	0.39	0.48	0.21	0.33	14.80	6.1	25
YY15983		0.37	0.112	0.19	2.09	47.1	0.30	<10	110	0.65	1.05	0.50	0.24	22.1	9.7	26
YY15984		0.43	0.012	0.11	4.10	35.4	<0.02	<10	300	0.68	0.32	0.43	0.22	21.8	15.7	35
YY15985		0.38	0.008	0.11	4.98	16.0	<0.02	<10	450	0.87	0.65	0.80	0.35	47.5	16.1	25
YY15986		0.47	0.007	0.25	2.19	19.6	<0.02	<10	230	0.42	0.28	0.58	0.12	24.6	9.8	34
YY15987		0.36	0.030	0.31	2.39	22.0	<0.02	<10	290	0.51	0.56	1.19	0.30	35.1	13.6	24
YY15988		0.37	0.018	0.16	1.96	21.8	<0.02	<10	210	0.49	0.40	0.86	0.13	28.8	9.5	28
YY15989		0.43	0.019	0.14	2.37	30.1	<0.02	<10	240	0.50	0.52	0.60	0.15	33.9	12.3	30
YY15990		0.38	0.012	0.14	1.92	29.7	<0.02	<10	190	0.52	0.44	0.89	0.17	27.4	8.6	26
YY15991		0.41	0.009	0.08	2.34	42.1	<0.02	<10	100	0.54	0.60	0.35	0.31	21.2	7.6	28
YY15992		0.38	0.006	0.10	1.84	28.3	<0.02	<10	140	0.54	0.59	0.50	0.08	28.2	8.2	33
YY15993		0.43	0.005	0.26	2.42	25.1	<0.02	<10	170	0.64	0.34	0.47	0.38	20.9	9.6	29
YY15994		0.38	0.020	0.22	2.23	110.0	<0.02	<10	150	0.79	0.83	0.47	0.25	19.80	8.0	20
YY15995		0.41	0.023	0.29	2.37	58.1	<0.02	<10	130	0.69	0.68	0.50	0.16	29.0	9.1	36
YY15996		0.38	0.022	0.36	2.11	100.5	<0.02	<10	140	0.60	0.55	0.52	0.29	33.1	10.1	33
YY15997		0.33	0.044	1.72	2.46	192.5	0.02	<10	100	0.80	0.95	0.45	0.50	23.3	10.8	32
YY15998		0.33	0.004	0.35	2.51	56.0	<0.02	<10	120	0.56	0.38	0.44	0.16	15.95	8.7	32
YY15999		0.43	0.001	0.73	2.65	47.1	<0.02	<10	100	0.63	0.30	0.45	0.63	13.60	13.3	34
YY16000		0.29	0.024	0.43	2.38	69.8	<0.02	<10	110	0.64	1.00	0.46	0.57	15.10	11.3	29
YY17747		0.40	0.031	0.06	2.38	29.5	<0.02	<10	150	0.58	0.34	0.87	0.19	33.2	8.8	32
YY17748		0.49	0.013	0.20	2.00	39.5	<0.02	<10	120	0.58	0.32	0.43	0.28	25.4	11.8	27
YY17749		0.45	0.005	0.14	1.73	20.8	<0.02	<10	120	0.31	0.24	0.44	0.30	22.0	6.8	27
YY17750		0.35	0.009	0.13	1.77	12.5	<0.02	<10	130	0.30	0.26	0.42	0.19	20.4	6.6	28
YY17751		0.47	0.046	0.16	1.91	15.8	0.02	<10	150	0.36	0.30	0.44	0.25	25.7	6.7	28
YY17752		0.33	0.005	0.09	1.73	14.2	<0.02	<10	130	0.27	0.25	0.37	0.21	20.5	6.0	27
YY17753		0.31	0.005	0.16	1.86	18.8	<0.02	<10	130	0.31	0.30	0.36	0.14	19.15	8.4	29
YY17754		0.42	0.010	0.14	1.90	17.1	<0.02	<10	150	0.27	0.38	0.38	0.16	20.3	10.2	27
YY17755		0.38	0.008	0.23	2.21	15.4	<0.02	<10	180	0.26	0.52	0.40	0.17	22.0	8.0	31
YY17756		0.41	0.006	0.19	2.55	114.0	<0.02	<10	140	0.67	0.23	0.41	0.42	21.8	10.6	34





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Page: 6 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
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**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY15971		0.55	33.9	3.26	6.55	0.05	0.08	0.01	0.029	0.11	7.9	12.1	0.61	285	7.88	0.02
YY15972		0.62	51.0	4.06	7.75	0.05	0.07	0.02	0.040	0.13	9.0	10.9	0.60	431	13.15	0.02
YY15973		1.97	199.0	5.57	7.49	0.06	0.04	0.01	0.042	0.13	12.2	13.3	0.48	223	32.1	0.01
YY15974		1.02	37.8	3.20	7.59	<0.05	0.04	0.01	0.024	0.10	9.2	12.2	0.50	258	8.83	0.02
YY15975		1.15	93.5	3.78	7.19	<0.05	0.03	0.03	0.029	0.08	8.0	13.5	0.44	258	11.60	0.02
YY15976		1.77	318	3.85	6.25	0.08	0.05	0.04	0.063	0.09	18.7	17.0	0.55	316	19.80	0.02
YY15977		0.74	85.4	3.43	6.34	0.06	0.22	0.02	0.057	0.07	13.9	13.5	0.63	415	4.42	0.03
YY15978		0.70	102.5	3.38	5.70	0.07	0.11	0.03	0.052	0.08	13.5	12.9	0.64	383	6.70	0.03
YY15979		0.79	71.5	3.50	6.23	0.06	0.06	0.01	0.057	0.20	13.2	15.8	0.56	338	10.50	0.02
YY15980		0.95	51.4	3.62	6.88	0.05	0.05	0.01	0.028	0.11	8.2	10.4	0.46	507	4.87	0.02
YY15981		0.58	53.9	2.96	5.64	<0.05	0.05	0.02	0.032	0.11	7.6	10.6	0.41	200	10.85	0.01
YY15982		1.05	30.2	3.41	7.44	0.05	0.04	0.01	0.024	0.07	7.8	12.2	0.38	161	10.65	0.02
YY15983		1.20	92.9	3.54	5.96	0.06	0.19	0.01	0.033	0.09	9.8	12.4	0.59	278	22.8	0.02
YY15984		2.50	63.9	5.99	12.05	0.08	0.20	0.02	0.061	0.37	10.2	20.6	1.38	391	11.40	0.02
YY15985		3.02	54.3	6.12	14.70	0.11	0.19	0.01	0.076	0.48	13.2	13.6	1.38	575	9.38	0.03
YY15986		0.98	46.0	3.53	6.91	0.09	0.17	0.02	0.033	0.16	16.4	14.0	0.78	353	3.96	0.03
YY15987		1.79	81.3	4.26	8.90	0.15	0.13	0.03	0.049	0.39	25.0	18.5	0.98	472	12.70	0.03
YY15988		0.81	46.9	3.34	6.42	0.09	0.09	0.03	0.038	0.13	15.2	13.3	0.75	380	10.00	0.03
YY15989		1.36	60.4	4.16	7.74	0.11	0.16	0.02	0.042	0.25	15.2	13.6	0.95	372	7.78	0.03
YY15990		0.61	40.3	3.28	6.26	0.07	0.09	0.02	0.045	0.11	11.6	12.0	0.61	458	10.15	0.03
YY15991		0.74	52.7	3.72	7.19	<0.05	0.05	0.01	0.062	0.09	8.7	12.2	0.52	238	9.89	0.02
YY15992		0.48	30.4	2.81	5.39	0.09	0.20	0.03	0.034	0.07	15.8	12.3	0.56	281	2.63	0.02
YY15993		0.68	27.9	3.48	7.30	0.06	0.05	0.02	0.049	0.08	9.0	10.5	0.47	570	6.03	0.02
YY15994		0.78	81.0	4.14	7.09	0.05	0.08	0.02	0.082	0.13	8.8	12.1	0.47	352	7.26	0.02
YY15995		0.57	54.5	3.62	6.85	0.07	0.15	0.02	0.064	0.08	10.4	12.3	0.59	345	3.96	0.02
YY15996		0.60	53.5	3.34	6.33	0.07	0.12	0.02	0.045	0.12	14.5	13.9	0.58	396	3.55	0.02
YY15997		1.21	85.5	4.37	7.52	0.06	0.07	0.02	0.080	0.14	10.0	13.9	0.56	393	9.80	0.02
YY15998		0.85	69.9	3.68	6.92	<0.05	0.08	0.01	0.036	0.08	8.3	14.6	0.65	249	8.05	0.02
YY15999		0.93	41.0	3.69	8.10	<0.05	0.03	0.02	0.031	0.07	7.0	13.4	0.62	310	5.12	0.02
YY16000		1.24	100.5	4.27	7.28	<0.05	0.03	0.02	0.055	0.08	7.2	14.4	0.54	357	7.68	0.02
YY17747		0.84	47.9	3.91	7.72	0.09	0.17	0.02	0.063	0.08	16.4	15.6	0.75	382	14.00	0.03
YY17748		1.18	29.6	2.64	5.77	0.06	0.04	0.05	0.071	0.06	12.1	15.4	0.56	697	1.60	0.02
YY17749		1.03	22.3	2.27	5.51	0.06	0.03	0.03	0.053	0.06	11.0	13.4	0.56	207	0.79	0.02
YY17750		0.92	21.3	1.99	5.40	0.06	0.03	0.03	0.044	0.06	9.9	12.6	0.53	234	0.68	0.02
YY17751		1.06	24.4	2.34	5.90	0.06	0.03	0.03	0.050	0.06	12.9	13.5	0.59	173	0.79	0.02
YY17752		0.98	15.4	2.19	5.58	0.05	0.02	0.03	0.034	0.05	10.6	11.9	0.51	142	0.66	0.02
YY17753		1.00	16.2	2.75	5.78	0.06	0.02	0.03	0.038	0.05	9.6	12.2	0.55	232	1.34	0.02
YY17754		1.02	16.2	2.68	5.75	0.05	0.03	0.04	0.037	0.06	10.0	12.6	0.59	288	0.81	0.02
YY17755		1.14	19.2	2.50	6.31	0.05	0.03	0.04	0.038	0.07	10.8	14.2	0.65	281	0.52	0.02
YY17756		1.21	33.0	3.36	7.06	0.05	0.04	0.02	0.049	0.06	10.5	15.8	0.61	382	1.50	0.02





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Page: 6 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.01	0.01	0.2	
YY15971		1.61	21.5	210	6.7	11.9	<0.001	0.02	0.51	4.3	0.2	0.6	32.8	<0.01	0.13	2.2
YY15972		1.28	15.5	250	7.9	12.3	<0.001	0.02	1.15	4.6	0.5	0.8	43.9	<0.01	0.37	2.3
YY15973		1.01	11.0	330	15.2	18.7	0.001	0.02	3.22	3.4	1.3	0.6	30.4	<0.01	1.41	3.3
YY15974		1.95	13.8	370	8.0	18.9	<0.001	0.02	0.53	3.4	<0.2	0.7	30.0	<0.01	0.20	1.5
YY15975		1.71	16.1	420	12.7	12.6	<0.001	0.03	1.82	3.1	0.5	0.6	36.3	<0.01	0.52	1.6
YY15976		1.41	19.0	430	34.1	11.5	<0.001	0.03	1.70	4.4	1.6	0.6	39.1	<0.01	0.57	2.8
YY15977		1.66	22.9	120	8.1	7.4	<0.001	0.01	0.69	5.5	0.6	0.6	40.5	<0.01	0.16	3.2
YY15978		1.37	20.2	220	9.4	7.7	<0.001	0.02	1.53	5.0	0.8	0.6	38.3	<0.01	0.13	2.6
YY15979		0.93	13.7	290	11.3	16.8	<0.001	0.02	2.06	3.3	0.4	0.7	30.5	<0.01	0.10	2.5
YY15980		1.44	18.3	240	8.2	14.5	<0.001	0.02	0.68	3.0	0.3	0.6	39.2	<0.01	0.12	1.5
YY15981		1.06	14.3	170	15.5	6.8	<0.001	0.02	0.94	2.4	0.4	0.5	26.8	<0.01	0.23	1.7
YY15982		1.80	13.5	250	9.4	10.0	<0.001	0.02	0.67	2.8	0.3	0.8	18.0	<0.01	0.16	1.7
YY15983		1.37	18.2	320	12.5	9.2	<0.001	0.02	0.78	4.0	0.6	0.6	50.1	<0.01	0.34	3.1
YY15984		1.82	24.2	320	9.9	41.8	0.001	0.02	0.56	11.6	0.6	1.3	36.3	<0.01	0.12	6.2
YY15985		2.35	17.4	760	11.9	44.1	0.001	0.02	0.31	10.4	0.2	2.0	55.6	0.02	0.05	18.0
YY15986		1.77	19.4	390	6.4	14.4	<0.001	0.02	0.46	6.4	0.3	0.9	33.8	<0.01	0.02	4.4
YY15987		4.30	15.0	680	9.6	32.9	0.001	0.03	0.66	8.5	0.7	1.4	48.2	0.01	0.06	9.5
YY15988		2.14	19.6	530	6.5	13.1	0.001	0.02	0.54	6.7	0.5	0.7	39.5	<0.01	0.10	3.4
YY15989		1.52	17.8	560	6.9	24.0	0.001	0.01	0.52	7.2	0.6	1.1	31.1	<0.01	0.09	6.6
YY15990		1.89	17.4	410	6.7	9.1	<0.001	0.01	0.66	5.7	0.6	0.7	49.4	<0.01	0.09	2.7
YY15991		1.25	15.6	240	8.5	9.9	<0.001	0.01	0.70	4.5	0.4	0.8	28.9	<0.01	0.12	2.3
YY15992		1.07	21.3	190	5.6	5.9	<0.001	0.01	0.57	6.2	0.4	0.6	35.7	<0.01	0.22	3.5
YY15993		1.26	17.1	300	8.2	5.5	<0.001	0.01	0.57	4.6	0.4	0.8	35.3	<0.01	0.08	2.1
YY15994		1.18	12.5	280	9.7	11.8	<0.001	0.02	1.53	4.6	0.7	0.8	43.9	<0.01	0.24	2.5
YY15995		1.05	20.0	210	7.7	6.2	<0.001	0.01	0.77	6.5	0.6	0.7	41.4	<0.01	0.16	3.2
YY15996		1.42	21.1	210	12.8	10.2	<0.001	0.01	0.79	5.9	0.7	0.6	41.4	<0.01	0.17	3.0
YY15997		1.30	18.5	270	16.6	16.3	<0.001	0.02	2.79	4.7	0.7	0.8	38.6	<0.01	0.33	2.4
YY15998		1.54	19.8	220	6.5	11.6	<0.001	0.01	0.98	4.2	0.4	0.7	43.8	<0.01	0.08	2.1
YY15999		1.64	20.8	330	8.2	10.4	<0.001	0.02	0.73	3.6	0.3	0.7	42.9	<0.01	0.07	1.0
YY16000		1.45	18.5	420	12.6	11.5	<0.001	0.02	1.31	3.2	0.5	0.8	33.6	<0.01	0.33	1.1
YY17747		1.85	17.1	500	8.2	8.0	0.001	0.01	0.65	7.9	0.9	1.0	48.5	<0.01	0.10	4.2
YY17748		1.13	15.7	600	11.5	8.0	<0.001	0.03	0.54	3.9	0.6	1.0	25.3	<0.01	0.04	1.7
YY17749		1.16	15.7	710	9.9	8.8	<0.001	0.03	0.39	3.6	0.5	0.8	25.7	<0.01	0.03	1.4
YY17750		1.20	15.6	660	9.9	6.6	<0.001	0.04	0.42	3.8	0.6	0.8	24.2	<0.01	0.03	1.3
YY17751		1.36	16.0	760	10.3	8.3	<0.001	0.03	0.38	4.3	0.6	0.8	25.1	<0.01	0.05	1.7
YY17752		1.32	14.8	700	7.9	8.4	<0.001	0.03	0.31	3.7	0.3	0.7	22.6	<0.01	0.04	1.3
YY17753		1.27	14.8	730	7.9	7.1	<0.001	0.03	0.34	3.6	0.5	0.7	22.4	<0.01	0.05	1.1
YY17754		1.27	14.9	730	8.2	8.6	<0.001	0.02	0.31	4.1	0.3	0.8	21.9	<0.01	0.07	1.6
YY17755		1.44	15.8	610	9.8	10.5	<0.001	0.03	0.35	5.1	0.5	0.9	23.8	<0.01	0.09	2.0
YY17756		1.53	21.6	650	11.4	10.0	<0.001	0.01	0.57	4.4	0.4	0.9	27.3	<0.01	0.05	1.8



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Page: 6 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY15971		0.112	0.09	0.53	72	0.17	3.46	55	3.0
YY15972		0.058	0.11	0.66	78	0.17	5.23	93	3.0
YY15973		0.027	0.15	1.39	49	0.21	6.86	99	1.9
YY15974		0.105	0.10	0.77	74	0.19	4.29	53	1.6
YY15975		0.081	0.11	0.74	72	0.30	3.45	93	1.2
YY15976		0.062	0.11	3.08	60	0.22	14.30	138	1.7
YY15977		0.098	0.10	1.07	74	0.17	9.64	56	7.9
YY15978		0.094	0.08	0.89	68	0.24	9.76	62	4.1
YY15979		0.032	0.10	0.78	52	0.10	7.13	67	2.2
YY15980		0.071	0.12	0.42	70	0.15	2.63	82	2.0
YY15981		0.025	0.12	0.41	58	0.12	2.36	79	1.9
YY15982		0.089	0.09	0.39	82	0.20	2.24	57	1.5
YY15983		0.098	0.08	0.99	60	0.30	6.36	75	7.0
YY15984		0.333	0.28	0.88	141	0.55	6.25	95	6.0
YY15985		0.386	0.30	1.57	151	0.32	8.17	123	5.7
YY15986		0.170	0.10	1.61	87	0.21	14.35	59	6.1
YY15987		0.280	0.23	5.34	107	0.29	22.2	84	4.3
YY15988		0.155	0.08	1.43	76	0.43	12.50	62	3.6
YY15989		0.251	0.18	1.51	102	0.23	7.46	75	5.2
YY15990		0.132	0.06	1.00	71	0.20	7.77	57	3.3
YY15991		0.088	0.10	0.67	73	0.19	4.51	60	1.6
YY15992		0.107	0.06	1.19	63	0.16	12.95	46	7.0
YY15993		0.069	0.10	0.53	69	0.14	4.45	62	2.1
YY15994		0.058	0.09	0.70	62	0.19	5.04	63	2.5
YY15995		0.100	0.07	0.74	68	0.21	7.77	57	5.4
YY15996		0.101	0.07	0.78	66	0.31	11.30	65	4.0
YY15997		0.080	0.11	0.78	69	0.19	5.66	90	3.0
YY15998		0.101	0.12	0.62	68	0.18	3.66	67	2.7
YY15999		0.089	0.12	0.45	82	0.15	2.96	103	1.0
YY16000		0.064	0.09	0.56	73	0.37	3.35	99	1.2
YY17747		0.158	0.09	1.80	84	0.21	13.75	73	6.7
YY17748		0.066	0.10	1.44	56	0.15	6.37	81	1.3
YY17749		0.075	0.11	0.87	53	0.26	5.86	76	0.9
YY17750		0.085	0.11	0.89	50	0.12	5.79	60	1.1
YY17751		0.091	0.12	1.08	58	0.24	6.60	66	1.1
YY17752		0.092	0.10	0.69	59	0.24	4.70	63	0.7
YY17753		0.087	0.11	0.70	68	0.13	4.61	61	0.7
YY17754		0.098	0.12	0.63	63	0.20	4.85	66	0.9
YY17755		0.112	0.13	0.82	64	0.13	5.59	73	1.2
YY17756		0.092	0.10	0.58	76	0.32	6.11	89	1.7



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Page: 7 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY17757		0.42	<0.001	0.31	2.48	25.5	<0.02	<10	130	0.50	0.18	0.43	1.40	18.10	10.0	37
YY17758		0.36	0.003	0.30	2.31	45.2	<0.02	<10	120	0.51	0.18	0.48	0.41	20.3	8.8	33
YY17759		0.37	0.002	0.33	2.30	48.9	<0.02	<10	150	0.59	0.49	0.52	0.70	20.6	11.3	35
YY17760		0.36	0.015	0.39	2.15	48.2	<0.02	<10	160	0.55	0.39	0.52	1.04	22.5	11.7	33
YY17761		0.45	0.009	0.49	3.07	68.8	<0.02	<10	180	1.05	0.43	0.57	0.35	35.3	14.7	45
YY17762		0.38	0.020	0.22	2.38	53.8	<0.02	<10	150	0.63	0.81	0.53	0.34	28.2	10.1	36
YY17763		0.40	0.035	0.44	2.27	54.4	0.02	<10	130	0.54	0.66	0.72	0.42	29.4	8.4	29
YY17764		0.46	0.047	0.40	1.98	46.9	<0.02	<10	170	0.60	0.78	0.90	0.28	30.0	8.8	28
YY17765		0.43	0.004	0.20	2.12	14.1	<0.02	<10	180	0.48	0.18	0.43	0.19	19.45	9.9	30
YY17766		0.36	0.005	0.23	2.24	20.2	<0.02	<10	160	0.41	0.20	0.43	0.11	17.65	8.8	31
YY17767		0.31	0.044	0.12	2.31	172.0	0.02	<10	170	0.51	0.49	0.42	0.25	26.6	12.2	28
YY17768		0.36	0.026	0.20	2.67	12.9	<0.02	<10	190	0.46	0.23	0.34	0.20	17.95	12.4	34
YY17769		0.45	<0.001	0.23	3.92	21.4	<0.02	<10	280	0.61	0.26	0.48	0.37	23.0	11.8	27
YY17770		0.54	0.001	0.38	3.41	12.3	<0.02	<10	250	0.69	0.19	0.61	0.49	30.3	14.3	32
YY17771		0.42	0.018	0.44	2.86	48.3	<0.02	<10	310	0.54	0.78	0.60	0.63	31.7	12.7	35
YY17772		0.36	0.015	0.90	2.65	93.2	<0.02	<10	170	0.50	0.75	0.42	0.73	18.25	9.6	33
YY17773		0.45	0.017	0.39	2.82	58.6	<0.02	<10	260	0.65	0.62	0.52	0.31	41.2	13.1	39
YY17774		0.48	0.064	0.26	2.96	105.0	0.02	<10	220	0.51	0.89	0.48	0.48	23.7	12.8	33
YY17775		0.39	0.013	0.18	2.00	18.0	<0.02	<10	150	0.45	0.34	0.41	0.12	26.7	8.9	36
YY17776		0.40	0.030	0.40	2.79	48.5	<0.02	<10	170	0.71	0.77	0.52	0.33	34.3	12.5	32
YY17777		0.42	0.005	1.14	3.24	92.7	<0.02	<10	90	0.68	0.71	0.29	0.76	17.70	11.8	31
YY17779		0.43	0.019	0.44	3.22	54.7	<0.02	<10	200	0.73	0.47	0.46	0.31	27.8	13.2	35
YY17780		0.40	0.011	0.21	3.16	32.8	<0.02	<10	300	0.59	0.52	0.55	0.22	29.1	12.7	31
YY17781		0.43	0.020	0.32	2.46	44.8	0.02	<10	220	0.41	1.12	0.62	0.15	25.8	9.3	29
YY17782		0.43	0.004	0.95	4.07	26.2	<0.02	<10	240	0.83	0.65	0.35	0.37	28.0	14.5	35
YY17783		0.46	0.009	0.08	2.76	29.8	<0.02	<10	140	0.78	0.51	0.47	0.19	32.8	12.6	34
YY17784		0.36	0.103	0.20	1.81	16.9	<0.02	<10	260	0.42	0.31	0.71	0.10	34.2	10.6	30
YY17785		0.41	0.037	0.14	2.88	23.5	0.03	<10	260	0.42	0.29	0.43	0.33	24.9	17.6	29
YY17786		0.39	0.006	0.15	3.50	152.0	<0.02	<10	430	0.64	0.67	0.52	0.36	38.8	16.7	16
YY17787		0.42	0.020	0.08	2.23	104.0	<0.02	<10	170	0.62	0.77	0.45	0.15	42.5	11.3	31
YY17788		0.39	0.006	0.26	3.43	218	<0.02	<10	210	0.94	1.84	0.39	0.55	44.0	14.6	20
YY17789		0.30	0.029	0.30	2.49	46.6	0.02	<10	200	0.55	0.69	1.03	0.17	36.0	9.8	26
YY17790		0.42	0.021	0.38	2.83	71.6	<0.02	<10	160	0.66	0.61	1.25	0.65	34.2	10.1	25
YY17791		0.31	0.027	0.55	2.20	65.5	0.02	<10	160	0.52	0.58	1.64	0.41	40.1	9.0	23
YY17792		0.42	0.053	0.26	1.80	34.6	0.03	<10	100	0.41	0.73	0.94	0.27	31.2	7.6	24
YY17793		0.47	0.029	0.78	2.37	35.8	0.02	<10	300	0.45	1.38	0.57	0.35	37.2	12.0	33
YY17794		0.28	0.103	5.66	2.27	54.9	0.06	<10	140	0.67	2.67	0.29	0.94	38.1	8.5	25
YY17795		0.21	0.012	0.31	1.65	17.5	<0.02	<10	160	0.38	0.39	0.34	0.55	23.0	6.1	25
YY17796		0.35	0.041	2.27	4.30	493	<0.02	<10	340	0.97	4.15	0.44	1.80	28.8	24.4	28
YY17797		0.34	0.037	0.36	3.99	93.5	0.05	<10	280	0.71	1.96	0.26	0.90	32.9	19.0	25



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Page: 7 - B  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY17757		1.09	20.7	3.63	7.69	0.05	0.07	0.02	0.043	0.07	9.2	17.7	0.62	330	1.46	0.02
YY17758		0.84	30.8	2.99	6.29	0.05	0.06	0.02	0.047	0.07	9.7	12.8	0.64	318	1.46	0.02
YY17759		0.60	27.1	3.25	6.88	<0.05	0.06	0.02	0.050	0.14	9.3	13.4	0.61	465	2.13	0.02
YY17760		0.66	39.8	3.28	6.89	0.06	0.06	0.01	0.055	0.11	10.9	11.5	0.54	672	2.92	0.02
YY17761		0.74	60.4	4.13	8.35	0.07	0.09	0.02	0.070	0.14	17.5	14.5	0.68	625	3.42	0.02
YY17762		0.47	59.2	3.62	7.17	0.07	0.12	0.02	0.057	0.14	12.8	14.0	0.72	363	3.29	0.02
YY17763		0.66	105.5	3.23	6.58	0.08	0.08	0.02	0.041	0.13	15.7	13.7	0.58	359	6.06	0.02
YY17764		0.50	80.6	3.03	5.73	0.08	0.07	0.03	0.045	0.07	14.9	12.1	0.52	544	6.23	0.02
YY17765		0.53	24.0	3.28	6.53	<0.05	0.03	0.02	0.034	0.10	9.8	12.5	0.58	383	16.55	0.02
YY17766		0.74	27.5	3.17	6.60	0.05	0.12	0.01	0.030	0.05	8.6	14.1	0.64	293	6.23	0.02
YY17767		1.17	56.8	4.33	7.45	0.11	0.10	0.01	0.034	0.18	12.1	14.7	0.88	358	11.05	0.03
YY17768		1.01	22.3	3.85	7.49	0.07	0.12	0.02	0.040	0.09	8.7	17.7	0.67	284	5.56	0.02
YY17769		1.50	38.8	4.76	11.95	0.05	0.07	0.02	0.069	0.18	10.5	18.8	0.93	324	5.91	0.02
YY17770		1.13	25.4	4.69	11.15	0.05	0.11	0.02	0.053	0.14	13.8	15.7	0.86	437	4.24	0.02
YY17771		1.60	83.1	4.07	8.52	0.05	0.08	0.03	0.062	0.19	15.8	19.7	0.86	450	3.47	0.02
YY17772		1.44	50.5	3.66	8.54	0.05	0.06	0.02	0.044	0.07	9.7	15.3	0.64	257	4.97	0.02
YY17773		1.38	93.6	3.73	7.73	0.07	0.11	0.03	0.051	0.09	24.0	18.6	0.88	406	1.73	0.03
YY17774		1.76	90.4	4.29	8.78	0.06	0.07	0.02	0.070	0.10	12.0	19.2	0.86	381	3.20	0.02
YY17775		0.82	40.3	2.86	6.06	0.05	0.15	0.02	0.024	0.06	14.1	14.0	0.69	318	1.19	0.02
YY17776		1.46	112.5	3.67	7.71	0.06	0.19	0.03	0.063	0.08	17.4	21.2	0.73	358	4.42	0.02
YY17777		1.44	65.9	4.30	9.16	<0.05	0.06	0.02	0.084	0.07	9.0	18.8	0.65	282	4.87	0.02
YY17779		1.29	81.1	4.25	8.67	0.05	0.09	0.01	0.072	0.12	12.6	22.3	0.88	348	4.00	0.02
YY17780		2.25	67.0	5.16	10.50	0.10	0.16	0.01	0.085	0.36	12.8	19.7	1.18	393	3.88	0.03
YY17781		1.01	57.8	3.86	7.99	0.06	0.15	0.02	0.048	0.14	12.8	16.8	0.84	309	2.98	0.03
YY17782		1.97	86.5	5.10	11.40	0.05	0.07	0.02	0.061	0.27	13.2	21.6	1.06	347	3.59	0.02
YY17783		0.77	66.6	4.19	8.49	0.05	0.14	0.01	0.046	0.10	13.0	18.1	0.88	305	5.12	0.02
YY17784		0.78	44.8	3.03	5.97	0.08	0.09	0.02	0.022	0.11	18.3	13.4	0.72	458	1.81	0.03
YY17785		1.92	46.9	4.61	10.20	0.08	0.06	0.01	0.028	0.30	11.5	18.8	0.94	433	2.80	0.03
YY17786		1.72	73.6	4.71	11.10	<0.05	0.03	0.01	0.037	0.13	14.2	23.9	0.83	574	4.25	0.02
YY17787		1.32	29.3	3.66	6.99	0.06	0.12	0.01	0.022	0.16	16.3	15.6	0.77	374	2.25	0.02
YY17788		1.47	69.7	5.73	10.15	0.06	0.03	0.02	0.049	0.12	22.2	18.5	1.07	515	26.7	0.02
YY17789		1.69	61.8	4.31	9.02	0.11	0.10	0.04	0.040	0.17	19.6	17.9	0.91	332	20.2	0.03
YY17790		1.57	88.1	4.95	11.30	0.17	0.17	0.02	0.051	0.30	23.1	19.8	0.98	388	21.2	0.03
YY17791		0.84	77.9	3.37	7.02	0.07	0.06	0.04	0.038	0.09	22.6	13.5	0.63	518	21.1	0.03
YY17792		0.67	55.9	2.77	6.20	0.08	0.09	0.03	0.047	0.08	15.7	11.4	0.55	326	14.60	0.03
YY17793		2.45	65.4	3.78	6.95	0.09	0.09	0.04	0.049	0.20	19.6	16.6	0.88	357	1.16	0.03
YY17794		1.68	95.8	2.80	5.54	0.05	<0.02	0.11	0.054	0.07	21.4	9.7	0.37	274	1.82	0.02
YY17795		1.14	43.8	2.20	5.46	<0.05	<0.02	0.04	0.024	0.06	12.2	8.2	0.41	179	1.36	0.02
YY17796		3.20	134.0	6.82	12.95	0.05	0.05	0.05	0.107	0.18	13.3	23.1	1.02	358	3.18	0.02
YY17797		2.44	106.0	6.29	12.75	<0.05	0.04	0.03	0.101	0.19	13.4	19.6	0.88	369	2.74	0.02



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Page: 7 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY17757		1.74	25.6	310	8.7	12.0	<0.001	0.01	0.41	4.2	0.2	0.8	31.1	<0.01	0.04	1.8
YY17758		1.47	21.6	220	7.7	10.8	<0.001	0.01	0.41	4.0	0.2	0.9	40.3	<0.01	0.04	1.7
YY17759		1.44	21.7	240	10.9	12.0	<0.001	0.01	0.51	4.1	0.4	1.0	45.0	<0.01	0.04	1.7
YY17760		1.38	20.7	350	10.4	12.0	<0.001	0.02	0.63	4.2	0.3	1.0	40.0	<0.01	0.07	1.5
YY17761		1.44	27.4	360	12.5	13.7	<0.001	0.02	0.59	7.0	0.5	1.1	43.3	<0.01	0.08	2.6
YY17762		1.57	22.3	240	11.4	7.7	<0.001	0.01	0.59	5.7	0.6	1.4	38.6	<0.01	0.13	2.7
YY17763		1.62	17.6	390	7.0	11.8	0.001	0.03	0.79	5.3	1.3	0.7	45.3	<0.01	0.20	2.1
YY17764		1.29	19.0	460	7.2	5.7	0.001	0.02	0.79	5.1	0.9	0.6	67.5	<0.01	0.14	2.1
YY17765		1.33	18.1	420	6.8	11.2	<0.001	0.01	0.32	3.7	0.4	0.6	29.0	<0.01	0.04	1.7
YY17766		1.55	21.5	250	6.0	8.2	<0.001	0.01	0.38	4.2	0.3	0.6	34.9	<0.01	0.04	2.3
YY17767		2.30	18.8	530	7.9	19.0	<0.001	0.02	2.44	6.0	0.5	0.8	25.6	<0.01	0.18	6.0
YY17768		2.48	24.1	540	7.5	12.0	<0.001	0.01	0.36	4.5	0.4	0.8	21.5	<0.01	0.03	2.7
YY17769		3.16	17.8	340	11.9	19.4	<0.001	0.01	0.63	6.2	<0.2	1.7	39.4	<0.01	0.04	7.5
YY17770		2.74	20.6	290	12.9	12.8	<0.001	0.01	0.51	7.0	0.3	2.1	34.0	<0.01	0.03	8.0
YY17771		2.32	23.1	540	13.4	20.0	<0.001	0.01	0.58	7.7	0.3	1.3	40.4	<0.01	0.10	4.9
YY17772		1.89	19.5	260	18.8	13.4	<0.001	0.01	0.76	4.7	0.2	1.1	27.9	<0.01	0.23	2.6
YY17773		1.46	26.0	320	17.5	11.4	<0.001	<0.01	0.44	8.5	0.3	1.1	32.9	<0.01	0.18	6.1
YY17774		1.92	22.6	440	27.8	14.1	<0.001	0.01	0.75	6.6	0.2	1.5	35.3	<0.01	0.30	3.9
YY17775		1.13	22.1	180	8.5	9.4	<0.001	<0.01	0.40	6.1	<0.2	0.8	29.6	<0.01	0.07	4.5
YY17776		1.70	19.3	390	11.9	10.4	<0.001	<0.01	0.53	5.7	0.3	1.0	44.3	<0.01	0.08	4.6
YY17777		1.61	20.6	230	11.7	13.7	<0.001	0.01	1.15	4.0	0.2	1.5	28.5	<0.01	0.08	2.3
YY17779		2.08	23.9	290	9.6	16.4	<0.001	0.01	0.71	6.6	<0.2	1.5	37.1	<0.01	0.07	5.3
YY17780		2.39	18.7	300	10.7	33.2	<0.001	0.01	0.49	9.9	<0.2	2.2	34.1	<0.01	0.06	7.2
YY17781		1.78	17.5	370	8.3	14.3	<0.001	<0.01	0.50	6.8	<0.2	1.3	36.9	<0.01	0.05	4.9
YY17782		2.05	22.6	300	10.0	30.4	<0.001	0.01	0.47	9.3	0.4	1.6	36.6	<0.01	0.10	5.6
YY17783		1.21	22.5	220	9.2	11.5	<0.001	<0.01	1.25	7.7	<0.2	0.9	30.2	<0.01	0.09	7.4
YY17784		1.88	18.5	660	7.2	10.2	<0.001	<0.01	0.45	6.6	0.2	0.7	37.0	<0.01	0.04	5.0
YY17785		3.58	18.0	770	8.8	32.1	<0.001	0.01	0.49	5.5	0.2	1.3	22.1	<0.01	0.07	4.4
YY17786		1.95	12.2	800	11.3	17.2	<0.001	0.01	1.46	9.2	0.3	1.3	33.4	<0.01	0.39	10.0
YY17787		1.04	17.5	340	9.6	14.5	0.001	0.01	0.85	6.9	<0.2	0.8	29.0	<0.01	0.31	10.2
YY17788		0.44	12.8	310	17.2	13.4	<0.001	0.01	1.44	9.2	0.5	1.3	38.7	<0.01	0.21	12.8
YY17789		3.05	15.7	590	8.8	18.4	0.001	0.03	1.03	10.0	0.3	1.1	59.3	<0.01	0.11	5.7
YY17790		4.23	12.4	680	12.4	22.0	0.002	0.02	1.17	11.5	1.1	1.8	59.3	0.01	0.14	9.2
YY17791		2.32	14.4	610	10.2	10.8	0.003	0.06	1.34	6.3	1.7	0.8	85.3	<0.01	0.14	2.5
YY17792		1.74	13.3	560	9.3	7.9	0.002	0.04	0.71	5.2	0.7	0.9	53.7	<0.01	0.16	2.7
YY17793		1.74	19.4	790	50.7	26.3	<0.001	0.01	0.96	8.7	0.5	1.4	37.1	<0.01	0.38	6.2
YY17794		1.05	13.8	960	379	11.6	<0.001	0.07	1.51	3.5	1.3	0.8	24.3	<0.01	0.84	0.5
YY17795		0.94	15.2	740	9.3	10.0	<0.001	0.03	0.34	2.0	0.3	0.7	25.4	<0.01	0.08	0.2
YY17796		3.49	20.9	460	197.5	26.3	<0.001	0.04	4.88	9.2	1.6	3.3	49.8	0.01	1.94	5.1
YY17797		2.55	17.8	410	28.4	24.3	<0.001	0.02	1.69	8.3	0.8	2.3	27.8	<0.01	0.48	6.0



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Page: 7 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

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**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY17757		0.110	0.10	0.45	82	0.22	4.06	78	3.0
YY17758		0.102	0.08	0.49	68	0.37	4.82	73	2.3
YY17759		0.094	0.09	0.51	73	0.16	4.52	84	2.2
YY17760		0.096	0.10	0.60	72	0.21	7.49	110	1.8
YY17761		0.104	0.10	1.12	83	0.19	12.35	89	3.2
YY17762		0.118	0.09	0.82	71	0.29	8.93	76	4.2
YY17763		0.103	0.08	2.19	60	0.16	13.75	63	2.5
YY17764		0.082	0.05	2.56	58	0.17	13.65	58	2.5
YY17765		0.091	0.07	0.58	77	0.17	5.55	52	1.5
YY17766		0.120	0.07	0.49	75	0.18	3.64	47	3.9
YY17767		0.191	0.14	1.34	89	0.29	6.02	78	3.2
YY17768		0.161	0.09	0.53	85	0.21	3.68	59	4.1
YY17769		0.237	0.18	0.67	116	0.25	3.86	103	2.7
YY17770		0.242	0.20	0.74	112	0.17	5.33	105	4.2
YY17771		0.150	0.17	1.78	92	0.54	9.30	99	3.0
YY17772		0.111	0.15	0.75	90	0.20	4.18	109	2.8
YY17773		0.155	0.18	2.06	86	0.28	12.90	101	4.7
YY17774		0.147	0.19	0.93	91	0.18	7.21	126	3.3
YY17775		0.131	0.09	0.90	69	0.19	7.62	62	6.5
YY17776		0.092	0.16	1.42	79	0.17	9.47	88	7.1
YY17777		0.053	0.17	0.54	84	0.17	2.98	89	2.5
YY17779		0.125	0.17	1.12	90	0.19	6.53	90	3.8
YY17780		0.261	0.34	1.02	120	0.19	6.75	97	5.3
YY17781		0.177	0.14	0.86	91	0.22	7.28	73	5.7
YY17782		0.197	0.27	1.03	116	0.15	6.66	93	2.8
YY17783		0.127	0.13	0.93	91	0.17	5.28	69	5.3
YY17784		0.138	0.10	1.73	73	0.21	13.50	61	4.1
YY17785		0.273	0.27	0.79	118	0.29	5.62	77	2.3
YY17786		0.065	0.22	1.43	109	0.43	9.62	88	0.9
YY17787		0.113	0.13	1.52	85	0.22	7.35	61	4.5
YY17788		0.021	0.20	2.21	89	0.31	7.06	89	1.5
YY17789		0.187	0.17	2.63	92	0.18	15.90	81	4.5
YY17790		0.291	0.18	4.93	117	0.40	16.35	103	6.3
YY17791		0.114	0.09	4.24	70	0.33	19.50	69	2.6
YY17792		0.100	0.07	2.03	54	0.17	11.90	68	3.3
YY17793		0.181	0.33	2.09	86	0.16	12.75	113	4.0
YY17794		0.054	0.18	3.28	51	0.15	12.00	130	<0.5
YY17795		0.063	0.11	1.35	48	0.17	6.29	53	<0.5
YY17796		0.176	0.44	1.47	126	0.29	8.39	264	2.0
YY17797		0.124	0.32	1.32	133	0.41	8.88	132	1.6



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Page: 8 - A  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
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CERTIFICATE OF ANALYSIS WH19213275
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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
LOD	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
YY17798		0.41	0.016	0.37	2.37	45.6	<0.02	<10	210	0.55	0.43	0.80	0.50	30.7	10.4	33
YY17799		0.36	0.006	0.37	1.93	40.9	<0.02	<10	160	0.58	0.32	0.93	0.72	26.9	8.7	27
YY17800		0.38	0.009	0.71	2.86	89.8	<0.02	<10	180	0.70	0.92	0.49	0.50	26.8	8.9	33
YY17801		0.45	0.002	0.45	2.61	13.8	<0.02	<10	220	0.60	0.21	0.44	0.16	34.0	12.0	35
YY17802		0.34	0.004	0.15	2.22	17.6	<0.02	<10	170	0.55	0.23	0.42	0.28	22.2	9.0	24
YY17803		0.34	0.002	0.45	2.74	57.9	0.05	<10	160	0.63	0.58	0.48	0.35	23.1	8.8	20
YY17804		0.43	0.004	0.27	3.14	28.0	<0.02	<10	210	0.59	0.43	0.52	0.23	49.0	12.6	39
YY17805		0.39	0.011	0.73	2.83	57.8	<0.02	<10	280	0.59	3.58	0.35	0.71	34.7	9.2	31
YY17991		0.53	0.004	0.18	2.42	7.8	<0.02	<10	270	0.48	0.15	0.76	3.17	42.1	10.7	21
YY17992		0.58	0.009	0.12	2.78	72.7	0.03	<10	210	0.45	0.97	0.29	1.28	25.6	15.8	26
YY17993		0.42	0.009	0.12	2.78	40.4	<0.02	<10	240	0.55	1.50	0.33	0.61	32.3	13.2	28
YY17994		0.50	0.002	0.06	3.73	14.8	<0.02	<10	320	0.71	0.50	0.28	0.76	35.8	16.2	27
YY17995		0.36	0.007	0.31	3.23	84.6	<0.02	<10	150	0.60	1.16	0.20	0.48	21.7	13.3	37
YY17996		0.51	0.008	0.79	3.03	30.0	<0.02	<10	210	0.68	0.36	0.29	0.14	24.2	12.2	41
YY17997		0.48	0.011	0.69	1.92	80.0	<0.02	<10	150	0.36	1.31	0.26	0.30	27.6	6.9	25
YY17998		0.39	0.030	1.17	1.90	87.8	<0.02	<10	230	0.53	1.34	0.86	0.38	32.9	10.0	26
YY17999		0.42	0.011	0.25	3.25	51.5	<0.02	<10	220	0.67	0.75	0.22	0.38	26.5	14.1	33
YY18000		0.60	0.017	0.46	3.25	181.5	<0.02	<10	200	0.90	0.64	0.46	0.25	38.5	13.6	34
YY17821		0.37	0.030	0.50	2.31	64.2	<0.02	<10	140	0.60	1.02	0.42	0.33	23.1	9.1	32
YY17822		0.42	0.017	0.25	3.32	106.5	<0.02	<10	140	0.70	1.12	0.40	0.45	19.70	10.6	32
YY17823		0.40	0.026	0.45	2.10	65.7	0.02	<10	140	0.61	0.59	0.47	0.19	33.0	8.9	34
YY17824		0.49	0.013	0.58	2.30	49.8	<0.02	<10	110	0.65	0.71	0.39	0.25	33.5	10.8	37
YY17825		0.36	0.007	0.25	2.01	31.8	<0.02	<10	150	0.58	0.48	0.55	0.17	27.6	9.7	36
YY17826		0.42	0.003	0.23	3.12	18.3	<0.02	<10	140	0.69	0.27	0.43	0.40	23.8	11.3	31
YY17827		0.30	0.015	0.21	2.14	38.1	<0.02	<10	140	0.61	0.34	0.65	0.18	31.9	10.3	32
YY17828		0.24	0.038	0.57	1.93	61.3	0.03	<10	120	0.65	0.85	1.65	0.70	34.5	7.8	23
YY17829		0.47	0.020	0.12	2.52	91.5	<0.02	<10	190	0.51	0.80	0.61	0.23	27.4	12.7	26
YY17830		0.38	0.220	0.37	3.83	50.9	<0.02	<10	180	0.68	0.66	0.48	0.29	19.80	15.2	32
YY17831		0.43	0.027	0.27	2.76	59.9	0.02	<10	190	0.61	0.75	0.72	0.20	38.9	14.0	30
YY17832		0.40	0.151	2.54	3.30	206	0.13	<10	170	0.92	0.92	0.70	0.63	69.8	16.3	32
YY17833		0.33	0.008	0.40	3.86	60.9	<0.02	<10	220	0.86	0.43	0.67	0.37	53.9	14.8	34
YY17834		0.38	0.012	0.69	2.80	50.9	<0.02	<10	220	0.70	0.29	0.88	0.44	40.1	15.8	33
YY17835		0.32	0.016	0.17	2.29	22.3	<0.02	<10	190	0.48	0.38	0.78	0.18	30.8	10.0	30
YY17836		0.37	0.033	1.27	2.94	66.4	0.02	<10	180	0.66	0.67	0.60	0.34	39.6	12.6	31





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Page: 8 - B  
 Total # Pages: 8 (A - D)  
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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY17798		1.55	86.6	3.22	7.41	0.05	0.04	0.03	0.059	0.11	16.8	16.4	0.66	426	3.35	0.03
YY17799		1.11	62.8	2.53	6.25	0.05	0.03	0.02	0.044	0.08	15.8	12.2	0.50	517	2.66	0.02
YY17800		1.66	72.0	4.08	9.66	0.05	0.08	0.02	0.065	0.10	14.0	15.3	0.58	370	6.35	0.02
YY17801		1.00	26.4	3.64	8.06	0.05	0.15	0.01	0.035	0.19	16.4	14.1	0.67	358	3.27	0.02
YY17802		0.63	23.3	3.31	7.41	<0.05	0.13	0.01	0.032	0.15	10.7	13.3	0.62	303	4.06	0.02
YY17803		1.12	48.1	3.78	8.24	<0.05	0.06	0.01	0.045	0.12	11.1	12.9	0.65	292	4.60	0.02
YY17804		1.06	50.3	4.16	9.29	0.07	0.19	0.03	0.036	0.27	20.3	13.3	0.84	295	1.94	0.02
YY17805		1.24	32.2	3.38	7.80	<0.05	0.02	0.04	0.051	0.10	18.6	14.8	0.62	330	2.28	0.02
YY17991		1.41	12.7	3.21	6.87	0.07	0.10	0.01	0.022	0.12	20.3	11.4	0.81	708	0.71	0.02
YY17992		1.41	17.9	4.03	7.04	0.05	0.15	0.01	0.046	0.13	12.9	13.6	0.76	574	1.15	0.02
YY17993		1.44	19.5	3.89	7.98	0.06	0.07	0.02	0.044	0.12	16.0	16.5	0.77	509	1.30	0.02
YY17994		2.55	21.0	4.11	8.60	<0.05	0.09	0.01	0.047	0.10	15.9	19.7	0.92	498	0.73	0.02
YY17995		1.26	21.2	3.77	6.91	<0.05	0.08	0.03	0.034	0.06	10.8	15.2	0.52	342	1.40	0.02
YY17996		1.10	40.6	3.42	6.47	<0.05	0.29	0.08	0.031	0.06	9.8	14.1	0.70	308	0.82	0.02
YY17997		1.35	29.7	2.57	7.02	0.05	0.07	0.01	0.038	0.06	16.2	12.2	0.51	234	1.17	0.01
YY17998		1.05	92.9	2.77	5.44	0.05	0.07	0.04	0.054	0.06	17.7	14.8	0.58	607	2.70	0.02
YY17999		1.33	79.6	4.28	8.80	0.05	0.10	0.02	0.082	0.10	14.1	22.1	0.92	322	2.80	0.02
YY18000		1.13	86.9	4.76	9.11	0.05	0.16	0.01	0.094	0.10	17.4	21.6	1.01	338	2.16	0.02
YY17821		1.09	58.7	3.51	6.88	0.05	0.11	0.02	0.039	0.07	11.3	15.8	0.64	346	3.06	0.02
YY17822		1.13	78.6	4.04	8.16	0.05	0.19	0.01	0.055	0.07	8.9	17.3	0.72	268	3.37	0.02
YY17823		0.63	66.0	3.21	5.66	0.05	0.21	0.03	0.039	0.06	15.0	12.4	0.63	349	2.58	0.03
YY17824		0.82	59.0	3.44	6.75	0.05	0.14	0.03	0.044	0.10	14.4	13.4	0.55	367	4.13	0.02
YY17825		0.43	32.9	3.04	5.71	0.05	0.20	0.02	0.036	0.07	11.1	11.3	0.58	486	2.56	0.03
YY17826		1.06	29.6	4.48	10.10	<0.05	0.07	0.01	0.082	0.11	10.3	16.7	0.78	441	7.69	0.02
YY17827		0.62	38.9	3.48	6.37	0.07	0.15	0.02	0.058	0.06	15.1	13.1	0.67	464	5.86	0.04
YY17828		0.71	101.5	2.65	6.07	0.09	0.11	0.05	0.049	0.08	18.3	13.1	0.49	321	16.10	0.03
YY17829		1.07	57.9	4.92	8.64	0.09	0.16	0.01	0.034	0.15	13.7	16.2	0.98	378	24.1	0.03
YY17830		1.68	50.6	5.71	11.65	0.07	0.14	0.01	0.055	0.14	10.0	21.5	1.27	353	12.60	0.02
YY17831		1.68	60.4	4.86	9.00	0.11	0.16	0.02	0.048	0.30	18.6	19.3	1.01	465	15.95	0.03
YY17832		1.80	109.0	5.57	10.60	0.13	0.24	0.03	0.079	0.21	40.0	22.2	1.18	533	12.45	0.03
YY17833		1.43	55.6	5.39	11.85	0.06	0.16	0.02	0.067	0.11	22.2	22.5	1.19	421	7.23	0.02
YY17834		1.41	74.4	4.65	9.33	0.09	0.26	0.02	0.040	0.18	23.3	20.9	1.11	610	4.26	0.04
YY17835		1.10	43.6	3.51	7.20	0.09	0.21	0.01	0.034	0.23	15.1	15.8	0.86	421	3.20	0.04
YY17836		0.82	76.0	4.14	8.25	0.07	0.16	0.03	0.045	0.14	20.3	17.2	0.84	418	4.32	0.03





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Page: 8 - C  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY17798		1.64	21.8	580	11.8	14.7	<0.001	0.06	0.66	5.5	0.6	1.0	49.2	<0.01	0.04	2.0
YY17799		1.24	18.2	510	10.0	9.2	<0.001	0.04	0.49	4.0	0.3	0.9	58.3	<0.01	0.04	1.0
YY17800		1.73	20.2	340	13.0	18.6	<0.001	0.03	0.97	4.9	<0.2	1.9	39.5	<0.01	0.10	2.3
YY17801		1.39	21.1	210	8.4	19.7	<0.001	0.02	0.42	6.7	0.2	1.1	30.2	<0.01	0.04	6.4
YY17802		1.35	13.7	170	9.7	11.9	<0.001	0.02	0.68	4.3	<0.2	0.8	25.7	<0.01	0.03	5.5
YY17803		1.14	11.5	250	9.6	10.0	<0.001	0.02	1.08	5.0	<0.2	0.8	33.1	<0.01	0.07	5.0
YY17804		1.83	21.8	240	9.8	23.3	<0.001	0.02	0.63	9.9	0.3	1.2	37.8	<0.01	0.09	9.3
YY17805		1.41	17.9	490	16.7	14.1	<0.001	0.03	0.82	5.5	0.2	1.4	29.5	<0.01	0.05	2.7
YY17991		1.38	13.7	820	17.1	14.9	<0.001	0.01	0.39	8.1	0.3	0.8	45.7	<0.01	0.02	9.3
YY17992		2.24	17.4	480	20.1	17.0	<0.001	0.06	0.69	4.9	0.6	1.1	32.2	0.01	0.03	5.2
YY17993		2.24	17.6	470	11.3	15.4	<0.001	0.03	0.53	5.9	0.6	1.1	39.2	0.01	0.05	4.5
YY17994		1.20	19.2	230	18.8	19.1	<0.001	0.01	0.34	6.6	0.5	0.9	41.5	<0.01	0.04	9.1
YY17995		1.94	19.8	440	10.4	9.1	<0.001	0.02	0.68	4.5	0.5	0.8	21.5	0.02	0.25	3.3
YY17996		1.30	31.5	200	8.9	8.8	<0.001	0.01	0.46	5.4	0.5	0.7	26.2	<0.01	0.05	4.4
YY17997		1.47	13.6	170	15.1	20.7	<0.001	0.01	0.52	4.0	0.3	1.0	26.1	<0.01	0.13	3.0
YY17998		1.13	19.5	780	41.1	9.9	0.001	0.04	1.33	5.4	1.3	0.7	53.6	<0.01	0.10	2.7
YY17999		1.34	23.0	210	21.8	10.9	<0.001	0.01	1.13	7.0	0.7	1.1	24.0	<0.01	0.13	5.6
YY18000		1.12	21.6	200	19.3	14.4	<0.001	0.01	1.42	8.5	0.8	1.2	42.5	<0.01	0.18	9.2
YY17821		1.28	20.3	230	12.3	10.4	<0.001	0.02	0.75	4.8	0.4	1.1	36.5	<0.01	0.22	2.7
YY17822		1.19	23.9	200	23.3	10.8	<0.001	0.01	1.04	5.0	0.6	1.4	41.6	<0.01	0.22	2.9
YY17823		1.04	20.8	170	16.6	6.4	<0.001	0.01	0.67	6.2	0.5	0.9	35.8	<0.01	0.15	3.3
YY17824		1.25	21.9	170	8.9	11.4	<0.001	0.01	0.67	5.9	0.5	0.8	35.8	<0.01	0.17	3.3
YY17825		1.35	23.2	140	8.1	5.5	<0.001	0.01	0.49	6.2	0.5	0.7	38.5	<0.01	0.08	3.1
YY17826		1.52	21.0	330	10.3	15.3	0.001	0.01	0.54	6.5	0.4	1.1	39.6	<0.01	0.08	3.7
YY17827		1.27	20.8	340	9.3	5.7	0.001	0.01	0.75	6.7	0.5	0.8	43.6	<0.01	0.09	3.5
YY17828		1.68	15.8	580	12.6	8.7	0.017	0.16	1.05	5.9	4.2	0.8	88.1	<0.01	0.19	2.3
YY17829		2.39	17.2	510	9.0	15.3	0.001	0.01	1.42	7.3	0.9	0.8	34.0	<0.01	0.38	5.2
YY17830		2.38	22.7	230	12.1	22.8	0.001	0.01	0.72	8.1	0.3	1.5	43.8	<0.01	0.21	5.8
YY17831		2.43	17.3	420	9.8	19.2	0.001	0.01	1.01	10.8	0.5	1.6	43.5	<0.01	0.17	7.3
YY17832		1.12	20.8	390	55.4	19.4	0.003	0.01	3.77	16.9	0.7	1.3	49.4	<0.01	0.18	13.1
YY17833		1.77	22.4	290	19.0	14.5	0.001	0.01	0.60	11.0	0.6	1.8	52.0	0.01	0.05	9.6
YY17834		1.26	22.8	570	16.0	17.9	<0.001	0.01	0.79	11.6	0.6	1.1	43.8	0.01	0.05	8.5
YY17835		1.80	18.2	690	9.2	17.1	<0.001	0.01	0.45	7.2	<0.2	0.9	41.5	<0.01	0.07	5.5
YY17836		1.63	18.3	290	18.3	9.0	0.001	0.01	1.62	8.2	0.5	1.0	38.9	<0.01	0.18	7.9



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Page: 8 - D  
 Total # Pages: 8 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2019  
 Account: MTT

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY17798		0.100	0.13	2.15	71	0.16	11.45	86	1.4
YY17799		0.066	0.09	1.32	56	0.21	12.35	68	1.1
YY17800		0.087	0.17	0.79	86	0.16	8.94	81	3.4
YY17801		0.160	0.14	0.68	88	0.19	7.29	59	5.7
YY17802		0.066	0.11	0.58	75	0.11	3.45	81	4.5
YY17803		0.032	0.24	0.86	77	0.13	4.16	91	1.8
YY17804		0.210	0.18	1.23	101	0.25	7.74	75	7.4
YY17805		0.082	0.16	1.84	71	0.13	7.11	118	0.5
YY17991		0.157	0.13	1.27	81	0.19	13.65	125	2.7
YY17992		0.165	0.21	0.88	86	0.24	4.93	154	5.0
YY17993		0.164	0.19	1.14	90	0.19	6.52	102	2.8
YY17994		0.066	0.24	0.93	88	0.14	4.95	233	3.4
YY17995		0.105	0.13	0.76	76	0.21	4.28	73	3.0
YY17996		0.126	0.13	0.71	77	0.17	4.15	59	9.9
YY17997		0.091	0.15	0.80	69	0.21	5.28	75	2.5
YY17998		0.059	0.13	3.35	56	0.25	13.35	112	1.9
YY17999		0.088	0.17	0.84	96	0.17	5.41	111	3.4
YY18000		0.098	0.20	0.95	106	0.18	6.76	85	5.7
YY17821		0.082	0.12	0.75	72	0.16	6.91	69	3.8
YY17822		0.079	0.13	0.63	72	0.20	5.47	88	7.0
YY17823		0.095	0.08	0.89	66	0.16	9.57	71	7.3
YY17824		0.091	0.12	0.81	73	0.15	7.20	56	5.5
YY17825		0.108	0.07	0.54	67	0.17	5.77	51	6.6
YY17826		0.087	0.13	0.80	92	0.52	6.06	80	2.5
YY17827		0.104	0.07	0.93	72	0.15	12.65	63	5.5
YY17828		0.075	0.08	4.49	52	0.15	19.80	74	4.6
YY17829		0.213	0.12	1.31	98	0.37	8.12	82	5.5
YY17830		0.259	0.19	0.84	124	0.32	3.98	88	4.5
YY17831		0.203	0.16	2.25	102	0.20	13.80	83	5.6
YY17832		0.190	0.18	1.97	119	0.18	26.0	162	8.4
YY17833		0.235	0.18	1.28	127	0.47	12.05	109	5.1
YY17834		0.204	0.16	1.24	112	0.22	20.3	102	9.4
YY17835		0.178	0.14	1.02	85	0.21	11.05	77	7.3
YY17836		0.129	0.15	1.47	92	0.23	10.55	86	5.4



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

Project: Alotta

**CERTIFICATE OF ANALYSIS WH19213275**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

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

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
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-MS41



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Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 23-SEP-2019  
 Account: MTT

**CERTIFICATE WH19213286**

Project: ALOTTA

This report is for 16 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27-AUG-2019.

The following have access to data associated with this certificate:

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

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

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

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

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

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 23-SEP-2019  
 Account: MTT

Project: ALOTTA

**CERTIFICATE OF ANALYSIS WH19213286**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41		
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.01	0.02	0.1	1	0.05
R609013		0.95	0.14	0.99	118.5	0.16	<10	90	0.71	3.58	0.09	0.42	15.40	4.9	4	0.84	
R609014		1.09	0.04	1.86	2.4	<0.02	<10	470	0.30	0.08	0.90	0.42	28.9	8.6	10	0.76	
R609015		1.57	0.52	1.65	64.8	0.21	<10	110	0.58	0.59	0.28	0.50	19.95	5.1	9	1.04	
R609016		2.01	0.12	1.69	718	0.12	<10	80	0.78	1.58	0.17	0.32	38.4	6.7	8	1.17	
R609017		1.08	0.24	0.55	62.7	0.22	<10	70	0.44	0.85	0.08	0.34	46.0	3.3	5	0.68	
R609018		1.45	0.26	3.70	6.4	0.11	<10	150	0.90	0.11	1.36	0.71	16.35	4.1	10	1.78	
R609019		1.57	0.22	1.56	78.6	0.18	<10	60	0.50	0.49	0.23	0.28	23.8	4.0	7	0.76	
R609020		2.19	0.48	1.52	2.5	<0.02	<10	60	0.34	1.18	0.38	0.43	23.0	3.4	5	0.56	
R609021		1.62	0.15	1.15	120.0	0.20	<10	80	0.54	0.81	0.12	0.41	22.0	3.7	5	0.90	
R609022		1.26	0.90	1.16	33.6	0.09	<10	120	0.54	0.69	0.13	0.26	14.65	2.4	5	1.30	
R609023		2.54	0.53	1.03	25.8	0.04	<10	120	0.43	0.44	0.22	0.42	17.15	2.8	6	0.97	
R609024		1.19	0.19	3.44	5.6	<0.02	<10	100	0.87	0.60	1.33	0.56	20.8	8.8	10	1.08	
R609025		0.94	0.28	2.65	3.2	0.62	<10	290	0.61	1.05	0.80	0.27	24.8	3.4	9	1.34	
R609026		1.37	0.18	1.80	2.2	0.31	<10	230	0.34	0.40	0.59	0.15	13.00	1.8	7	0.82	
R609027		1.88	0.27	0.89	31.5	0.03	<10	70	0.35	0.54	0.45	0.81	10.35	2.1	5	0.68	
R609028		1.21	0.29	1.08	13.5	0.21	<10	120	0.33	0.40	0.30	0.28	9.81	2.0	9	0.58	



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 23-SEP-2019  
 Account: MTT

Project: ALOTTA

**CERTIFICATE OF ANALYSIS WH19213286**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
R609013		122.5	2.66	2.38	<0.05	0.21	<0.01	0.014	0.28	4.7	9.9	0.19	153	8.79	0.02	0.07
R609014		4.4	3.07	6.36	0.10	0.18	<0.01	0.010	0.38	14.7	7.4	0.85	563	0.38	0.16	0.47
R609015		192.5	3.05	6.05	0.06	0.32	<0.01	0.045	0.21	9.5	16.9	0.69	214	12.05	0.08	0.24
R609016		275	3.62	4.23	0.06	0.11	<0.01	<0.005	0.48	21.1	9.3	0.54	118	2.89	0.03	0.10
R609017		111.0	1.35	1.49	0.05	0.21	0.01	0.016	0.26	23.0	2.0	0.06	144	16.65	0.02	<0.05
R609018		75.4	3.32	9.91	0.12	0.29	<0.01	0.018	0.53	8.5	15.9	0.94	302	1.10	0.39	0.36
R609019		167.5	3.74	7.60	0.08	0.32	<0.01	0.057	0.21	11.9	8.7	0.52	173	35.8	0.06	0.56
R609020		152.5	3.02	6.75	0.09	0.48	0.01	0.033	0.17	10.8	10.2	0.67	189	14.80	0.08	1.23
R609021		170.0	2.47	4.09	<0.05	0.18	<0.01	0.022	0.24	7.9	9.3	0.28	150	13.85	0.03	0.21
R609022		205	3.02	5.16	0.06	0.31	<0.01	0.038	0.20	7.1	11.3	0.40	127	15.40	0.05	0.33
R609023		176.0	2.52	6.10	0.08	0.28	<0.01	0.024	0.17	8.7	12.0	0.49	140	14.40	0.06	0.52
R609024		138.0	3.83	11.45	0.18	0.16	0.01	0.038	0.19	10.8	17.3	1.04	243	4.25	0.31	0.59
R609025		21.9	3.40	9.78	0.15	0.63	<0.01	0.033	0.52	12.2	22.0	0.98	268	1.88	0.23	0.61
R609026		41.9	2.53	7.13	0.15	0.33	0.01	0.014	0.35	5.6	9.0	0.66	162	166.0	0.16	1.03
R609027		84.9	1.38	2.12	<0.05	0.20	<0.01	0.038	0.28	3.4	6.5	0.31	254	1.71	0.02	<0.05
R609028		44.6	1.72	4.60	0.07	0.53	<0.01	0.020	0.15	4.0	8.8	0.44	184	2.33	0.08	0.31



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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 23-SEP-2019  
 Account: MTT

Project: ALOTTA

**CERTIFICATE OF ANALYSIS WH19213286**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
R609013		2.0	350	13.1	9.0	0.001	0.02	1.31	1.4	1.3	0.2	9.5	<0.01	1.57	4.4	<0.005
R609014		3.5	630	5.7	19.7	<0.001	0.01	0.16	5.1	<0.2	0.9	51.1	<0.01	0.01	7.6	0.248
R609015		2.7	580	10.2	9.8	0.011	0.07	0.36	3.7	2.6	0.2	22.0	<0.01	0.25	3.9	0.022
R609016		2.5	550	5.9	19.0	<0.001	0.12	8.04	3.1	2.1	0.5	35.4	<0.01	0.26	9.1	0.010
R609017		1.7	280	16.6	7.5	0.004	0.01	1.95	1.2	0.8	0.3	6.6	<0.01	0.19	3.9	<0.005
R609018		3.5	610	10.4	33.3	0.001	0.02	0.18	9.5	0.5	0.8	106.5	<0.01	0.02	7.6	0.166
R609019		1.6	520	6.8	11.1	0.018	0.15	1.34	3.6	2.3	1.2	16.1	<0.01	0.09	5.0	0.065
R609020		1.5	890	11.4	10.7	0.005	0.03	0.15	5.1	2.7	0.6	24.2	<0.01	0.22	5.1	0.153
R609021		1.7	330	11.1	8.8	0.004	0.01	1.58	1.5	0.7	0.3	8.1	<0.01	0.39	3.5	0.009
R609022		1.0	390	10.1	7.7	0.002	0.05	0.19	2.0	3.3	0.3	17.1	<0.01	0.29	4.1	0.013
R609023		1.4	460	8.2	5.6	0.009	0.19	0.21	2.8	1.8	0.3	17.0	<0.01	0.17	4.0	0.049
R609024		4.1	600	17.6	12.1	<0.001	0.02	0.23	13.6	1.3	1.3	76.1	<0.01	0.13	10.1	0.226
R609025		2.6	730	5.9	26.9	0.003	0.02	0.11	7.5	<0.2	2.5	84.9	<0.01	0.02	4.4	0.183
R609026		1.1	760	6.7	17.9	0.470	0.06	0.08	6.9	0.9	0.9	61.6	<0.01	0.11	4.5	0.140
R609027		1.9	400	11.4	10.4	0.002	0.01	0.21	1.1	<0.2	0.3	12.2	<0.01	0.14	3.1	<0.005
R609028		1.8	640	12.2	7.5	0.002	0.02	0.18	3.4	0.7	0.5	23.0	<0.01	0.05	4.6	0.058





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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 23-SEP-2019  
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**CERTIFICATE OF ANALYSIS WH19213286**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
R609013		0.17	2.59	4	0.22	6.09	78	5.1	0.231
R609014		0.17	1.25	82	0.16	8.01	66	2.8	<0.001
R609015		0.12	1.86	33	0.11	9.83	45	9.2	0.084
R609016		0.30	2.69	34	0.21	8.05	28	3.3	0.151
R609017		0.11	1.71	5	0.29	6.87	89	5.8	0.271
R609018		0.49	1.61	67	0.36	14.40	62	7.6	0.072
R609019		0.14	2.52	30	0.21	7.86	40	8.6	0.250
R609020		0.09	2.36	46	0.61	6.91	56	12.1	0.004
R609021		0.12	0.97	12	0.17	6.49	56	5.3	0.238
R609022		0.11	3.03	19	0.13	6.03	29	6.3	0.088
R609023		0.08	2.20	27	0.21	7.86	35	5.9	0.060
R609024		0.16	2.25	91	0.38	11.55	62	2.6	0.007
R609025		0.29	1.51	64	0.12	15.00	53	18.7	0.485
R609026		0.21	2.35	58	0.17	17.30	27	8.2	0.388
R609027		0.19	0.71	9	0.12	7.86	53	6.2	0.071
R609028		0.12	1.24	33	0.26	13.55	83	16.2	0.134



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 23-SEP-2019  
Account: MTT

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**CERTIFICATE OF ANALYSIS WH19213286**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

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

**LABORATORY ADDRESSES**

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

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