



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

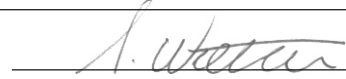
Assessment Report
Title Page and Summary

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

TOTAL COST: \$38,291.03

AUTHOR(S): Stephen Wetherup

SIGNATURE(S):



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

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5719508

PROPERTY NAME: Henry Lee Property

CLAIM NAME(S) (on which the work was done): 1060658, 1035123, 1036765

COMMODITIES SOUGHT: Cu, Mo, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Omineca

NTS/BCGS: 094D/01 and 093M/16

LATITUDE: 56 ° 00 ' _____ " LONGITUDE: 12 ° 18 ' _____ " (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, andesite, Kastberg Intrusive Suite, quartz monzonite, Sustut Group, Cretaceous, calc-alkaline porphyry Cu-Mo, Cu-Mo skarn

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 01954, 27818, 27957

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	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne			
_____	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil 71 samples	_____	_____	\$15,910.32
Silt 1 sample	_____	_____	\$2238.07
Rock 10 samples	_____	_____	\$22380.71
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:	\$ 38,291.03

ASSESSMENT REPORT

GEOCHEMICAL SAMPLING, HENRY LEE PROPERTY

Omineca Mining Division, British Columbia



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

And
ALEXANDER WALCOTT
38 – 181 Ravine Drive
Port Moody, BC V3H 4T3

LOCATED:
160 km north-northeast of Smithers, BC
Omineca Mining Division
56° 00' North Lat., 126° 18' West Long.
NTS: 094D/01 and 093M/16

March 5th, 2019

Prepared By:



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

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1.0 INTRODUCTION

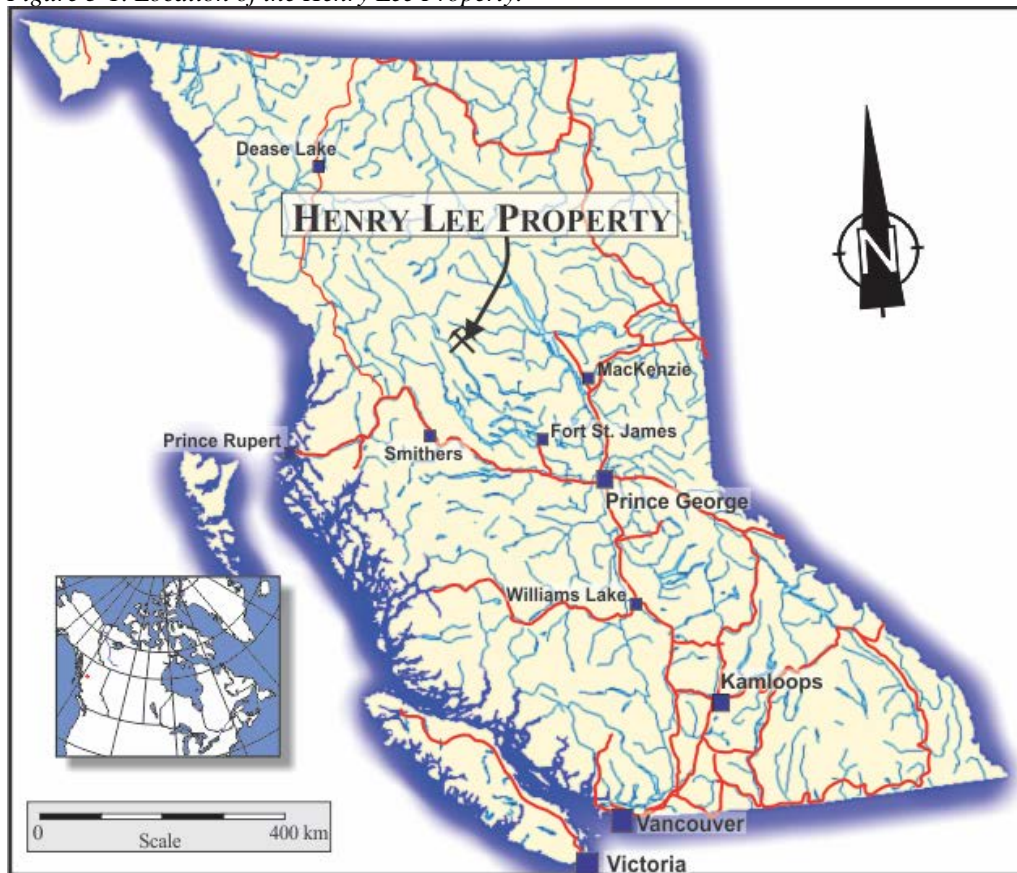
1.1 Introduction

Commander Resources Ltd. (“CMD”) completed a \$38,291.03 CAD exploration program on its Henry Lee 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 Henry Lee property is located in north-central British Columbia ~160 km north of Smithers (Figure 3-1). Property co-ordinates (centre of claims) are 56°00’ north Latitude and 126°18’ west Longitude on N.T.S. Map No. 094D/01 and 093M/16. The UTM (NAD83) co-ordinates are Zone 09N 667240E, 6210610N.

Figure 3-1. Location of the Henry Lee Property.





COMMANDER RESOURCES LTD.

Date:
Mar. 3, 2019

Henry Lee Property
Claim Map

Drafted by:
S. Wetherup

Figure:
3-2

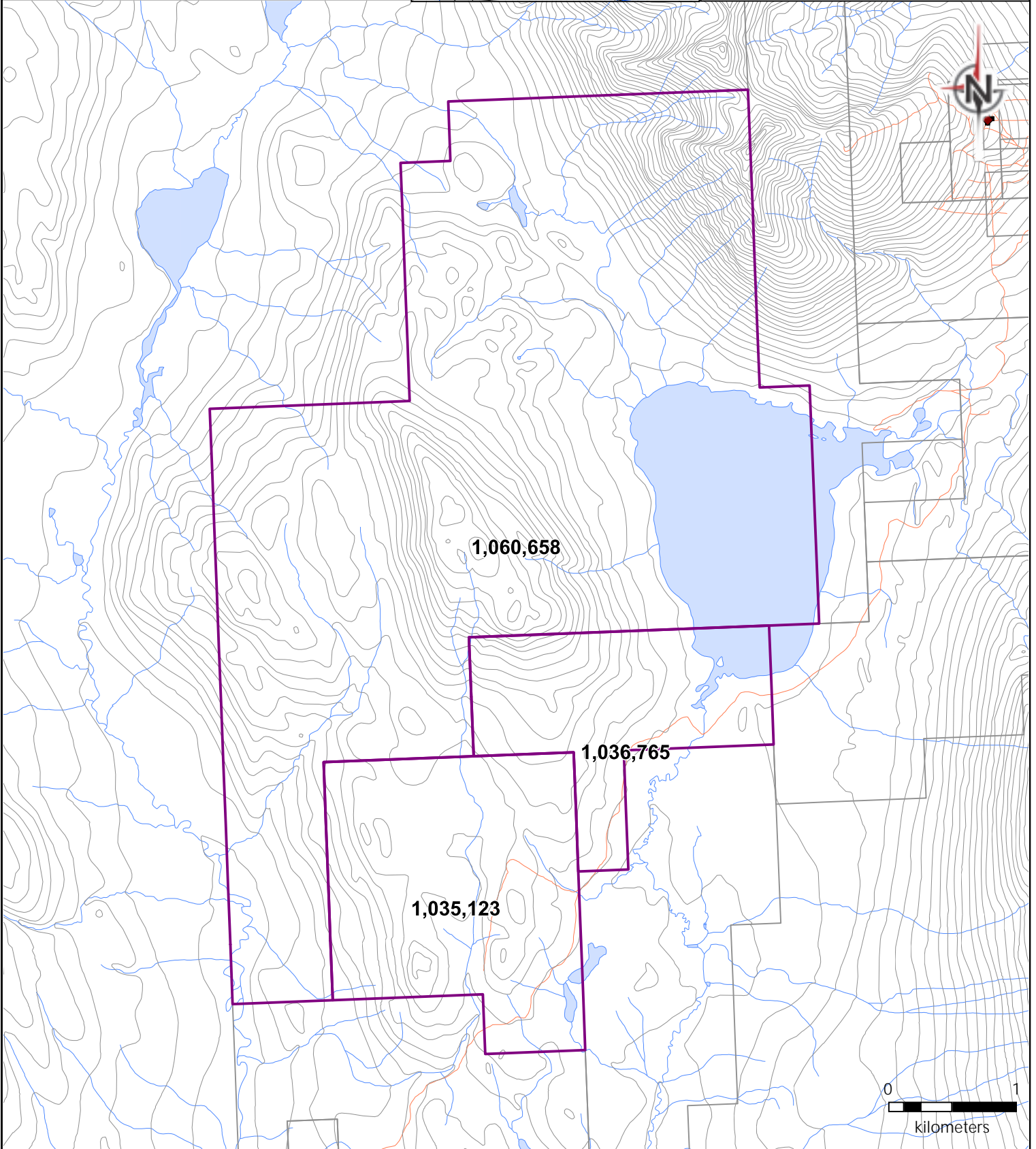
British Columbia, Canada

UTM NAD83 Zone 9



Legend

- contour line (20 m)
- Watercourse
- Waterbody
- Roads
- Henry Lee Property
- Mineral Claims



The Henry Lee property is comprised of three claim blocks of which Commander Resources (FMC# 116661) is the 100% owner, through a pending sale by Stephen Wetherup (FMC# 141077) and JV agreement with Alexander Walcott (FMC#129969). The property covers an area of 2459 hectares or 24.6 km² (Figure 3-2). Details of the claims downloaded from the Mineral Titles Online (MTO) website are listed below. The claims has not been legally surveyed.

Table 2-1. Mineral tenure summary data for the Rebel Property (February 21, 2019).

Title No.	Claim Name	Owner	Issue Date	Good to Date	Area
1060658	Henry Lee	141077	5/18/2018	5/10/2021	1807.75
1035123		129969	3/31/2015	5/10/2021	398.00
1036765		129969	6/17/2015	5/10/2021	253.19
Total Area:					2458.94

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

3.1 Access

The Henry Lee property is road accessible via a series of forestry roads emanating from Fort St. James and mainly following the Driftwood Valley (Driftwood Main FSR) and along the east side of Takla Lake to Lovell Cove (~260 km) and then another 60 km along a 4wd road to the property. The nearest heliport is in Smithers, B.C. approximately 160 km south-southwest of the property.

3.2 Physiography

The Henry Lee property is situated in a relatively flat-lying plateau on the western side of the Cariboo Heart Range and above the Driftwood Valley to the west. Slopes on the property are gentle to moderate. Topographic relief is ~500 m, ranging from 1000 m along the Lion Creek to 1560 m at the tallest hill 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 1,500 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 (160 km SSW) which is a resource (mining, logging, and ranching) based community with an experienced labour force, regular air service and heliports. Fort St James (260 km SE) is significantly more convenient for road access and can supply fuel, groceries, accommodation and heavy construction equipment.

4.0 EXPLORATION HISTORY

The Henry Lee property covers a newly recognized Cu-Mo occurrence which lies between two more advanced mineral prospects the skarn related Cu-Ag-Au “Kaza Copper” showing (MinFile#093M 111) to the south and the “Fred” or “Northstar” (MinFile# 094D 032) red-bed copper showing to the northeast. Nearly all the work conducted in the area was directed toward exploring these two mineral occurrences and very little other than sparse silt sampling and soil sampling was conducted on the Henry Lee property until 2005.

The first recorded work on the Henry Lee Property was in 1969 when Bayland Mines collected soil samples along a grid located on the NE corner of the Henry Lee property on the NW shore of Kaza Lake.

Table 4-1. Summary of work programs on the Henry Lee property.

Year	Operator	Area	Work Completed	ARIS No.
1969	Bayland Mines	NE	408 soils	01954
2004	Northern Hemisphere	HL,Kaza	29 rock, 23 silt, 130 soil	27818
2005	Northern Hemisphere	HL,Kaza	44 rocks, 285 soil mapping	27957

In 2004 and 2005, Northern Hemisphere Development Corp. controlled the Northstar and Kaza showings as well as the area currently covered by the Henry Lee property and conducted a drilling program on the Northstar showing. During this program they also recognized chalcopyrite and molybdenite bearing altered veinlets within an Eocene granite and established a grid and conducted geological mapping and soil sampling along this grid over the granite body. They discovered additional Cu and Mo mineralization and several zones of increased K-feldspar altered sheeted veinlets as well as numerous highly anomalous Cu

and Mo soil samples.

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

The Henry Lee property lies in the Intermontane geomorphological Belt in north central British Columbia. Basement rocks in the region belong to the exotic Mesozoic age island arc Stikine Terrane and Paleozoic to Mesozoic Cache Creek Terrane oceanic rocks to the east of the property. Overlying these exotic terrane rocks are post-accretionary Cretaceous age siliciclastic Sustut Group conglomerate, sandstone and siltstone (Figure 5-1).

Intruding the Stikine volcanic and post-accretionary Cretaceous sedimentary rocks are Eocene age Kastberg intrusions comprised of granite, quartz monzonite and quartz-eye dacite high level intrusions. These intrusions are spatially related or host to skarn Cu-Ag-Au-Zn and porphyry Cu-Mo-Au mineralization.

5.2 Property Geology

The Henry Lee property is underlain by andesite and basalt volcanic rocks which may belong to either Upper Triassic Takla Group (Savage Mtn Fm.) or lower Jurassic Hazelton (Telkwa Fm.) that have been intruded by a 1 x 1 km in area Kastberg Suite quartz monzonite stock that is thought to be Eocene in age. The region hosts several Kastberg intrusions which either host or are adjacent to porphyry Cu-Mo mineralization and alteration or Cu-Ag-Au skarn mineralization. On the Henry Lee Property, the Kastberg quartz monzonite underlays a ~1 x 2 km (open to north and west) Cu and Mo in soil anomaly and is host to several sheeted quartz and k-feldspar vein zones with chalcopyrite and molybdenite mineralization. Also, adjacent to the stock are several skarn altered zones with anomalous Cu (Figure 5-2).

Outcrop in the region is limited due to its low-relief and rolling hills mantled by glaciofluvial deposits and the main Kastberg intrusion on the Henry Lee property is in a large swamp which hampers soil sampling and geological mapping.



Date:
Mar. 3, 2019

Henry Lee Property

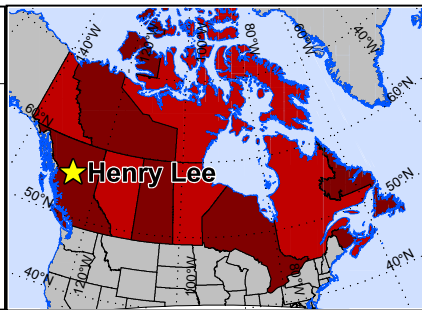
Drafted by:
S. Wetherup

Regional Geology

Figure:
5-1

British Columbia, Canada

UTM NAD83 Zone 9

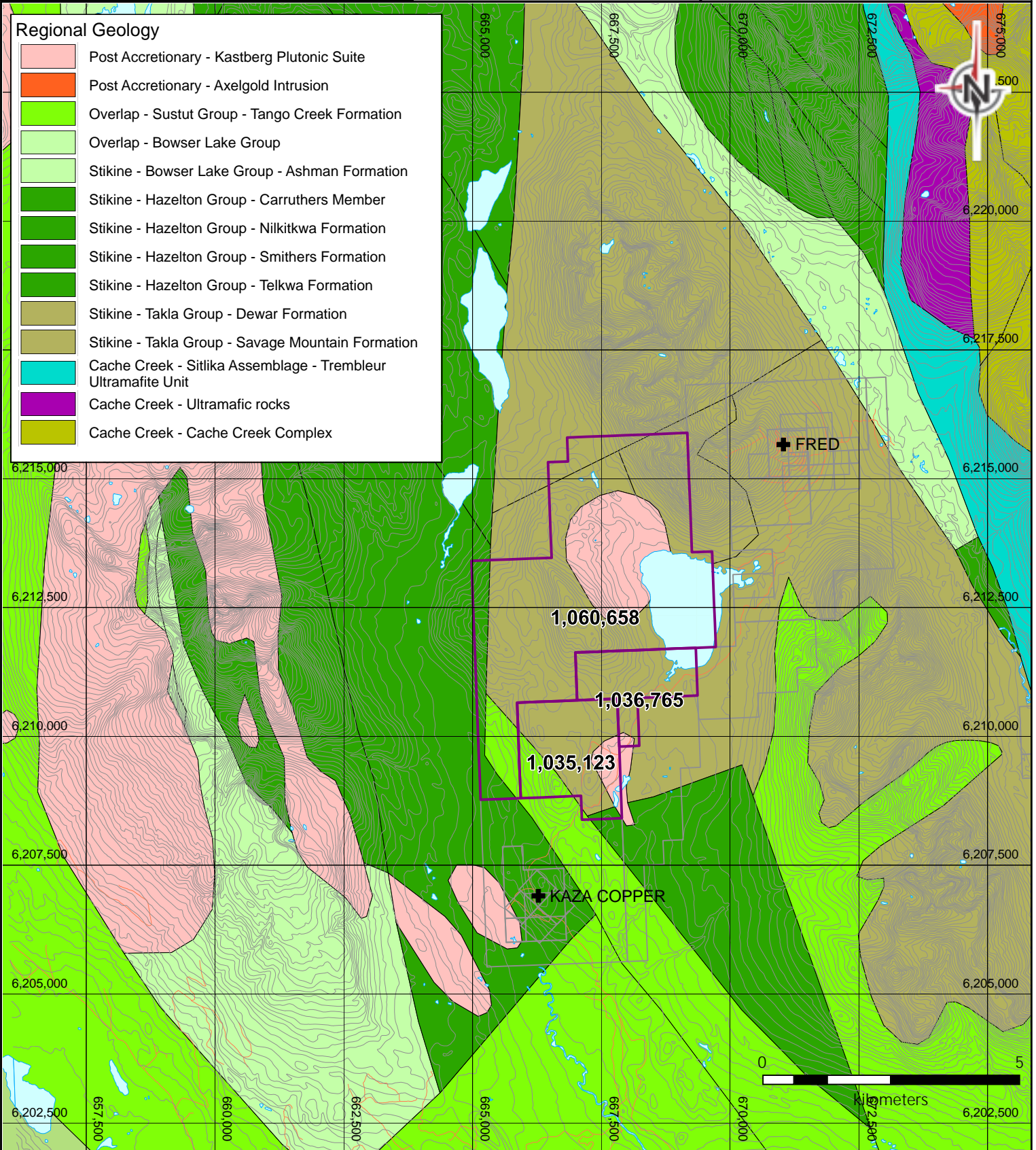


Legend

- contour line (20 m)
- Watercourse
- Waterbody
- Roads
- Henry Lee Property
- Mineral Claims
- MinFile

Regional Geology

- Post Accretionary - Kastberg Plutonic Suite
- Post Accretionary - Axelgold Intrusion
- Overlap - Sustut Group - Tango Creek Formation
- Overlap - Bowser Lake Group
- Stikine - Bowser Lake Group - Ashman Formation
- Stikine - Hazelton Group - Carruthers Member
- Stikine - Hazelton Group - Nilkitkwa Formation
- Stikine - Hazelton Group - Smithers Formation
- Stikine - Hazelton Group - Telkwa Formation
- Stikine - Takla Group - Dewar Formation
- Stikine - Takla Group - Savage Mountain Formation
- Cache Creek - Sitlika Assemblage - Trembleur Ultramafite Unit
- Cache Creek - Ultramafic rocks
- Cache Creek - Cache Creek Complex



+

FRED

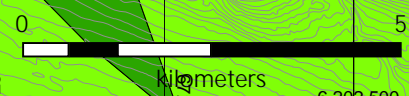
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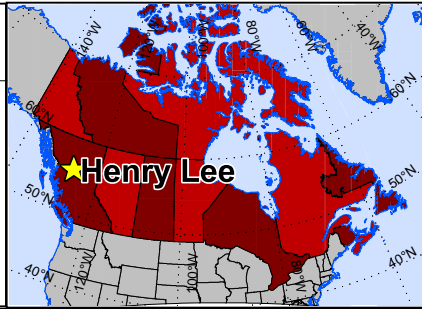


COMMANDER RESOURCES LTD.

Date:
Mar 8, 2019
Drafted by:
S. Wetherup
Figure:
5-2

Henry Lee Property
Property Geology
with 2018 Sample Locations
British Columbia, Canada

UTM NAD83 Zone 9



Legend

- Road
- Watercourse
- Waterbody
- Elev Contour (100ft)
- Henry Lee claims

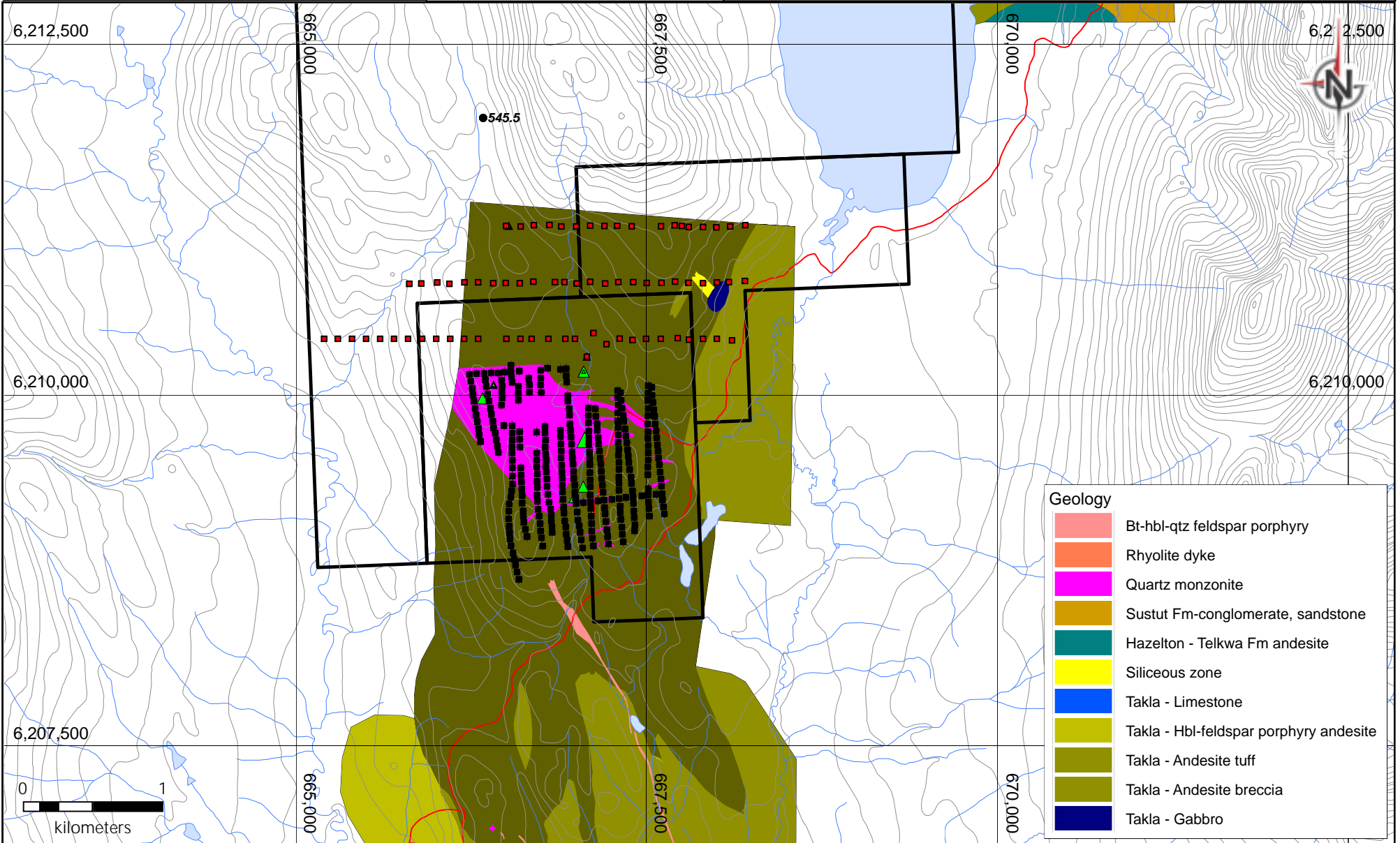
Soil samples

- Historical
- 2018 soils

Cu in Rocks (ppm)

- 1,000 to 10000
- 100 to 300
- 50 to 100

- Silt Sample (Cu ppm)



Geology

- Bt-hbl-qtz feldspar porphyry
- Rhyolite dyke
- Quartz monzonite
- Sustut Fm-conglomerate, sandstone
- Hazelton - Telkwa Fm andesite
- Siliceous zone
- Takla - Limestone
- Takla - Hbl-feldspar porphyry andesite
- Takla - Andesite tuff
- Takla - Andesite breccia
- Takla - Gabbro

6.0 MINERALIZATION AND ALTERATION

Two styles of mineralization occur on the Henry Lee property (1) porphyry Cu-Mo and (2) intrusive contact skarn Cu mineralization.

Quartz-chlorite and quartz-sericite-K-feldspar veins occur throughout a quartz monzonite stock in the south central portion of the Henry Lee property. Quartz-K-feldspar veins contain trace chalcopyrite and rare molybdenite with local zones of dense (5-10 per m) sheeted or stockwork veins within 10 x 50 m zones occurring within the quartz monzonite. Assay values from these zones have returned anomalous Cu-Mo values from historical sampling

In addition, to porphyry-style veining within the quartz monzonite stock contact skarn Cu-Au mineralization occurs within calcareous-basalt (Takla?) units. These zones are very local with a historical chip sample across 1.3 m returning 0.87% Cu, 0.07 g/t Au 28.6 g/t Ag and 0.032% Mo.

7.0 EXPLORATION

Work in 2018 consisted of collecting soils from three 200 m spaced lines north of the historical soil sampling grid over the Kastberg quartz monzonite and reconnaissance prospecting and geological investigation. A total of 1 silt, 10 rock, and 73 soil samples (71 analyses, 2 insufficient weight) were collected over 5 days of field work.

7.1 Sampling methods

Soil sampling consisted of digging a hole with a mattocks to sample the first mineral soils below the upper organic layer (i.e. B-horizon). In most areas, this required digging a 10-30 cm hole however, in bog areas these holes can be 100 cm deep or not collected at all if the organic layers is more the 100 cm.

Soil samples were collected from E-W oriented lines 200 m apart and 100 m apart along the lines.

Approximately 250 to 500 g of soil material was collected per site into paper kraft bags which are marked with their unique sample number and a waterproof sample tag was placed inside each bag. UTM locations (NAD83 zone 9) were recorded into a sample book and digitally with a GPS for each sample site. GPS and compass was used to navigate and determine sample locations (i.e. 100 m from last site).

7.2 Analysis methods

Soil and silt samples were laid out and dried in a temperature-controlled garage prior to shipping to the laboratory. All samples were sent to Bureau Veritas' facility in south Vancouver for analysis.

Soil samples were further dried and sieved to -80 mesh. An aliquot of the -80 mesh fraction was collected and dissolved by aqua-regia and the solution analyzed with an ICP-MS ultra-trace analysis for 36 elements. The silt sample also utilized the same dissolution and analysis method except that the silt was sieved to -230 mesh.

Rocks were initially crushed to a 10 mesh and a 250 g aliquot was further crushed to a pulp (-75 micron) and dissolved using a 4-acid method and analyzed by fire-assay for Au and ultra-trace ICP-MS for 59 elements.

7.3 Results

The soil sampling extended the extents of the historical anomalous Cu-Mo in soils to the northwest by about 400 m. A high Cu in soil of 708 ppm and 42.9 ppm Mo was returned from the 2018 sampling. Including historical samples 90th percentile values for Cu and Mo are 217 ppm and 17 ppm, respectively.

The results of the soil sampling are discontinuous in the central portion of the lines and within the historical soils but this is likely due to the fact most of the area is covered by large floating bogs and swampy terrain.

Prospecting rock sampling collected quartz-chlorite and quartz-K-feldspar veins hosted within the Kastberg quartz monzonite. Most of the samples only returned slightly anomalous Cu and Mo, with one high sample of 0.2% Cu and 65 ppm Mo from the 10 samples collected.

A single silt sample was collected ~400 m north (and upslope) of the furthest north soil line and returned 545 ppm Cu and 14 ppb Au suggesting mineralization upslope and to the north.

8.0 CONCLUSIONS

The 2018 work programme sought to find the limits of anomalous Mo and Cu in soils to the north of the historical soil samples and confirm the presence of porphyry Cu-Mo style alteration, mineralization and veining within the quartz monzonite.

The soil survey confirmed anomalous Cu and Mo continues northwest of the historical soil anomalies and

expands the area of anomalous Cu and Mo to a 1 x 1.2 km area which is still open to the northwest. The one silt sample also suggests Cu mineralization may also underlie the northern portions of the property.

Reconnaissance prospecting and geological investigation confirmed that the quartz monzonite contains quartz veins throughout which are either associated with chlorite alteration or K-feldspar and sericite alteration typical of calc-alkaline porphyry Cu-Mo-Au deposits. The rock samples collected from the program yielded weak to moderate results, but there is limited outcrop in the centre of the soil anomaly and additional prospecting and alteration mapping is recommended. Also, several reconnaissance induced-polarization lines across the area of the soil anomaly would be able to determine if there is sufficient sulphide content to suggest a significant phyllic zone and mineralized stockwork quartz-sulphide veining.

9.0 EXPLORATION EXPENDITURES

These expenditures cover the costs of field work, assays, interpretation and report writing for Event # 5719508.

Table 10-1. Summary of exploration expenses.

Item	Description	Amt	Units	Cost/Unit	Sub-Total
Labour	S. Wetherup (Aug 9-14)	3	days	\$700.00	\$ 2,100.00
Labour	R. Cameron (Aug 9-14)	3	days	\$700.00	\$ 2,100.00
Labour	Brandon (Aug 9-11)	4	days	\$300.00	\$ 1,200.00
Labour	Brian (Aug 9-10)	3	days	\$300.00	\$ 900.00
Labour	Travel RC and SW (3 days x 2)	6	days	\$700.00	\$ 4,200.00
Helicopter	Silverking Helicopters	10.5	hours	\$1,937.82	\$ 20,347.10
Geochem	rock assays	10	samples	\$9.07	\$ 90.70
Geochem	silt assays	1	samples	\$20.60	\$ 20.60
Geochem	soil assays	71	samples	\$19.16	1,398.70
Transportation	Truck rental	6	days	\$104.17	\$ 625.00
Transportation	Fuel				\$ 625.45
Acc and Board	hotel 2 people 6 days	12	days	\$134.23	\$ 1,610.77
	meals 2 people 6 days	12	days	\$54.10	649.20
Miscellaneous	field supplies (sample bags etc...)				323.51
Report	Report writing and drafting	3	days	\$700.00	\$ 2,100.00
				Total	\$ 38,291.03

10.0 STATEMENTS OF AUTHORSHIP


Stephen William Wetherup
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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, Henry Lee Property, Omineca Mining Division, British Columbia”, (the “Report”), dated March 5th, 2019.

Dated this 5th Day of March, 2019.


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



11.0 SELECTED BIBLIOGRAPHY

Schulze, Carl (2005): Year 2004 Surface Exploration and Diamond Drilling Programs on the Kaza Northstar Project; Northern Hemisphere Development Corporation, ARIS BC report #27818.

Schulze, Carl (2006): Geological, Geochemical and Drilling Report on the Northstar and Henry Lee Projects; Northern Hemisphere Development Corporation, ARIS BC report #27957.

Wolfe, R. (1969): Geochemical and Geological Report on the JESS 1-26, and HOLLY 1-16 Claims, Kaza Lake Area, BC; Bayland Mines, ARIS BC report #1954.

APPENDIX 1

Rock, Soil and Silt
Sample Summary Data

Sample No.	Year	Easting NAD83z9	Northing NAD83z9	Type	Mo (PPM)	Cu (PPM)	Pb (PPM)	Zn (PPM)	Ag (PPM)	As (PPM)	Au (PPB)	Sb (PPM)	Bi (PPM)	Ba (PPM)	Hg (PPM)	Tl (PPM)	Se (PPM)
89251	2018	666094	6210793	Soil	42.9	85.1	29	170	1.4	6.9	1.4	2.4	0.3	630	0.13	0.5	1.4
89252	2018	666006	6210802	Soil	25.1	312.2	17.1	193	0.9	6.9	19.6	1.1	0.6	1095	0.08	0.2	0.8
89253	2018	665894	6210796	Soil	4.6	149.3	10.2	111	0.2	11.6	0.7	0.5	0.2	358	0.05	0.1	<0.5
89254	2018	665808	6210792	Soil	6.8	351.2	31.3	200	0.9	15.4	3.3	0.6	0.3	593	0.09	0.4	0.7
89255	2018	668202	6211212	Soil	1.1	79.2	7.8	65	1	4	2.5	0.3	0.1	179	0.09	<0.1	0.6
89256	2018	668096	6211202	Soil	1.5	38.1	7.6	37	0.2	6.3	0.6	0.4	0.1	113	0.07	<0.1	<0.5
89257	2018	667997	6211195	Soil	1.1	85.8	12.3	238	0.6	42	1.1	0.7	0.1	111	0.07	0.1	<0.5
89258	2018	667901	6211199	Soil	1.7	47.3	9.7	104	0.1	28.1	19	0.8	0.2	110	0.04	<0.1	<0.5
89259	2018	667800	6211198	Soil	1.3	36.1	10.1	102	0.2	15.2	0.9	0.4	0.2	131	0.05	<0.1	<0.5
89260	2018	667700	6211209	Soil	0.8	290.8	5.6	96	1.6	87.8	12.5	0.5	0.1	161	0.24	<0.1	3
89261	2018	667602	6211204	Soil	1.2	397.6	10.1	119	1.4	37.2	18.5	1	0.1	167	0.2	0.1	2.4
89262	2018	667750	6211205	Soil	0.8	72.5	9.8	95	0.2	9.6	1.2	0.3	0.1	157	0.07	<0.1	<0.5
89263	2018	667393	6211203	Soil	1.2	62	11.4	189	0.7	10.9	1.1	0.4	0.1	190	0.12	0.1	<0.5
89264	2018	667291	6211207	Soil	0.7	113.3	11.6	142	0.4	12.5	1.4	0.4	0.2	111	0.08	<0.1	1
89265	2018	667199	6211205	Soil	0.8	87.5	8.4	93	0.9	8	1.1	0.5	0.1	180	0.13	<0.1	0.9
89266	2018	667098	6211208	Soil	1.9	708.3	10.6	93	1.5	12	3.4	0.7	0.2	193	0.25	0.1	2.6
89267	2018	666997	6211202	Soil	0.6	125.2	8.1	54	1.5	7.5	2	0.3	<0.1	160	0.12	<0.1	1
89268	2018	666892	6211202	Soil	1.9	28.2	7.7	35	0.1	8.2	1.1	0.4	0.2	84	0.04	<0.1	<0.5
89269	2018	666808	6211213	Soil	2.2	358.9	10.9	137	0.6	24	1.9	0.4	0.2	334	0.08	0.2	0.7
89270	2018	666696	6211211	Soil	2.6	53.8	6.9	52	0.1	9.3	0.9	0.4	0.1	126	0.05	<0.1	<0.5
89271	2018	666602	6211202	Soil	3.8	255.9	2.9	19	2.4	3.5	3.9	3.3	<0.1	183	0.32	0.4	4.5
89272	2018	666499	6211205	Soil	1.8	15.2	8.9	22	0.3	1.1	<0.5	0.1	0.1	109	0.1	<0.1	<0.5
89401	2018	665200	6210400	Soil	1.4	20.7	7.3	121	0.2	7.1	1.8	0.2	0.2	101	0.04	0.1	<0.5
89402	2018	665300	6210400	Soil	1.7	31.8	6.8	98	0.1	9.8	2.2	0.3	0.2	139	0.04	0.1	<0.5
89403	2018	665400	6210400	Soil	1.5	19.4	8.8	97	<0.1	6.9	3	0.3	0.2	150	0.03	0.1	<0.5
89404	2018	665500	6210400	Soil	3.9	112.4	9.8	76	0.8	5.8	1.7	0.5	0.2	339	0.09	0.2	<0.5
89405	2018	665600	6210400	Soil	2.1	142	4	46	1.5	6.5	4.3	1.3	0.1	261	0.22	0.2	1.1
89406	2018	665700	6210400	Soil	2.3	184.8	7.9	107	1.3	6.6	0.6	0.7	0.2	308	0.13	0.1	0.5
89407	2018	665800	6210400	Soil	1.8	81.8	2.2	39	1.3	1.4	1	0.8	<0.1	168	0.15	<0.1	1.1
89408	2018	665900	6210400	Soil	3.7	27.7	12	105	0.4	9.6	3.2	0.5	0.3	127	0.06	0.1	<0.5
89409	2018	666000	6210400	Soil	5.7	59.1	16.7	122	0.4	5.8	1.2	0.6	0.7	158	0.03	<0.1	<0.5
89410	2018	666100	6210400	Soil	16.1	269.4	10.8	100	1.2	4.7	1.6	0.7	0.3	356	0.15	0.1	0.6
89411	2018	666200	6210400	Soil	2.5	33.7	9.7	63	0.1	6.2	2.2	0.3	0.2	77	0.04	<0.1	<0.5
89412	2018	666300	6210400	Soil	3.3	32.8	10.1	60	0.3	8	3.4	0.3	0.2	68	0.05	<0.1	<0.5
89413	2018	666500	6210400	Soil	3.3	11.8	11.4	38	0.2	3.1	2.9	0.4	0.2	89	0.02	<0.1	<0.5
89414	2018	666600	6210400	Soil	3.6	76.4	11.7	99	0.6	6.1	1.5	0.4	0.2	204	0.07	0.1	<0.5
89415	2018	666680	6210400	Soil	24.1	25.2	8	64	0.1	8.2	1.5	0.3	0.2	265	0.05	0.2	<0.5
89416	2018	666800	6210400	Soil	4.6	16.8	6.3	21	<0.1	3.8	0.7	0.2	<0.1	152	0.07	0.1	<0.5
89417	2018	666920	6210400	Soil	1.3	20	7.9	37	0.1	4.5	<0.5	0.3	0.1	61	0.03	0.1	<0.5
89418	2018	666990	6210400	Soil	8.4	44.6	6.6	58	0.2	6.1	<0.5	0.3	<0.1	284	0.05	0.2	0.8

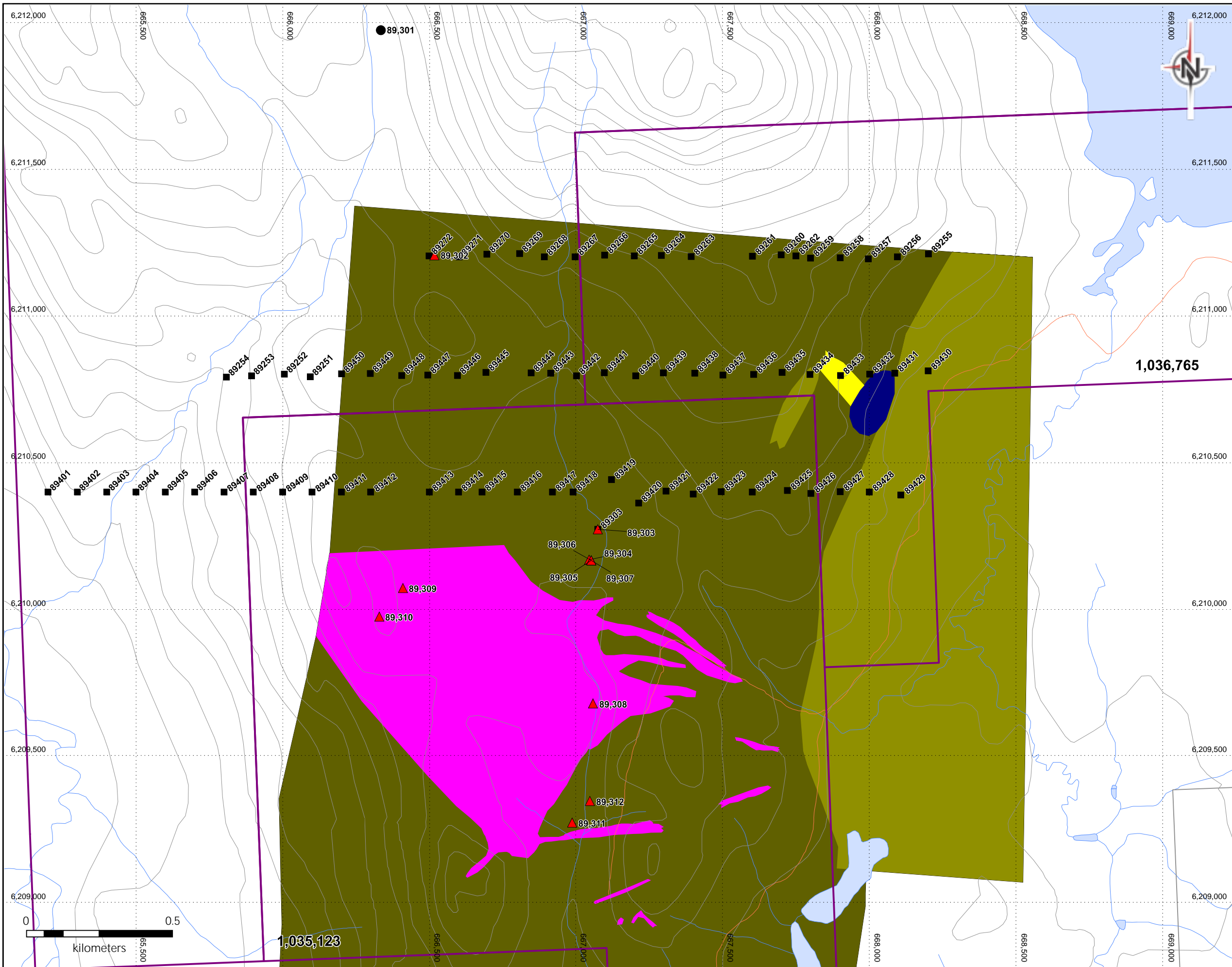
Sample No.	Year	Easting NAD83z9	Northing NAD83z9	Type	Mo (PPM)	Cu (PPM)	Pb (PPM)	Zn (PPM)	Ag (PPM)	As (PPM)	Au (PPB)	Sb (PPM)	Bi (PPM)	Ba (PPM)	Hg (PPM)	TI (PPM)	Se (PPM)
89419	2018	667121	6210442	Soil	0.9	22.9	3.8	50	<0.1	3.7	1.8	0.2	<0.1	97	0.09	<0.1	<0.5
89420	2018	667214	6210362	Soil	1.2	28.7	1.5	16	0.8	0.7	<0.5	0.7	<0.1	142	0.11	<0.1	0.6
89421	2018	667307	6210403	Soil	1.4	20.5	9.4	47	0.2	6.9	<0.5	0.4	0.2	115	0.03	<0.1	<0.5
89422	2018	667400	6210393	Soil	1.1	63.9	8.5	47	0.4	6.7	0.6	0.3	0.1	57	0.06	<0.1	<0.5
89423	2018	667495	6210401	Soil	1.4	51.4	5.4	52	0.1	4.9	1.3	0.5	0.1	54	0.06	<0.1	<0.5
89424	2018	667601	6210400	Soil	0.8	90.1	7.3	55	0.3	3	6.3	0.2	0.1	102	0.06	<0.1	<0.5
89425	2018	667721	6210405	Soil	1.8	53.7	9.3	79	0.2	9.7	5.5	0.7	0.3	72	0.07	<0.1	<0.5
89426	2018	667801	6210395	Soil	0.7	153.1	11.5	145	0.5	7.1	133.5	0.4	0.3	94	0.05	<0.1	<0.5
89427	2018	667901	6210401	Soil	0.6	399.4	1.9	4	0.4	3	2.8	0.6	<0.1	80	0.16	<0.1	2
89428	2018	668000	6210400	Soil	6.5	50.7	9.4	132	0.5	9	1.9	4	0.2	72	0.1	0.3	1
89429	2018	668108	6210390	Soil	0.8	28.5	11.6	128	0.5	36.2	1.2	1	0.1	66	0.07	0.1	<0.5
89430	2018	668201	6210813	Soil	28.6	54.5	6.7	99	0.4	27.6	1.3	1.5	0.1	124	0.06	0.6	1.3
89431	2018	668087	6210805	Soil	2.5	25.7	7	63	<0.1	13.3	7.9	0.7	0.2	86	0.02	<0.1	<0.5
89432	2018	668002	6210802	NS													
89433	2018	667902	6210797	NS													
89434	2018	667798	6210801	Soil	0.8	194	1.7	9	1.8	3.3	3.9	0.5	<0.1	83	0.16	<0.1	2.5
89435	2018	667703	6210808	Soil	1.1	21.8	7.1	43	<0.1	4.4	<0.5	0.2	<0.1	125	0.03	<0.1	<0.5
89436	2018	667606	6210801	Soil	1.1	66.7	7.7	93	0.2	17	2.7	0.5	<0.1	88	0.08	<0.1	<0.5
89437	2018	667501	6210799	Soil	0.7	191.5	6.2	52	0.3	5.1	11.3	0.4	0.1	98	0.11	<0.1	0.7
89438	2018	667405	6210805	Soil	1	60.4	10.8	88	0.2	8.2	0.7	0.2	0.1	233	0.07	<0.1	<0.5
89439	2018	667298	6210806	Soil	1.3	135.7	9.4	46	0.8	3.1	3.1	0.3	0.3	115	0.09	<0.1	<0.5
89440	2018	667204	6210796	Soil	1.3	51.6	7.1	41	0.2	9	4.6	0.3	0.2	93	0.08	<0.1	<0.5
89441	2018	667097	6210807	Soil	1.9	91.9	10.4	146	0.5	8.7	1.5	0.3	0.2	198	0.06	0.1	0.5
89442	2018	667002	6210796	Soil	2.6	61.3	10.5	58	0.2	50.7	11.4	0.7	0.3	116	0.04	<0.1	<0.5
89443	2018	666914	6210805	Soil	1.2	47.7	6	50	0.5	5	1.6	0.2	0.2	90	0.06	<0.1	<0.5
89444	2018	666847	6210806	Soil	2.3	34.9	7.1	61	<0.1	8.9	1.9	0.3	0.1	93	0.02	0.1	<0.5
89445	2018	666693	6210808	Soil	3.8	37.1	11.3	90	0.4	5.1	1.4	0.3	0.1	205	0.05	0.1	<0.5
89446	2018	666596	6210797	Soil	3	19.6	11.3	34	0.4	3.6	1.9	0.2	0.2	106	0.02	<0.1	<0.5
89447	2018	666495	6210799	Soil	2.7	24.6	8.9	41	0.2	7	1.5	0.4	0.1	72	0.07	<0.1	<0.5
89448	2018	666406	6210797	Soil	3.3	28.6	9.9	47	0.2	7.8	1.7	0.4	0.1	77	0.05	<0.1	<0.5
89449	2018	666299	6210804	Soil	4.1	30	10.9	57	0.1	9.2	1.5	0.4	0.2	75	0.04	0.1	<0.5
89450	2018	666201	6210803	Soil	1.2	16.3	9.6	24	0.3	2.9	0.8	0.2	0.1	66	0.04	0.1	<0.5
89303	2018	667074.26	6210272.7	Soil	1.2	21	10.9	76	0.2	6.7	<0.5	0.3	<0.1	124	0.05	<0.1	<0.5
89301	2018	666334.94	6211975.2	Silt	1.6	545.5	7.8	96	0.6	9.9	14.4	0.8	0.4	110	0.14	0.3	2.9

Sample No.	Easting NAD83z9	Northing NAD83z9	Elev (m)	Date	Type	Au_PPb	Mo_PPM	Cu_PPM	Pb_PPM	Zn_PPM	Ag_PPb	As_PPM	Sb_PPM	Bi_PPM	Ba_PPM	Re_PPM	Se_PPM	Te_PPM
89302	666518	6211207	1313	09-AUG-18 11:05:40AM	Rock	1	1.48	3.1	3.05	14.2	10	0.5	0.19	0.02	1544	0.001	0.15	0.06
89304	667045	6210169	1277	09-AUG-18 1:20:44PM	Rock	3	0.23	85.6	0.73	60.6	81	1.9	1.34	0.1	249	0.001	0.15	1.67
89305	667052	6210167	1274	09-AUG-18 1:21:35PM	Rock	3	2.72	241.1	16.82	45.5	323	5.8	0.45	0.09	376	0.003	0.15	0.08
89305	667052	6210167	1274	09-AUG-18 1:21:35PM	Rock	2	2.8	33.2	16.15	31.6	128	61.1	1.78	0.02	359	0.001	0.15	0.025
89305	667052	6210167	1274	09-AUG-18 1:21:35PM	Rock	3	0.69	46.3	3.81	22	94	1.9	1.06	0.14	1389	0.001	0.15	0.21
89308	667058	6209679	1272	09-AUG-18 2:48:01PM	Rock	18	5.36	2170.6	2.9	36.6	4096	0.5	0.3	0.19	923	0.001	2.7	0.2
89309	666410	6210072	1274	10-AUG-18 11:15:06AM	Rock	1	0.18	13.5	3.39	24.2	22	0.9	0.25	0.05	1170	0.001	0.15	0.18
89310	666329	6209975	1292	10-AUG-18 12:49:55PM	Rock	3	65.08	170.2	5.12	36.3	191	3.2	1.94	1.57	734	0.007	0.15	0.61
89311	666987	6209272	1250	11-AUG-18 3:02:27PM	Rock	38	0.49	142.3	1.28	64	98	5.3	1.36	0.02	277	0.001	0.15	0.76
89312	667048	6209346	1260	11-AUG-18 3:22:00PM	Rock	5	3.01	110.6	2.94	22.9	63	3.1	0.46	0.05	112	0.001	0.3	0.21



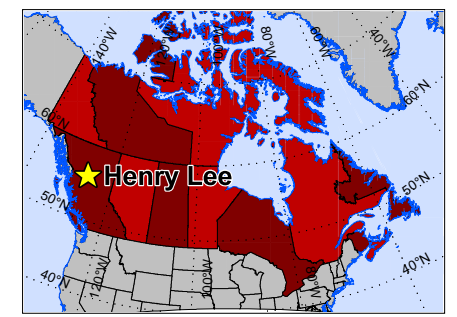
APPENDIX 2

Geochemical Sampling Maps

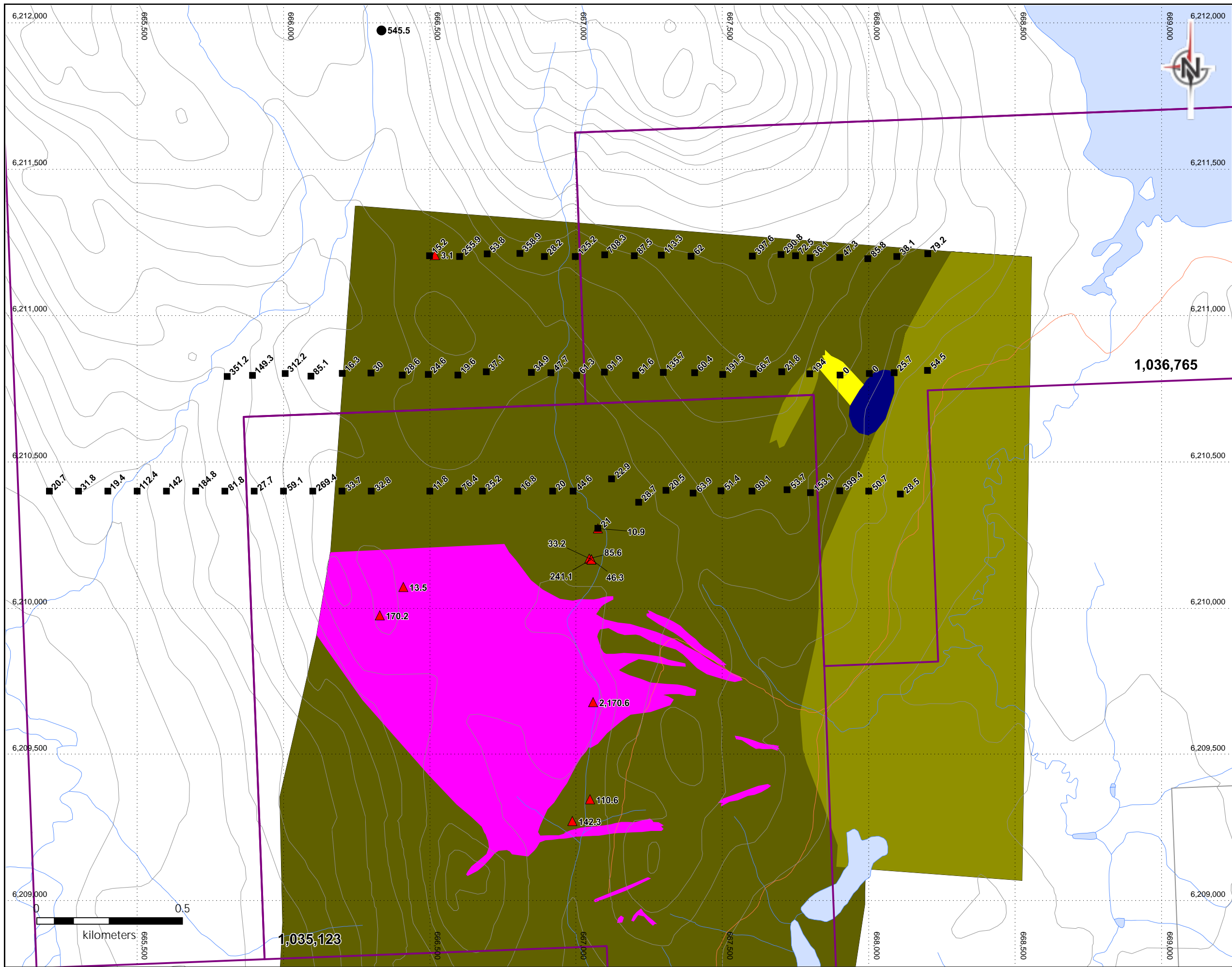


- ### Legend
- contour line (20 m)
 - Watercourse
 - Waterbody
 - Roads
 - Henry Lee Property
 - Mineral Claims
 - MinFile
 - Soil sample
 - Rock sample
 - Silt sample

- ### Geology
- Kastberg - Quartz monzonite
 - Siliceous zone
 - Gabbro
 - Takla - Andesite tuff
 - Takla - Feldspar+/-hbl porphyry andesite
 - Takla - Andesite Breccia



COMMANDER RESOURCES LTD.	
Date: Mar. 3, 2019	Henry Lee Property Sample Locations Sample Numbers British Columbia, Canada
Drafted by: S. Wetherup	
Figure: Appendix 2a	
UTM NAD83 Zone 9	

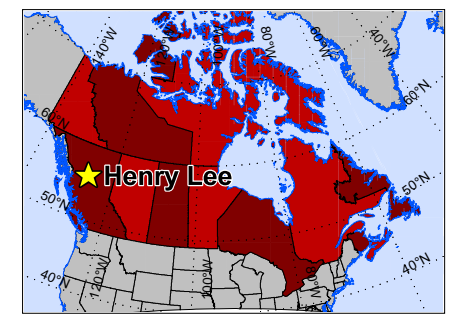


Legend

- contour line (20 m)
- Watercourse
- Waterbody
- Roads
- Henry Lee Property
- Mineral Claims
- MinFile
- Soil sample
- Rock sample
- Silt sample

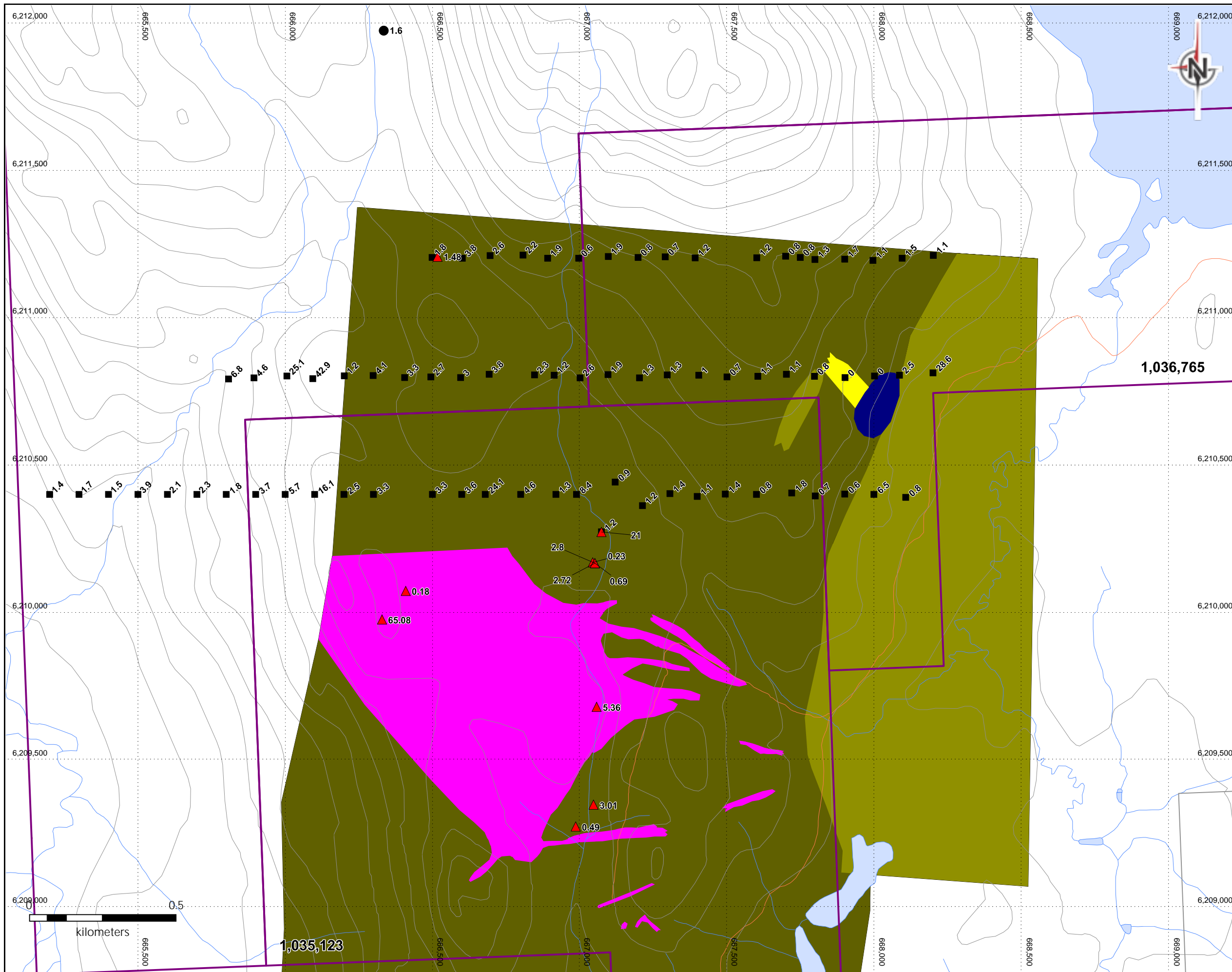
Geology

- Kastberg - Quartz monzonite
- Siliceous zone
- Gabbro
- Takla - Andesite tuff
- Takla - Feldspar+/-hbl porphyry andesite
- Takla - Andesite Breccia



COMMANDER RESOURCES LTD.

Date: Mar. 3, 2019	Henry Lee Property Sample Locations Cu (ppm) British Columbia, Canada UTM NAD83 Zone 9
Drafted by: S. Wetherup	
Figure: Appendix 2b	



Legend

- contour line (20 m)
- Watercourse
- Waterbody
- Roads
- Henry Lee Property
- Mineral Claims
- MinFile
- Soil sample
- Rock sample
- Silt sample

Geology

- Kastberg - Quartz monzonite
- Siliceous zone
- Gabbro
- Takla - Andesite tuff
- Takla - Feldspar+/-hbl porphyry andesite
- Takla - Andesite Breccia

Map Information

Scale: 0.5 kilometers

UTM NAD83 Zone 9

Company Information

COMMANDER RESOURCES LTD.

Date: Mar. 3, 2019	Henry Lee Property Sample Locations MO (ppm) British Columbia, Canada
Drafted by: S. Wetherup	
Figure: Appendix 2c	



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: September 19, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN18002327.1

CLIENT JOB INFORMATION

Project: HL
Shipment ID:
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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
DY060	71	Dry at 60C			VAN
SS80	71	Dry at 60C sieve 100g to -80 mesh			VAN
AQ200	71	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS


KERRY JAY
Geochem Project Specialist

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: HL
Report Date: September 19, 2018

Page: 2 of 4

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN18002327.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
89401	Soil	1.4	20.7	7.3	121	0.2	12.2	7.3	306	3.96	7.1	1.8	0.8	13	0.4	0.2	0.2	86	0.12	0.119	6
89402	Soil	1.7	31.8	6.8	98	0.1	17.0	8.8	220	3.90	9.8	2.2	0.7	13	0.2	0.3	0.2	89	0.15	0.118	5
89403	Soil	1.5	19.4	8.8	97	<0.1	12.7	7.3	204	3.34	6.9	3.0	0.7	24	0.1	0.3	0.2	104	0.26	0.031	4
89404	Soil	3.9	112.4	9.8	76	0.8	16.3	15.5	760	2.68	5.8	1.7	0.1	108	0.8	0.5	0.2	75	1.35	0.117	20
89405	Soil	2.1	142.0	4.0	46	1.5	14.1	6.7	767	2.55	6.5	4.3	0.2	102	1.2	1.3	0.1	31	2.96	0.128	29
89406	Soil	2.3	184.8	7.9	107	1.3	17.7	9.8	1044	2.51	6.6	0.6	0.2	95	1.4	0.7	0.2	63	2.88	0.122	19
89407	Soil	1.8	81.8	2.2	39	1.3	8.0	4.5	693	0.80	1.4	1.0	<0.1	128	1.2	0.8	<0.1	16	4.06	0.093	5
89408	Soil	3.7	27.7	12.0	105	0.4	11.5	10.1	558	4.85	9.6	3.2	0.8	10	0.3	0.5	0.3	126	0.10	0.128	6
89409	Soil	5.7	59.1	16.7	122	0.4	20.4	14.9	490	3.91	5.8	1.2	0.2	32	0.4	0.6	0.7	125	0.52	0.034	4
89410	Soil	16.1	269.4	10.8	100	1.2	25.5	13.4	1521	2.70	4.7	1.6	0.1	58	1.6	0.7	0.3	85	1.09	0.081	16
89411	Soil	2.5	33.7	9.7	63	0.1	19.4	8.2	226	2.96	6.2	2.2	0.6	14	0.3	0.3	0.2	93	0.18	0.054	4
89412	Soil	3.3	32.8	10.1	60	0.3	21.4	9.1	239	3.61	8.0	3.4	0.6	15	0.2	0.3	0.2	123	0.18	0.058	4
89413	Soil	3.3	11.8	11.4	38	0.2	6.5	3.9	123	1.55	3.1	2.9	0.2	33	0.2	0.4	0.2	69	0.19	0.028	4
89414	Soil	3.6	76.4	11.7	99	0.6	28.2	11.6	310	3.04	6.1	1.5	<0.1	24	0.3	0.4	0.2	76	0.29	0.073	7
89415	Soil	24.1	25.2	8.0	64	0.1	17.5	60.1	5552	4.76	8.2	1.5	0.2	28	0.3	0.3	0.2	110	0.18	0.077	5
89416	Soil	4.6	16.8	6.3	21	<0.1	6.8	3.6	85	1.13	3.8	0.7	<0.1	65	0.1	0.2	<0.1	33	0.49	0.088	6
89417	Soil	1.3	20.0	7.9	37	0.1	9.3	4.9	136	2.11	4.5	<0.5	<0.1	10	0.1	0.3	0.1	64	0.10	0.031	4
89418	Soil	8.4	44.6	6.6	58	0.2	24.1	17.1	1251	3.43	6.1	<0.5	0.5	39	0.2	0.3	<0.1	94	0.77	0.059	9
89419	Soil	0.9	22.9	3.8	50	<0.1	11.3	5.2	121	1.75	3.7	1.8	0.1	22	0.2	0.2	<0.1	52	0.46	0.045	3
89420	Soil	1.2	28.7	1.5	16	0.8	4.9	1.0	190	0.21	0.7	<0.5	<0.1	80	1.0	0.7	<0.1	6	3.19	0.083	3
89421	Soil	1.4	20.5	9.4	47	0.2	10.3	6.2	274	3.66	6.9	<0.5	0.1	18	0.2	0.4	0.2	123	0.17	0.082	5
89422	Soil	1.1	63.9	8.5	47	0.4	17.2	6.8	189	3.21	6.7	0.6	0.9	15	0.1	0.3	0.1	82	0.14	0.057	6
89423	Soil	1.4	51.4	5.4	52	0.1	11.2	15.7	393	7.67	4.9	1.3	0.6	38	0.1	0.5	0.1	330	0.24	0.063	3
89424	Soil	0.8	90.1	7.3	55	0.3	10.3	18.5	499	4.56	3.0	6.3	0.4	46	0.3	0.2	0.1	187	1.42	0.053	6
89425	Soil	1.8	53.7	9.3	79	0.2	16.5	14.5	357	6.46	9.7	5.5	0.7	21	0.2	0.7	0.3	261	0.16	0.059	4
89426	Soil	0.7	153.1	11.5	145	0.5	40.6	37.7	2096	7.95	7.1	133.5	0.8	34	0.9	0.4	0.3	202	1.28	0.057	5
89427	Soil	0.6	399.4	1.9	4	0.4	6.7	4.6	796	0.62	3.0	2.8	<0.1	78	0.5	0.6	<0.1	14	5.26	0.119	8
89428	Soil	6.5	50.7	9.4	132	0.5	11.9	14.0	575	9.36	9.0	1.9	0.7	9	0.8	4.0	0.2	221	0.14	0.116	5
89429	Soil	0.8	28.5	11.6	128	0.5	20.8	18.4	910	7.49	36.2	1.2	0.4	16	0.7	1.0	0.1	293	0.50	0.070	3
89430	Soil	28.6	54.5	6.7	99	0.4	69.9	13.8	483	3.36	27.6	1.3	0.4	29	1.5	1.5	0.1	151	1.11	0.049	7



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
89401	Soil	28	0.33	101	0.039	<20	2.07	0.010	0.07	<0.1	0.04	4.7	0.1	<0.05	9	<0.5	<0.2
89402	Soil	26	0.41	139	0.024	<20	2.02	0.008	0.05	<0.1	0.04	5.7	0.1	<0.05	9	<0.5	<0.2
89403	Soil	28	0.46	150	0.052	<20	1.81	0.010	0.05	<0.1	0.03	4.1	0.1	<0.05	9	<0.5	<0.2
89404	Soil	27	0.40	339	0.015	<20	2.37	0.009	0.08	0.1	0.09	3.8	0.2	<0.05	8	<0.5	<0.2
89405	Soil	16	0.25	261	0.007	<20	1.48	0.015	0.06	<0.1	0.22	4.9	0.2	0.25	3	1.1	<0.2
89406	Soil	28	0.40	308	0.011	<20	2.14	0.010	0.08	0.1	0.13	4.8	0.1	0.08	6	0.5	<0.2
89407	Soil	5	0.12	168	0.004	<20	0.38	0.012	0.03	0.2	0.15	1.1	<0.1	0.23	<1	1.1	<0.2
89408	Soil	35	0.31	127	0.079	<20	2.04	0.008	0.06	0.2	0.06	3.9	0.1	<0.05	12	<0.5	<0.2
89409	Soil	60	0.60	158	0.047	<20	1.81	0.011	0.06	0.3	0.03	5.1	<0.1	<0.05	10	<0.5	<0.2
89410	Soil	39	0.52	356	0.024	<20	2.14	0.014	0.07	0.1	0.15	5.0	0.1	<0.05	8	0.6	<0.2
89411	Soil	49	0.62	77	0.066	<20	2.57	0.012	0.06	<0.1	0.04	5.6	<0.1	<0.05	10	<0.5	<0.2
89412	Soil	54	0.73	68	0.090	<20	2.11	0.014	0.06	<0.1	0.05	5.1	<0.1	<0.05	12	<0.5	<0.2
89413	Soil	18	0.30	89	0.063	<20	1.18	0.012	0.04	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
89414	Soil	51	0.79	204	0.021	<20	2.85	0.013	0.08	0.1	0.07	2.6	0.1	<0.05	8	<0.5	<0.2
89415	Soil	42	0.49	265	0.023	<20	2.17	0.010	0.06	<0.1	0.05	4.4	0.2	<0.05	8	<0.5	<0.2
89416	Soil	22	0.23	152	0.009	<20	1.50	0.013	0.06	<0.1	0.07	2.3	0.1	<0.05	7	<0.5	<0.2
89417	Soil	23	0.27	61	0.038	<20	1.59	0.006	0.04	<0.1	0.03	2.0	0.1	<0.05	8	<0.5	<0.2
89418	Soil	32	0.85	284	0.041	<20	2.10	0.015	0.06	<0.1	0.05	8.6	0.2	<0.05	7	0.8	<0.2
89419	Soil	25	0.30	97	0.035	<20	1.02	0.008	0.05	0.1	0.09	2.9	<0.1	<0.05	4	<0.5	<0.2
89420	Soil	5	0.10	142	0.003	<20	0.31	0.015	0.03	<0.1	0.11	0.8	<0.1	0.17	<1	0.6	<0.2
89421	Soil	28	0.25	115	0.092	<20	1.30	0.010	0.05	<0.1	0.03	2.8	<0.1	<0.05	11	<0.5	<0.2
89422	Soil	38	0.35	57	0.052	<20	2.51	0.009	0.03	<0.1	0.06	5.3	<0.1	<0.05	8	<0.5	<0.2
89423	Soil	53	0.78	54	0.342	<20	2.72	0.010	0.03	0.2	0.06	6.1	<0.1	<0.05	13	<0.5	<0.2
89424	Soil	39	0.83	102	0.085	<20	3.76	0.010	0.04	0.2	0.06	8.8	<0.1	<0.05	13	<0.5	<0.2
89425	Soil	70	0.72	72	0.172	<20	2.56	0.008	0.05	0.2	0.07	6.2	<0.1	<0.05	15	<0.5	<0.2
89426	Soil	159	1.29	94	0.103	<20	3.66	0.009	0.04	0.2	0.05	19.0	<0.1	<0.05	13	<0.5	<0.2
89427	Soil	16	0.09	80	0.008	<20	0.99	0.016	0.02	<0.1	0.16	2.7	<0.1	0.16	1	2.0	<0.2
89428	Soil	23	0.57	72	0.346	<20	2.80	0.011	0.03	<0.1	0.10	7.2	0.3	<0.05	13	1.0	<0.2
89429	Soil	57	1.51	66	0.302	<20	3.52	0.008	0.04	0.2	0.07	6.5	0.1	<0.05	17	<0.5	<0.2
89430	Soil	18	0.14	124	0.002	<20	1.78	0.004	0.05	0.1	0.06	4.8	0.6	<0.05	5	1.3	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.01	0.001	1	
89431	Soil	2.5	25.7	7.0	63	<0.1	10.1	7.6	186	3.38	13.3	7.9	0.2	10	0.2	0.7	0.2	180	0.12	0.028	3
89432	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
89434	Soil	0.8	194.0	1.7	9	1.8	5.0	3.7	919	0.69	3.3	3.9	<0.1	98	1.2	0.5	<0.1	19	3.94	0.152	23
89435	Soil	1.1	21.8	7.1	43	<0.1	5.3	5.3	117	3.64	4.4	<0.5	0.2	14	0.1	0.2	<0.1	129	0.28	0.041	4
89436	Soil	1.1	66.7	7.7	93	0.2	25.0	17.8	382	5.01	17.0	2.7	0.8	14	0.3	0.5	<0.1	156	0.17	0.047	4
89437	Soil	0.7	191.5	6.2	52	0.3	12.7	9.9	844	2.02	5.1	11.3	0.2	68	1.0	0.4	0.1	74	2.36	0.080	11
89438	Soil	1.0	60.4	10.8	88	0.2	16.4	10.8	420	3.30	8.2	0.7	0.1	24	0.3	0.2	0.1	132	0.38	0.038	5
89439	Soil	1.3	135.7	9.4	46	0.8	17.1	33.5	1611	3.60	3.1	3.1	<0.1	44	1.2	0.3	0.3	129	1.56	0.116	9
89440	Soil	1.3	51.6	7.1	41	0.2	14.5	7.4	212	3.49	9.0	4.6	0.2	12	0.1	0.3	0.2	124	0.15	0.074	3
89441	Soil	1.9	91.9	10.4	146	0.5	26.1	32.9	2803	5.31	8.7	1.5	0.2	30	0.5	0.3	0.2	162	0.62	0.094	7
89442	Soil	2.6	61.3	10.5	58	0.2	27.3	12.9	246	5.70	50.7	11.4	0.5	16	0.3	0.7	0.3	171	0.21	0.033	3
89443	Soil	1.2	47.7	6.0	50	0.5	16.8	6.7	198	2.17	5.0	1.6	<0.1	15	0.4	0.2	0.2	74	0.20	0.056	4
89444	Soil	2.3	34.9	7.1	61	<0.1	16.6	9.0	282	3.64	8.9	1.9	0.5	18	0.2	0.3	0.1	108	0.23	0.021	4
89445	Soil	3.8	37.1	11.3	90	0.4	16.0	11.7	1015	3.63	5.1	1.4	0.1	39	0.4	0.3	0.1	106	0.37	0.063	7
89446	Soil	3.0	19.6	11.3	34	0.4	10.0	5.3	151	1.83	3.6	1.9	0.1	18	0.2	0.2	0.2	76	0.16	0.032	4
89447	Soil	2.7	24.6	8.9	41	0.2	8.0	5.2	231	3.16	7.0	1.5	0.1	30	0.3	0.4	0.1	148	0.18	0.058	3
89448	Soil	3.3	28.6	9.9	47	0.2	10.8	6.2	185	3.05	7.8	1.7	0.1	16	0.4	0.4	0.1	116	0.11	0.060	3
89449	Soil	4.1	30.0	10.9	57	0.1	13.1	7.4	242	3.78	9.2	1.5	0.6	13	0.2	0.4	0.2	140	0.12	0.048	4
89450	Soil	1.2	16.3	9.6	24	0.3	4.8	2.7	79	1.57	2.9	0.8	0.2	12	0.2	0.2	0.1	62	0.10	0.036	4
89251	Soil	42.9	85.1	29.0	170	1.4	23.5	26.8	6503	3.67	6.9	1.4	0.1	161	3.7	2.4	0.3	87	1.09	0.143	14
89252	Soil	25.1	312.2	17.1	193	0.9	24.4	16.3	1935	3.83	6.9	19.6	0.3	300	1.3	1.1	0.6	93	0.81	0.119	19
89253	Soil	4.6	149.3	10.2	111	0.2	23.5	12.5	462	4.83	11.6	0.7	0.6	96	0.4	0.5	0.2	122	0.35	0.043	6
89254	Soil	6.8	351.2	31.3	200	0.9	40.0	20.8	1482	5.21	15.4	3.3	2.1	97	0.8	0.6	0.3	129	0.44	0.061	34
89255	Soil	1.1	79.2	7.8	65	1.0	19.1	16.3	1148	2.65	4.0	2.5	<0.1	62	2.5	0.3	0.1	86	2.00	0.126	14
89256	Soil	1.5	38.1	7.6	37	0.2	10.4	5.7	143	2.45	6.3	0.6	<0.1	28	0.8	0.4	0.1	106	0.54	0.055	4
89257	Soil	1.1	85.8	12.3	238	0.6	22.0	22.5	1462	4.49	42.0	1.1	0.9	27	2.6	0.7	0.1	139	0.83	0.035	9
89258	Soil	1.7	47.3	9.7	104	0.1	30.4	14.9	312	8.94	28.1	19.0	0.8	10	0.3	0.8	0.2	313	0.13	0.038	4
89259	Soil	1.3	36.1	10.1	102	0.2	15.0	11.6	383	5.00	15.2	0.9	0.3	15	0.4	0.4	0.2	214	0.24	0.105	3
89260	Soil	0.8	290.8	5.6	96	1.6	14.1	20.0	1076	2.83	87.8	12.5	0.1	68	1.6	0.5	0.1	84	3.27	0.142	18
89261	Soil	1.2	397.6	10.1	119	1.4	24.4	20.5	2296	4.40	37.2	18.5	0.4	47	1.9	1.0	0.1	141	2.18	0.171	22

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.



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
89431	Soil	33	0.28	86	0.086	<20	1.24	0.011	0.03	<0.1	0.02	3.1	<0.1	<0.05	10	<0.5	<0.2
89432	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
89434	Soil	15	0.12	83	0.005	<20	1.63	0.013	0.02	<0.1	0.16	4.9	<0.1	0.19	1	2.5	<0.2
89435	Soil	20	0.21	125	0.028	<20	1.73	0.007	0.03	<0.1	0.03	2.1	<0.1	<0.05	10	<0.5	<0.2
89436	Soil	50	0.88	88	0.144	<20	3.43	0.010	0.06	<0.1	0.08	8.4	<0.1	<0.05	10	<0.5	<0.2
89437	Soil	29	0.57	98	0.052	<20	1.95	0.011	0.04	<0.1	0.11	6.6	<0.1	0.08	6	0.7	<0.2
89438	Soil	37	0.79	233	0.063	<20	2.83	0.014	0.06	<0.1	0.07	4.8	<0.1	<0.05	12	<0.5	<0.2
89439	Soil	27	0.51	115	0.071	<20	2.03	0.020	0.06	0.1	0.09	3.2	<0.1	0.09	8	<0.5	<0.2
89440	Soil	35	0.36	93	0.089	<20	1.51	0.011	0.04	0.2	0.08	3.6	<0.1	<0.05	9	<0.5	<0.2
89441	Soil	50	0.94	198	0.050	<20	3.00	0.009	0.10	<0.1	0.06	6.5	0.1	<0.05	12	0.5	<0.2
89442	Soil	65	0.63	116	0.143	<20	2.04	0.013	0.05	0.2	0.04	5.2	<0.1	<0.05	13	<0.5	<0.2
89443	Soil	39	0.42	90	0.050	<20	1.96	0.013	0.03	0.1	0.06	2.7	<0.1	<0.05	7	<0.5	<0.2
89444	Soil	29	0.62	93	0.062	<20	1.89	0.010	0.05	<0.1	0.02	4.7	0.1	<0.05	7	<0.5	<0.2
89445	Soil	33	0.54	205	0.040	<20	2.14	0.010	0.07	<0.1	0.05	4.8	0.1	<0.05	8	<0.5	<0.2
89446	Soil	25	0.32	106	0.080	<20	1.50	0.010	0.04	<0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
89447	Soil	23	0.22	72	0.095	<20	1.21	0.007	0.06	<0.1	0.07	3.1	<0.1	<0.05	9	<0.5	<0.2
89448	Soil	26	0.31	77	0.069	<20	1.52	0.008	0.05	0.1	0.05	3.2	<0.1	<0.05	8	<0.5	<0.2
89449	Soil	29	0.45	75	0.089	<20	2.01	0.008	0.05	<0.1	0.04	5.0	0.1	<0.05	12	<0.5	<0.2
89450	Soil	17	0.20	66	0.054	<20	1.69	0.009	0.04	<0.1	0.04	2.8	0.1	<0.05	8	<0.5	<0.2
89251	Soil	30	0.62	630	0.011	<20	2.72	0.011	0.12	0.1	0.13	3.3	0.5	<0.05	9	1.4	<0.2
89252	Soil	37	0.81	1095	0.016	<20	3.18	0.007	0.11	0.1	0.08	5.1	0.2	<0.05	9	0.8	<0.2
89253	Soil	36	0.71	358	0.069	<20	2.64	0.008	0.08	<0.1	0.05	6.7	0.1	<0.05	10	<0.5	<0.2
89254	Soil	47	0.94	593	0.023	<20	4.88	0.013	0.13	<0.1	0.09	17.9	0.4	<0.05	11	0.7	<0.2
89255	Soil	27	0.43	179	0.018	<20	2.69	0.011	0.06	<0.1	0.09	3.1	<0.1	0.11	7	0.6	<0.2
89256	Soil	22	0.20	113	0.039	<20	1.36	0.007	0.06	0.1	0.07	3.0	<0.1	<0.05	8	<0.5	<0.2
89257	Soil	47	0.66	111	0.081	<20	2.55	0.008	0.07	<0.1	0.07	9.0	0.1	<0.05	9	<0.5	<0.2
89258	Soil	119	0.82	110	0.235	<20	2.59	0.006	0.03	0.1	0.04	6.4	<0.1	<0.05	17	<0.5	<0.2
89259	Soil	34	0.63	131	0.107	<20	2.47	0.011	0.06	<0.1	0.05	5.4	<0.1	<0.05	13	<0.5	<0.2
89260	Soil	35	0.25	161	0.033	<20	2.79	0.008	0.03	<0.1	0.24	6.0	<0.1	0.09	6	3.0	<0.2
89261	Soil	54	0.76	167	0.055	<20	3.51	0.011	0.05	<0.1	0.20	15.6	0.1	0.06	9	2.4	<0.2



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Project: HL
Report Date: September 19, 2018

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CERTIFICATE OF ANALYSIS

VAN18002327.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
89262	Soil	0.8	72.5	9.8	95	0.2	21.0	18.1	556	4.54	9.6	1.2	0.6	28	0.4	0.3	0.1	152	0.62	0.052	8
89263	Soil	1.2	62.0	11.4	189	0.7	18.8	21.6	2065	4.23	10.9	1.1	0.4	45	1.4	0.4	0.1	143	1.49	0.083	7
89264	Soil	0.7	113.3	11.6	142	0.4	17.2	16.8	592	4.47	12.5	1.4	0.6	41	1.0	0.4	0.2	138	1.68	0.041	7
89265	Soil	0.8	87.5	8.4	93	0.9	14.2	13.8	1281	3.45	8.0	1.1	<0.1	62	1.3	0.5	0.1	96	2.57	0.078	8
89266	Soil	1.9	708.3	10.6	93	1.5	17.8	16.9	5641	3.73	12.0	3.4	0.3	66	2.3	0.7	0.2	144	2.50	0.169	39
89267	Soil	0.6	125.2	8.1	54	1.5	12.5	8.5	492	2.47	7.5	2.0	<0.1	63	1.5	0.3	<0.1	71	2.37	0.097	14
89268	Soil	1.9	28.2	7.7	35	0.1	12.6	6.9	151	3.65	8.2	1.1	0.2	14	0.2	0.4	0.2	155	0.16	0.039	3
89269	Soil	2.2	358.9	10.9	137	0.6	49.4	29.3	1629	5.08	24.0	1.9	0.4	59	0.7	0.4	0.2	132	1.31	0.117	28
89270	Soil	2.6	53.8	6.9	52	0.1	18.5	8.1	187	3.77	9.3	0.9	0.5	15	0.2	0.4	0.1	145	0.17	0.044	3
89271	Soil	3.8	255.9	2.9	19	2.4	14.3	5.8	786	1.14	3.5	3.9	0.1	76	0.9	3.3	<0.1	23	3.70	0.152	44
89272	Soil	1.8	15.2	8.9	22	0.3	3.3	1.5	47	0.69	1.1	<0.5	<0.1	44	0.3	0.1	0.1	37	0.59	0.046	3
89303	Soil	1.2	21.0	10.9	76	0.2	12.0	5.9	354	3.27	6.7	<0.5	0.1	18	0.4	0.3	<0.1	100	0.20	0.091	4



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CERTIFICATE OF ANALYSIS

VAN18002327.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
89262	Soil	40	0.77	157	0.072	<20	2.82	0.012	0.07	<0.1	0.07	7.1	<0.1	<0.05	11	<0.5	<0.2
89263	Soil	36	0.69	190	0.070	<20	2.93	0.011	0.07	<0.1	0.12	8.0	0.1	<0.05	10	<0.5	<0.2
89264	Soil	43	0.77	111	0.082	<20	2.68	0.013	0.06	<0.1	0.08	9.0	<0.1	<0.05	8	1.0	<0.2
89265	Soil	25	0.59	180	0.037	<20	2.21	0.010	0.05	<0.1	0.13	4.4	<0.1	0.07	7	0.9	<0.2
89266	Soil	43	0.43	193	0.030	<20	3.16	0.009	0.06	<0.1	0.25	7.6	0.1	0.05	7	2.6	<0.2
89267	Soil	23	0.28	160	0.033	<20	1.90	0.008	0.04	<0.1	0.12	3.7	<0.1	0.06	6	1.0	<0.2
89268	Soil	45	0.28	84	0.136	<20	1.34	0.010	0.04	0.1	0.04	3.2	<0.1	<0.05	9	<0.5	<0.2
89269	Soil	68	1.07	334	0.016	<20	4.59	0.010	0.10	0.1	0.08	11.3	0.2	<0.05	12	0.7	<0.2
89270	Soil	37	0.42	126	0.076	<20	1.96	0.008	0.06	0.1	0.05	5.2	<0.1	<0.05	10	<0.5	<0.2
89271	Soil	17	0.21	183	0.006	<20	1.70	0.014	0.05	<0.1	0.32	5.1	0.4	0.20	2	4.5	<0.2
89272	Soil	11	0.15	109	0.019	<20	1.09	0.010	0.05	<0.1	0.10	0.6	<0.1	<0.05	6	<0.5	<0.2
89303	Soil	27	0.36	124	0.067	<20	1.86	0.008	0.05	0.2	0.05	2.7	<0.1	<0.05	8	<0.5	<0.2



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Project: HL
Report Date: September 19, 2018

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QUALITY CONTROL REPORT **VAN18002327.1**

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
89406	Soil	2.3	184.8	7.9	107	1.3	17.7	9.8	1044	2.51	6.6	0.6	0.2	95	1.4	0.7	0.2	63	2.88	0.122	19
REP 89406	QC	2.4	186.7	8.2	111	1.3	19.1	10.5	969	2.45	6.6	1.2	0.2	105	1.4	0.6	0.2	61	2.91	0.125	19
89444	Soil	2.3	34.9	7.1	61	<0.1	16.6	9.0	282	3.64	8.9	1.9	0.5	18	0.2	0.3	0.1	108	0.23	0.021	4
REP 89444	QC	2.4	36.5	7.1	64	<0.1	15.6	8.4	255	3.42	8.5	1.8	0.5	17	0.1	0.3	0.1	99	0.23	0.022	4
Reference Materials																					
STD DS11	Standard	14.7	149.9	140.8	321	1.6	79.3	14.6	1013	3.17	47.6	66.9	8.3	63	2.7	7.6	12.2	50	0.98	0.070	20
STD DS11	Standard	15.8	150.1	141.2	341	1.7	81.8	14.3	1089	3.22	45.5	61.2	7.8	67	2.6	7.5	12.0	48	1.01	0.082	20
STD OREAS45EA	Standard	1.5	656.9	14.4	29	0.2	352.8	51.4	372	21.36	11.9	50.5	10.5	4	<0.1	0.3	0.4	279	0.03	0.025	7
STD OREAS45EA	Standard	1.5	685.8	14.2	30	0.2	357.7	51.1	411	22.09	11.5	46.6	10.4	4	<0.1	0.2	0.3	300	0.03	0.028	7
STD OREAS45EA Expected		1.6	709	14.3	31.4	0.26	381	52	400	22.65	11.4	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029	7.06
STD DS11 Expected		13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701	18.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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.



QUALITY CONTROL REPORT

VAN18002327.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
89406	Soil	28	0.40	308	0.011	<20	2.14	0.010	0.08	0.1	0.13	4.8	0.1	0.08	6	0.5	<0.2
REP 89406	QC	26	0.41	335	0.011	<20	1.96	0.009	0.07	0.1	0.13	5.0	0.1	0.07	6	0.5	<0.2
89444	Soil	29	0.62	93	0.062	<20	1.89	0.010	0.05	<0.1	0.02	4.7	0.1	<0.05	7	<0.5	<0.2
REP 89444	QC	30	0.56	96	0.060	<20	1.87	0.007	0.05	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS11	Standard	63	0.83	394	0.094	<20	1.12	0.073	0.39	2.9	0.24	3.2	5.1	0.25	5	2.2	4.6
STD DS11	Standard	63	0.82	428	0.093	<20	1.20	0.069	0.41	2.6	0.27	3.3	5.0	0.24	5	2.1	4.7
STD OREAS45EA	Standard	867	0.10	130	0.095	<20	3.00	0.021	0.05	<0.1	<0.01	75.2	<0.1	<0.05	13	1.3	<0.2
STD OREAS45EA	Standard	859	0.09	147	0.097	<20	2.71	0.017	0.05	<0.1	0.01	70.9	<0.1	<0.05	12	1.1	<0.2
STD OREAS45EA Expected		849	0.095	148	0.0984		3.32	0.02	0.053			78	0.072	0.036	12.4	0.78	0.1
STD DS11 Expected		61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Rob Cameron
Receiving Lab: Canada-Vancouver
Received: August 20, 2018
Report Date: September 19, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN18002327A.1

CLIENT JOB INFORMATION

Project: HL
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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
DY060	1	Dry at 60C			VAN
SS230	1	Dry at 60C sieve 100g to -230 mesh			VAN
AQ200	1	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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.



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Report Date: September 19, 2018

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CERTIFICATE OF ANALYSIS

VAN18002327A.1

Method	AQ200																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Analyte	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
89301	Silt	1.6	545.5	7.8	96	0.6	45.8	31.5	855	3.46	9.9	14.4	0.2	76	0.8	0.8	0.4	95	2.10	0.130	11



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CERTIFICATE OF ANALYSIS

VAN18002327A.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
89301 Silt	62	1.08	110	0.047	<20	2.86	0.015	0.07	0.2	0.14	8.8	0.3	0.08	8	2.9	<0.2	



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QUALITY CONTROL REPORT

VAN18002327A.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Reference Materials																					
STD DS11 Standard	15.8	150.1	141.2	341	1.7	81.8	14.3	1089	3.22	45.5	61.2	7.8	67	2.6	7.5	12.0	48	1.01	0.082	20	
STD OREAS45EA Standard	1.5	685.8	14.2	30	0.2	357.7	51.1	411	22.09	11.5	46.6	10.4	4	<0.1	0.2	0.3	300	0.03	0.028	7	
STD OREAS45EA Expected	1.6	709	14.3	31.4	0.26	381	52	400	22.65	11.4	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029	7.06	
STD DS11 Expected	13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701	18.6	
BLK Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	



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QUALITY CONTROL REPORT

VAN18002327A.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																	
STD DS11 Standard	63	0.82	428	0.093	<20	1.20	0.069	0.41	2.6	0.27	3.3	5.0	0.24	5	2.1	4.7	
STD OREAS45EA Standard	859	0.09	147	0.097	<20	2.71	0.017	0.05	<0.1	0.01	70.9	<0.1	<0.05	12	1.1	<0.2	
STD OREAS45EA Expected	849	0.095	148	0.0984		3.32	0.02	0.053			78	0.072	0.036	12.4	0.78	0.1	
STD DS11 Expected	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56	
BLK Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	



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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

Submitted By: Rob Cameron
Receiving Lab: Canada-Vancouver
Received: August 20, 2018
Report Date: October 11, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN18002328.1

CLIENT JOB INFORMATION

Project: HL
Shipment ID:
P.O. Number
Number of Samples: 10

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	10	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA330-Au	10	Fire assay fusion Au by ICP-ES	30	Completed	VAN
EN002	10	Environmental disposal charge-Fire assay lead waste			VAN
MA250	10	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.



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Report Date: October 11, 2018

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Part: 1 of 4

CERTIFICATE OF ANALYSIS

VAN18002328.1

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	
89302	Rock	0.63	<2	1.48	3.1	3.05	14.2	<20	4.5	5.9	293	1.61	0.5	1.1	1.7	768	<0.02	0.19	<0.04	54	1.13
89304	Rock	0.49	3	0.23	85.6	0.73	60.6	81	136.2	42.2	1266	7.34	1.9	0.5	0.4	394	<0.02	1.34	0.10	269	8.33
89305	Rock	0.61	3	2.72	241.1	16.82	45.5	323	3.4	8.0	370	1.38	5.8	0.7	1.1	258	0.28	0.45	0.09	55	1.22
89306	Rock	0.56	2	2.80	33.2	16.15	31.6	128	4.3	2.8	151	3.06	61.1	0.9	1.3	113	0.25	1.78	<0.04	28	0.10
89307	Rock	0.75	3	0.69	46.3	3.81	22.0	94	24.2	11.2	529	2.35	1.9	1.2	2.7	557	<0.02	1.06	0.14	59	3.35
89308	Rock	0.83	18	5.36	2170.6	2.90	36.6	4096	13.2	11.5	314	2.84	0.5	1.3	2.0	548	0.18	0.30	0.19	84	0.73
89309	Rock	0.44	<2	0.18	13.5	3.39	24.2	22	5.3	6.0	350	1.97	0.9	0.5	1.4	948	<0.02	0.25	0.05	57	2.19
89310	Rock	1.02	3	65.08	170.2	5.12	36.3	191	4.0	4.5	302	2.03	3.2	1.7	1.5	442	<0.02	1.94	1.57	65	0.79
89311	Rock	1.24	38	0.49	142.3	1.28	64.0	98	38.4	42.8	1284	8.46	5.3	0.6	0.8	345	<0.02	1.36	<0.04	382	6.67
89312	Rock	0.21	5	3.01	110.6	2.94	22.9	63	3.5	13.3	264	2.41	3.1	1.1	1.6	959	<0.02	0.46	0.05	67	1.84



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Vancouver British Columbia V6E 3V6 Canada

Project: HL
Report Date: October 11, 2018

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CERTIFICATE OF ANALYSIS

VAN18002328.1

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	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
89302	Rock	0.050	6.2	6	0.64	1544	0.174	7.71	4.117	1.61	1.7	23.2	0.4	<1	3.3	<0.04	5.3	14.44	1.9	6.8	1.3
89304	Rock	0.106	4.0	517	6.60	249	0.407	5.64	1.524	0.84	1.1	18.1	0.4	<1	41.9	0.19	11.9	8.42	1.3	6.3	1.5
89305	Rock	0.075	4.0	5	0.57	376	0.128	8.03	6.489	0.65	5.7	34.8	0.6	<1	4.7	<0.04	4.4	10.67	1.6	6.5	1.5
89306	Rock	0.025	3.5	10	0.14	359	0.126	4.61	5.024	0.18	0.3	92.6	1.2	1	2.7	0.07	7.2	8.37	1.2	4.5	0.9
89307	Rock	0.042	5.2	21	0.81	1389	0.178	7.06	2.926	1.90	3.4	19.6	0.4	<1	4.7	0.05	4.7	10.78	1.3	5.2	0.9
89308	Rock	0.073	9.9	7	1.03	923	0.218	6.77	3.413	1.97	3.4	16.4	1.4	1	4.6	0.19	6.4	21.81	2.9	10.1	2.0
89309	Rock	0.068	8.7	5	0.72	1170	0.234	7.54	3.999	1.36	1.3	10.8	0.8	1	4.0	0.06	6.1	19.66	2.6	10.3	2.0
89310	Rock	0.063	9.5	5	0.51	734	0.150	7.43	3.470	2.27	9.0	11.8	1.1	1	3.5	0.36	4.7	19.52	2.7	9.8	1.7
89311	Rock	0.108	7.3	75	3.43	277	0.566	7.61	2.505	0.76	0.6	26.5	0.8	<1	41.5	0.04	18.5	15.88	2.3	10.0	2.8
89312	Rock	0.079	7.8	6	0.80	112	0.258	8.40	4.514	1.65	1.7	32.7	1.3	<1	4.1	0.58	6.8	18.99	2.5	10.8	2.1



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CERTIFICATE OF ANALYSIS

VAN18002328.1

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	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	
89302	Rock	0.3	1.2	0.2	0.8	0.2	0.4	<0.1	0.6	<0.1	0.91	7.0	27.9	0.2	2.46	0.9	19.71	<0.01	<0.002	<0.3	0.06
89304	Rock	0.6	2.0	0.3	1.9	0.4	1.2	0.2	1.1	0.2	0.65	6.6	22.7	0.2	2.61	1.7	11.06	0.04	<0.002	<0.3	1.67
89305	Rock	0.3	1.0	0.2	0.9	0.2	0.5	<0.1	0.5	<0.1	1.08	4.3	10.5	<0.1	1.64	0.3	17.68	<0.01	0.003	<0.3	0.08
89306	Rock	0.1	0.9	0.2	1.2	0.3	0.9	0.2	1.1	0.2	2.61	18.3	1.1	0.5	6.23	0.5	9.83	0.01	<0.002	<0.3	<0.05
89307	Rock	0.2	1.0	0.2	1.0	0.2	0.5	<0.1	0.6	<0.1	0.90	8.3	38.7	0.2	2.45	1.9	13.90	<0.01	<0.002	<0.3	0.21
89308	Rock	0.6	1.5	0.2	1.2	0.2	0.6	<0.1	0.7	<0.1	0.60	8.6	37.6	0.1	2.12	0.6	17.60	0.24	<0.002	2.7	0.20
89309	Rock	0.7	1.6	0.2	1.1	0.2	0.6	<0.1	0.7	<0.1	0.54	6.7	17.2	0.1	2.40	0.7	19.74	0.01	<0.002	<0.3	0.18
89310	Rock	0.3	1.4	0.2	0.8	0.2	0.5	<0.1	0.5	<0.1	0.56	5.9	57.9	<0.1	1.67	1.6	19.57	0.07	0.007	<0.3	0.61
89311	Rock	1.0	2.9	0.5	3.4	0.7	1.9	0.2	1.6	0.2	1.02	5.4	16.3	0.2	3.56	0.7	16.70	0.07	<0.002	<0.3	0.76
89312	Rock	0.8	1.5	0.2	1.5	0.3	0.7	<0.1	0.6	<0.1	1.23	5.2	19.5	0.2	2.97	0.5	21.29	<0.01	<0.002	0.3	0.21



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Project: HL
Report Date: October 11, 2018

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CERTIFICATE OF ANALYSIS

VAN18002328.1

	Method	MA250
	Analyte	Ti
	Unit	ppm
	MDL	0.05
89302	Rock	0.12
89304	Rock	0.21
89305	Rock	0.15
89306	Rock	0.52
89307	Rock	0.26
89308	Rock	0.20
89309	Rock	0.13
89310	Rock	0.38
89311	Rock	0.10
89312	Rock	0.09



QUALITY CONTROL REPORT

VAN18002328.1

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																					
89304	Rock	0.49	3	0.23	85.6	0.73	60.6	81	136.2	42.2	1266	7.34	1.9	0.5	0.4	394	<0.02	1.34	0.10	269	8.33
REP 89304	QC		2																		
89310	Rock	1.02	3	65.08	170.2	5.12	36.3	191	4.0	4.5	302	2.03	3.2	1.7	1.5	442	<0.02	1.94	1.57	65	0.79
REP 89310	QC		2																		
Reference Materials																					
STD OREAS25A-4A	Standard			2.32	36.4	24.63	46.1	<20	46.8	8.5	510	6.76	9.6	2.8	15.4	54	<0.02	0.71	0.34	166	0.29
STD OREAS45E	Standard			2.32	768.4	18.00	49.8	280	479.1	58.6	597	23.52	18.0	2.5	12.8	19	<0.02	1.03	0.32	325	0.06
STD OXC145	Standard		212																		
STD OXC145	Standard		220																		
STD OXC145	Standard		208																		
STD OXH139	Standard		1378																		
STD OXH139	Standard		1323																		
STD OXH139	Standard		1273																		
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																		
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.05	<0.1	<0.02	<0.2	<20	<0.1	<0.2	<1	<0.01	0.6	<0.1	<0.1	<1	<0.02	<0.02	<0.04	<1	<0.01
BLK	Blank		9																		
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.13	2.1	2.33	31.1	<20	0.5	3.8	632	2.04	2.6	1.1	2.6	222	<0.02	0.07	<0.04	35	1.52
ROCK-VAN	Prep Blank		<2	0.94	1.9	2.42	31.9	<20	0.6	4.2	642	2.14	1.8	1.1	2.7	222	<0.02	0.04	<0.04	36	1.51



QUALITY CONTROL REPORT

VAN18002328.1

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																					
89304	Rock	0.106	4.0	517	6.60	249	0.407	5.64	1.524	0.84	1.1	18.1	0.4	<1	41.9	0.19	11.9	8.42	1.3	6.3	1.5
REP 89304	QC																				
89310	Rock	0.063	9.5	5	0.51	734	0.150	7.43	3.470	2.27	9.0	11.8	1.1	1	3.5	0.36	4.7	19.52	2.7	9.8	1.7
REP 89310	QC																				
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	23.3	120	0.34	147	1.013	9.23	0.133	0.49	2.0	158.0	4.1	1	12.9	<0.04	11.5	49.21	5.3	16.8	3.4
STD OREAS45E	Standard	0.035	12.0	964	0.15	260	0.542	6.81	0.060	0.35	1.1	97.0	1.4	<1	93.0	<0.04	8.6	25.91	2.7	9.2	2.3
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	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																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.008	<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																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.039	12.8	2	0.48	760	0.207	6.96	3.420	1.61	0.3	52.5	0.9	<1	6.7	<0.04	17.0	24.66	3.0	10.8	2.2
ROCK-VAN	Prep Blank	0.039	12.0	3	0.49	752	0.208	7.00	3.490	1.67	0.3	51.6	0.7	1	7.0	<0.04	16.2	23.53	2.8	10.7	2.3



QUALITY CONTROL REPORT

VAN18002328.1

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																					
89304	Rock	0.6	2.0	0.3	1.9	0.4	1.2	0.2	1.1	0.2	0.65	6.6	22.7	0.2	2.61	1.7	11.06	0.04	<0.002	<0.3	1.67
REP 89304	QC																				
89310	Rock	0.3	1.4	0.2	0.8	0.2	0.5	<0.1	0.5	<0.1	0.56	5.9	57.9	<0.1	1.67	1.6	19.57	0.07	0.007	<0.3	0.61
REP 89310	QC																				
Reference Materials																					
STD OREAS25A-4A	Standard	0.6	2.7	0.5	2.3	0.4	1.2	0.2	1.3	0.3	4.47	36.8	61.6	1.5	20.87	6.1	26.88	0.05	0.003	2.5	<0.05
STD OREAS45E	Standard	0.6	1.9	0.4	1.9	0.4	1.1	0.2	1.3	0.2	2.85	6.3	21.6	0.6	6.25	1.2	16.77	0.09	<0.002	2.1	0.17
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	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																					
BLK	Blank																				
BLK	Blank																				
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	<0.02	<0.01	<0.002	<0.3	<0.05
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.7	2.0	0.4	2.6	0.6	1.7	0.3	2.0	0.3	1.64	2.4	32.2	0.4	5.32	0.3	13.06	0.01	<0.002	0.6	<0.05
ROCK-VAN	Prep Blank	0.6	2.0	0.4	2.7	0.6	1.8	0.2	1.8	0.3	1.51	2.4	31.5	0.4	5.32	0.3	12.20	0.02	<0.002	0.4	0.06



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Client: Commander Resources Ltd.
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Vancouver British Columbia V6E 3V6 Canada

Project: HL
Report Date: October 11, 2018

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QUALITY CONTROL REPORT VAN18002328.1

Method	MA250	
Analyte	Tl	
Unit	ppm	
MDL	0.05	
Pulp Duplicates		
89304	Rock	0.21
REP 89304	QC	
89310	Rock	0.38
REP 89310	QC	
Reference Materials		
STD OREAS25A-4A	Standard	0.34
STD OREAS45E	Standard	0.16
STD OXC145	Standard	
STD OXC145	Standard	
STD OXC145	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		
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	<0.05
BLK	Blank	
Prep Wash		
ROCK-VAN	Prep Blank	0.16
ROCK-VAN	Prep Blank	0.17