

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

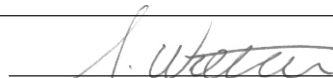
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical sampling

TOTAL COST: \$35,122.06

AUTHOR(S): Stephen Wetherup

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 5739777

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):

PROPERTY NAME: Omineca Property

CLAIM NAME(S) (on which the work was done): 1060387, 514561

COMMODITIES SOUGHT: Cu, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094C 149, 094C 148, 094C 052

MINING DIVISION: Omineca

NTS/BCGS: 094C/05 E and W

LATITUDE: 56 ° 21 ' " LONGITUDE: 125 ° 45 ' " (at centre of work)

OWNER(S):

1) Commander Resources Ltd.

2)

MAILING ADDRESS:

Suite 1100 - 1111 Melville Street

Vancouver, BC, V6E 3V6

OPERATOR(S) [who paid for the work]:

1) Commander Resources Ltd.

2)

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Takla Group, andesite, basalt, augite basalt, Abraham Creek Complex, gabbro, pyroxenite, serpentinite, diorite breccia, quartz monzonite, monzonite dykes, propylitic alteration, Fe-carbonate alteration, alkalic Cu-Au porphyry, late Triassic, early Jurassic, Cretaceous, Hogem Batholith

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 03267, 10436, 14809, 22121, 22860, 23284, 23780, 25856, 27730, 27972, 29914, 34124

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	2 sq km	514561, 1060387	\$17561.03
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	57 samples	514561, 1060387	\$17561.03
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
TOTAL COST:			\$ 35, 122.06

ASSESSMENT REPORT

GEOCHEMICAL SAMPLING AND MAPPING, OMINECA PROPERTY

Omineca Mining Division, British Columbia



COMMANDER RESOURCES LTD.
1100 – 1111 Melville Street
Vancouver, British Columbia
V6E 3V6

LOCATED:
190 km north-northeast of Smithers, BC
Omineca Mining Division
56° 21' North Lat., 125° 45' West Long.
NTS: 094C/05 E and W

August 10th, 2019

Prepared By:



Stephen Wetherup, B.Sc., P.Geol.

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1.0 INTRODUCTION

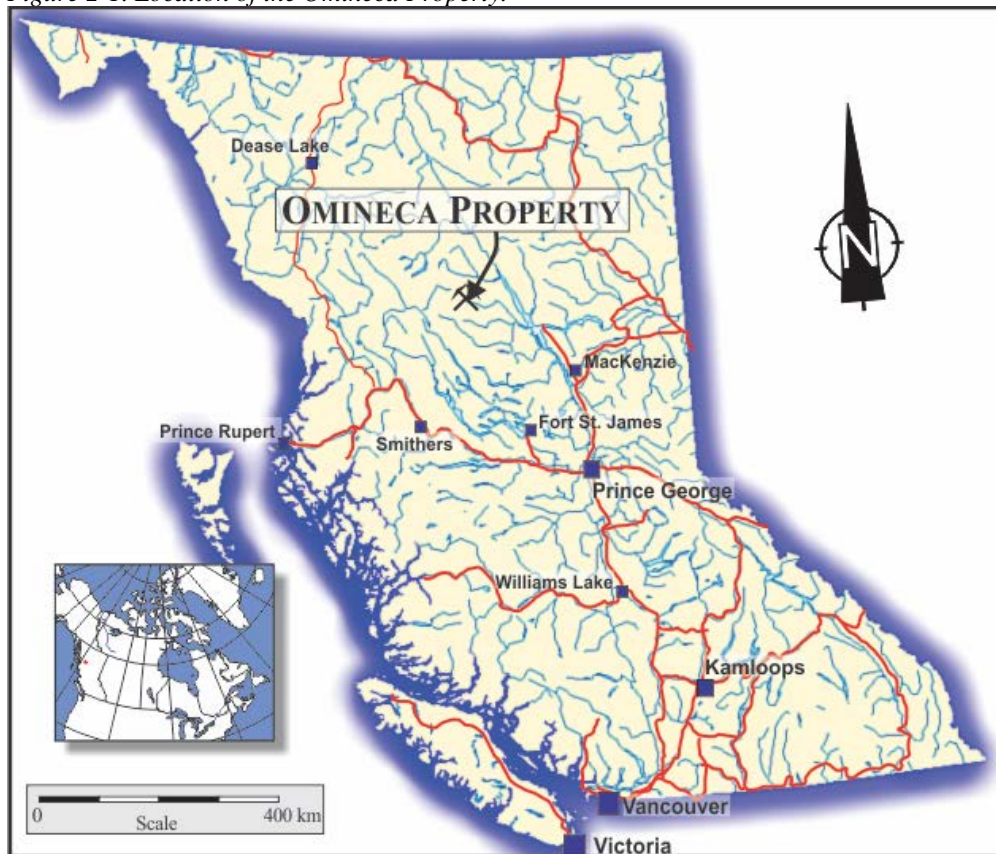
1.1 Introduction

Commander Resources Ltd. (“CMD”) completed a \$35,122.06 CAD exploration program on its Omineca property in the summer of 2018. Work consisted of reconnaissance mapping, geochemical rock and soil sampling. The results of the program and interpretations derived from the data constitute the basis of this Assessment Report.

2.0 LOCATION AND PROPERTY DESCRIPTION

The Omineca property is located in north-central British Columbia ~190 km north-northeast of Smithers and 235 km NNW of Fort St. James, BC (Figure 3-1). Property co-ordinates (centre of claims) are 56°21’ north Latitude and 125°45’ west Longitude on N.T.S. Map No. 094C/05. The UTM (NAD83) co-ordinates are Zone 10N 3295800E, 6248600N.

Figure 2-1. Location of the Omineca Property.





COMMANDER RESOURCES LTD.

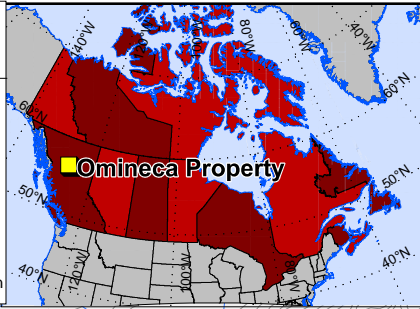
Date:
Aug 10, 2019

Drafted by:
S. Wetherup

Figure:
2-2

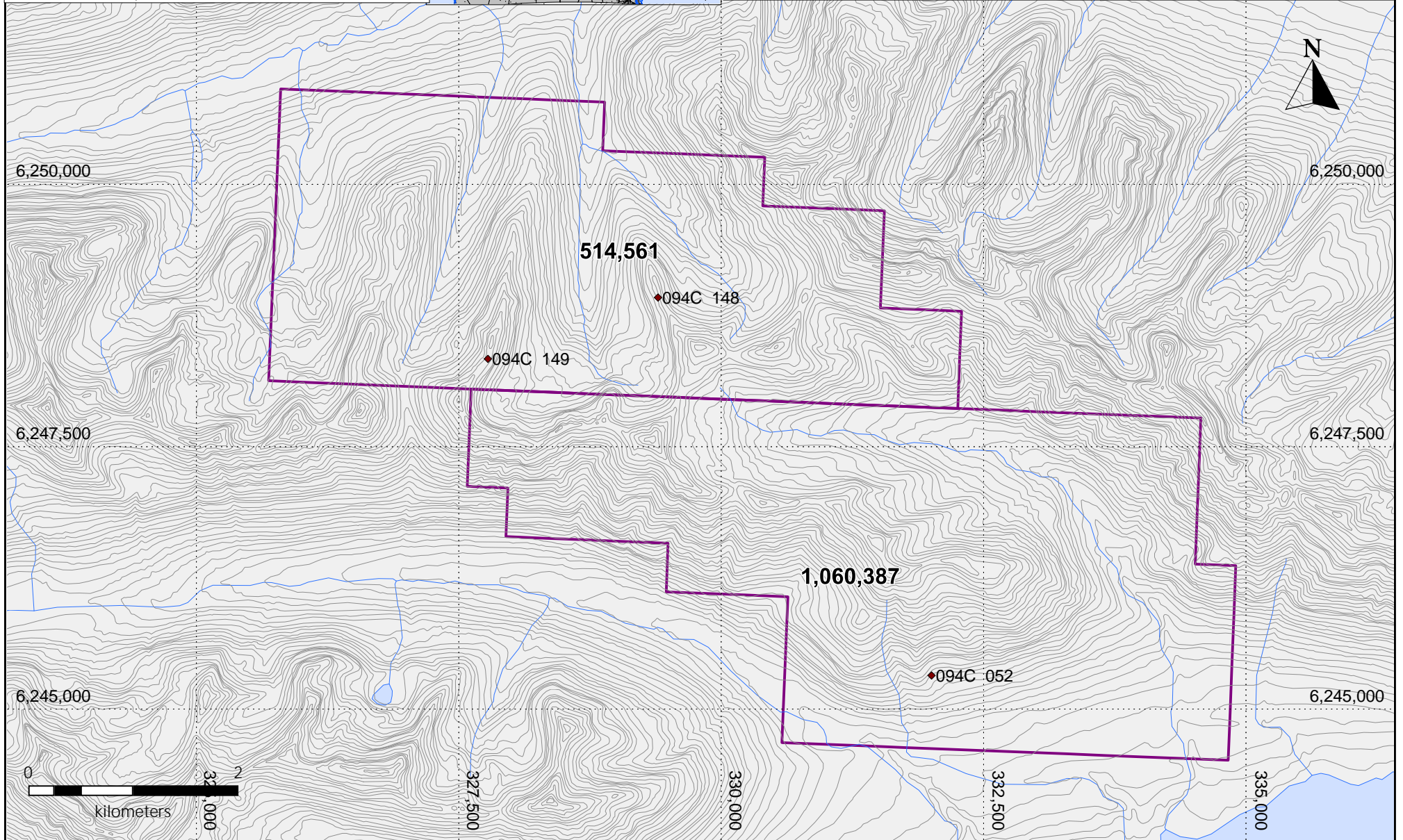
Omineca Property
Claim Map
British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca claims
- Copper MinFile showings
- Elevation contour
- Waterbody
- Watercourse



The Omineca property is comprised of two claim blocks of which Commander Resources (FMC# 116661) is the 100% owner. The property covers an area of 3299 hectares or 33.0 km² (Figure 3-2). Details of the claims downloaded from the Mineral Titles Online (MTO) website are listed below. The claims have not been legally surveyed.

Table 2-1. Mineral tenure summary data for the Omineca Property (July 31, 2019).

Title No.	Claim Name	Issue Date	Good to Date	Owner	Client No.	Area (ha)
514561		6/15/2005	4/25/2021	COMMANDER RESOURCES LTD.	116661	1505.74
1060387	OMINECA 2	5/2/2018	5/2/2019	COMMANDER RESOURCES LTD.	116661	1793.72
					Total (ha)	3299.47

3.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, AND PHYSIOGRAPHY

3.1 Access

The Omineca property is road accessible via a series of forestry roads emanating from Fort St. James or Mackenzie BC. From Mackenzie, travel along Hwy 39 and turn right (west) of the Finlay Forest Service Road which crosses the southern end of Williston Lake. This road continues northerly along the west side of Williston Lake to the Omineca Camp and then the Osilinka camp (~ 200 km from Mackenzie). From Osilinka travel north along the Omineca Mining (Kemess) road for approximately 26 km where a turnoff to the left onto the Aiken Lake Main road and continues another 20 km to the Abraham Creek road. At the 9 km mark on the Abraham Creek road, the road is on the northern edge of the Omineca claims.

The nearest heliport is in Smithers, B.C. approximately 190 km south-southwest of the property.

3.2 Physiography

The Omineca property is situated in a the northern Osilinka Ranges which are part of the Omineca Mountains. Slopes on the property are moderate to steep and topographic relief is ~900 m, ranging from 1080 m along the shores of Tutuzzi Lake to 1910 m at the tallest peak on the property.

3.3 Climate and Vegetation

Seasonal temperatures range from lows of -35°C in winter to +30°C in July and August. January and July mean temperatures are -14°C and 15° to 20°C respectively. The property area receives moderate precipitation with winter snow pack reportedly around 2 to 4 m but varies greatly upon elevation. Access

to the area is possible from May to October but usually the months between June and September are best

The property is forested with stands of balsam, spruce and pine. Timberline is around 1,600 m. Steeper slopes, especially those prone to avalanches, are often covered with very thick mats of low growing and tangled balsam. Terrain above 1,600 m consists of grassy alpine meadows with heather and sparse balsam interspersed with talus on steeper slopes.

3.4 Infrastructure and Local Resources

The nearest major town centre is Smithers, BC (190 km SSW) which is a resource (mining, logging, and ranching) based community with an experienced labour force, regular air service and heliports. Prince George (~400 km SE) is a larger hub from which can supply fuel, groceries, accommodation and heavy construction equipment via a 6-7 hour drive by road.

4.0 EXPLORATION HISTORY

The first recorded work in the district was in 1868 with the discovery of placer gold. Consolidated Mining and Smelting explored the areas surrounding the Hogem Batholith in the 1930's followed by Kennco Explorations in the 1940's. The Lorraine copper deposit to the south of the Omineca property was discovered in the 1970's by Kennco and then subsequently owned by Granby Mining.

In 1953, regional geological mapping in the area sampled a quartz vein on the western portion of the property which returned high Au, Ag, Pb, Zn values and resulted in a single short drill hole to be drilled in the late 1950's, no results were found for this work.

Union Miniere Exploration and Mining Corp (UMEX) conducted regional exploration throughout north-central British Columbia including regional silt surveying and follow up airborne magnetic surveys in the late 1960's and 1970's. UMEX followed up on a Mo anomaly and staked ground SW of the current Omineca property and conducted a soil survey which outlined a 50 ppm Mo in soil anomaly. Rock sampling and mapping results were not encouraging, and the property was abandoned.

In 1981, Mattagami Lake Exploration did a reconnaissance mapping and sampling program on the central portion of the Omineca claims which returned encouraging Cu, Mo and Cu, Pb, Zn Ag Au grab samples and soil and silt samples, including soil samples up to 2400 ppb Au. However they did not complete additional work.

Commander Resources (formerly Major General Resources) acquired the UMEX database in 1988 and identified a Cu-Au stream sediment anomaly from the data which resulted in staking the Abe claims, in 1991, over the current Omineca Property.

Between 1991 and 1994, Swannell Minerals Corp. optioned the property from Commander and conducted geological mapping, prospecting, stream, soil and rock sampling as well as an IP and ground magnetic survey. These programs were able to delineate a large Cu in soil anomaly haloed by a Au in soil anomaly in the central portion of the property which is coincident with moderate to high chargeability (15 to 35 mV/V) zone 700 x 2000 m in areal extent. This work was followed up in 1994 by drilling 10 short drill holes mainly into highly chargeable areas within the soil anomalies. Drilling intersected weakly anomalous Cu and Au (highs of 1649 ppm and 114 ppb respectively) within the diorite and pyroxenite and Cu in soil anomaly. Three holes drilled into the surrounding Takla volcanic host rocks (94-03, 04 and 05) intersected highly anomalous Au over significant intervals such as 180 ppb Au over 24 m and 340 ppb over 23 m.

Table 4-1. Summary of exploration work completed on the Omineca Property and areas directly adjacent.

ARIS No.	Year	Property	Work Summary	Operator
	1950?		1 ddh	
3267	1970		248 soils	Union Miniere Expl. & Mining Corp.
10436	1981	Altabrit	169 soil, 63 silt, 22 rock	Mattagami Lake Exploration Ltd.
14809	1985		28 soil, 39 silt, 13 rock	Suncor
22121	1990	Abe	21 rock, mapping, 37 silt	Swannell Minerals Corp.
22860	1992	Abe	35 rock, 199 grid soils	Swannell Minerals Corp.
23284	1993	Abe	126 soil, 22.5 line-km IP, 13.1 km mag	Swannell Min. Corp.
23780	1994	Abe	10 ddh, 897.9 m	Swannell Minerals Corp.
25856	1998	Abe	76 rock, 40 silt, 658 soil, 27.2 line-km IP, 35.8 line-km mag	Starfield Resources Inc.
27730	2004	Abe	9 rock	Commander Resources Ltd.
27972	2005	Abe	24 rock, 135 soil	Commander Resources Ltd.
29914	2007	Mesilinka	5 ddh, 2054 m	Geoinformatics Exploration Canada
34124	2012	Abe	11 rock, 173 soil	Commander Resources Ltd.

In 1998, Starfield Resources optioned the property from Commander and conducted a more detailed soil survey and expanded the coverage as well as expanding the IP and magnetic coverage on the property. Commander continued to do prospecting and sampling from 2004 to 2005.

In 2007, Geoinformatics Exploration optioned the Omineca and several other properties in the Hogem area and conducted a large-scale data compilation within the region and mapping followed drilling 5 holes on the Omineca property. These holes tested chargeability highs within the moderate Cu in soil anomalies in similar areas that were drilled previously but to greater depth. This work defined a zoned alteration system and metal zonation consistent with an alkalic Cu-Au porphyry system, but again only returned anomalous Cu-Au values.

Commander has completed several small exploration programs since 2007 to maintain the ground.

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

The Omineca property located in the Omineca Mountains of north-central British Columbia, lies within the upper Triassic to lower Jurassic exotic island-arc Quesnel Terrane. The Quesnel Terrane is an approximately 1600 km long belt of mafic to intermediate alkaline to calc-alkaline volcanic rocks and minor sedimentary rocks which have been intruded by a series of coeval calc-alkaline and alkaline intrusive rocks. Many of the significant porphyry Cu-Au-Mo and alkalic Cu-Au deposits within BC are hosted by these coeval intrusive rocks, such as Highland Valley, Gibraltar, Mount Polley, Afton, Copper Mountain, Lorraine, and Mt Milligan.

Within the Omineca region, the Quesnel Terrane is dominated by the Hogem Batholith, a multi-phase largely felsic batholith of alkalic affinity comprised of syenite, monzonite to quartz syenite and quartz monzonite and minor gabbro/pyroxenite and diorite phases. The Hogem Batholith outcrops for more than 100 km along the western boundary of the Quesnel Terrane and is cut by the Pinchi Fault on its western margin. This batholith is intruded into older mafic to intermediate Takla Group volcanic rocks on its eastern contact.

Later, Cretaceous granite and quartz monzonite stocks and plutons cut the Hogem Batholith and Takla rocks locally.

5.2 Property Geology

The Omineca property occurs at the eastern boundary of and at the northern end of the Hogem Batholith and at the southern end of a smaller mafic and alkalic intrusive complex, the Abraham Creek Complex. The central portion of the property is underlain by pyroxenite and diorite breccia (with pyroxenite clasts) belonging to the Abraham Creek Complex. These mafic rocks are subsequently cut by monzonite and feldspar porphyry quartz monzonite dykes. All of these are hosted by Takla Group volcanic mafic to intermediate flows and volcanoclastic rocks. Typical of the Takla Group rocks are pyroxene phenocrysts within both basalt and andesitic flows.

Just west of the claims a Cretaceous quartz monzonite to granodiorite occurs and separates the Abraham Creek Complex and Takla rocks from the Hogem Batholith rocks.



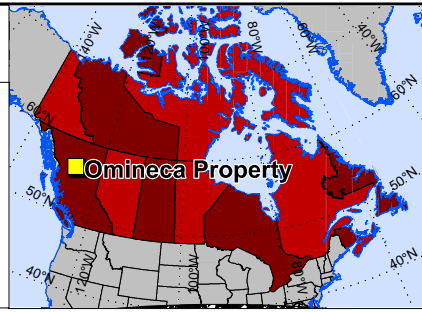
Date:
Apr 27, 2017

Drafted by:
S. Wetherup

Figure:
5-1

Omineca Property
Island Arc Terranes
with Porphyry Cu-Au Deposits
British Columbia, Canada

Lat. Long Projection

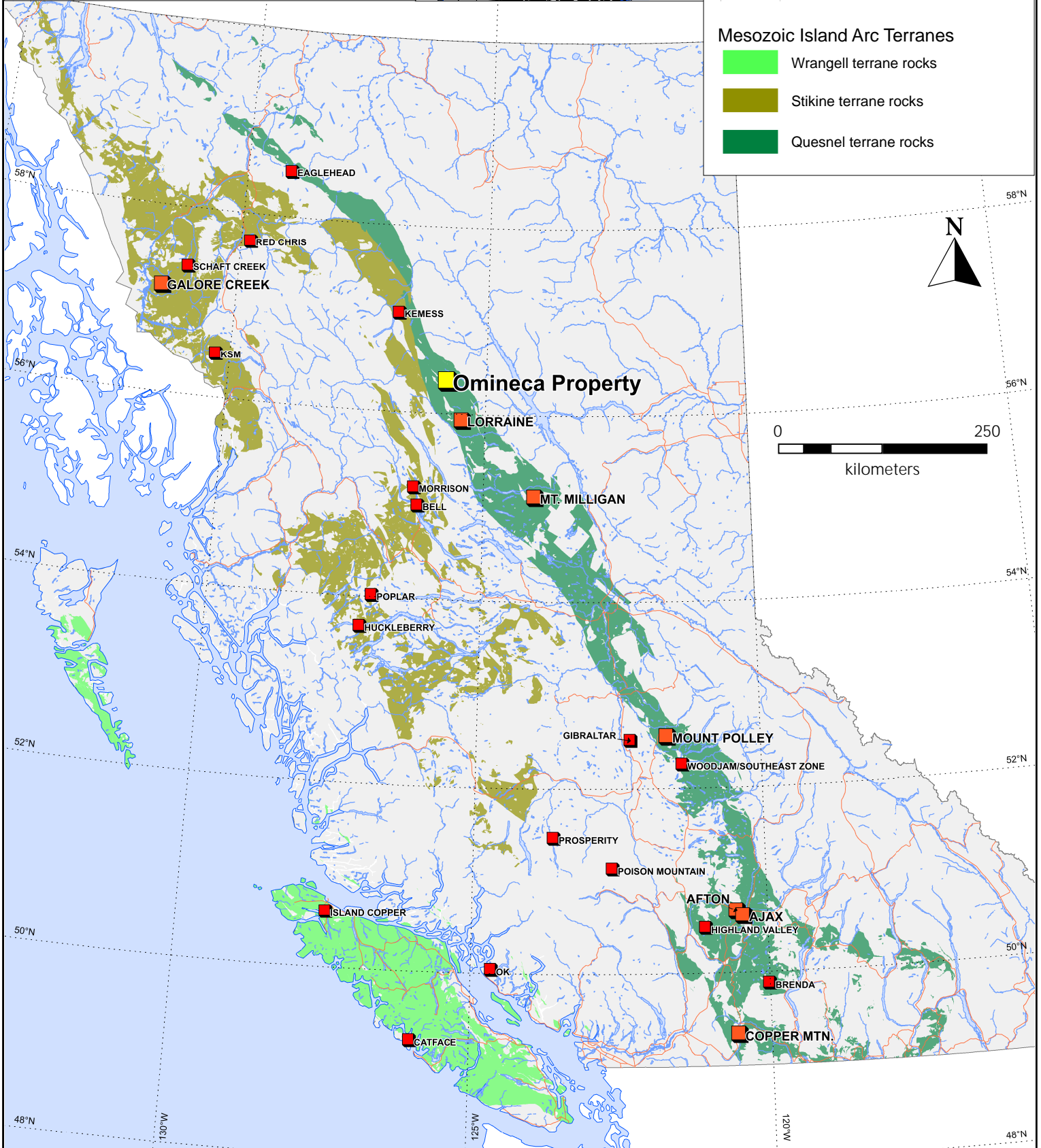


Legend

- Omineca Property Location
- Major calc-alkaline porphyry Cu-Au deposit
- Major alkalic porphyry deposit
- Highway
- Water

Mesozoic Island Arc Terranes

- Wrangell terrane rocks
- Stikine terrane rocks
- Quesnel terrane rocks





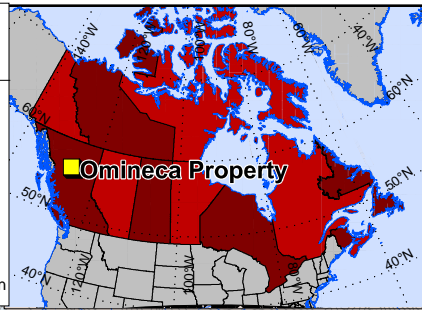
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Aug 10, 2019

Drafted by:
S. Wetherup

Figure:
5-2

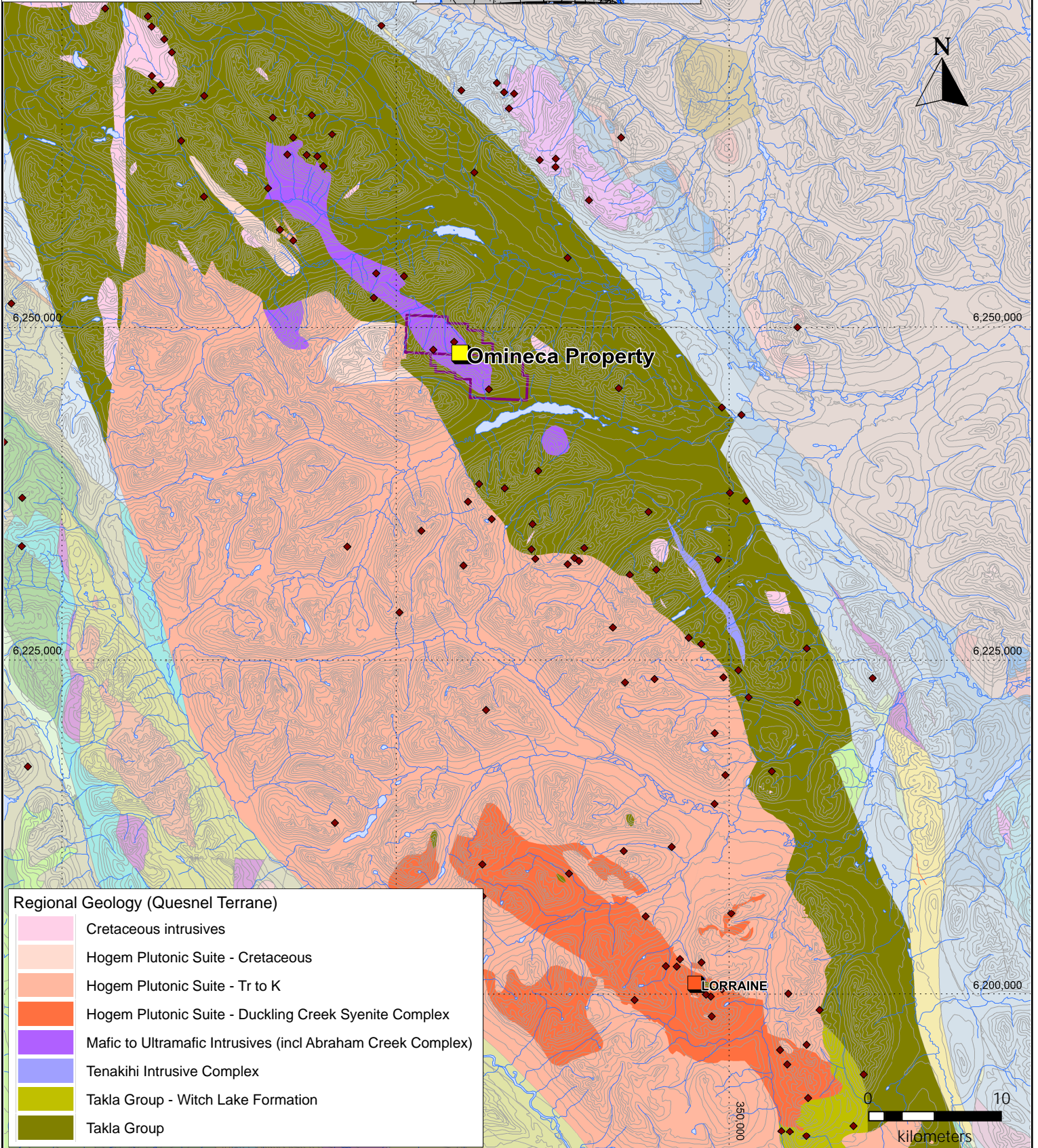
Omineca Property
Island Arc Terranes
with Porphyry Cu-Au Deposits
British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Property Location
- Major alkalic porphyry deposit
- Copper showings
- Elevation contour
- Waterbody
- Watercourse



Regional Geology (Quesnel Terrane)

- Cretaceous intrusives
- Hagem Plutonic Suite - Cretaceous
- Hagem Plutonic Suite - Tr to K
- Hagem Plutonic Suite - Duckling Creek Syenite Complex
- Mafic to Ultramafic Intrusives (incl Abraham Creek Complex)
- Tenakih Intrusive Complex
- Takla Group - Witch Lake Formation
- Takla Group



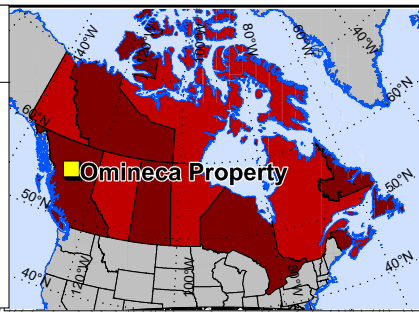
Date:
Aug 10, 2019

Drafted by:
S. Wetherup

Figure:
5-3

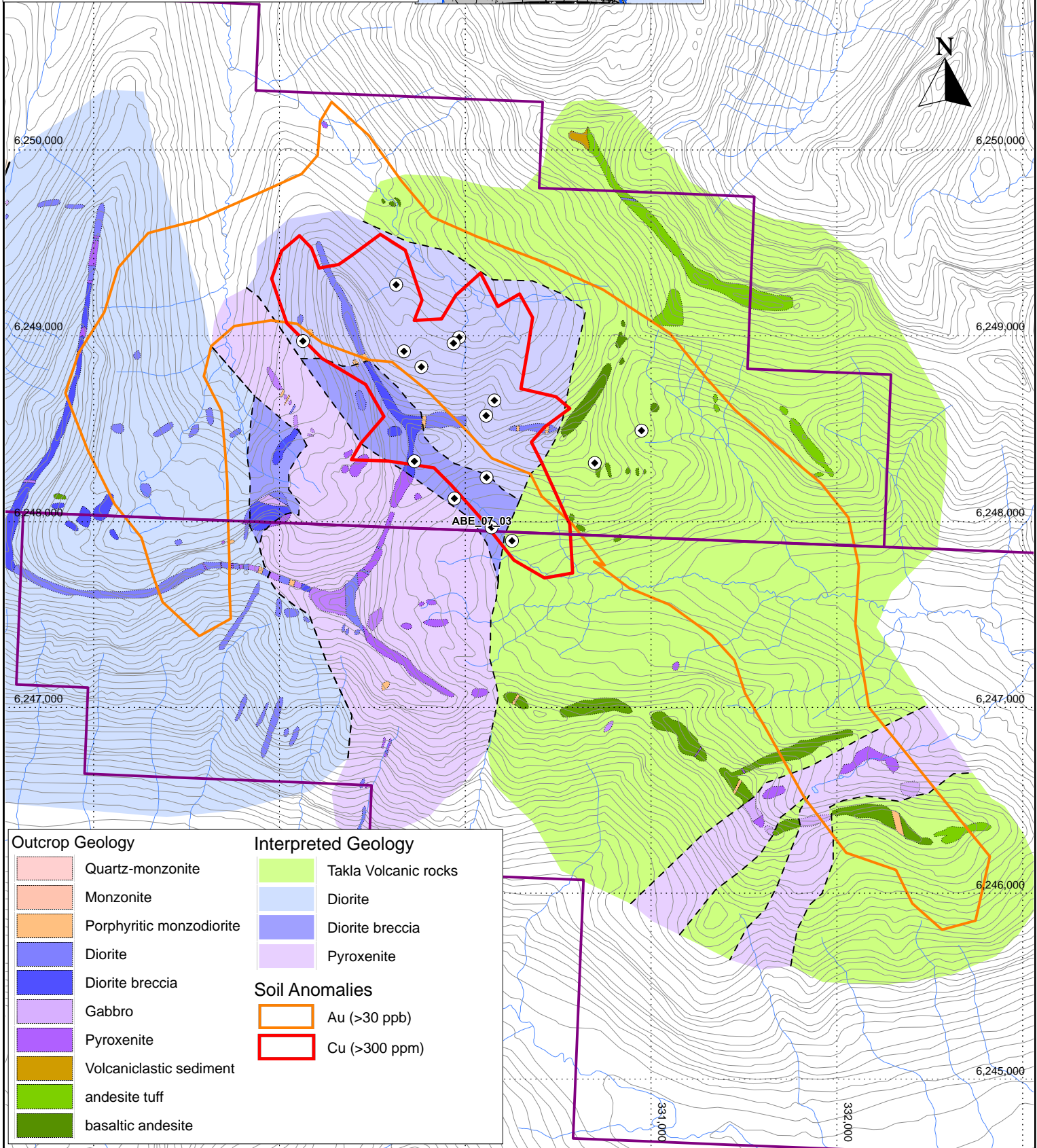
Omineca Property
Property Geology
and Soil Anomalies
British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Claims
- DDH
- Elevation contour
- Watercourse
- Waterbody



Outcrop Geology	Interpreted Geology
Quartz-monzonite	Takla Volcanic rocks
Monzonite	Diorite
Porphyritic monzodiorite	Diorite breccia
Diorite	Pyroxenite
Diorite breccia	
Gabbro	Soil Anomalies
Pyroxenite	Au (>30 ppb)
Volcaniclastic sediment	Cu (>300 ppm)
andesite tuff	
basaltic andesite	

6.0 MINERALIZATION AND ALTERATION

Three main styles of mineralization occur on the property,

- (1) quartz vein Au-Ag-Zn-Pb-Cu mineralization in steep to flat-lying quartz veins with minor sericite alteration haloes and rarely wider than 50 cm wide,
- (2) Quartz-ankerite veins, breccias and alteration zones with minor Au-Ag-Cu mineralization, mainly within the Takla rocks on the eastern side of the claims, and;
- (3) Chalcopyrite-magnetite-chlorite veinlets and stockwork within diorite and Takla basalts, commonly adjacent to monzonite dykes.

Alteration surrounding the polymetallic quartz veins is typically pervasive silica-sericite-pyrite (QSP) haloes which occur over 5 to 10 cm from veins and appear to be the latest mineralization. These mineralized veins appear to have limited strike length (less than 100 m) and are widely spaced and irregularly mineralized.

Fe-carbonate-hematite-calcite alteration occurs along NW striking faults and fault zones along the eastern margin of the Cu soil anomaly and coincides with most of the 5 km long eastern Au in soil anomaly (> 50 ppb).

Chalcopyrite-magnetite-chlorite veinlets occur throughout the diorite and appears to be most intense in proximity to monzonite dykes where chlorite appears to be hydrothermally retrograded after biotite. These zones appear to grade outward into chlorite-epidote-pyrite zones. This style of mineralization and alteration occurs coincident with the Cu in soil anomalies and within the strongest chargeability zones (especially the chlorite-epidote-pyrite). Historical drilling has largely tested the chargeability highs and hence the peripheral alteration presumably surrounding the more “potassic” chalcopyrite-magnetite-chlorite (biotite) zones.

7.0 EXPLORATION

In 2018, two days were spent on the property with two geologists to investigate the origins of the Au and Cu in soil anomalies on the southeastern portion of the property. A total of 57 rock samples were collected during this program.

Copper in rock samples were generally low but 6 samples returned >0.1% Cu from the 57 samples with

highs of 0.55% Cu and 0.4% Cu. Two main styles of alteration associated with anomalous Cu samples (1) propylitically altered rocks within Takla andesite and basalt near the contact with diorite and diorite breccia and generally where calcite-chlorite-magnetite veins occur, and (2) iron-carbonate-sericite-pyrite altered zones, shears and fault breccias which overprint the propylitic alteration. The first style of mineralization appears to be spatially related to a monzonite dyke where calcite-chlorite-magnetite veins are more common around their margins. Surrounding the monzonite dykes chlorite in veins may have been hydrothermal biotite subsequently retrograded to chlorite

Two samples collected returned greater than 1 g/t Au both from zones of iron-carbonate-sericite-pyrite altered zones and from veins with dominantly quartz-pyrite-sericite alteration haloes. Four more samples returned greater than 100 ppb Au two from propylitic cal-chl-mag veined rocks with >0.1% Cu and two from Fe-carbonate altered shears.

Many Fe-carbonate altered zones and veins were sampled and very few contained significant gold. There may be a later silica-sericite-pyrite (QSP) altered veining event within the Fe-carbonate altered zones possibly reactivating the earlier Fe-carbonate altered structures, as the gold bearing veins do not appear to contain carbonate.



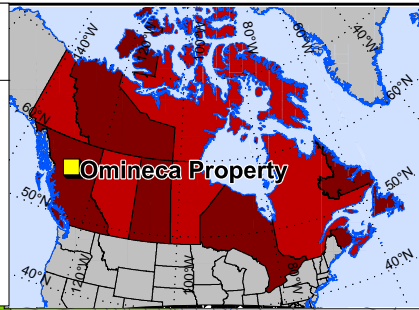
Date:
Aug 10, 2019

Drafted by:
S. Wetherup

Figure:
7-1

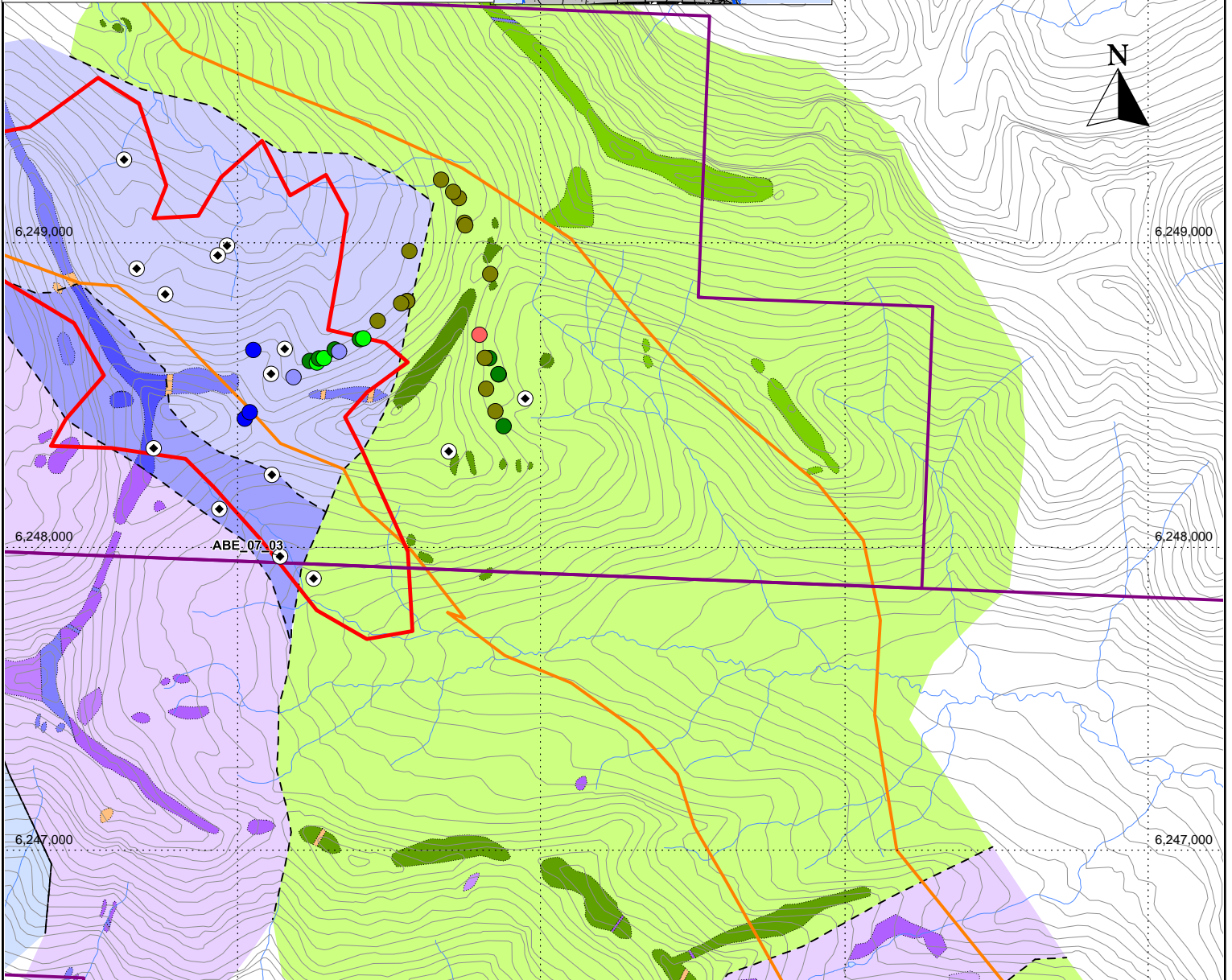
Omineca Property
Property Geology
and 2018 Mapping Points
British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Claims
- DDH
- Elevation contour
- Watercourse
- Waterbody



Outcrop Geology

- Quartz-monzonite
- Monzonite
- Porphyritic monzodiorite
- Diorite
- Diorite breccia
- Gabbro
- Pyroxenite
- Volcaniclastic sediment
- andesite tuff
- basaltic andesite

Interpreted Geology

- Takla Volcanic rocks
- Diorite
- Diorite breccia
- Pyroxenite

Soil Anomalies

- Au (>30 ppb)
- Cu (>300 ppm)

Mapping Station Geology

- fault bx
- qtz fecb vein
- qtz diorite
- qtz cal mt vein
- diorite
- diorite breccia
- andesite
- augite basalt



8.0 CONCLUSIONS

The 2018 work programme sought to determine the origin of the gold and copper in soil anomalies on the southeastern portion of the Omineca Property. In this area, there are two distinct episodes of gold and copper mineralization an earlier copper dominated event within the propylitic altered Takla volcanic rocks and to a lesser extent the diorite near monzonite dykes and a more gold dominated Fe-carbonate alteration zones with local strongly QSP altered quartz-pyrite veins. It is likely that the strength of the gold in soil anomaly is due to the fact there are two possibly three styles of gold mineralization within the same area along the eastern margin of the Abraham Creek Complex. Therefore, the eastern gold soil anomaly is likely a separate gold target area only partially formed as a result of an alkalic Cu-Au system.

The copper associated with the propylitic calcite-chlorite-magnetite veins are related to an alkalic Cu-Au system but are likely peripheral veins of that system. Drilling to date has tested the chargeability highs within moderate (300 to 500 ppm Cu) copper in soils and has not tested moderate chargeability where the strongest soils occur. Additional mapping in the areas to the north along the copper soil anomaly need to be more thoroughly mapped for alteration and alteration trends to determine if there is a drill target in that area.

9.0 EXPLORATION EXPENDITURES

These expenditures cover the costs of field work, assays, interpretation and report writing for Event # 5739777.

Table 9-1. Summary of exploration expenses.

Item	Description	Amt	Units	Cost/Unit	Total
Labour	S. Wetherup (Aug 12 to 15)	4	days	\$ 700.00	\$ 2,800.00
Labour	Rob Cameron (Aug 12-15)	4	days	\$ 700.00	\$ 2,800.00
Labour	Brandon Barendregt (Aug 15)	1	days	\$ 315.00	\$ 315.00
Travel Time	SW, RC (2 days each)	4	days	\$ 700.00	\$ 2,800.00
				.	
Accommodation	Smithers hotel (for 2)	12	nights	\$ 134.23	\$ 1,610.77
Meals	for 2	12	days	\$ 50.00	\$ 600.00
Geochemical Analysis	Acme Labs (rocks)	57	samples	\$ 51.72	\$ 2,947.88
Helicopter	Silverking Helicopters	9.6	hours	\$ 1,650.00	\$ 15,840.00
Truck rental		6	days	\$ 125.00	\$ 750.00
Fuel					\$ 625.45
Miscellaneous	Supplies/sample bags				\$ 532.96
Report writing		3	days	\$ 700.00	\$ 2,100.00
Data preparation and map making		2	days	\$ 700.00	\$ 1,400.00
					\$ 35,122.06

10.0 STATEMENTS OF AUTHORSHIP



Stephen William Wetherup
9253 164th Street
Surrey, British Columbia
Canada, V4N 3C9
Telephone: 604-217-1900
Email: wetherup@shaw.ca

CERTIFICATE OF AUTHOR

I, Stephen Wetherup, do hereby certify that,

1. I am a graduate of the University of Manitoba with a B.Sc. Honours in Geology.
2. I am a member of the Association of Association of Professional Engineers and Geoscientists of British Columbia (APEGBC, #27770). I am a member of the Society of Economic Geologists and the Vancouver Mining Exploration Group.
3. I have been operating a business as a geological consultant under my own name since June, 2001, and under the name of Caracle Creek International Consulting Inc. since March, 2004.
4. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, the omission to disclose which makes the Report misleading.
5. I am responsible for the preparation of the Report titled “Assessment Report: Geochemical Sampling and Mapping, Omineca Property, Omineca Mining Division, British Columbia”, (the “Report”), dated August 10th, 2019.

Dated this 10th Day of August, 2019.



Stephen William Wetherup,
BSc., P.Geo. (APEGBC, #27770)

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APPENDIX 1

Geology Station and Rock Sample Summary Data

Station	Date Created	Year	type	material	Latitude	Longitude	Northing	Easting	Description	cal	chl	ep	mt	py	ser	sil	rocktype	sample
SW18-002	2018-08-12T10:45:39	2018	rock	talus	56.34992	-125.75066	6248423	330026		1	4	2	3	0.5	0	0	chl mt altered diorite	89313
SW18-004	2018-08-12T11:01:56	2018	rock	talus	56.35011	-125.75042	6248443	330042	diorite here mg to fg wirh abundant chl mt and ep cb veinlets with py and trace cpy	1	3	2	3	0.5			chl mt altered diorite	89314
SW18-007	2018-08-12T11:51:47	2018	rock	bedrock	56.35196	-125.75036	6248649	330054		1	3	2	1	1			chl py diorite	89315
SW18-010	2018-08-12T12:42:09	2018	rock	talus	56.35120	-125.74816	6248559	330186	dio bx with ep cal py veins and local cpy in tense chl alt and ep clots with py throughout	1	4	3		1			diorite breccia	89317
SW18-011	2018-08-12T12:52:06	2018	rock	talus	56.35134	-125.74807	6248575	330192	ep py veins in dio bx	1		4		1				89318
SW18-012	2018-08-12T13:02:33	2018	rock	talus	56.35169	-125.74733	6248612	330240	augite basalt mainly some dio. intense py propylite. rare fe cb frags in talus	1	4	4	2				augite basalt	89319
SW18-013	2018-08-12T13:08:34	2018	rock	talus	56.35166	-125.74694	6248608	330264	still prop basalt and locally tuff	2	3	2	3	1			qtz cal mt vein	89320
SW18-014	2018-08-12T13:19:07	2018	rock	talus	56.35178	-125.74684	6248621	330270	aug basalt with cal qtz ep mt cpy veins most veins here are mt ep veins	1	4	3	3	0.5			augite basalt	89321
SW18-015	2018-08-12T13:24:25	2018	rock	talus	56.35180	-125.74659	6248622	330286	qtz mt vein with abundant cpy	2	3			0.5			qtz cal mt vein	89322
SW18-016	2018-08-12T13:35:19	2018	rock	talus	56.35207	-125.74602	6248651	330322	mt qtz cpy vein in basalt	2	4	3	3				augite basalt	89323
SW18-017	2018-08-12T13:44:27	2018	rock	talus	56.35201	-125.74579	6248644	330336	sheeted mt veins in diorite		4	3	3	0.5			diorite breccia	89324
SW18-018	2018-08-12T13:59:22	2018	rock	talus	56.35240	-125.74470	6248685	330405	mt chl cpy veins with cal veinns in chl mt altered augite basalt	2	4	3	4	0.25			augite basalt	89325
SW18-019	2018-08-12T14:11:25	2018	rock	talus	56.35243	-125.74453	6248687	330416	cpy cal qtz chl vein	3	3		3	0.5			qtz cal mt vein	89326
SW18-020	2018-08-12T14:24:51	2018	rock	talus	56.35296	-125.74380	6248745	330463	fecb sil ser py alt andesite with cpy and mo in qtz vein	2				2	3		qsp alt volcanic	89327
SW18-021	2018-08-12T15:04:09	2018	rock	talus	56.35358	-125.74226	6248810	330561	talus boulder of fg qtz diorite with dense mt veinlet stockwork		2		4	0.25			qtz diorite	89328
SW18-022	2018-08-12T15:14:37	2018	rock	talus	56.35357	-125.74228	6248809	330560	gossanous alrered andesite likelt qsp or clay altered								rusty andesite	89329
SW18-023	2018-08-12T15:17:30	2018	rock	talus	56.35351	-125.74259	6248802	330540	fecb silica py ser altered andesite	3				1	3		fecb alt andesite	89330
SW18-024	2018-08-12T15:43:52	2018	rock	talus	56.35506	-125.74226	6248975	330568	fecb py sil ser/clay altered andesite with qtz veining and cpy	3				0.5	2		fecb alt andesite	89331
SW18-025	2018-08-13T10:13:35	2018	rock	talus	56.35721	-125.74073	6249209	330672	fe cb alt andesite with qtz cb veins and diss py haloes poss ser	2	3	1		1			fecb alt andesite	89332
SW18-026	2018-08-13T10:24:51	2018	rock	talus	56.35669	-125.73974	6249149	330730	zone with numerous frags in talus of intense py ep alt andesite		2			10			ep py alt andesite	89333
SW18-027	2018-08-13T10:32:01	2018	rock	talus	56.35686	-125.74005	6249169	330712			4	3		5			ep py alt andesite	89334
SW18-028	2018-08-13T10:45:25	2018	rock	bedrock	56.35596	-125.73939	6249068	330749	fecb alt andesite weakly mag with fecb qtz and py veins. very rusty shear 322.62 with intense fecb qtz py alt	2	3		1				fecb alt andesite	89335
SW18-029	2018-08-13T10:51:43	2018	rock	bedrock	56.35588	-125.73934	6249059	330752	fecb stockwork in andesite	3	3			1			fecb alt andesite	89336
SW18-031	2018-08-13T11:50:41	2018	rock	bedrock	56.35447	-125.73791	6248899	330834	fecb py sil alteted fg and tuff minor mt veinlets and clots remain fine qtz vlts with hematite selveges	3	3		3	1			andesite tuff	89337
SW18-034	2018-08-13T12:23:39	2018	rock	talus	56.35267	-125.73835	6248699	330799							2	3	silica py shear	89338
SW18-035	2018-08-13T12:29:12	2018	rock	talus	56.35241	-125.73809	6248669	330813	106n 12450e. numerous rusty talus frags of silica py altered rocks	2				2	1	4		89339
SW18-036	2018-08-13T13:29:34	2018	rock	talus	56.35199	-125.73778	6248622	330831	numerous talus frags of chl ep mt altered basalt with large white toothy qtz veins locally with py selveges. also very rusty frags with silica clay py altered rock and qtz mt veins locally				2	2	2	3	qsp altered basalt	89340
SW18-037	2018-08-13T13:37:18	2018	rock	talus	56.35199	-125.73802	6248623	330816	all frags of mag and sheared andesite with abundant cb qtz minor py veins and local fecb qsp or clay altered veins with local cpy and mt within	3	3		3	0.5			fecb alt andesite	89341
SW18-038	2018-08-13T14:05:34	2018	rock	bedrock	56.35152	-125.73724	6248568	330862	few fecb altered zones with qtz py veins and cross cutting chl qtz ksp mt veins	2	4	1	3	1	1	3	fecb alt andesite	89342
SW18-039	2018-08-13T14:08:16	2018	rock	bedrock	56.35153	-125.73726	6248569	330861	highly magnetic basalt with fecb altered zones and an adjacent to W fp porphyry mzd								augite basalt	89343
SW18-040	2018-08-13T14:25:07	2018	rock	talus	56.35108	-125.73788	6248521	330820	chl qtz vein stockwork in andesite with 2 to 3 pct py and trace cpy		4	1		2		2	andesite	89344
SW18-042	2018-08-13T14:51:59	2018	rock	talus	56.35043	-125.73734	6248447	330851	py ep altered andesite		2	4		10			andesite	89345

Station	Cert#	Primary Analyses	Other Analyses	Au ppb	Cu ppm	Au ppb	Ag ppm	Al pct	As ppm	Ba ppm	Be ppm	Bi ppm	Ca pct	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe pct
SW18-002	VAN18002326	MA250	FA-Au	3	112.2	3	0.055	7.55	3.6	255	0.5	0.02	6.14	0.14	13.05	29.1	91	0.5	112.2	2.7	1.7	0.7	7.23
SW18-004	VAN18002326	MA250	FA-Au	6	174.6	6	0.049	7.9	2.7	193	0.5	0.02	6.81	0.25	9.61	30.8	79	0.3	174.6	2.4	1.8	0.6	5.96
SW18-007	VAN18002326	MA250	FA-Au	4	116.1	4	0.107	7.81	2.3	456	0.5	0.13	6.57	0.03	9.56	21	94	0.5	116.1	3.2	1.4	0.8	5.88
SW18-010	VAN18002326	MA250	FA-Au	11	87.5	11	0.116	6.54	4.5	233	0.5	0.13	7.03	0.07	7.71	32.8	226	0.6	87.5	2	1.3	0.6	7.61
SW18-011	VAN18002326	MA250	FA-Au	6	44.6	6	0.043	8.28	9.5	299	0.5	0.05	6.68	0.12	7.35	27.1	20	0.5	44.6	2.9	1.4	0.8	8.32
SW18-012	VAN18002326	MA250	FA-Au	8	3.3	8	0.031	7.53	3.1	271	0.5	0.09	6.32	0.07	10.16	21	162	0.6	3.3	2.1	1.3	0.7	6.3
SW18-013	VAN18002326	MA250	FA-Au	88	2482.7	88	1.533	4.86	2.8	391	0.5	0.08	5.62	0.09	5.71	8.4	160	1.5	2482.7	3.3	2.2	0.6	9.3
SW18-014	VAN18002326	MA250	FA-Au	16	58.7	16	0.061	7.69	6.1	1140	0.5	0.16	6.51	0.04	8.99	28.9	153	1	58.7	2.8	1.6	0.9	6.71
SW18-015	VAN18002326	MA250	FA-Au	11	1369.5	11	1.243	3.56	5	60	0.5	0.12	0.29	0.06	1.12	19.1	244	0.4	1369.5	0.7	0.5	0.4	8.73
SW18-016	VAN18002326	MA250	FA-Au	2	32.2	2	0.049	6.78	1.9	703	0.5	0.02	0.64	0.01	2.44	11.4	44	1.5	32.2	1	0.7	0.05	13.48
SW18-017	VAN18002326	MA250	FA-Au	5	26.7	5	0.063	6.43	2.6	409	0.5	0.11	4.93	0.01	6.31	30.5	253	0.4	26.7	2.1	1.5	0.7	14.53
SW18-018	VAN18002326	MA250	FA-Au	34	702.9	34	0.357	7.67	2.9	405	0.5	0.1	2.08	0.05	5.66	11.9	81	0.4	702.9	1.4	1.1	0.4	9.58
SW18-019	VAN18002326	MA250	FA-Au	274	3989.3	274	2.1	2.79	2.5	60	0.5	0.38	5.51	0.26	3.86	17.5	145	0.2	3989.3	1.5	1.1	0.4	5.67
SW18-020	VAN18002326	MA250	FA-Au	67	883	67	2.816	2.91	9.9	65	0.5	2.43	6.62	1.44	4.94	38.6	169	1.3	883	1	0.8	0.3	6.83
SW18-021	VAN18002326	MA250	FA-Au	65	114.9	65	0.17	7.02	0.9	691	0.5	0.16	3.02	0.11	6.92	12.9	5	0.2	114.9	0.9	0.8	0.5	3.69
SW18-022	VAN18002326	MA250	FA-Au	47	72.2	47	0.105	7.3	2.4	85	0.5	0.54	0.26	0.04	6.26	9.1	11	0.6	72.2	2.5	1.7	0.6	4.78
SW18-023	VAN18002326	MA250	FA-Au	70	64.6	70	1.483	2.35	13.9	26	0.5	1.46	3.33	0.35	3.06	35.3	129	1.8	64.6	0.6	0.4	0.3	4.48
SW18-024	VAN18002326	MA250	FA-Au	6	62.1	6	0.056	7.79	3.4	163	0.5	0.06	4.76	0.13	8.62	22.8	84	0.2	62.1	2.1	1.3	0.5	4.59
SW18-025	VAN18002326	MA250	FA-Au	43	165	43	0.15	4.82	2	125	0.5	0.1	5.62	0.08	4.82	70.4	932	0.5	165	1.7	1	0.6	9.01
SW18-026	VAN18002326	MA250	FA-Au	458	1231.6	458	2.589	5.84	98	41	0.5	1.23	7.05	0.15	10.71	686.4	65	0.05	1231.6	1.5	0.8	1	21
SW18-027	VAN18002326	MA250	FA-Au	163	709	163	1.968	6.94	72.8	63	0.5	0.38	4.42	0.01	23.14	305.5	103	0.05	709	3.6	2.2	1.7	12.57
SW18-028	VAN18002326	MA250	FA-Au	13	101.7	13	0.236	7.74	5.1	1129	0.5	0.49	3.73	0.09	9.33	32.7	170	0.9	101.7	2.8	1.5	0.8	7.55
SW18-029	VAN18002326	MA250	FA-Au	65	496.5	65	1.166	4.79	2.6	90	0.5	0.55	4.75	0.09	4.14	101.8	550	0.7	496.5	1.8	1.1	0.4	9.23
SW18-031	VAN18002326	MA250	FA-Au	15	32.3	15	0.086	7.23	3.7	325	0.5	0.07	5.14	0.07	8.44	22	86	0.6	32.3	2.4	1.5	0.6	6.41
SW18-034	VAN18002326	MA250	FA-Au	63	41.3	63	0.577	5.71	34.4	111	0.5	0.76	2.18	0.18	4.45	82.5	59	0.3	41.3	1.2	0.6	0.4	9.89
SW18-035	VAN18002326	MA250	FA-Au	1198	487.5	1198	1.188	0.61	14.9	203	0.5	4.38	0.03	0.02	1.99	5.9	76	0.2	487.5	0.2	0.1	0.2	9.65
SW18-036	VAN18002326	MA250	FA-Au	295	51.3	295	0.889	1.35	9.4	52	0.5	10.89	0.04	0.05	4.07	1.5	413	0.5	51.3	0.9	0.4	0.6	7.8
SW18-037	VAN18002326	MA250	FA-Au	56	926.4	56	0.219	1.91	2.3	19	0.5	0.25	10.55	0.14	1.34	33	796	0.2	926.4	1	0.8	0.3	10.63
SW18-038	VAN18002326	MA250	FA-Au	2352	16.8	2352	6.757	5.73	3.4	46	0.5	0.47	0.43	0.24	17.51	9.3	6	1.2	16.8	1.6	1	0.7	3.57
SW18-039	VAN18002326	MA250	FA-Au	22	50.3	22	0.353	6.23	18.7	357	0.5	0.13	6.77	0.25	2.94	30.1	244	1.2	50.3	1.2	0.9	0.5	8.91
SW18-040	VAN18002326	MA250	FA-Au	10	224.3	10	0.255	6.59	11.8	107	0.5	0.12	3.89	0.06	3.24	70	171	0.4	224.3	2.4	1.7	0.3	6.74
SW18-042	VAN18002326	MA250	FA-Au	24	178.3	24	0.851	7.37	5.7	58	0.5	0.46	4.52	0.08	6.03	27	120	0.9	178.3	3.2	1.9	0.6	8.56

Station	Ga ppm	Gd ppm	Hf ppm	Ho ppm	In ppm	K pct	La ppm	Li ppm	Lu ppm	Mg pct	Mn ppm	Mo ppm	Na pct	Nb ppm	Nd ppm	Ni ppm	P pct	Pb ppm	Pr ppm	Rb ppm	Re ppm	S pct	Sb ppm	Sc ppm
SW18-002	16.12	2.9	0.66	0.6	0.02	1.15	6	8.7	0.2	3.63	915	0.31	2.345	0.84	8.6	95.4	0.339	2.95	2	25.5	0.001	0.02	0.19	22.9
SW18-004	15.54	2.2	0.7	0.6	0.03	0.95	3.9	7.2	0.2	3.62	976	0.77	2.605	0.88	6.3	87.9	0.165	4.45	1.5	16.4	0.008	0.02	0.28	22
SW18-007	13.7	3.2	0.66	0.6	0.06	1.64	2.6	9.3	0.2	4.03	900	0.7	2.187	0.71	9.1	72.7	0.15	1.86	1.8	45.3	0.001	0.8	0.28	30
SW18-010	12.79	2.2	0.95	0.5	0.09	0.96	3	8.3	0.2	5.01	1623	0.83	2.213	0.68	6.5	125.8	0.123	1.88	1.3	23.4	0.009	0.15	1.25	32.5
SW18-011	15.88	3	0.84	0.6	0.1	1.08	3.1	7.2	0.2	3.42	1492	0.39	2.265	0.55	5.9	20	0.148	2.83	1.1	20.9	0.001	0.07	1.13	34.5
SW18-012	14.17	2.2	0.78	0.5	0.07	1.15	4.5	9.5	0.2	4.44	1553	0.22	2.487	0.96	7.2	104.5	0.125	1.48	1.5	31.6	0.001	0.02	1.62	28.2
SW18-013	10.96	2.9	0.59	0.8	0.08	1.68	2.2	21.6	0.3	3.26	1588	0.13	0.493	0.58	5.4	77.9	0.081	1	0.9	50.1	0.001	0.02	1.52	20.1
SW18-014	14.2	2.1	0.7	0.6	0.04	2.03	3.2	7.5	0.3	4.18	1621	0.31	1.911	0.65	6.9	106.9	0.121	3.11	1.4	46.8	0.001	0.02	2.41	29.4
SW18-015	8.42	0.6	0.42	0.2	0.03	0.3	0.3	29.4	0.05	3.23	1008	0.15	0.031	0.23	1.7	78	0.072	0.77	0.3	8.4	0.002	0.05	2.47	12
SW18-016	13.73	0.6	0.64	0.2	0.04	1.87	0.9	21.1	0.05	3.45	1221	0.24	2.289	0.76	2.1	48.1	0.106	0.63	0.4	20.6	0.001	0.02	0.59	20.5
SW18-017	13.25	2.1	0.81	0.5	0.06	2.12	2.6	10.5	0.2	4.44	1761	0.16	1.474	0.5	5.7	171.3	0.037	1.29	1	58.3	0.002	0.02	1.78	28.9
SW18-018	15.41	1.4	0.78	0.4	0.03	1.6	2.2	18.6	0.1	3.05	1289	0.33	2.921	0.75	3.5	61.7	0.128	1.04	0.8	19.5	0.003	0.05	0.83	17.3
SW18-019	7.61	1.3	0.24	0.4	0.08	0.28	1.7	19.1	0.05	2.76	1275	0.1	0.025	0.13	2.8	71	0.04	1.23	0.6	7.2	0.001	0.23	0.84	11.7
SW18-020	7.72	1	0.27	0.2	0.08	2.35	2.3	6.3	0.05	2.83	1849	0.55	0.032	0.26	3.3	59.5	0.041	7.77	0.8	72.4	0.001	2.48	1.76	16.7
SW18-021	11.44	1.5	0.76	0.2	0.07	2.52	2.7	2.9	0.1	0.93	885	0.27	4.507	0.86	5.3	7.3	0.095	4.34	1	31.1	0.002	0.1	0.45	9.5
SW18-022	11.86	2.3	1.17	0.6	0.02	7.69	2	2.9	0.2	0.96	158	1.78	0.806	1.8	6	5.6	0.093	10.68	1.2	116.7	0.002	1.16	0.37	9.1
SW18-023	4.39	0.7	0.16	0.1	0.05	1.29	1.2	3.1	0.05	0.4	1477	1.05	0.026	0.11	2.4	43.6	0.028	15.84	0.5	43.8	0.001	1.84	1.42	11.2
SW18-024	12.2	2.1	0.76	0.5	0.09	0.89	3.1	8.1	0.2	3.48	1186	0.35	3.903	0.8	6.4	55.7	0.084	2.52	1.3	20.6	0.001	0.02	0.93	34.2
SW18-025	17.7	1.7	0.56	0.4	0.16	0.04	2.3	31.6	0.2	7.48	1205	0.025	0.017	0.27	5	201.2	0.062	3.63	0.8	1.3	0.006	0.7	0.67	45.7
SW18-026	15.98	1.6	0.82	0.3	0.04	0.39	4.2	3.7	0.2	1.18	442	4.52	0.513	0.77	7.7	460.5	0.062	21.98	1.9	8.6	0.128	10	4.01	18.1
SW18-027	13.18	4.2	1	0.8	0.05	0.49	8.7	6.2	0.3	2.62	646	0.23	2.712	1.95	18.1	531.4	0.087	5.47	4.4	10	0.101	4.88	1.45	24.8
SW18-028	15.18	3.1	0.47	0.5	0.14	1.3	4.9	9.5	0.2	3.82	2136	0.46	2.295	0.49	6.5	106.1	0.111	7.35	1.4	27.3	0.001	0.46	1.43	27.2
SW18-029	10.56	1.5	0.37	0.4	0.11	0.26	2.4	24.2	0.2	7.31	2219	6.2	0.051	0.15	3.6	951.9	0.033	12.63	0.6	9	0.044	1.67	0.71	44.8
SW18-031	14.35	1.7	0.98	0.5	0.07	1.55	3.6	7.4	0.2	2.87	931	0.29	2.775	0.69	5.6	65.1	0.073	2.79	1.2	45.2	0.001	0.11	0.99	23
SW18-034	7.81	1.3	0.31	0.2	0.01	3.26	1.6	10.8	0.05	1.94	643	0.93	0.884	0.82	3.3	258.2	0.313	15.03	0.7	46.6	0.004	5.94	1.28	11.7
SW18-035	2.15	0.2	0.11	0.05	0.11	0.44	0.8	3.6	0.05	0.05	56	1.6	0.015	0.1	1.6	6.5	0.02	43.5	0.4	10.1	0.001	0.34	1.47	3
SW18-036	2.55	0.4	0.37	0.2	0.15	2.17	1.9	2.7	0.05	0.1	80	4.47	0.029	0.18	2.8	4	0.006	9.48	0.6	38.3	0.003	1.72	1.11	10.4
SW18-037	6.96	0.8	0.39	0.3	0.1	0.03	0.4	7.3	0.05	6.07	2722	0.07	0.089	0.11	1.5	140.7	0.008	1.81	0.3	0.6	0.001	0.14	1.46	48.2
SW18-038	10.93	2.1	1.96	0.3	0.03	1.64	7.3	2.2	0.2	0.21	537	1.74	2.568	2.99	10.1	5.5	0.082	11.53	2.5	52	0.001	1.17	0.62	4.9
SW18-039	11.89	1.5	0.19	0.3	0.12	1.93	1.1	11	0.1	3.12	8891	0.71	1.244	0.06	3.1	97.2	0.002	24.46	0.6	58.2	0.006	0.74	1.22	28.1
SW18-040	12.95	1.5	0.65	0.5	0.02	1.69	1.3	7.7	0.2	5.16	1232	0.37	2.572	0.92	3.2	66.5	0.072	3.11	0.5	33.5	0.018	1.73	1.02	36.1
SW18-042	15.09	2.6	0.74	0.6	0.08	2.22	2.6	7	0.3	3.88	1384	0.55	1.9	0.2	5.9	61.7	0.017	5.24	1.1	36.8	0.013	3.75	2.71	21.6

Station	Se ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Te ppm	Th ppm	Ti pct	Ti ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
SW18-002	0.15	2.4	0.4	422	0.05	0.5	0.93	1.6	0.388	0.17	0.2	0.3	478	0.2	14.3	1.5	48.4	12.3
SW18-004	0.15	2	0.5	411	0.05	0.4	1.08	0.8	0.388	0.12	0.3	0.3	329	0.1	14.5	1.5	73.3	14.7
SW18-007	0.15	2.8	1.1	410	0.05	0.5	0.81	1	0.46	0.2	0.2	0.6	276	0.7	15.6	1.7	32.3	10.7
SW18-010	0.15	1.9	0.5	349	0.05	0.4	1.43	0.8	0.402	0.11	0.2	0.5	281	0.9	12.4	1.2	67.1	22.4
SW18-011	0.4	1.9	0.8	668	0.05	0.4	0.6	0.3	0.644	0.15	0.2	0.2	473	1	14.6	1.2	91.9	15.1
SW18-012	0.15	2.1	0.5	358	0.05	0.4	0.88	0.6	0.436	0.16	0.2	0.5	297	1.2	11.6	1.1	75.5	20.5
SW18-013	0.15	2.6	0.5	145	0.05	0.5	0.84	0.5	0.268	0.31	0.3	0.4	188	1.6	21.5	1.9	43.1	15.9
SW18-014	0.15	2.2	0.6	516	0.05	0.5	0.96	0.5	0.44	0.21	0.2	0.5	307	1.1	14.6	1.7	65.9	19.4
SW18-015	0.15	0.7	0.3	9	0.05	0.2	0.36	0.3	0.183	0.025	0.05	0.2	149	1	4.5	0.4	80.7	10.4
SW18-016	0.15	0.5	0.6	53	0.05	0.1	0.16	0.2	0.404	0.28	0.1	0.3	308	2	3.8	0.5	45.9	15.6
SW18-017	0.15	1.4	0.5	294	0.05	0.3	0.8	0.7	0.368	0.31	0.2	0.4	457	1.2	12.3	1.3	61.8	21.3
SW18-018	0.15	0.9	0.4	188	0.05	0.2	0.42	0.6	0.358	0.15	0.2	0.4	270	1.1	7.7	1.1	58.3	24.7
SW18-019	0.5	1.1	0.1	38	0.05	0.2	0.74	0.3	0.12	0.025	0.1	0.2	117	0.7	9	0.8	48.6	5.7
SW18-020	1.4	1	0.3	141	0.05	0.2	1.65	0.3	0.128	0.44	0.05	0.2	135	8	6.1	0.6	89.5	7.8
SW18-021	0.15	1.4	0.4	204	0.05	0.2	0.47	0.6	0.243	0.33	0.1	0.2	172	9	5.2	0.9	61.3	24.2
SW18-022	1.2	2	1	121	0.1	0.4	1.22	0.3	0.352	0.68	0.3	0.5	185	4.5	13.1	1.3	17.6	33.7
SW18-023	0.9	0.9	0.3	32	0.05	0.05	1.2	0.1	0.076	0.3	0.05	0.05	79	1.1	3.9	0.5	55.6	4.4
SW18-024	0.15	1.9	0.5	415	0.05	0.3	0.67	0.6	0.484	0.12	0.2	0.4	354	2.4	13.1	1.3	47.5	13.2
SW18-025	1.2	1.2	0.6	142	0.05	0.3	1.68	0.3	0.294	0.025	0.2	0.2	394	0.5	8.4	1	47.1	12
SW18-026	28.3	1.7	0.5	610	0.05	0.3	2.62	0.4	0.32	0.1	0.1	0.6	323	0.3	8.1	0.9	15.6	19.4
SW18-027	14.6	4.5	1.1	356	0.1	0.7	1.07	0.7	0.427	0.1	0.3	1.2	200	0.4	20.5	2	37.7	26.5
SW18-028	0.15	1.9	0.7	141	0.05	0.4	0.79	0.2	0.419	0.19	0.2	0.3	306	1	12.9	1.3	107.5	8.7
SW18-029	1	1.3	0.5	98	0.05	0.2	2.66	0.05	0.291	0.06	0.2	0.2	284	0.7	8.9	1.2	128.9	6.7
SW18-031	0.15	1.6	0.5	443	0.05	0.4	0.74	1	0.311	0.2	0.2	0.6	309	0.8	13.2	1.2	31.8	25.8
SW18-034	4.7	1	0.3	262	0.05	0.2	1.07	0.8	0.132	0.27	0.1	0.2	150	0.6	6	0.6	139.9	6.8
SW18-035	6.5	0.4	0.4	15	0.05	0.05	10.47	0.05	0.044	0.07	0.05	0.3	52	6.7	1.3	0.2	21.3	3.5
SW18-036	3.9	0.7	1.1	31	0.05	0.1	11.16	0.05	0.182	0.35	0.05	0.5	74	3.4	4.5	0.5	20.8	10.4
SW18-037	0.8	0.7	0.5	112	0.05	0.1	1.62	0.05	0.244	0.025	0.05	0.05	204	0.8	5.8	0.6	64.9	5.8
SW18-038	0.8	2.2	0.4	211	0.2	0.3	4.49	2.5	0.143	0.3	0.2	1.5	72	8.3	9	0.9	31.1	51.9
SW18-039	0.6	1.2	0.6	185	0.05	0.2	0.96	0.05	0.233	0.31	0.05	0.1	257	2.7	6.3	0.7	275.4	4.4
SW18-040	5.4	1	0.5	268	0.05	0.3	0.94	0.6	0.249	0.16	0.2	0.2	272	0.3	13.4	1.5	50.7	14.4
SW18-042	3.4	2.2	0.8	489	0.05	0.5	1.71	0.3	0.322	0.23	0.3	0.4	471	0.7	16.4	1.7	83.9	17.3

Station	Date Created	Year	type	material	Latitude	Longitude	Northing	Easting	Description	cal	chl	ep	mt	py	ser	sil	rocktype	sample
SW18-043	2018-08-13T15:00:01	2018	rock	talus	56.35000	-125.73687	6248398	330878	dio and basalt along this slope with a rusty zone of ep py alteration 5 to 10 py diss. also significant actinolite with the py ep. this slope is 60 to 70 pct py act ep altered basalt		3	4		7			augite basalt	89346
1357651	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33783	-125.71622	6246994	332100										1357651
1357652	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33773	-125.71666	6246983	332073										1357652
1357653	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33761	-125.71705	6246971	332048										1357653
1357654	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33754	-125.71762	6246964	332013										1357654
1357655	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33701	-125.72027	6246912	331846										1357655
1357656	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33668	-125.72184	6246879	331748										1357656
1357657	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33609	-125.72408	6246819	331607										1357657
1357658	2018-11-09T00:22:48Z	2018	rock	bedrock	56.33625	-125.72473	6246839	331567										1357658
SW18-047	2018-08-15T11:16:31	2018	rock	bedrock	56.33256	-125.70812	6246388	332577	narrow fecb zone in andesitic rx abt 2m wide	2	3			0.5	1		fecb alt andesite	1357951
SW18-048	2018-08-15T11:30:24	2018	rock	bedrock	56.33162	-125.70851	6246284	332549	fecb zone with qtz py fecb vein oriented 038.78	2	3	3		0.5	4		qtz fecb vein	1357952
SW18-049	2018-08-15T11:43:00	2018	rock	bedrock	56.33156	-125.70953	6246280	332486	sheared andesite with fecb and minor qtz veining oriented 152.78. a magnetic chl altered andesite with qtz fecb veinlets sampled		3		3	0.5	2		andesite	1357953
SW18-050	2018-08-15T11:58:12	2018	rock	bedrock	56.33176	-125.70987	6246303	332466	intense ep chl mt altered basalt minor qtz veinlets with hematite likely fecb related		3	4					augite basalt	1357954
SW18-051	2018-08-15T12:11:13	2018	rock	bedrock	56.33189	-125.71071	6246320	332415	magnetic basalt chl ep altered with cross cutting fecb and fecb qtz veins		4	2	2	0.5			fecb alt augite basalt	1357955
SW18-056	2018-08-15T13:19:50	2018	rock	bedrock	56.33319	-125.71270	6246469	332298	chl mt ep altered basalt with overprinting fecb alt and veining minor qtz cal veining. zone oriented 335.60 dip slope which is the dominant orientation for these zones	1	4	3	3	0.25	1		augite basalt	1357956
SW18-057	2018-08-15T13:47:58	2018	rock	bedrock	56.33297	-125.71369	6246447	332235	fecb altered basalt with qtz chl vein	1	3		3	0.5	1	2	fecb alt augite basalt	1357957
SW18-058	2018-08-15T13:58:59	2018	rock	bedrock	56.33289	-125.71432	6246439	332196	sample of boxwork limonitic ft bx within mt fecb altered basalt	2	2		2	2	1	3	fault bx	1357958
SW18-059	2018-08-15T14:01:04	2018	rock	bedrock	56.33289	-125.71427	6246440	332199	basalt adjacent to fecb alt fault bx trace cpy along fractures and qtz fecb veins	3	3		3	0.25	2	2	fecb alt augite basalt	1357959
SW18-060	2018-08-15T14:17:09	2018	rock	bedrock	56.33300	-125.71454	6246452	332183	qtz vein bx zone with main veins oriented 279.15 with ser sil cpy haloes and qtz fecb minor py cpy in veins within chl mt altered basalt. looks to emanate from an fecb zone and ft bx 137.70	2	3		3	0.25	2	2	fecb alt augite basalt	1357960
SW18-061	2018-08-15T14:33:39	2018	rock	bedrock	56.33292	-125.71457	6246443	332181	andesite tuff magnetic with fecb sil alteration and fecb qtz stwk. trace cpy	2	3		3	0.25	2	2	andesite tuff	1357961
SW18-062	2018-08-15T14:43:30	2018	rock	bedrock	56.33298	-125.71456	6246450	332182		3	3		1	0.25	2	1	fault bx	1357962
SW18-063	2018-08-15T14:54:03	2018	rock	bedrock	56.33289	-125.71484	6246441	332164	since last samples cts fecb altered rock. qtz fecb py cpy stwks and fault bx zones	3	3			0.25	1	2	fecb alt augite basalt	1357963
SW18-064	2018-08-15T15:05:19	2018	rock	bedrock	56.33290	-125.71530	6246443	332135	continued fecb qtz stwk and altered basalt and andesite with more intense sheared zones every 3 to 5 m. 150.65	3	3			0.5	2	1	fecb alt andesite	1357964
SW18-065	2018-08-15T15:12:35	2018	rock	bedrock	56.33290	-125.71548	6246443	332124	intense fecb sil altered zone with tr cpy and py. shearing and alt does not cont after saddle. shear 135.66	3	2			0.25	2	3	fecb alt andesite	1357965
SW18-067	2018-08-15T15:37:50	2018	rock	bedrock	56.33248	-125.71765	6246401	331988	mostly chl ep minor mt altwd basalt and adnesite tuff since last stn. here a 2 to 3 m zone of intense chl ep py alteration . in general since beginning of traverse the propylitic alt has been very weak but within the last 25 m it has increased with more ep and ep veining and here with strong chl ep py		3	3			5	1	andesite tuff	1357966

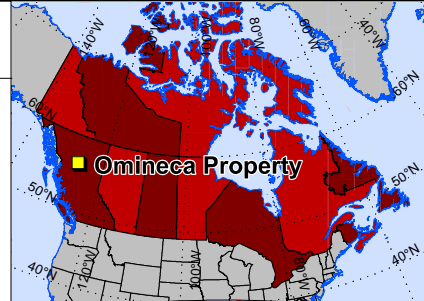
Station	Cert#	Primary Analyses	Other Analyses	Au ppb	Cu ppm	Au ppb	Ag ppm	Al pct	As ppm	Ba ppm	Be ppm	Bi ppm	Ca pct	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe pct
SW18-043	VAN18002326	MA250	FA-Au	25	482.5	25	0.422	6.35	23.4	62	0.5	0.42	2.75	0.04	2.85	99	368	0.6	482.5	1.4	0.8	0.3	11.7
1357651	VAN18002326	MA250	FA-Au	5	59.2	5	0.137	8.15	19.1	393	0.5	0.12	3.1	0.12	13.35	67	85	0.5	59.2	3.2	1.6	1	6.29
1357652	VAN18002326	MA250	FA-Au	31	28.2	31	0.141	7.67	10	64	0.5	0.19	3.32	0.1	12.58	76.3	70	0.7	28.2	2.5	1.4	0.7	9.11
1357653	VAN18002326	MA250	FA-Au	31	112.2	31	0.44	6.91	15.8	30	0.5	0.51	0.49	0.01	4.18	34.7	336	0.6	112.2	1.6	0.9	0.3	7.15
1357654	VAN18002326	MA250	FA-Au	14	18.7	14	0.152	7.21	13.6	222	0.5	0.2	2.1	0.13	9.98	39.9	305	0.8	18.7	2.1	1.4	0.7	6.98
1357655	VAN18002326	MA250	FA-Au	52	359.6	52	0.366	6.78	5.9	447	0.5	0.12	0.68	0.03	2.27	11.6	44	0.6	359.6	0.4	0.4	0.2	11.6
1357656	VAN18002326	MA250	FA-Au	6	16.6	6	0.067	2.16	0.8	33	0.5	0.02	20.46	0.16	7.39	7.8	98	0.5	16.6	2.3	1	0.9	3.82
1357657	VAN18002326	MA250	FA-Au	3	127.8	3	0.199	8.3	8.1	212	0.5	0.19	8.59	0.11	12.91	24	51	0.3	127.8	3.5	2.1	0.9	6.35
1357658	VAN18002326	MA250	FA-Au	4	742.5	4	0.652	8.01	3.6	3913	0.5	0.09	5.19	0.18	11.23	20.8	95	0.7	742.5	2.5	1.4	0.5	10.19
SW18-047	VAN18002326	MA250	FA-Au	38	181.2	38	0.473	3.57	17.4	97	0.5	0.08	14.02	0.22	4.77	40.7	615	1.2	181.2	1.7	0.8	0.3	4.86
SW18-048	VAN18002326	MA250	FA-Au	3	5.2	3	0.071	0.64	2.3	37	0.5	0.02	11.94	0.69	1.73	9.7	68	0.6	5.2	0.6	0.4	0.2	2.46
SW18-049	VAN18002326	MA250	FA-Au	3	156.1	3	0.108	7.81	1.5	515	0.5	0.02	4.42	0.08	5.95	42.1	255	1.2	156.1	1.8	1.1	0.5	6.42
SW18-050	VAN18002326	MA250	FA-Au	11	131.1	11	0.247	5.68	8.3	721	0.5	0.02	6.4	0.21	7.19	47.3	387	1.4	131.1	2.3	1.3	0.7	7.45
SW18-051	VAN18002326	MA250	FA-Au	6	131	6	0.115	6.38	4.1	192	0.5	0.02	9.49	0.25	8.55	15.9	211	2.1	131	1.8	1.2	0.6	6.08
SW18-056	VAN18002326	MA250	FA-Au	11	193.6	11	0.272	2.23	4.3	53	0.5	0.02	12.83	0.4	1.93	48.6	882	0.3	193.6	1.4	0.7	0.4	6.29
SW18-057	VAN18002326	MA250	FA-Au	3	20.9	3	0.383	4.61	2.3	261	0.5	0.02	5.65	0.69	3.63	38.4	485	1	20.9	1.4	1	0.5	6.61
SW18-058	VAN18002326	MA250	FA-Au	6	278.7	6	0.351	2.42	2.7	195	0.5	0.02	1.43	0.54	8.44	20.8	103	0.4	278.7	2.3	1	0.9	4.63
SW18-059	VAN18002326	MA250	FA-Au	5	286	5	0.361	4.88	3	286	0.5	0.02	6.23	0.27	11.15	34.7	238	0.7	286	2.6	1.3	0.8	6.28
SW18-060	VAN18002326	MA250	FA-Au	10	5573.6	10	10.539	2.35	1.2	571	0.5	4.06	0.59	0.45	3.44	22.9	167	1.1	5573.6	0.4	0.3	0.1	4.71
SW18-061	VAN18002326	MA250	FA-Au	5	95.3	5	0.25	4.95	4.6	309	0.5	0.04	4.93	0.32	5.22	44.2	520	1.5	95.3	1.8	1.6	0.5	7.43
SW18-062	VAN18002326	MA250	FA-Au	11	3156.1	11	4.27	5.07	1.6	300	0.5	0.49	1.08	0.49	3.92	23.1	326	3.8	3156.1	1.1	0.7	0.5	4.64
SW18-063	VAN18002326	MA250	FA-Au	19	19.9	19	0.321	5.93	3.2	578	0.5	0.1	6.84	1.03	3.1	42.5	210	6	19.9	1.5	0.8	0.5	5.39
SW18-064	VAN18002326	MA250	FA-Au	4	24.6	4	0.098	6.19	5.6	165	0.5	0.02	5.56	0.48	3.87	22.2	279	2.5	24.6	1.4	0.9	0.7	5.21
SW18-065	VAN18002326	MA250	FA-Au	9	247	9	0.282	7.85	5.6	87	0.5	0.02	5.69	0.64	9.07	16.9	44	3.8	247	1.9	1.3	0.8	2.6
SW18-067	VAN18002326	MA250	FA-Au	15	145.5	15	0.327	7.88	8.9	687	0.5	0.1	3.15	0.1	12.16	30.5	218	0.5	145.5	2.4	1.5	0.8	6.1

Station	Ga ppm	Gd ppm	Hf ppm	Ho ppm	In ppm	K pct	La ppm	Li ppm	Lu ppm	Mg pct	Mn ppm	Mo ppm	Na pct	Nb ppm	Nd ppm	Ni ppm	P pct	Pb ppm	Pr ppm	Rb ppm	Re ppm	S pct	Sb ppm	Sc ppm
SW18-043	13.17	1.1	0.55	0.3	0.07	1.05	1.1	17.5	0.1	5.79	978	0.69	1.919	0.73	2.7	601.2	0.065	3.41	0.5	22.7	0.036	7.27	1.27	36.8
1357651	18.43	3.3	0.93	0.6	0.07	1.32	6.6	9.9	0.2	2.93	1191	0.21	3.718	0.95	8.1	57.2	0.108	3.65	1.7	20.1	0.001	1.04	1.07	25
1357652	19.89	2.6	0.88	0.6	0.05	1.42	5.5	10.1	0.2	2.94	1062	0.15	2.778	0.86	8.6	62.5	0.112	5.73	1.8	15.6	0.001	5.31	2.09	21.6
1357653	15.07	1.4	0.46	0.4	0.02	1.33	1.3	15.6	0.1	3.33	323	1.2	3.306	0.51	3.4	232.9	0.081	4.07	0.7	17.9	0.001	4.69	0.72	31.8
1357654	14.94	2.2	0.85	0.5	0.02	1.74	3.8	15	0.2	4.65	275	0.31	2.447	0.48	5.7	250	0.092	6.64	1.5	32.9	0.001	6.12	0.86	33.5
1357655	13.86	0.5	0.68	0.05	0.02	1.78	1.1	3.2	0.05	1.09	144	3.66	3.036	0.83	1.7	22.8	0.064	3.79	0.3	43.5	0.016	1.2	0.55	14
1357656	5.25	2.4	0.23	0.4	0.04	0.14	3.5	15	0.05	3.12	3063	0.13	0.013	0.08	5.6	30.6	0.035	2.6	1	4.4	0.001	0.5	0.3	14
1357657	18.4	3.8	0.83	0.6	0.07	0.86	5.7	8.9	0.3	3.01	1368	0.5	3.13	0.98	8.9	41.4	0.11	6.37	1.8	20.5	0.001	0.07	2.04	29
1357658	18.84	3.8	0.43	0.6	0.04	3.69	4.5	47.5	0.2	4.76	1875	0.42	0.834	0.48	8.5	43.9	0.187	2.61	1.6	30.5	0.001	0.15	1.03	31.9
SW18-047	8.36	1.2	0.57	0.2	0.04	1.04	1.9	9.7	0.1	2.46	1189	0.26	0.02	0.33	3.4	403.5	0.063	6.46	0.6	27.9	0.001	0.02	1.36	21.4
SW18-048	1.63	0.9	0.05	0.2	0.03	0.26	0.7	6.8	0.05	1.44	1568	0.62	0.01	0.04	2	93.2	0.01	3.45	0.3	9.3	0.001	0.02	0.88	5.5
SW18-049	16.34	1.6	0.85	0.3	0.07	1.65	2.5	17.7	0.1	4.06	820	0.21	2.253	0.43	4.8	165.9	0.089	15.24	0.9	34.8	0.001	0.02	0.57	24.8
SW18-050	13.33	2.6	0.94	0.5	0.04	0.8	3.1	18.4	0.2	6.09	1266	0.25	1.665	0.33	5.3	120.1	0.11	5.68	1.1	22.8	0.005	0.02	1.12	37.7
SW18-051	12.79	2	0.6	0.4	0.05	1.42	3.5	10.2	0.1	1.61	1068	0.2	1.95	0.57	6.2	103.1	0.056	3.64	1.2	43.9	0.001	0.02	2.05	31.9
SW18-056	8.84	1.3	0.17	0.3	0.07	0.04	0.7	21.7	0.05	5.17	1379	0.48	0.052	0.14	2.1	252	0.014	5.55	0.3	2.1	0.003	0.02	1.22	59.5
SW18-057	13.92	1.7	0.34	0.3	0.07	1.32	1.6	18.7	0.1	5.84	2574	1.1	0.051	0.08	3.1	199.6	0.092	5.09	0.6	41.3	0.001	0.02	0.38	41.9
SW18-058	6.2	2.3	0.24	0.4	0.07	0.81	3.9	23.4	0.1	1.75	2123	0.77	0.311	0.18	6.4	49.3	0.049	3.59	1.4	15.8	0.001	0.02	1.35	16.8
SW18-059	11.62	3.3	0.52	0.4	0.1	1.84	4.6	20.9	0.2	3.71	1712	0.47	0.923	0.35	8.4	85.1	0.093	7.38	1.6	36.2	0.001	0.02	1.85	30.6
SW18-060	5.77	0.5	0.15	0.1	0.03	0.44	1.4	37.7	0.05	1.71	714	0.21	0.014	0.13	2.2	120.8	0.013	81.4	0.5	15.4	0.001	0.36	1.7	17.7
SW18-061	12.05	1.8	0.73	0.4	0.04	0.59	2.1	25.7	0.1	5.94	1357	0.13	1.087	0.31	4.4	176.1	0.093	10.41	0.8	18.8	0.001	0.02	2.25	39.3
SW18-062	12.6	1.5	0.34	0.2	0.02	1.73	1.4	21.3	0.05	1.59	345	0.49	0.386	0.29	3.2	123.7	0.107	13.93	0.8	56.4	0.001	0.26	2.32	18.6
SW18-063	13.36	3.6	0.62	0.2	0.12	2.26	1.2	7.3	0.1	3.28	1289	0.17	0.753	0.53	2.9	162.7	0.052	7.53	0.5	70	0.001	0.56	1.66	27
SW18-064	14.34	1.6	0.54	0.3	0.07	0.9	1.2	16	0.1	4.65	1377	0.025	2.096	0.59	4.5	174.4	0.056	11.51	0.6	29.3	0.001	0.05	2.13	29.9
SW18-065	13	1.7	1.08	0.4	0.06	1.91	4.9	1.5	0.2	2.41	1025	0.12	3.547	1	6	19.7	0.101	8.79	1.2	65.4	0.001	0.07	1.77	18.1
SW18-067	17.41	2.8	1.06	0.6	0.1	1.02	5.3	8.9	0.2	4.6	1787	0.67	3.323	0.77	8.1	121	0.085	4.52	1.7	24.2	0.001	1	1.45	35.1

Station	Se ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Te ppm	Th ppm	Ti pct	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm
SW18-043	11.1	0.9	0.5	181	0.05	0.2	0.64	0.4	0.41	0.12	0.1	0.3	215	0.8	8.6	1	51.6	12.8
1357651	0.8	2.3	0.7	367	0.05	0.4	0.59	0.7	0.467	0.16	0.2	0.6	322	0.6	15.3	1.6	69.2	28.1
1357652	0.4	2.3	0.6	404	0.05	0.3	0.35	0.6	0.471	0.2	0.2	0.4	317	0.5	11.7	1.2	66.2	21.5
1357653	7	1.1	0.3	194	0.05	0.2	1.48	0.4	0.318	0.16	0.1	0.3	351	0.6	7.8	0.8	43.3	13.7
1357654	10.1	2.1	0.6	210	0.05	0.3	2.12	0.8	0.304	0.27	0.2	0.5	281	0.8	13	1.4	35.6	27.8
1357655	2.5	0.5	0.3	214	0.05	0.05	0.45	0.6	0.285	0.22	0.05	0.4	183	0.4	2.3	0.3	23.1	21.2
1357656	0.15	1.9	0.1	197	0.05	0.3	2.67	0.2	0.045	0.025	0.2	0.1	93	0.6	12.2	1	32.4	6.8
1357657	0.15	1.9	0.4	713	0.05	0.5	0.9	0.8	0.445	0.11	0.3	0.5	308	1.5	17.7	1.8	72.4	22.5
1357658	0.15	2.6	0.7	123	0.05	0.4	0.75	0.3	0.48	0.19	0.3	0.3	423	3.1	13.2	1.3	95.8	10.9
SW18-047	0.15	1.1	0.2	27	0.05	0.2	1.42	0.3	0.201	0.24	0.1	0.2	146	1.3	7.5	0.7	64.1	11.4
SW18-048	0.15	0.6	0.05	96	0.05	0.05	1.56	0.05	0.013	0.06	0.05	0.05	49	1.5	3.7	0.2	44.1	2.3
SW18-049	0.15	1.6	0.4	333	0.05	0.3	0.52	0.4	0.208	0.32	0.1	0.4	242	3.2	8.4	1	58.3	21.6
SW18-050	0.15	1.6	0.4	323	0.05	0.3	1.46	0.6	0.364	0.17	0.2	0.4	285	0.6	12.1	1.3	79.4	24.9
SW18-051	0.15	1.7	0.5	107	0.05	0.3	1.13	0.6	0.344	0.32	0.2	0.4	293	1.9	9.6	0.9	80.7	15.7
SW18-056	0.15	0.8	0.3	139	0.05	0.2	1.73	0.1	0.228	0.025	0.1	0.05	174	0.9	6.8	0.5	94.3	8.4
SW18-057	0.15	1.2	0.3	188	0.05	0.2	1.37	0.4	0.102	0.23	0.1	0.3	254	3.5	7.7	0.9	158.5	9.6
SW18-058	0.15	2.1	0.2	57	0.05	0.3	0.39	0.3	0.128	0.16	0.1	0.3	126	1.2	12.2	0.8	56.9	8.1
SW18-059	0.15	2.4	0.6	217	0.05	0.4	1.12	0.6	0.279	0.34	0.2	0.6	221	3.5	12.3	1.1	96.6	19.1
SW18-060	0.15	0.4	0.2	35	0.05	0.05	0.6	0.1	0.085	0.12	0.05	0.1	105	1.1	2.1	0.3	116.6	4.3
SW18-061	0.15	1.6	0.4	191	0.05	0.2	0.88	0.5	0.318	0.14	0.2	0.3	249	0.8	9.3	1	124.8	17.5
SW18-062	0.15	1.5	0.4	22	0.05	0.2	0.33	0.4	0.244	0.44	0.05	0.2	200	4.8	5	0.5	103.7	10.8
SW18-063	0.15	1.4	0.4	128	0.05	0.2	0.96	0.4	0.285	0.63	0.05	0.3	246	1.8	5.8	0.8	189.9	15
SW18-064	0.15	1.4	1.2	127	0.05	0.3	0.91	0.7	0.335	0.26	0.2	0.4	246	0.9	7.2	0.7	141.4	16.6
SW18-065	0.15	1.6	0.6	160	0.05	0.3	0.69	0.8	0.35	0.49	0.2	0.7	190	1.9	9.4	1.3	31.9	38.8
SW18-067	1.3	2	1.1	277	0.05	0.3	1.16	1.2	0.403	0.17	0.3	0.6	290	0.3	12.3	1.5	81.9	36.7

APPENDIX 2

Mapping Stations and Geochemical Maps



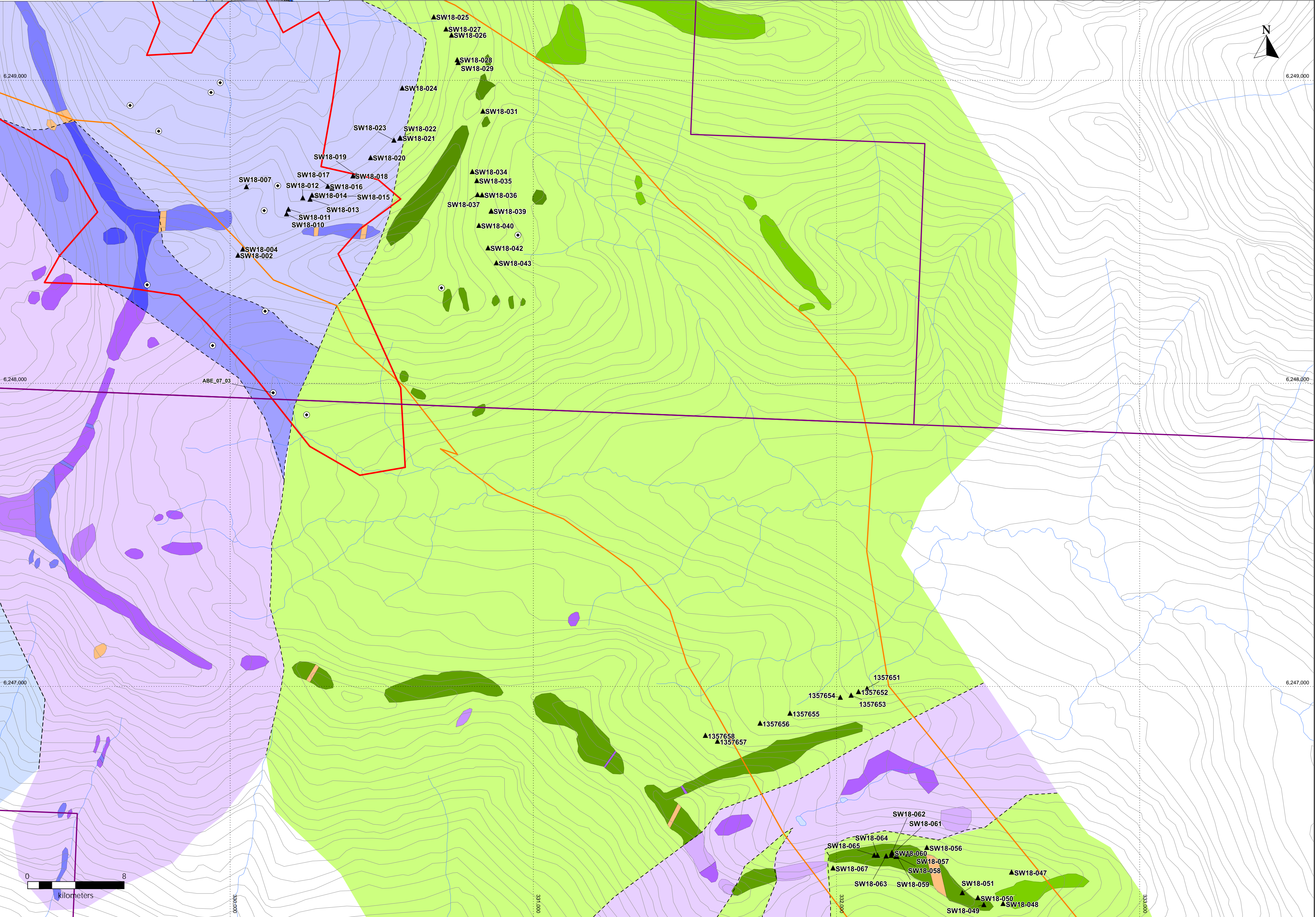
- Legend**
- Omineca claims
 - Elevation contour
 - Waterbody
 - Watercourse
 - DDH

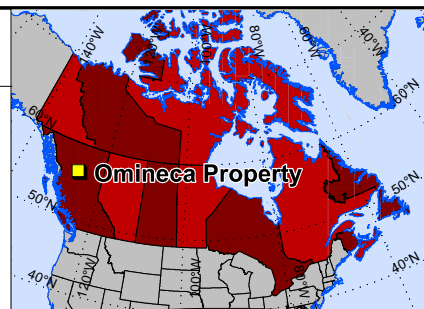
- Mapping Stations**
- Station (Station number)

- Soil Anomalies**
- Au >50 ppb
 - Cu >300 ppm

- Interpreted Geology**
- Diorite
 - Diorite breccia
 - Pyroxenite
 - Takla volcanic rocks

- Outcrop Geology**
- Quartz-monzonite
 - Monzonite
 - Porphyritic monzodiorite
 - Diorite
 - Diorite breccia
 - Gabbro
 - Pyroxenite
 - Volcaniclastic sediment
 - andesite tuff
 - basaltic andesite





Legend

- Omineca claims
- Elevation contour
- Waterbody
- Watercourse
- DDH

Mapping Stations

- Rock sample (Cu in ppm)

Soil Anomalies

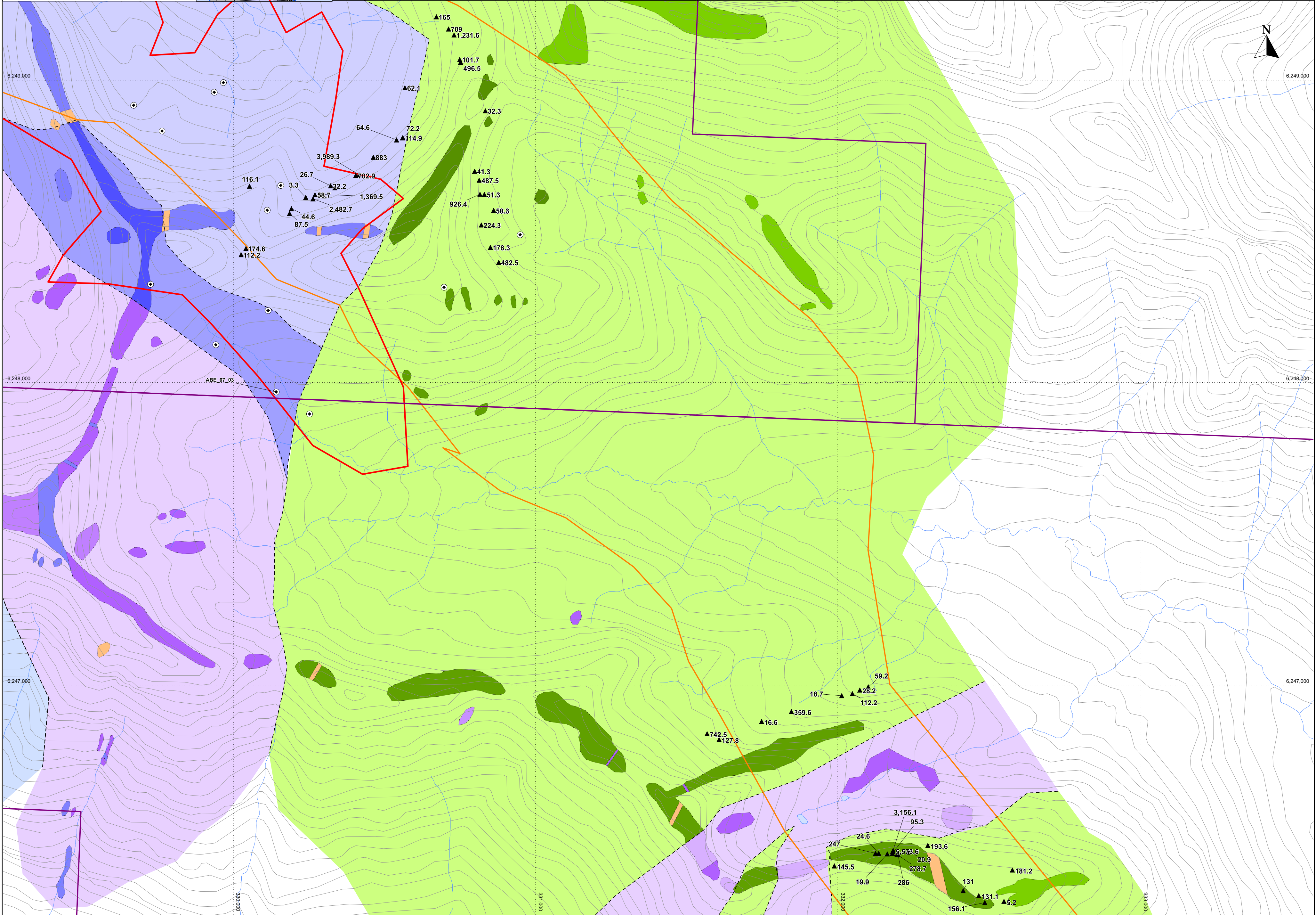
- Au >50 ppb
- Cu >300 ppm

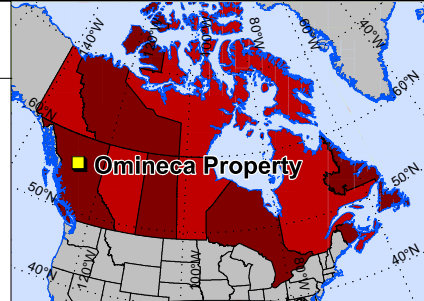
Interpreted Geology

- Diorite
- Diorite breccia
- Pyroxenite
- Takla volcanic rocks

Outcrop Geology

- Quartz-monzonite
- Monzonite
- Porphyritic monzodiorite
- Diorite
- Diorite breccia
- Gabbro
- Pyroxenite
- Volcaniclastic sediment
- andesite tuff
- basaltic andesite





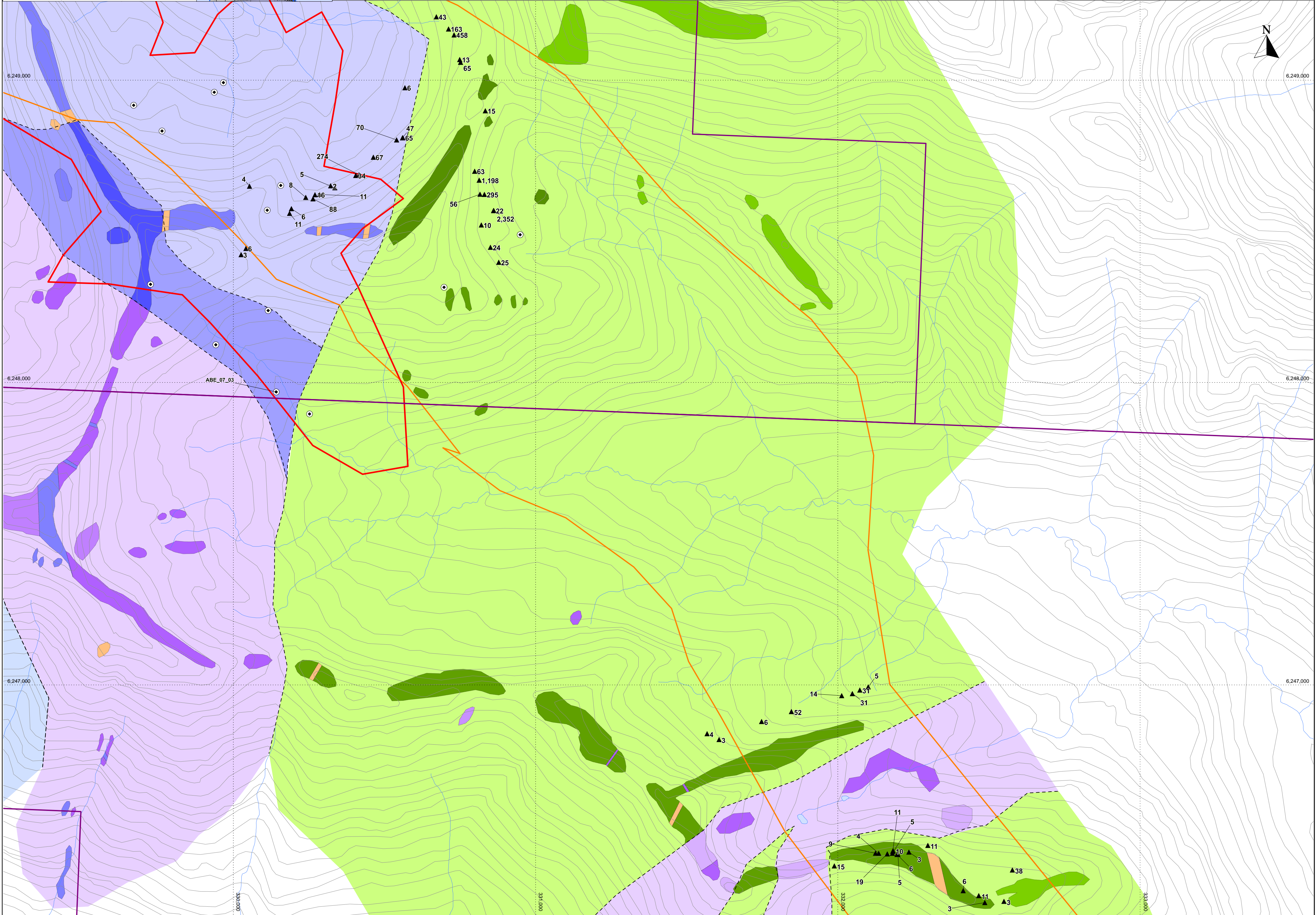
- Legend**
- Omineca claims
 - Elevation contour
 - Waterbody
 - Watercourse
 - DDH

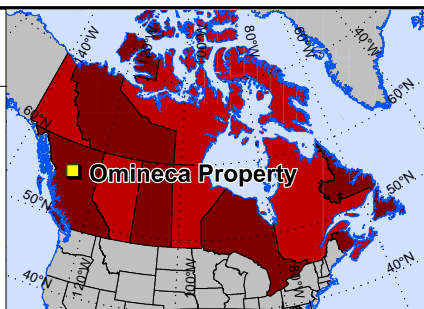
- Mapping Stations**
- Rock sample (Au in ppb)

- Soil Anomalies**
- Au >50 ppb
 - Cu >300 ppm

- Interpreted Geology**
- Diorite
 - Diorite breccia
 - Pyroxenite
 - Takla volcanic rocks

- Outcrop Geology**
- Quartz-monzonite
 - Monzonite
 - Porphyritic monzodiorite
 - Diorite
 - Diorite breccia
 - Gabbro
 - Pyroxenite
 - Volcaniclastic sediment
 - andesite tuff
 - basaltic andesite





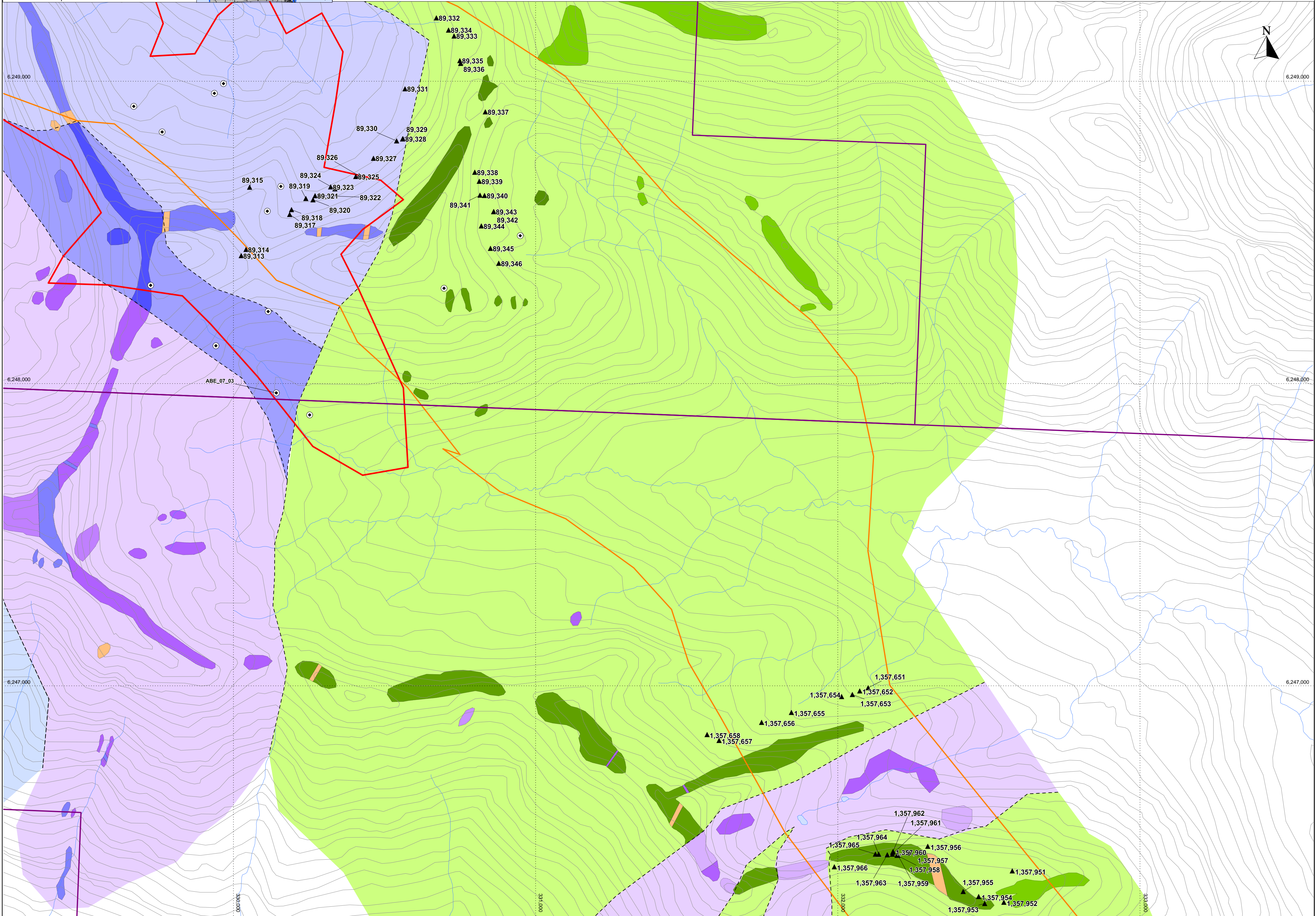
- Legend**
- Omineca claims
 - Elevation contour
 - Waterbody
 - Watercourse
 - DDH

- Mapping Stations**
- Sample numbers

- Soil Anomalies**
- Au >50 ppb
 - Cu >300 ppm

- Interpreted Geology**
- Diorite
 - Diorite breccia
 - Pyroxenite
 - Takla volcanic rocks

- Outcrop Geology**
- Quartz-monzonite
 - Monzonite
 - Porphyritic monzodiorite
 - Diorite
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 - Gabbro
 - Pyroxenite
 - Volcaniclastic sediment
 - andesite tuff
 - basaltic andesite





APPENDIX 3

Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Commander Resources Ltd.**
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Submitted By: Rob Cameron
Receiving Lab: Canada-Vancouver
Received: August 20, 2018
Report Date: October 11, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18002326.1

CLIENT JOB INFORMATION

Project: OM
Shipment ID:
P.O. Number
Number of Samples: 57

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Commander Resources Ltd.
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6
Canada

CC: Stephen Wetherup

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	57	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA330-Au	57	Fire assay fusion Au by ICP-ES	30	Completed	VAN
EN002	57	Environmental disposal charge-Fire assay lead waste			VAN
MA250	57	4 Acid digestion Ultratrace ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Commander Resources Ltd.
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Project: OM
Report Date: October 11, 2018

Page: 2 of 3

Part: 1 of 4

CERTIFICATE OF ANALYSIS

VAN18002326.1

Method Analyte	Unit	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01	
1357651	Rock	0.80	5	0.21	59.2	3.65	69.2	137	57.2	67.0	1191	6.29	19.1	0.6	0.7	367	0.12	1.07	0.12	322	3.10
1357652	Rock	0.71	31	0.15	28.2	5.73	66.2	141	62.5	76.3	1062	9.11	10.0	0.4	0.6	404	0.10	2.09	0.19	317	3.32
1357653	Rock	0.76	31	1.20	112.2	4.07	43.3	440	232.9	34.7	323	7.15	15.8	0.3	0.4	194	<0.02	0.72	0.51	351	0.49
1357654	Rock	0.74	14	0.31	18.7	6.64	35.6	152	250.0	39.9	275	6.98	13.6	0.5	0.8	210	0.13	0.86	0.20	281	2.10
1357655	Rock	0.88	52	3.66	359.6	3.79	23.1	366	22.8	11.6	144	11.60	5.9	0.4	0.6	214	0.03	0.55	0.12	183	0.68
1357656	Rock	0.90	6	0.13	16.6	2.60	32.4	67	30.6	7.8	3063	3.82	0.8	0.1	0.2	197	0.16	0.30	<0.04	93	20.46
1357657	Rock	0.85	3	0.50	127.8	6.37	72.4	199	41.4	24.0	1368	6.35	8.1	0.5	0.8	713	0.11	2.04	0.19	308	8.59
1357658	Rock	0.93	4	0.42	742.5	2.61	95.8	652	43.9	20.8	1875	10.19	3.6	0.3	0.3	123	0.18	1.03	0.09	423	5.19
1357951	Rock	0.67	38	0.26	181.2	6.46	64.1	473	403.5	40.7	1189	4.86	17.4	0.2	0.3	27	0.22	1.36	0.08	146	14.02
1357952	Rock	0.61	3	0.62	5.2	3.45	44.1	71	93.2	9.7	1568	2.46	2.3	<0.1	<0.1	96	0.69	0.88	<0.04	49	11.94
1357953	Rock	0.55	3	0.21	156.1	15.24	58.3	108	165.9	42.1	820	6.42	1.5	0.4	0.4	333	0.08	0.57	<0.04	242	4.42
1357954	Rock	1.20	11	0.25	131.1	5.68	79.4	247	120.1	47.3	1266	7.45	8.3	0.4	0.6	323	0.21	1.12	<0.04	285	6.40
1357955	Rock	0.77	6	0.20	131.0	3.64	80.7	115	103.1	15.9	1068	6.08	4.1	0.4	0.6	107	0.25	2.05	<0.04	293	9.49
1357956	Rock	0.76	11	0.48	193.6	5.55	94.3	272	252.0	48.6	1379	6.29	4.3	<0.1	0.1	139	0.40	1.22	<0.04	174	12.83
1357957	Rock	1.08	3	1.10	20.9	5.09	158.5	383	199.6	38.4	2574	6.61	2.3	0.3	0.4	188	0.69	0.38	<0.04	254	5.65
1357958	Rock	0.64	6	0.77	278.7	3.59	56.9	351	49.3	20.8	2123	4.63	2.7	0.3	0.3	57	0.54	1.35	<0.04	126	1.43
1357959	Rock	0.90	5	0.47	286.0	7.38	96.6	361	85.1	34.7	1712	6.28	3.0	0.6	0.6	217	0.27	1.85	<0.04	221	6.23
1357960	Rock	0.80	10	0.21	5573.6	81.40	116.6	10539	120.8	22.9	714	4.71	1.2	0.1	0.1	35	0.45	1.70	4.06	105	0.59
1357961	Rock	0.76	5	0.13	95.3	10.41	124.8	250	176.1	44.2	1357	7.43	4.6	0.3	0.5	191	0.32	2.25	0.04	249	4.93
1357962	Rock	0.83	11	0.49	3156.1	13.93	103.7	4270	123.7	23.1	345	4.64	1.6	0.2	0.4	22	0.49	2.32	0.49	200	1.08
1357963	Rock	0.65	19	0.17	19.9	7.53	189.9	321	162.7	42.5	1289	5.39	3.2	0.3	0.4	128	1.03	1.66	0.10	246	6.84
1357964	Rock	0.95	4	<0.05	24.6	11.51	141.4	98	174.4	22.2	1377	5.21	5.6	0.4	0.7	127	0.48	2.13	<0.04	246	5.56
1357965	Rock	0.76	9	0.12	247.0	8.79	31.9	282	19.7	16.9	1025	2.60	5.6	0.7	0.8	160	0.64	1.77	<0.04	190	5.69
1357966	Rock	0.88	15	0.67	145.5	4.52	81.9	327	121.0	30.5	1787	6.10	8.9	0.6	1.2	277	0.10	1.45	0.10	290	3.15
89313	Rock	0.70	3	0.31	112.2	2.95	48.4	55	95.4	29.1	915	7.23	3.6	0.3	1.6	422	0.14	0.19	<0.04	478	6.14
89314	Rock	0.73	6	0.77	174.6	4.45	73.3	49	87.9	30.8	976	5.96	2.7	0.3	0.8	411	0.25	0.28	<0.04	329	6.81
89315	Rock	0.69	4	0.70	116.1	1.86	32.3	107	72.7	21.0	900	5.88	2.3	0.6	1.0	410	0.03	0.28	0.13	276	6.57
89317	Rock	0.88	11	0.83	87.5	1.88	67.1	116	125.8	32.8	1623	7.61	4.5	0.5	0.8	349	0.07	1.25	0.13	281	7.03
89318	Rock	0.84	6	0.39	44.6	2.83	91.9	43	20.0	27.1	1492	8.32	9.5	0.2	0.3	668	0.12	1.13	0.05	473	6.68
89319	Rock	0.72	8	0.22	3.3	1.48	75.5	31	104.5	21.0	1553	6.30	3.1	0.5	0.6	358	0.07	1.62	0.09	297	6.32



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Project: OM
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CERTIFICATE OF ANALYSIS

VAN18002326.1

Method	Analyte	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.2	0.1	1	0.04	0.1	0.02	0.1	0.1	0.1	0.1
1357651	Rock	0.108	6.6	85	2.93	393	0.467	8.15	3.718	1.32	0.6	28.1	0.7	<1	25.0	1.04	15.3	13.35	1.7	8.1	2.3
1357652	Rock	0.112	5.5	70	2.94	64	0.471	7.67	2.778	1.42	0.5	21.5	0.6	<1	21.6	5.31	11.7	12.58	1.8	8.6	2.3
1357653	Rock	0.081	1.3	336	3.33	30	0.318	6.91	3.306	1.33	0.6	13.7	0.3	<1	31.8	4.69	7.8	4.18	0.7	3.4	1.1
1357654	Rock	0.092	3.8	305	4.65	222	0.304	7.21	2.447	1.74	0.8	27.8	0.6	<1	33.5	6.12	13.0	9.98	1.5	5.7	2.1
1357655	Rock	0.064	1.1	44	1.09	447	0.285	6.78	3.036	1.78	0.4	21.2	0.3	<1	14.0	1.20	2.3	2.27	0.3	1.7	0.5
1357656	Rock	0.035	3.5	98	3.12	33	0.045	2.16	0.013	0.14	0.6	6.8	0.1	<1	14.0	0.50	12.2	7.39	1.0	5.6	1.9
1357657	Rock	0.110	5.7	51	3.01	212	0.445	8.30	3.130	0.86	1.5	22.5	0.4	<1	29.0	0.07	17.7	12.91	1.8	8.9	1.9
1357658	Rock	0.187	4.5	95	4.76	3913	0.480	8.01	0.834	3.69	3.1	10.9	0.7	<1	31.9	0.15	13.2	11.23	1.6	8.5	2.6
1357951	Rock	0.063	1.9	615	2.46	97	0.201	3.57	0.020	1.04	1.3	11.4	0.2	<1	21.4	<0.04	7.5	4.77	0.6	3.4	1.1
1357952	Rock	0.010	0.7	68	1.44	37	0.013	0.64	0.010	0.26	1.5	2.3	<0.1	<1	5.5	<0.04	3.7	1.73	0.3	2.0	0.6
1357953	Rock	0.089	2.5	255	4.06	515	0.208	7.81	2.253	1.65	3.2	21.6	0.4	<1	24.8	<0.04	8.4	5.95	0.9	4.8	1.6
1357954	Rock	0.110	3.1	387	6.09	721	0.364	5.68	1.665	0.80	0.6	24.9	0.4	<1	37.7	<0.04	12.1	7.19	1.1	5.3	1.6
1357955	Rock	0.056	3.5	211	1.61	192	0.344	6.38	1.950	1.42	1.9	15.7	0.5	<1	31.9	<0.04	9.6	8.55	1.2	6.2	1.7
1357956	Rock	0.014	0.7	882	5.17	53	0.228	2.23	0.052	0.04	0.9	8.4	0.3	<1	59.5	<0.04	6.8	1.93	0.3	2.1	0.8
1357957	Rock	0.092	1.6	485	5.84	261	0.102	4.61	0.051	1.32	3.5	9.6	0.3	<1	41.9	<0.04	7.7	3.63	0.6	3.1	1.2
1357958	Rock	0.049	3.9	103	1.75	195	0.128	2.42	0.311	0.81	1.2	8.1	0.2	<1	16.8	<0.04	12.2	8.44	1.4	6.4	2.1
1357959	Rock	0.093	4.6	238	3.71	286	0.279	4.88	0.923	1.84	3.5	19.1	0.6	<1	30.6	<0.04	12.3	11.15	1.6	8.4	2.4
1357960	Rock	0.013	1.4	167	1.71	571	0.085	2.35	0.014	0.44	1.1	4.3	0.2	<1	17.7	0.36	2.1	3.44	0.5	2.2	0.4
1357961	Rock	0.093	2.1	520	5.94	309	0.318	4.95	1.087	0.59	0.8	17.5	0.4	<1	39.3	<0.04	9.3	5.22	0.8	4.4	1.6
1357962	Rock	0.107	1.4	326	1.59	300	0.244	5.07	0.386	1.73	4.8	10.8	0.4	<1	18.6	0.26	5.0	3.92	0.8	3.2	1.5
1357963	Rock	0.052	1.2	210	3.28	578	0.285	5.93	0.753	2.26	1.8	15.0	0.4	<1	27.0	0.56	5.8	3.10	0.5	2.9	1.4
1357964	Rock	0.056	1.2	279	4.65	165	0.335	6.19	2.096	0.90	0.9	16.6	1.2	<1	29.9	0.05	7.2	3.87	0.6	4.5	1.4
1357965	Rock	0.101	4.9	44	2.41	87	0.350	7.85	3.547	1.91	1.9	38.8	0.6	<1	18.1	0.07	9.4	9.07	1.2	6.0	1.6
1357966	Rock	0.085	5.3	218	4.60	687	0.403	7.88	3.323	1.02	0.3	36.7	1.1	<1	35.1	1.00	12.3	12.16	1.7	8.1	2.0
89313	Rock	0.339	6.0	91	3.63	255	0.388	7.55	2.345	1.15	0.2	12.3	0.4	<1	22.9	<0.04	14.3	13.05	2.0	8.6	2.4
89314	Rock	0.165	3.9	79	3.62	193	0.388	7.90	2.605	0.95	0.1	14.7	0.5	<1	22.0	<0.04	14.5	9.61	1.5	6.3	2.0
89315	Rock	0.150	2.6	94	4.03	456	0.460	7.81	2.187	1.64	0.7	10.7	1.1	<1	30.0	0.80	15.6	9.56	1.8	9.1	2.8
89317	Rock	0.123	3.0	226	5.01	233	0.402	6.54	2.213	0.96	0.9	22.4	0.5	<1	32.5	0.15	12.4	7.71	1.3	6.5	1.9
89318	Rock	0.148	3.1	20	3.42	299	0.644	8.28	2.265	1.08	1.0	15.1	0.8	<1	34.5	0.07	14.6	7.35	1.1	5.9	1.9
89319	Rock	0.125	4.5	162	4.44	271	0.436	7.53	2.487	1.15	1.2	20.5	0.5	<1	28.2	<0.04	11.6	10.16	1.5	7.2	2.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250		
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05
1357651	Rock	1.0	3.3	0.4	3.2	0.6	1.6	0.2	1.6	0.2	0.93	9.9	20.1	<0.1	0.95	0.5	18.43	0.07	<0.002	0.8	0.59	
1357652	Rock	0.7	2.6	0.3	2.5	0.6	1.4	0.2	1.2	0.2	0.88	10.1	15.6	<0.1	0.86	0.7	19.89	0.05	<0.002	0.4	0.35	
1357653	Rock	0.3	1.4	0.2	1.6	0.4	0.9	0.1	0.8	0.1	0.46	15.6	17.9	<0.1	0.51	0.6	15.07	0.02	<0.002	7.0	1.48	
1357654	Rock	0.7	2.2	0.3	2.1	0.5	1.4	0.2	1.4	0.2	0.85	15.0	32.9	<0.1	0.48	0.8	14.94	0.02	<0.002	10.1	2.12	
1357655	Rock	0.2	0.5	<0.1	0.4	<0.1	0.4	<0.1	0.3	<0.1	0.68	3.2	43.5	<0.1	0.83	0.6	13.86	0.02	0.016	2.5	0.45	
1357656	Rock	0.9	2.4	0.3	2.3	0.4	1.0	0.2	1.0	<0.1	0.23	15.0	4.4	<0.1	0.08	0.5	5.25	0.04	<0.002	<0.3	2.67	
1357657	Rock	0.9	3.8	0.5	3.5	0.6	2.1	0.3	1.8	0.3	0.83	8.9	20.5	<0.1	0.98	0.3	18.40	0.07	<0.002	<0.3	0.90	
1357658	Rock	0.5	3.8	0.4	2.5	0.6	1.4	0.3	1.3	0.2	0.43	47.5	30.5	<0.1	0.48	0.7	18.84	0.04	<0.002	<0.3	0.75	
1357951	Rock	0.3	1.2	0.2	1.7	0.2	0.8	0.1	0.7	0.1	0.57	9.7	27.9	<0.1	0.33	1.2	8.36	0.04	<0.002	<0.3	1.42	
1357952	Rock	0.2	0.9	<0.1	0.6	0.2	0.4	<0.1	0.2	<0.1	0.05	6.8	9.3	<0.1	0.04	0.6	1.63	0.03	<0.002	<0.3	1.56	
1357953	Rock	0.5	1.6	0.3	1.8	0.3	1.1	0.1	1.0	0.1	0.85	17.7	34.8	<0.1	0.43	1.2	16.34	0.07	<0.002	<0.3	0.52	
1357954	Rock	0.7	2.6	0.3	2.3	0.5	1.3	0.2	1.3	0.2	0.94	18.4	22.8	<0.1	0.33	1.4	13.33	0.04	0.005	<0.3	1.46	
1357955	Rock	0.6	2.0	0.3	1.8	0.4	1.2	0.2	0.9	0.1	0.60	10.2	43.9	<0.1	0.57	2.1	12.79	0.05	<0.002	<0.3	1.13	
1357956	Rock	0.4	1.3	0.2	1.4	0.3	0.7	0.1	0.5	<0.1	0.17	21.7	2.1	<0.1	0.14	0.3	8.84	0.07	0.003	<0.3	1.73	
1357957	Rock	0.5	1.7	0.2	1.4	0.3	1.0	0.1	0.9	0.1	0.34	18.7	41.3	<0.1	0.08	1.0	13.92	0.07	<0.002	<0.3	1.37	
1357958	Rock	0.9	2.3	0.3	2.3	0.4	1.0	0.1	0.8	0.1	0.24	23.4	15.8	<0.1	0.18	0.4	6.20	0.07	<0.002	<0.3	0.39	
1357959	Rock	0.8	3.3	0.4	2.6	0.4	1.3	0.2	1.1	0.2	0.52	20.9	36.2	<0.1	0.35	0.7	11.62	0.10	<0.002	<0.3	1.12	
1357960	Rock	0.1	0.5	<0.1	0.4	0.1	0.3	<0.1	0.3	<0.1	0.15	37.7	15.4	<0.1	0.13	1.1	5.77	0.03	<0.002	<0.3	0.60	
1357961	Rock	0.5	1.8	0.2	1.8	0.4	1.6	0.2	1.0	0.1	0.73	25.7	18.8	<0.1	0.31	1.5	12.05	0.04	<0.002	<0.3	0.88	
1357962	Rock	0.5	1.5	0.2	1.1	0.2	0.7	<0.1	0.5	<0.1	0.34	21.3	56.4	<0.1	0.29	3.8	12.60	0.02	<0.002	<0.3	0.33	
1357963	Rock	0.5	3.6	0.2	1.5	0.2	0.8	<0.1	0.8	0.1	0.62	7.3	70.0	<0.1	0.53	6.0	13.36	0.12	<0.002	<0.3	0.96	
1357964	Rock	0.7	1.6	0.3	1.4	0.3	0.9	0.2	0.7	0.1	0.54	16.0	29.3	<0.1	0.59	2.5	14.34	0.07	<0.002	<0.3	0.91	
1357965	Rock	0.8	1.7	0.3	1.9	0.4	1.3	0.2	1.3	0.2	1.08	1.5	65.4	<0.1	1.00	3.8	13.00	0.06	<0.002	<0.3	0.69	
1357966	Rock	0.8	2.8	0.3	2.4	0.6	1.5	0.3	1.5	0.2	1.06	8.9	24.2	<0.1	0.77	0.5	17.41	0.10	<0.002	1.3	1.16	
89313	Rock	0.7	2.9	0.5	2.7	0.6	1.7	0.2	1.5	0.2	0.66	8.7	25.5	<0.1	0.84	0.5	16.12	0.02	<0.002	<0.3	0.93	
89314	Rock	0.6	2.2	0.4	2.4	0.6	1.8	0.3	1.5	0.2	0.70	7.2	16.4	<0.1	0.88	0.3	15.54	0.03	0.008	<0.3	1.08	
89315	Rock	0.8	3.2	0.5	3.2	0.6	1.4	0.2	1.7	0.2	0.66	9.3	45.3	<0.1	0.71	0.5	13.70	0.06	<0.002	<0.3	0.81	
89317	Rock	0.6	2.2	0.4	2.0	0.5	1.3	0.2	1.2	0.2	0.95	8.3	23.4	<0.1	0.68	0.6	12.79	0.09	0.009	<0.3	1.43	
89318	Rock	0.8	3.0	0.4	2.9	0.6	1.4	0.2	1.2	0.2	0.84	7.2	20.9	<0.1	0.55	0.5	15.88	0.10	<0.002	0.4	0.60	
89319	Rock	0.7	2.2	0.4	2.1	0.5	1.3	0.2	1.1	0.2	0.78	9.5	31.6	<0.1	0.96	0.6	14.17	0.07	<0.002	<0.3	0.88	



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CERTIFICATE OF ANALYSIS

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Method	MA250
Analyte	Tl
Unit	ppm
MDL	0.05
1357651	Rock 0.16
1357652	Rock 0.20
1357653	Rock 0.16
1357654	Rock 0.27
1357655	Rock 0.22
1357656	Rock <0.05
1357657	Rock 0.11
1357658	Rock 0.19
1357951	Rock 0.24
1357952	Rock 0.06
1357953	Rock 0.32
1357954	Rock 0.17
1357955	Rock 0.32
1357956	Rock <0.05
1357957	Rock 0.23
1357958	Rock 0.16
1357959	Rock 0.34
1357960	Rock 0.12
1357961	Rock 0.14
1357962	Rock 0.44
1357963	Rock 0.63
1357964	Rock 0.26
1357965	Rock 0.49
1357966	Rock 0.17
89313	Rock 0.17
89314	Rock 0.12
89315	Rock 0.20
89317	Rock 0.11
89318	Rock 0.15
89319	Rock 0.16



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01
89320	Rock	0.97	88	0.13	2482.7	1.00	43.1	1533	77.9	8.4	1588	9.30	2.8	0.4	0.5	145	0.09	1.52	0.08	188	5.62
89321	Rock	0.99	16	0.31	58.7	3.11	65.9	61	106.9	28.9	1621	6.71	6.1	0.5	0.5	516	0.04	2.41	0.16	307	6.51
89322	Rock	0.91	11	0.15	1369.5	0.77	80.7	1243	78.0	19.1	1008	8.73	5.0	0.2	0.3	9	0.06	2.47	0.12	149	0.29
89323	Rock	1.05	2	0.24	32.2	0.63	45.9	49	48.1	11.4	1221	13.48	1.9	0.3	0.2	53	<0.02	0.59	<0.04	308	0.64
89324	Rock	0.41	5	0.16	26.7	1.29	61.8	63	171.3	30.5	1761	14.53	2.6	0.4	0.7	294	<0.02	1.78	0.11	457	4.93
89325	Rock	1.20	34	0.33	702.9	1.04	58.3	357	61.7	11.9	1289	9.58	2.9	0.4	0.6	188	0.05	0.83	0.10	270	2.08
89326	Rock	1.10	274	0.10	3989.3	1.23	48.6	2100	71.0	17.5	1275	5.67	2.5	0.2	0.3	38	0.26	0.84	0.38	117	5.51
89327	Rock	0.82	67	0.55	883.0	7.77	89.5	2816	59.5	38.6	1849	6.83	9.9	0.2	0.3	141	1.44	1.76	2.43	135	6.62
89328	Rock	0.84	65	0.27	114.9	4.34	61.3	170	7.3	12.9	885	3.69	0.9	0.2	0.6	204	0.11	0.45	0.16	172	3.02
89329	Rock	0.80	47	1.78	72.2	10.68	17.6	105	5.6	9.1	158	4.78	2.4	0.5	0.3	121	0.04	0.37	0.54	185	0.26
89330	Rock	0.68	70	1.05	64.6	15.84	55.6	1483	43.6	35.3	1477	4.48	13.9	<0.1	0.1	32	0.35	1.42	1.46	79	3.33
89331	Rock	1.00	6	0.35	62.1	2.52	47.5	56	55.7	22.8	1186	4.59	3.4	0.4	0.6	415	0.13	0.93	0.06	354	4.76
89332	Rock	0.72	43	<0.05	165.0	3.63	47.1	150	201.2	70.4	1205	9.01	2.0	0.2	0.3	142	0.08	0.67	0.10	394	5.62
89333	Rock	1.18	458	4.52	1231.6	21.98	15.6	2589	460.5	686.4	442	21.00	98.0	0.6	0.4	610	0.15	4.01	1.23	323	7.05
89334	Rock	0.84	163	0.23	709.0	5.47	37.7	1968	531.4	305.5	646	12.57	72.8	1.2	0.7	356	<0.02	1.45	0.38	200	4.42
89335	Rock	0.85	13	0.46	101.7	7.35	107.5	236	106.1	32.7	2136	7.55	5.1	0.3	0.2	141	0.09	1.43	0.49	306	3.73
89336	Rock	0.93	65	6.20	496.5	12.63	128.9	1166	951.9	101.8	2219	9.23	2.6	0.2	<0.1	98	0.09	0.71	0.55	284	4.75
89337	Rock	0.81	15	0.29	32.3	2.79	31.8	86	65.1	22.0	931	6.41	3.7	0.6	1.0	443	0.07	0.99	0.07	309	5.14
89338	Rock	0.50	63	0.93	41.3	15.03	139.9	577	258.2	82.5	643	9.89	34.4	0.2	0.8	262	0.18	1.28	0.76	150	2.18
89339	Rock	0.69	1198	1.60	487.5	43.50	21.3	1188	6.5	5.9	56	9.65	14.9	0.3	<0.1	15	0.02	1.47	4.38	52	0.03
89340	Rock	0.81	295	4.47	51.3	9.48	20.8	889	4.0	1.5	80	7.80	9.4	0.5	<0.1	31	0.05	1.11	10.89	74	0.04
89341	Rock	0.68	56	0.07	926.4	1.81	64.9	219	140.7	33.0	2722	10.63	2.3	<0.1	<0.1	112	0.14	1.46	0.25	204	10.55
89342	Rock	0.71	2352	1.74	16.8	11.53	31.1	6757	5.5	9.3	537	3.57	3.4	1.5	2.5	211	0.24	0.62	0.47	72	0.43
89343	Rock	0.68	22	0.71	50.3	24.46	275.4	353	97.2	30.1	8891	8.91	18.7	0.1	<0.1	185	0.25	1.22	0.13	257	6.77
89344	Rock	1.31	10	0.37	224.3	3.11	50.7	255	66.5	70.0	1232	6.74	11.8	0.2	0.6	268	0.06	1.02	0.12	272	3.89
89345	Rock	0.88	24	0.55	178.3	5.24	83.9	851	61.7	27.0	1384	8.56	5.7	0.4	0.3	489	0.08	2.71	0.46	471	4.52
89346	Rock	0.53	25	0.69	482.5	3.41	51.6	422	601.2	99.0	978	11.70	23.4	0.3	0.4	181	0.04	1.27	0.42	215	2.75



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Project: OM
Report Date: October 11, 2018

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CERTIFICATE OF ANALYSIS

VAN18002326.1

Method	Analyte	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1
89320	Rock	0.081	2.2	160	3.26	391	0.268	4.86	0.493	1.68	1.6	15.9	0.5	<1	20.1	<0.04	21.5	5.71	0.9	5.4	2.6
89321	Rock	0.121	3.2	153	4.18	1140	0.440	7.69	1.911	2.03	1.1	19.4	0.6	<1	29.4	<0.04	14.6	8.99	1.4	6.9	2.2
89322	Rock	0.072	0.3	244	3.23	60	0.183	3.56	0.031	0.30	1.0	10.4	0.3	<1	12.0	0.05	4.5	1.12	0.3	1.7	0.7
89323	Rock	0.106	0.9	44	3.45	703	0.404	6.78	2.289	1.87	2.0	15.6	0.6	<1	20.5	<0.04	3.8	2.44	0.4	2.1	0.5
89324	Rock	0.037	2.6	253	4.44	409	0.368	6.43	1.474	2.12	1.2	21.3	0.5	<1	28.9	<0.04	12.3	6.31	1.0	5.7	1.4
89325	Rock	0.128	2.2	81	3.05	405	0.358	7.67	2.921	1.60	1.1	24.7	0.4	<1	17.3	0.05	7.7	5.66	0.8	3.5	0.9
89326	Rock	0.040	1.7	145	2.76	60	0.120	2.79	0.025	0.28	0.7	5.7	0.1	<1	11.7	0.23	9.0	3.86	0.6	2.8	1.1
89327	Rock	0.041	2.3	169	2.83	65	0.128	2.91	0.032	2.35	8.0	7.8	0.3	<1	16.7	2.48	6.1	4.94	0.8	3.3	1.0
89328	Rock	0.095	2.7	5	0.93	691	0.243	7.02	4.507	2.52	9.0	24.2	0.4	<1	9.5	0.10	5.2	6.92	1.0	5.3	1.4
89329	Rock	0.093	2.0	11	0.96	85	0.352	7.30	0.806	7.69	4.5	33.7	1.0	<1	9.1	1.16	13.1	6.26	1.2	6.0	2.0
89330	Rock	0.028	1.2	129	0.40	26	0.076	2.35	0.026	1.29	1.1	4.4	0.3	<1	11.2	1.84	3.9	3.06	0.5	2.4	0.9
89331	Rock	0.084	3.1	84	3.48	163	0.484	7.79	3.903	0.89	2.4	13.2	0.5	<1	34.2	<0.04	13.1	8.62	1.3	6.4	1.9
89332	Rock	0.062	2.3	932	7.48	125	0.294	4.82	0.017	0.04	0.5	12.0	0.6	<1	45.7	0.70	8.4	4.82	0.8	5.0	1.2
89333	Rock	0.062	4.2	65	1.18	41	0.320	5.84	0.513	0.39	0.3	19.4	0.5	<1	18.1	>10	8.1	10.71	1.9	7.7	1.7
89334	Rock	0.087	8.7	103	2.62	63	0.427	6.94	2.712	0.49	0.4	26.5	1.1	<1	24.8	4.88	20.5	23.14	4.4	18.1	4.5
89335	Rock	0.111	4.9	170	3.82	1129	0.419	7.74	2.295	1.30	1.0	8.7	0.7	<1	27.2	0.46	12.9	9.33	1.4	6.5	1.9
89336	Rock	0.033	2.4	550	7.31	90	0.291	4.79	0.051	0.26	0.7	6.7	0.5	<1	44.8	1.67	8.9	4.14	0.6	3.6	1.3
89337	Rock	0.073	3.6	86	2.87	325	0.311	7.23	2.775	1.55	0.8	25.8	0.5	<1	23.0	0.11	13.2	8.44	1.2	5.6	1.6
89338	Rock	0.313	1.6	59	1.94	111	0.132	5.71	0.884	3.26	0.6	6.8	0.3	<1	11.7	5.94	6.0	4.45	0.7	3.3	1.0
89339	Rock	0.020	0.8	76	0.05	203	0.044	0.61	0.015	0.44	6.7	3.5	0.4	<1	3.0	0.34	1.3	1.99	0.4	1.6	0.4
89340	Rock	0.006	1.9	413	0.10	52	0.182	1.35	0.029	2.17	3.4	10.4	1.1	<1	10.4	1.72	4.5	4.07	0.6	2.8	0.7
89341	Rock	0.008	0.4	796	6.07	19	0.244	1.91	0.089	0.03	0.8	5.8	0.5	<1	48.2	0.14	5.8	1.34	0.3	1.5	0.7
89342	Rock	0.082	7.3	6	0.21	46	0.143	5.73	2.568	1.64	8.3	51.9	0.4	<1	4.9	1.17	9.0	17.51	2.5	10.1	2.2
89343	Rock	0.002	1.1	244	3.12	357	0.233	6.23	1.244	1.93	2.7	4.4	0.6	<1	28.1	0.74	6.3	2.94	0.6	3.1	1.2
89344	Rock	0.072	1.3	171	5.16	107	0.249	6.59	2.572	1.69	0.3	14.4	0.5	<1	36.1	1.73	13.4	3.24	0.5	3.2	1.0
89345	Rock	0.017	2.6	120	3.88	58	0.322	7.37	1.900	2.22	0.7	17.3	0.8	<1	21.6	3.75	16.4	6.03	1.1	5.9	2.2
89346	Rock	0.065	1.1	368	5.79	62	0.410	6.35	1.919	1.05	0.8	12.8	0.5	<1	36.8	7.27	8.6	2.85	0.5	2.7	0.9



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Project: OM
Report Date: October 11, 2018

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CERTIFICATE OF ANALYSIS

VAN18002326.1

Method	Analyte	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05	
89320	Rock	0.6	2.9	0.5	3.3	0.8	2.2	0.3	1.9	0.3	0.59	21.6	50.1	<0.1	0.58	1.5	10.96	0.08	<0.002	<0.3	0.84
89321	Rock	0.9	2.1	0.5	2.8	0.6	1.6	0.2	1.7	0.3	0.70	7.5	46.8	<0.1	0.65	1.0	14.20	0.04	<0.002	<0.3	0.96
89322	Rock	0.4	0.6	0.2	0.7	0.2	0.5	<0.1	0.4	<0.1	0.42	29.4	8.4	<0.1	0.23	0.4	8.42	0.03	0.002	<0.3	0.36
89323	Rock	<0.1	0.6	0.1	1.0	0.2	0.7	0.1	0.5	<0.1	0.64	21.1	20.6	<0.1	0.76	1.5	13.73	0.04	<0.002	<0.3	0.16
89324	Rock	0.7	2.1	0.3	2.1	0.5	1.5	0.2	1.3	0.2	0.81	10.5	58.3	<0.1	0.50	0.4	13.25	0.06	0.002	<0.3	0.80
89325	Rock	0.4	1.4	0.2	1.4	0.4	1.1	0.2	1.1	0.1	0.78	18.6	19.5	<0.1	0.75	0.4	15.41	0.03	0.003	<0.3	0.42
89326	Rock	0.4	1.3	0.2	1.5	0.4	1.1	0.1	0.8	<0.1	0.24	19.1	7.2	<0.1	0.13	0.2	7.61	0.08	<0.002	0.5	0.74
89327	Rock	0.3	1.0	0.2	1.0	0.2	0.8	<0.1	0.6	<0.1	0.27	6.3	72.4	<0.1	0.26	1.3	7.72	0.08	<0.002	1.4	1.65
89328	Rock	0.5	1.5	0.2	0.9	0.2	0.8	0.1	0.9	0.1	0.76	2.9	31.1	<0.1	0.86	0.2	11.44	0.07	0.002	<0.3	0.47
89329	Rock	0.6	2.3	0.4	2.5	0.6	1.7	0.3	1.3	0.2	1.17	2.9	116.7	0.1	1.80	0.6	11.86	0.02	0.002	1.2	1.22
89330	Rock	0.3	0.7	<0.1	0.6	0.1	0.4	<0.1	0.5	<0.1	0.16	3.1	43.8	<0.1	0.11	1.8	4.39	0.05	<0.002	0.9	1.20
89331	Rock	0.5	2.1	0.3	2.1	0.5	1.3	0.2	1.3	0.2	0.76	8.1	20.6	<0.1	0.80	0.2	12.20	0.09	<0.002	<0.3	0.67
89332	Rock	0.6	1.7	0.3	1.7	0.4	1.0	0.2	1.0	0.2	0.56	31.6	1.3	<0.1	0.27	0.5	17.70	0.16	0.006	1.2	1.68
89333	Rock	1.0	1.6	0.3	1.5	0.3	0.8	0.1	0.9	0.2	0.82	3.7	8.6	<0.1	0.77	<0.1	15.98	0.04	0.128	28.3	2.62
89334	Rock	1.7	4.2	0.7	3.6	0.8	2.2	0.3	2.0	0.3	1.00	6.2	10.0	0.1	1.95	<0.1	13.18	0.05	0.101	14.6	1.07
89335	Rock	0.8	3.1	0.4	2.8	0.5	1.5	0.2	1.3	0.2	0.47	9.5	27.3	<0.1	0.49	0.9	15.18	0.14	<0.002	<0.3	0.79
89336	Rock	0.4	1.5	0.2	1.8	0.4	1.1	0.2	1.2	0.2	0.37	24.2	9.0	<0.1	0.15	0.7	10.56	0.11	0.044	1.0	2.66
89337	Rock	0.6	1.7	0.4	2.4	0.5	1.5	0.2	1.2	0.2	0.98	7.4	45.2	<0.1	0.69	0.6	14.35	0.07	<0.002	<0.3	0.74
89338	Rock	0.4	1.3	0.2	1.2	0.2	0.6	0.1	0.6	<0.1	0.31	10.8	46.6	<0.1	0.82	0.3	7.81	0.01	0.004	4.7	1.07
89339	Rock	0.2	0.2	<0.1	0.2	<0.1	0.1	<0.1	0.2	<0.1	0.11	3.6	10.1	<0.1	0.10	0.2	2.15	0.11	<0.002	6.5	10.47
89340	Rock	0.6	0.4	0.1	0.9	0.2	0.4	<0.1	0.5	<0.1	0.37	2.7	38.3	<0.1	0.18	0.5	2.55	0.15	0.003	3.9	11.16
89341	Rock	0.3	0.8	0.1	1.0	0.3	0.8	<0.1	0.6	<0.1	0.39	7.3	0.6	<0.1	0.11	0.2	6.96	0.10	<0.002	0.8	1.62
89342	Rock	0.7	2.1	0.3	1.6	0.3	1.0	0.2	0.9	0.2	1.96	2.2	52.0	0.2	2.99	1.2	10.93	0.03	<0.002	0.8	4.49
89343	Rock	0.5	1.5	0.2	1.2	0.3	0.9	<0.1	0.7	0.1	0.19	11.0	58.2	<0.1	0.06	1.2	11.89	0.12	0.006	0.6	0.96
89344	Rock	0.3	1.5	0.3	2.4	0.5	1.7	0.2	1.5	0.2	0.65	7.7	33.5	<0.1	0.92	0.4	12.95	0.02	0.018	5.4	0.94
89345	Rock	0.6	2.6	0.5	3.2	0.6	1.9	0.3	1.7	0.3	0.74	7.0	36.8	<0.1	0.20	0.9	15.09	0.08	0.013	3.4	1.71
89346	Rock	0.3	1.1	0.2	1.4	0.3	0.8	0.1	1.0	0.1	0.55	17.5	22.7	<0.1	0.73	0.6	13.17	0.07	0.036	11.1	0.64



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CERTIFICATE OF ANALYSIS

VAN18002326.1

Method	MA250
Analyte	Tl
Unit	ppm
MDL	0.05
89320	Rock 0.31
89321	Rock 0.21
89322	Rock <0.05
89323	Rock 0.28
89324	Rock 0.31
89325	Rock 0.15
89326	Rock <0.05
89327	Rock 0.44
89328	Rock 0.33
89329	Rock 0.68
89330	Rock 0.30
89331	Rock 0.12
89332	Rock <0.05
89333	Rock 0.10
89334	Rock 0.10
89335	Rock 0.19
89336	Rock 0.06
89337	Rock 0.20
89338	Rock 0.27
89339	Rock 0.07
89340	Rock 0.35
89341	Rock <0.05
89342	Rock 0.30
89343	Rock 0.31
89344	Rock 0.16
89345	Rock 0.23
89346	Rock 0.12



QUALITY CONTROL REPORT

VAN18002326.1

Method	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01	
Pulp Duplicates																					
1357657	Rock	0.85	3	0.50	127.8	6.37	72.4	199	41.4	24.0	1368	6.35	8.1	0.5	0.8	713	0.11	2.04	0.19	308	8.59
REP 1357657	QC			0.47	130.2	6.04	73.4	189	42.6	24.7	1333	6.23	9.1	0.5	0.9	725	0.14	2.08	0.19	300	8.43
1357658	Rock	0.93	4	0.42	742.5	2.61	95.8	652	43.9	20.8	1875	10.19	3.6	0.3	0.3	123	0.18	1.03	0.09	423	5.19
REP 1357658	QC		3																		
1357954	Rock	1.20	11	0.25	131.1	5.68	79.4	247	120.1	47.3	1266	7.45	8.3	0.4	0.6	323	0.21	1.12	<0.04	285	6.40
REP 1357954	QC		11																		
89329	Rock	0.80	47	1.78	72.2	10.68	17.6	105	5.6	9.1	158	4.78	2.4	0.5	0.3	121	0.04	0.37	0.54	185	0.26
REP 89329	QC			1.82	73.6	10.04	16.1	119	5.8	9.8	165	4.81	2.3	0.5	0.3	120	0.05	0.38	0.53	185	0.28
Core Reject Duplicates																					
1357955	Rock	0.77	6	0.20	131.0	3.64	80.7	115	103.1	15.9	1068	6.08	4.1	0.4	0.6	107	0.25	2.05	<0.04	293	9.49
DUP 1357955	QC		5	0.24	123.2	3.42	74.5	100	97.8	16.0	1018	5.77	3.9	0.4	0.6	103	0.22	1.90	<0.04	278	9.03
89336	Rock	0.93	65	6.20	496.5	12.63	128.9	1166	951.9	101.8	2219	9.23	2.6	0.2	<0.1	98	0.09	0.71	0.55	284	4.75
DUP 89336	QC		68	6.24	513.2	11.87	125.0	1060	919.7	98.5	2215	8.96	1.8	0.1	<0.1	101	0.07	0.67	0.52	273	4.62
Reference Materials																					
STD OREAS25A-4A	Standard			2.40	36.6	23.95	45.6	45	45.1	7.1	522	6.59	9.5	2.9	13.5	47	0.09	0.71	0.39	159	0.27
STD OREAS25A-4A	Standard			2.38	34.9	22.88	47.8	40	43.7	7.4	479	6.31	8.9	2.6	13.5	45	0.05	0.56	0.35	154	0.28
STD OREAS45E	Standard			2.29	807.1	19.30	46.0	348	487.1	56.7	600	25.54	19.1	2.6	13.9	17	0.06	1.04	0.30	341	0.07
STD OREAS45E	Standard			2.40	759.6	17.60	47.1	353	464.9	61.6	591	23.67	16.1	2.2	12.8	16	<0.02	1.00	0.30	331	0.06
STD OXC145	Standard		208																		
STD OXC145	Standard		208																		
STD OXH139	Standard		1286																		
STD OXH139	Standard		1222																		
STD OXH139	Standard		1273																		
STD OXH139	Standard		1281																		
STD OREAS45E Expected				2.4	780	18.2	46.7	311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4	70	45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		



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Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1	
Pulp Duplicates																					
1357657	Rock	0.110	5.7	51	3.01	212	0.445	8.30	3.130	0.86	1.5	22.5	0.4	<1	29.0	0.07	17.7	12.91	1.8	8.9	1.9
REP 1357657	QC	0.116	5.7	54	3.04	221	0.444	8.01	3.043	0.84	1.3	21.7	0.5	<1	28.8	0.07	16.8	12.68	1.8	9.5	2.2
1357658	Rock	0.187	4.5	95	4.76	3913	0.480	8.01	0.834	3.69	3.1	10.9	0.7	<1	31.9	0.15	13.2	11.23	1.6	8.5	2.6
REP 1357658	QC																				
1357954	Rock	0.110	3.1	387	6.09	721	0.364	5.68	1.665	0.80	0.6	24.9	0.4	<1	37.7	<0.04	12.1	7.19	1.1	5.3	1.6
REP 1357954	QC																				
89329	Rock	0.093	2.0	11	0.96	85	0.352	7.30	0.806	7.69	4.5	33.7	1.0	<1	9.1	1.16	13.1	6.26	1.2	6.0	2.0
REP 89329	QC	0.093	1.7	10	0.97	89	0.356	7.56	0.852	7.50	4.4	32.3	0.8	<1	9.3	1.17	13.4	5.92	1.2	6.4	1.9
Core Reject Duplicates																					
1357955	Rock	0.056	3.5	211	1.61	192	0.344	6.38	1.950	1.42	1.9	15.7	0.5	<1	31.9	<0.04	9.6	8.55	1.2	6.2	1.7
DUP 1357955	QC	0.048	3.5	192	1.52	183	0.314	5.93	1.840	1.44	1.5	15.8	0.4	<1	30.2	<0.04	9.3	8.14	1.3	6.2	1.8
89336	Rock	0.033	2.4	550	7.31	90	0.291	4.79	0.051	0.26	0.7	6.7	0.5	<1	44.8	1.67	8.9	4.14	0.6	3.6	1.3
DUP 89336	QC	0.032	2.3	540	7.23	91	0.292	4.73	0.047	0.26	0.7	6.3	0.7	<1	40.9	1.61	8.9	3.95	0.5	3.3	1.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	17.9	126	0.33	153	0.912	8.57	0.124	0.50	1.7	153.7	4.3	<1	12.2	<0.04	8.8	39.45	4.2	15.6	4.0
STD OREAS25A-4A	Standard	0.043	17.7	108	0.32	140	0.964	8.54	0.126	0.44	1.8	153.4	3.7	1	11.9	0.04	9.8	44.73	5.1	16.4	3.2
STD OREAS45E	Standard	0.037	11.0	1068	0.17	259	0.573	7.21	0.062	0.35	0.9	95.4	1.3	<1	95.8	<0.04	7.6	23.19	2.4	9.8	2.0
STD OREAS45E	Standard	0.031	11.5	936	0.16	263	0.556	6.80	0.061	0.34	1.0	95.1	1.3	<1	93.4	<0.04	7.2	24.22	2.6	9.5	2.2
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	1.32		93	0.046	8.28	23.5	2.47	9.57	2.28
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	4.06	0.93	13.7	0.047	10.5	48.9	5.11	18.2	3.55
STD OXC145 Expected																					
STD OXH139 Expected																					



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Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
Analyte	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05	
Pulp Duplicates																					
1357657	Rock	0.9	3.8	0.5	3.5	0.6	2.1	0.3	1.8	0.3	0.83	8.9	20.5	<0.1	0.98	0.3	18.40	0.07	<0.002	<0.3	0.90
REP 1357657	QC	1.1	2.7	0.5	3.0	0.6	2.0	0.3	1.6	0.3	0.85	8.2	20.1	<0.1	0.79	0.3	17.37	0.09	<0.002	<0.3	0.75
1357658	Rock	0.5	3.8	0.4	2.5	0.6	1.4	0.3	1.3	0.2	0.43	47.5	30.5	<0.1	0.48	0.7	18.84	0.04	<0.002	<0.3	0.75
REP 1357658	QC																				
1357954	Rock	0.7	2.6	0.3	2.3	0.5	1.3	0.2	1.3	0.2	0.94	18.4	22.8	<0.1	0.33	1.4	13.33	0.04	0.005	<0.3	1.46
REP 1357954	QC																				
89329	Rock	0.6	2.3	0.4	2.5	0.6	1.7	0.3	1.3	0.2	1.17	2.9	116.7	0.1	1.80	0.6	11.86	0.02	0.002	1.2	1.22
REP 89329	QC	0.6	2.2	0.4	2.7	0.6	1.6	0.3	1.6	0.2	1.20	3.0	109.0	0.1	1.85	0.6	11.40	0.03	<0.002	1.5	1.24
Core Reject Duplicates																					
1357955	Rock	0.6	2.0	0.3	1.8	0.4	1.2	0.2	0.9	0.1	0.60	10.2	43.9	<0.1	0.57	2.1	12.79	0.05	<0.002	<0.3	1.13
DUP 1357955	QC	0.7	1.6	0.3	1.5	0.4	1.1	0.2	1.0	0.2	0.85	9.2	43.4	<0.1	0.56	2.1	12.84	0.05	<0.002	<0.3	0.94
89336	Rock	0.4	1.5	0.2	1.8	0.4	1.1	0.2	1.2	0.2	0.37	24.2	9.0	<0.1	0.15	0.7	10.56	0.11	0.044	1.0	2.66
DUP 89336	QC	0.4	1.4	0.3	1.7	0.4	0.9	0.1	1.1	0.1	0.37	24.3	8.4	<0.1	0.14	0.7	10.26	0.14	0.033	1.9	1.89
Reference Materials																					
STD OREAS25A-4A	Standard	0.6	2.3	0.3	2.1	0.4	1.1	0.2	1.0	0.2	3.94	39.3	51.8	1.5	19.19	4.8	25.89	0.06	<0.002	2.2	0.07
STD OREAS25A-4A	Standard	0.6	3.1	0.4	1.8	0.3	1.1	0.2	1.3	0.2	3.86	35.9	53.7	1.4	20.20	5.3	26.57	0.07	<0.002	2.9	<0.05
STD OREAS45E	Standard	0.6	1.9	0.3	1.9	0.4	1.3	0.2	1.2	0.2	2.89	6.5	21.4	0.6	5.97	1.3	17.56	0.10	<0.002	2.0	0.20
STD OREAS45E	Standard	0.6	2.4	0.3	1.7	0.4	1.1	0.2	1.3	0.2	2.97	6.2	20.3	0.5	6.12	1.2	16.12	0.14	<0.002	2.9	0.17
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OREAS45E Expected		0.52	1.99	0.33	2.05	0.38	1.2	0.17	1.19	0.175	3.11	6.58	21.2	0.54	6.8	1.26	16.5	0.099		2.97	0.1
STD OREAS25A-4A Expected		0.69	2.68	0.34	2.25	0.43	1.23	0.19	1.3	0.2	4.28	36.7	61	1.5	20.9	6	25.9	0.09		2.5	
STD OXC145 Expected																					
STD OXH139 Expected																					



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Method	MA250	
Analyte	TI	
Unit	ppm	
MDL	0.05	
Pulp Duplicates		
1357657	Rock	0.11
REP 1357657	QC	0.10
1357658	Rock	0.19
REP 1357658	QC	
1357954	Rock	0.17
REP 1357954	QC	
89329	Rock	0.68
REP 89329	QC	0.69
Core Reject Duplicates		
1357955	Rock	0.32
DUP 1357955	QC	0.30
89336	Rock	0.06
DUP 89336	QC	0.06
Reference Materials		
STD OREAS25A-4A	Standard	0.36
STD OREAS25A-4A	Standard	0.36
STD OREAS45E	Standard	0.16
STD OREAS45E	Standard	0.15
STD OXC145	Standard	
STD OXC145	Standard	
STD OXH139	Standard	
STD OXH139	Standard	
STD OXH139	Standard	
STD OXH139	Standard	
STD OREAS45E Expected		0.15
STD OREAS25A-4A Expected		0.35
STD OXC145 Expected		
STD OXH139 Expected		



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		WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01
BLK	Blank			<0.05	<0.1	<0.02	<0.2	<20	<0.1	<0.2	<1	<0.01	0.7	<0.1	<0.1	<1	<0.02	<0.02	<0.04	<1	<0.01
BLK	Blank		3																		
BLK	Blank		3																		
BLK	Blank			<0.05	<0.1	<0.02	0.2	<20	0.2	<0.2	<1	<0.01	<0.2	<0.1	<0.1	<1	<0.02	<0.02	<0.04	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		9																		
BLK	Blank		4																		
BLK	Blank		3																		
Prep Wash																					
ROCK-VAN	Prep Blank		7	1.28	3.8	3.49	42.2	50	0.7	3.8	719	2.30	2.5	1.1	2.5	238	0.05	0.10	<0.04	36	1.83
ROCK-VAN	Prep Blank		<2	1.22	6.8	3.60	42.5	27	2.1	4.9	762	2.42	0.6	1.0	2.5	229	0.06	0.10	0.04	55	1.96



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		MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.2	<0.1	<1	0.2	<0.04	<0.1	<0.02	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.2	<0.1	<1	0.4	<0.04	<0.1	<0.02	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.045	11.0	3	0.52	788	0.221	8.37	3.740	1.55	0.5	54.9	0.9	1	6.9	<0.04	14.7	22.93	2.5	10.6	1.8
ROCK-VAN	Prep Blank	0.044	11.1	4	0.64	784	0.219	6.99	3.583	1.67	0.4	52.1	0.7	<1	8.6	<0.04	15.4	23.12	2.8	9.8	2.2



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		MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	0.2	<0.1	<0.04	<0.1	0.10	<0.01	<0.002	<0.3	0.08
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	0.1	0.1	<0.1	<0.04	<0.1	0.05	<0.01	0.003	0.8	0.09
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.8	2.9	0.4	2.6	0.6	1.6	0.3	2.0	0.3	1.72	2.1	27.5	0.4	5.61	0.2	14.08	0.01	<0.002	<0.3	0.18
ROCK-VAN	Prep Blank	0.7	2.2	0.4	2.6	0.6	1.8	0.3	1.9	0.3	1.51	2.4	32.4	0.3	5.01	0.2	14.02	0.03	<0.002	<0.3	0.12



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Commander Resources Ltd.
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Project: OM
Report Date: October 11, 2018

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QUALITY CONTROL REPORT

VAN18002326.1

		MA250 Ti ppm 0.05
BLK	Blank	<0.05
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BLK	Blank	<0.05
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Prep Wash		
ROCK-VAN	Prep Blank	0.15
ROCK-VAN	Prep Blank	0.16

APPENDIX 4

Statement of Work Confirmation



Print and Close

Cancel

Mineral Titles Online Viewer

Exploration and Development Work / Expiry Date Change Event Detail

Event Number ID	5739777
Recorded Date	2019/apr/29
Work Type	Technical Work (T)
Technical Items	Geological (G), Geochemical (C), Prospecting (PR)
Work Start Date	2018/aug/12
Work Stop Date	2018/aug/15
Total Value of Work	\$ 35122.06
Mine Permit Number	

Summary of the work value:

Title Numbers	514561
Claim Name/Property	
Issue Date	2005/jun/15
Work Performed Index	Y
Old Good To Date	2021/apr/25
New Good To Date	2021/sep/05
Numbers of Days Forward	133
Area in Ha	1505.74
Applied Work Value	\$ 10973.35
Submission Fee	\$ 0.00
Title Numbers	1060387
Claim Name/Property	OMENICA 2
Issue Date	2018/may/02
Work Performed Index	Y
Old Good To Date	2019/may/02
New Good To Date	2021/sep/05
Numbers of Days Forward	857
Area in Ha	1793.73
Applied Work Value	\$ 24129.28
Submission Fee	\$ 0.00

Financial Summary:

Total Applied Work Value:	\$ 35102.63
PAC name	116661
Debited PAC amount	\$ 0.00
Credited PAC amount	\$ 19.43
Total Submission Fees	\$ 0.00
Total Paid	\$ 0.00

Related Summary:

Existing Work Program
Event Numbers

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