

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 and prospecting

TOTAL COST: \$10,555.07

AUTHOR(S): Marty Huber, Bernie Kreft

SIGNATURE(S):



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

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5660788

PROPERTY NAME: Hu

CLAIM NAME(S) (on which the work was done): 1051520, 1051522

COMMODITIES SOUGHT: Cu, Mo, Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104J 013

MINING DIVISION: Liard

NTS/BCGS: 104j08/104j039

LATITUDE: 58 ° 20 ' _____ " LONGITUDE: 130 ° 15 ' _____ " (at centre of work)

OWNER(S):

1) Bernie Kreft 2) _____

MAILING ADDRESS:

1 Locust Place, Whitehorse YT, Y1A 5G9

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

1) Kestrel Gold Inc 2) _____

MAILING ADDRESS:

1217 Centre St NW, Calgary, AB T2E 2R3

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

copper, gold, intrusive, chalcopyrite, pyrite, skarn, porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 3736, 3737, 4399, 19009, 21707, 29434

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	15 rocks, 51 soils, 30 biogeochem	_____	10,555.07
Silt	_____	_____	_____
Rock	_____	_____	_____
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:	\$10,555.07

Assessment Report on 2017 Surface work

**On the
Dease Porphyry Project
Hu Block**

Liard Mining Division
Northwestern British Columbia

427,785mE and 6,468,120mN
UTM Nad83 Zone 9N
NTS: 104J08

For work completed on claims:
1051520, 1051522

Operated by and recorded to
Bernie Kreft



By
Marty Huber, P.Geo.
January 31, 2018

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Introduction and Terms of Reference

Bernie Kreft (“Kreft”) was engaged by Kestrel Gold Inc. (“Kestrel”) to carry out surface exploration on the Dease Porphyry Project, Hu Block (“Hu” or the “Property”) in British Columbia in 2017. Professional Geologist Marty Huber (the “Author”), was engaged by Kreft to report on the exploration program. This technical report (the “Report”) describes the 2017 work, which consisted of geochemical soil, rock, and biochemical sampling. The goal of the work was to define geochemical and biochemical trends that may lead to gold and copper mineralization. The main purpose of the Report is to complete statutory assessment work filings required under British Columbia mining regulations. It is not intended and does not fully comply with National Instrument 43-101.

Location, Property Information and Access

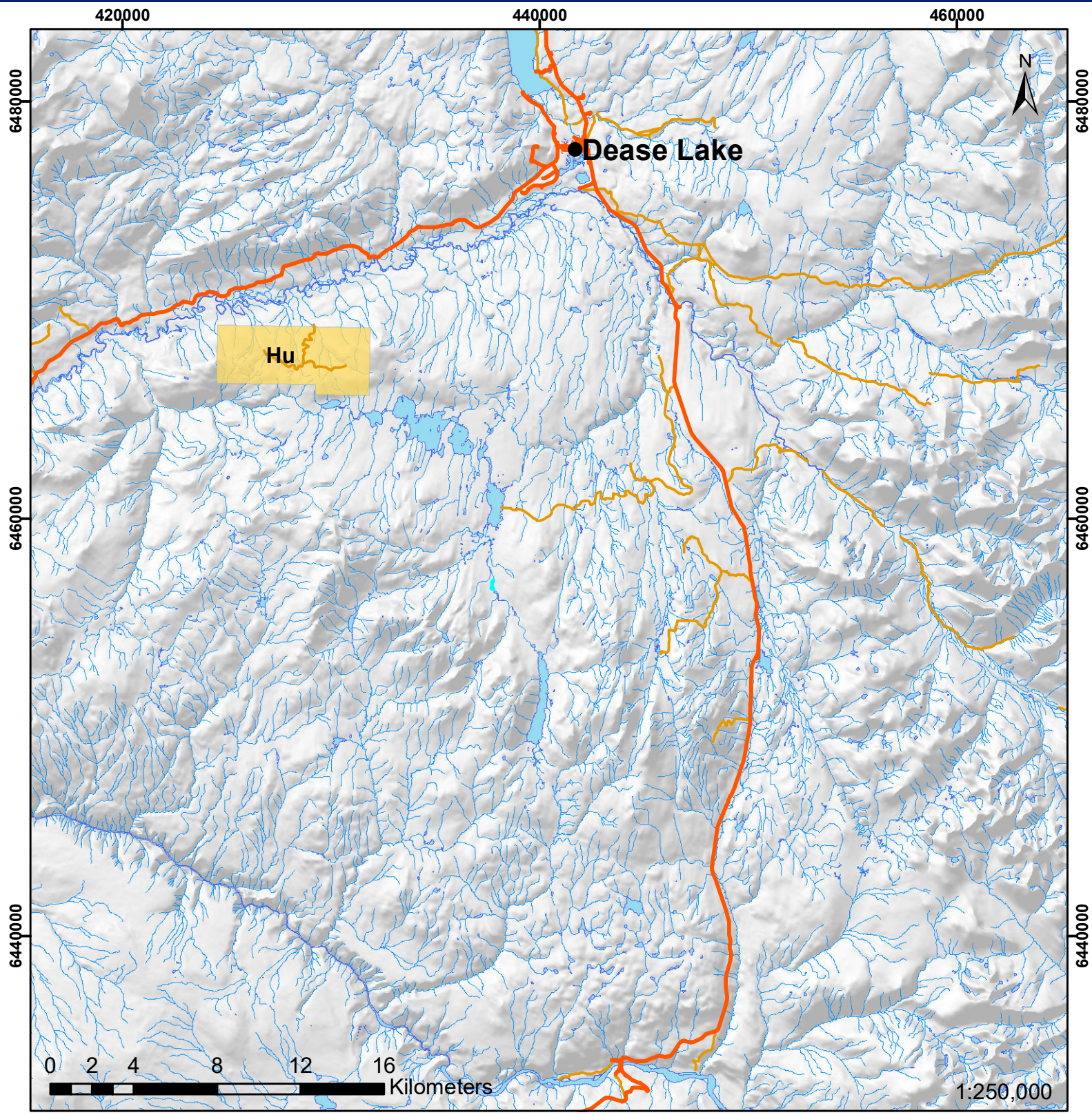
The Hu property covers an area of 1,835 hectares within the Liard Mining Division of British Columbia. It is located approximately 15 km southwest of the village of Dease Lake (Figure 1). The approximate centre of the property is described by 427,785mE and 6,468,120mN UTM Nad83 Zone 9N on N.T.S. sheet 104J08 (Dease Lake). The Hu claims cover the headwaters of Stain Creek, Hu Creek and West Branch Creek (Figure 2). The Property includes 5 contiguous, un-surveyed mineral titles (Figure 2) more fully described in Table 1 below.

Table 1 - List of Claims

<u>Title</u>	<u>Claim Name</u>	<u>Owner</u>	<u>Good To</u>	<u>Area (ha)</u>
1046058	HU	114661 (100%)	2019/JAN/07	152.88
1051520	HU WEST	114661 (100%)	2019/JAN/07	203.82
1051521	HU FAR WEST	114661 (100%)	2019/JAN/07	67.94
1051522	HU GRANDE	114661 (100%)	2019/JAN/07	1409.89
1051599	HU EAST	114661 (100%)	2019/JAN/07	322.8

The Property can be accessed by Highway #51 (Telegraph Creek Road) which runs northeast-southwest, north of the Property roughly 1 – 3 km (Figure 1). The Property can be further accessed by gravel roads and ATV trails which transect large portions of the Property. A gated spur road extends from Highway 51 to the Hluey Lakes power generating facility located on Tsenaglode Creek on the west side of the property. This station is operated by Capstone Infrastructure and generates 3 MW of power which is sold to BC Hydro for use in the community of Dease Lake. Access through the gate is achieved by calling BC Hydro. The remaining edges of the Property are best accessed with helicopter, which can be supported from Dease Lake Airport.

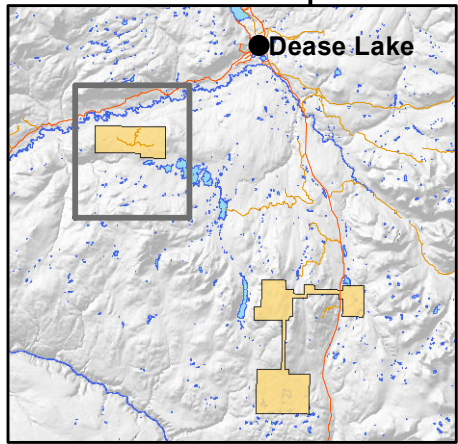
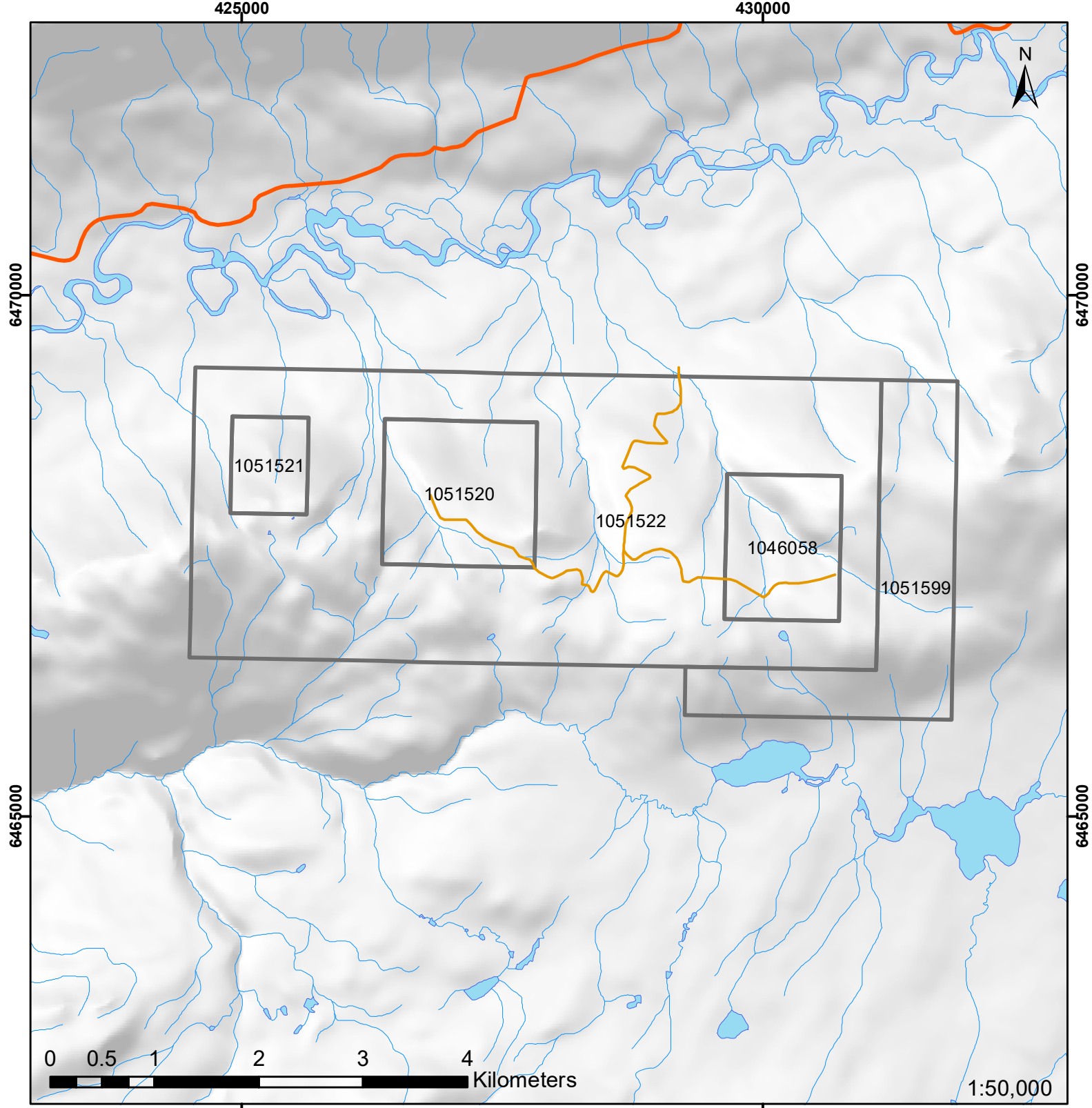
The Property is situated in the Hotailuh Range of the Tanzilla Plateau, with elevation on the property ranging from 800m above sea level along the Tanzilla River valley and up to 1430m on the eastern side of the Property. Much of the area is sub-alpine, forested with balsam fir, pine and spruce at higher elevations and alder at lower elevations. Tree line is approximately 1500 m elevation. Temperature ranges from -13°C in the winter to 10.5°C in the summer. Annual precipitation in the area averages 425 mm with 265 mm rain and 425 cm snow (Environment Canada Climate Weather)



**Dease Porphyry Project
North Block
Figure 1 - Location**

- Communities
- Roads
- Trails
- Hu Property

Coordinate System: WGS 1984 UTM Zone 9N
 Projection: Transverse Mercator
 Datum: WGS 1984



-  Roads
-  Trails
-  Hu Block Claims

Dease Porphyry Project
Figure 2 - Hu Block

Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984

Previous Work

The following table lists all known exploration history in the area of the Dease Porphyry Project, Hu Block. The data was compiled using the BC Ministry of Energy, Mines and Petroleum Resources Assessment Report Indexing System (ARIS).

Table 2 - Exploration History

Assessment Report #	Year	Operator	Author	Work completed
03736	1971	Union Miniere Expl. & Mining Corp.	Burgoyne, A.A.	Geochemical, Ground Magnetics, and VLF
03737	1972	Tourigan Min. Ex.	Scott, A.R.	Geophysics I.P.
04399	1973	Amax Ex.	Sellmer, H., Depaoli, G.	Geologicals, Geochemical and Geophysical
06422	1977	Wesfrob Mines	McDougall, J.J., Wilson, J.	Geophysical
19009	1988	Duke Minerals Ltd.	Holcapek, F.	Geochemical and Geological
21707	1991	Awmack, Henery James	Kasper, Bruno	Geologicals and Geochemical
33659A	2012	Quartz Mountain Resources Ltd.	Andrzejewski, A. Bui, P.	Geochemical and Geophysics
33659B	2013	Quartz Mountain Resources Ltd.	Walcott, P.	Geophysics

The following exploration history 1969 to 1991 has been summarized from Kasper's (1991) report on the Huey and Duey Claims. Work completed in 2012 by Quartz Mountain Resources Ltd. ("Quartz Mountain") was referenced from Andrzejewski and Bui (2012) report on the Galaxie property.

The first recorded work in the area was conducted in 1969 by Tournigan Mining Ex. Ltd. who staked a prominent gossan on Stain Creek. Silver Standard mines optioned the property that year and built extensive roads and excavated 2,425 metres of trenches. This was followed by a soil geochemical survey the following year.

In 1972 Tournigan completed an induced polarization survey on the property which indicated a good relationship with copper and high chargeability. Amax Exploration completed mapping, soil and silt geochemical sampling and geophysical surveys on the property later that year.

In 1990 the Hu claims were staked by Henery Awmack to cover the Hu copper showing. Work on the claims followed in 1991 with geological mapping, prospecting, silt sampling and soil sampling. The work most notably identified a 100 metre long section along Stain Creek that exhibits copper-gold mineralization related to intense fracturing and faulting with accompanying intense potassic alteration (Kasper, 1991).

In 2012 Quartz Mountain conducted several exploration surveys over the block which included: stream sediment sampling, soil sampling, rock sampling and an IP geophysical survey. Soil grids completed over the block revealed a 700 by 1200 metre Cu, Mo and Ag anomaly west of Hu Creek. Andrzejewski and Bui 2012 noted that this soil anomaly was coincident in both size and location with a chargeability anomaly exposed from the IP survey. Two significant rock samples were collected west of W. Branch Creek from chalcopyrite, pyrite, chlorite, quartz, carbonate veins hosted in aphanitic andesite flows and sedimentary rocks; they returned approximately 7.07 % Cu and 0.25 % Cu. It was reported by

Andrzejewski and Bui that these strong copper values from selected veins hosted in Stuhini Group rocks suggest that the strong chargeability anomalies is directly related to sulfides within the rocks. The work also returned several elevated Cu values from stream sediment samples (Andrzejewski and Bui, 2012).

Regional Geology

The Dease Porphyry Project is located on the northern border of the Stikine terrane of the Canadian Cordillera, a volcanic arc terrane (Figure 3). The Stikine Terrane is comprised of Carboniferous to Middle Jurassic island arc volcanic and sedimentary rocks of the Asitka, Takla and Hazelton groups and the related Topley, Stern Creek, and Spike Peak plutonic suites (Schiarizza and MacIntyre 1999). Devonian to Permian arc volcanic rocks and platform carbonates of the Stikine Assemblage form the basement to Stikine. They are overlain by the Triassic Stuhini Group, mafic to intermediate volcanic rocks, and Early to Middle Jurassic Hazelton Group, intermediate volcanic rocks (Marsden and Thorkelson, 1992).

The Stikine terrane was intruded by large granitoid plutons during the Late Triassic to Middle Jurassic; these are exposed in an arcuate belt referred to as the Stikine arch (Robert et al. 2012). The northern part of the Stikine terrane (Dease Lake area) is intruded by several small, Late Jurassic to Cretaceous plutons (Anderson and Bevier, 1992).

The northern Stikine terrane contains several Late Triassic to Early Jurassic porphyry deposits with notable examples including Galore Creek, Shaft Creek, KSM, Red Chris, Fin and Kemess (Robert et al. 2012). The Dease Porphyry Project is situated on the Stikine magmatic arch which hosts many of these deposits.

Property Geology

The following geology descriptions were referenced from Mihalyuk et al. (1996) which offers the most recent regional mapping and compilation work in NW British Columbia (Open file 1996-11).

The property is primarily underlain by northwest striking Upper Triassic volcanic rocks and sedimentary rocks of the Stuhini Group. They are described as an undivided volcanic strata: variegated mafic to intermediate lapilli tuff, lesser ash, breccia and tuffite. Mainly green and maroon; massive, aphyric or plagioclase and augite-phyric and coarse-bladed plagioclase porphyry flows and sills (uTrSv). These are intruded by Jurassic age diorite (Jdr) and syenitic to monzonitic (Jsy) intrusive rocks at the centre of the Property (Figure 4).

Mineralization

The most prominent mineralization on the property noted by Kasper (1991) occurs as chalcopyrite and pyrite in Stain Creek. The mineralization is confined to fault zones and intensely fractured areas along a 100 metre exposure on Stain Creek. These fault and fracture are surrounded by moderate to intense potassic alteration. The potassic altered fault zones are hosted within the intrusive rocks or Stuhini Group rocks or along their contacts, they contain abundant pyrite with or without chalcopyrite and malachite. Copper mineralization has also been noted in a trench north of West Branch Creek and within float material in the lower part of Hu Creek (Kasper, 1991).

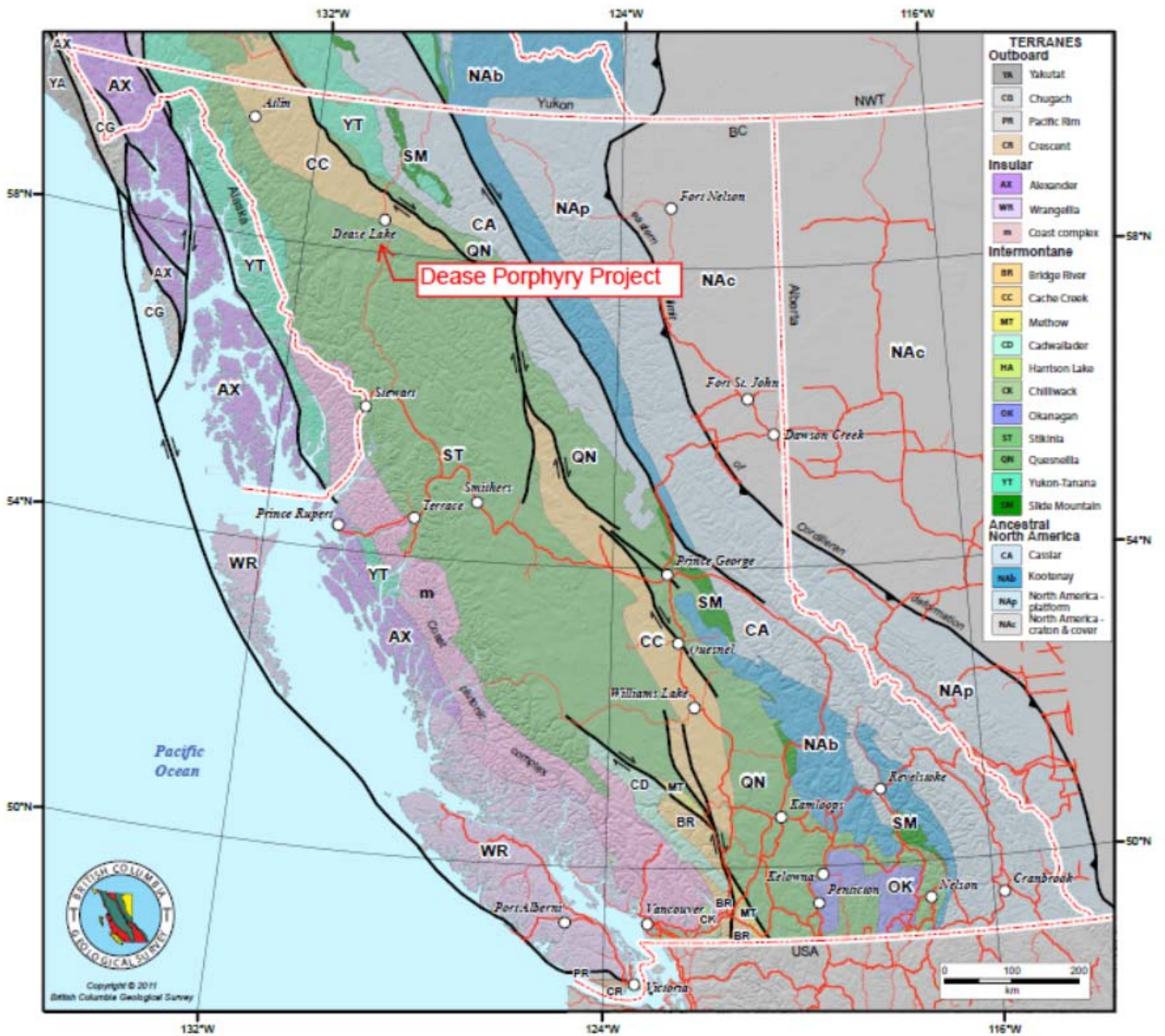
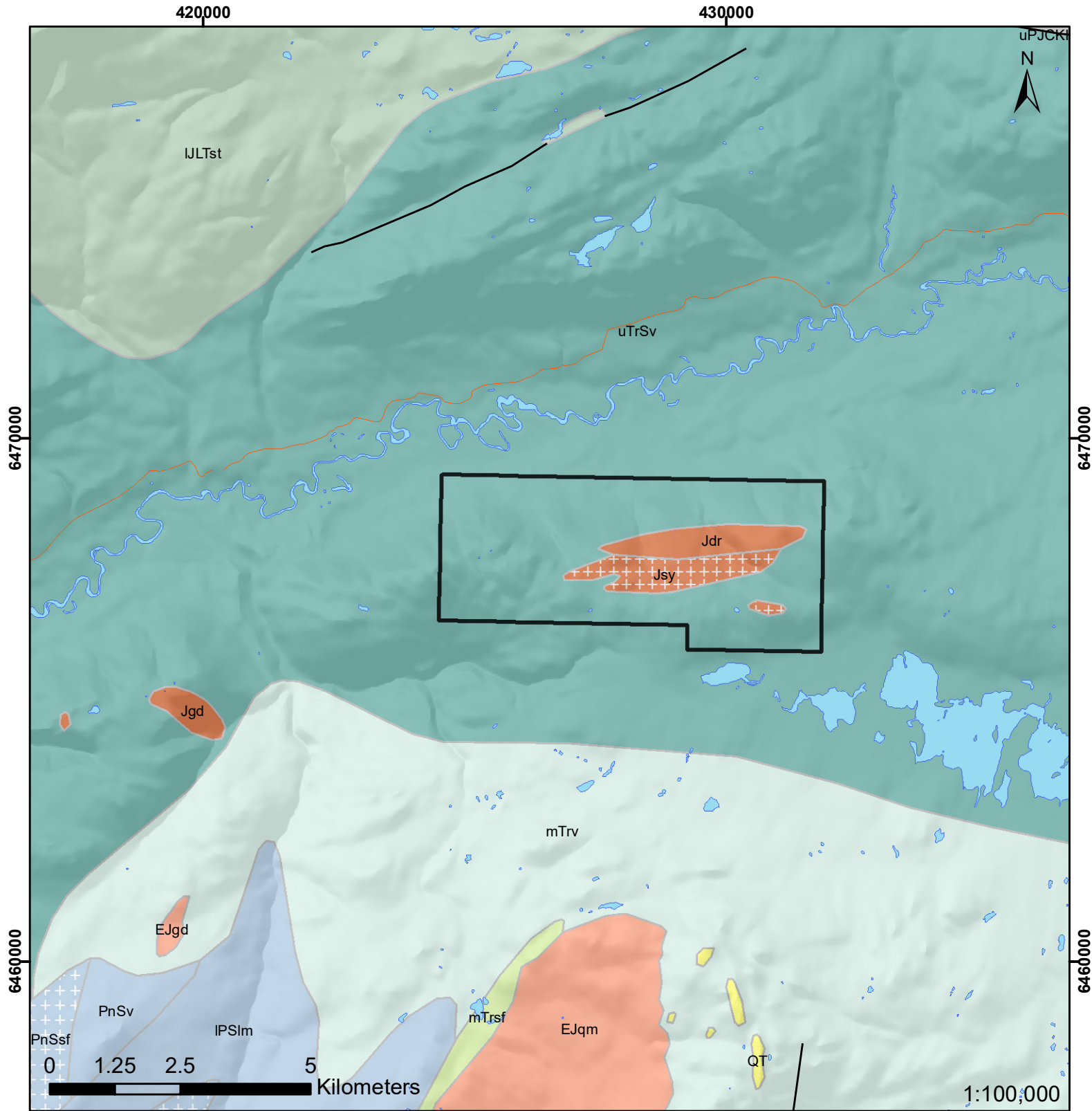


Figure 3 – British Columbia Terranes (British Columbia Geological Survey, 2011)



Geology Legend - Figure 4b



- Faults
- Roads
- ▭ Dease Porphyry Project

Geology From:
British Columbia Geological Survey
(Massey et al., 2005, BC)


Dease Porphyry Project
Figure 4 - Bedrock Geology

Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984


Pleistocene to Holocene

 QT *Bimodal volcanic rocks*

Paleocene to Eocene

 PeEfp *Feldspar porphyritic intrusive rocks*


Cretaceous

 luKSusc *Coarse clastic sedimentary rocks*


Jurassic


 Jdr *Dioritic intrusive rocks*

 Jgd *Granodioritic intrusive rocks*

 Jsy *Syenitic to monzonitic intrusive rocks*

Early Jurassic

 EJqm *Quartz monzonitic intrusive rocks*

 EJgd *Granodioritic intrusive rocks*

Lower Jurassic

 IJLlst *Argillite, greywacke, wacke, conglomerate turbidites*

 IJLTst *Argillite, greywacke, wacke, conglomerate turbidites*

Upper Triassic to Lower Jurassic

 uTrJv *Undivided volcanic rocks*

Upper Triassic

 uTrSls *Limestone bioherm/reef*

 uTrSs *Undivided sedimentary rocks*

 uTrSsv *Marine sedimentary and volcanic rocks*


 uTrSv *Undivided volcanic rocks*

Late Triassic

 LTrgb *Gabbroic to dioritic intrusive rocks*


 LTrdr *Dioritic intrusive rocks*


 LTrqd *Quartz dioritic intrusive rocks*


 LTrqm *Quartz monzonitic intrusive rocks*

 LTrum *Ultramafic rocks*


Middle Triassic

 MJTSqm *Quartz monzonitic intrusive rocks*

 mTrsf *Mudstone, siltstone, shale fine clastic sedimentary rocks*

 mTrv *Undivided volcanic rocks*

Lower Triassic to Middle Triassic

 lmTrsf *Mudstone, siltstone, shale fine clastic sedimentary rocks*

Upper Permian to Jurassic

 uPJCKI *Undivided sedimentary rocks*


Upper Permian to Lower Triassic

 uPTrK *Undivided volcanic rocks*

Lower Permian


 IPSlm *Limestone, marble, calcareous sedimentary rocks*

Pennsylvanian

 PnSsf *Mudstone, siltstone, shale fine clastic sedimentary rocks*

 PnSv *Undivided volcanic rocks*

Upper Mississippian to Permian

 uMPCum *Ultramafic rocks*

Geology From:
Ministry of Energy, Mines
and Petroleum Resources
BC Digital Geology
(Massey et al., 2005)



Geological Legend
Figure - 5b
January 26, 2018

2017 Exploration

Surface exploration on the property, including travel to and from Whitehorse, Yukon, was completed between July 21 and July 30, 2017 for a total of 10 man days. The crew included four Whitehorse based prospectors; Bernie Kreft, Jarret Kreft, Justin Kreft and Joel Wynnyk. Work was primarily completed with truck set outs from Northway Motor Inn in Dease Lake; however one day required helicopter support which was contracted by Lakelse Air. Work was completed in conjunction with the nearby Dease Porphyry Project, South Block (roughly 20 km southeast). Travel, food, and lodging costs were prorated based on man days spent on each project. Samples from both projects were submitted as one job and contain results from both projects on one certificate; costs were prorated on a per sample basis. Final analytical results were received on September 11, 2017. The Author compiled the field data into digital maps and wrote this Report up to January 31, 2018. A detailed Statement of Work is included herein as Appendix A.

Rock Sampling

A total of 15 rocks were collected over the property. Sample locations were tagged in field using flagging inscribed with the sample code. Sample descriptions were recorded in field with hand written notes and locations recorded with Garmin GPS receivers in map datum UTM Nad83 Zone 9N. Sample Locations (Figure 5) and descriptions are included as Appendix B. Rock samples were placed in industry standard poly rock bags with the appropriate sample numbers marked in indelible ink. Samples were then sealed in rice bags and shipped to Bureau Veritas Minerals Laboratories ("BV") in Whitehorse for preparation and subsequently to Vancouver for analysis. Samples were crushed, split and pulverized to $\geq 85\%$ passing 200 mesh (BV Code PRP70-250) and analyzed for 36 elements including gold and copper by 15 gram Aqua Regia digestion, ICP-MS finish (Appendix C). BV is accredited under ISO 9001.

The rock sampling returned a few encouraging results with sampling ranging up to 1384 ppm Cu (LHUR-03) described as a fine grained syenite with potassic alteration and trace chalcopyrite with fracture filled malachite and azurite. Another sample returned 1333 ppm Cu (EHUR-01) described as an angular till andesite with 5% net textured pyrite and minor chalcopyrite. Copper and gold results of all rock samples are presented on figure 5.

Soil Sampling

A total of 51 soil samples (including 1 QAQC) were collected over the Hu block in 2017. Sample locations were tagged in field using flagging inscribed with the sample code. Sample locations were recorded using Garmin GPS receivers in map datum UTM Nad83 Zone 9N. Samples were taken on a grid with 50m intervals (east-west traverse) at 100m lines spacing (Figure 6; Appendix B). Sample material consisted of till taken from the B horizon, at an average depth of 80 centimeters, using hand held augers. Soil samples were placed in Kraft-type paper bags with the appropriate sample numbers marked with indelible ink. The QAQC process included taking an overly large sample and accurately split it into two samples, one with the original sample number, and the other with a sample number that is part of a different sample set. Samples were dried, sealed in rice bags and shipped to Bureau Veritas in Whitehorse, Yukon via Greyhound for preparation and subsequently to Vancouver, B.C. for analysis.

Samples were dried and sieved to -80 mesh size and analyzed for 36 elements (including gold and copper) by 15 gram Aqua Regia digestion, ICP-MS finish (BV code AQ201; Appendix C).

Samples from the soil survey returned Au values ranging from below detection (i.e. < 0.5 ppb Au) to a maximum of 16.2 ppb Au. Notable copper values from the soil sampling include 616.5 and 614.3 ppm Cu. Gold and copper values were evaluated as calculated percentiles and represented in table 3 below also plotted as thematic maps (Figures 8 and 9)

Table 3 - Soil Results

Field	Maximum	Mean	Percentile70	Percentile90	Percentile95	Percentile98
Cu ppm	616.50	136.91	125.2	282.5	443.7	615.4
Au ppb	16.20	3.79	4.0	5.7	11.1	16.1

Biogeochemical

A total of 30 biogeochemical samples (including 1 QAQC) were taken over the Hu block in 2017. Samples were taken on a grid with 50 metre intervals (east-west traverse) at 100 metre lines spacing (Figure 7; Appendix B). Biogeochemical sampling concentrated on Balsam Fir trees which involved gathering sufficient amounts of the last 15-20 cm of branch tips to fill a standard 8.5 x 11 poly sample bag approximately 2/3 full. Sample sites were marked in the field using flagging inscribed with the sample code. The QAQC process included taking an overly large sample and accurately split it into two samples, one with the original sample number and the other with a sample number that is part of a different sample set. Samples were sealed in rice bags and shipped to Bureau Veritas in Whitehorse, Yukon via Greyhound for preparation and subsequently to Vancouver, B.C. for analysis. Preparation consist of ashing 50 g of dried vegetation at 475°C (BV code VA475) then analyzed for 36 elements (including gold and copper) by 15 gram Aqua Regia digestion, ICP-MS finish (Appendix C).

Gold and copper values were evaluated as calculated percentiles and represented in table 4 below and plotted as thematic maps (Figure 10 and 11).

Table 4 - Biogeochemical Results

Field	Minimum	Maximum	Mean	Percentile70	Percentile85	Percentile90	Percentile95	Percentile98
Cu ppm	53.6	98.1	74.6	81.0	83.2	88.8	93.0	97.3
Au ppb	0.9	5.8	1.8	1.9	2.6	3.0	4.0	5.4

Data Verification

It is the Authors opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the rock samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Author has relied upon the adequacy and accuracy of the analytical results provided by BV. Independent verification of those results has not been undertaken. The Author reconciled the field data with the analytical results and found no irregularities.

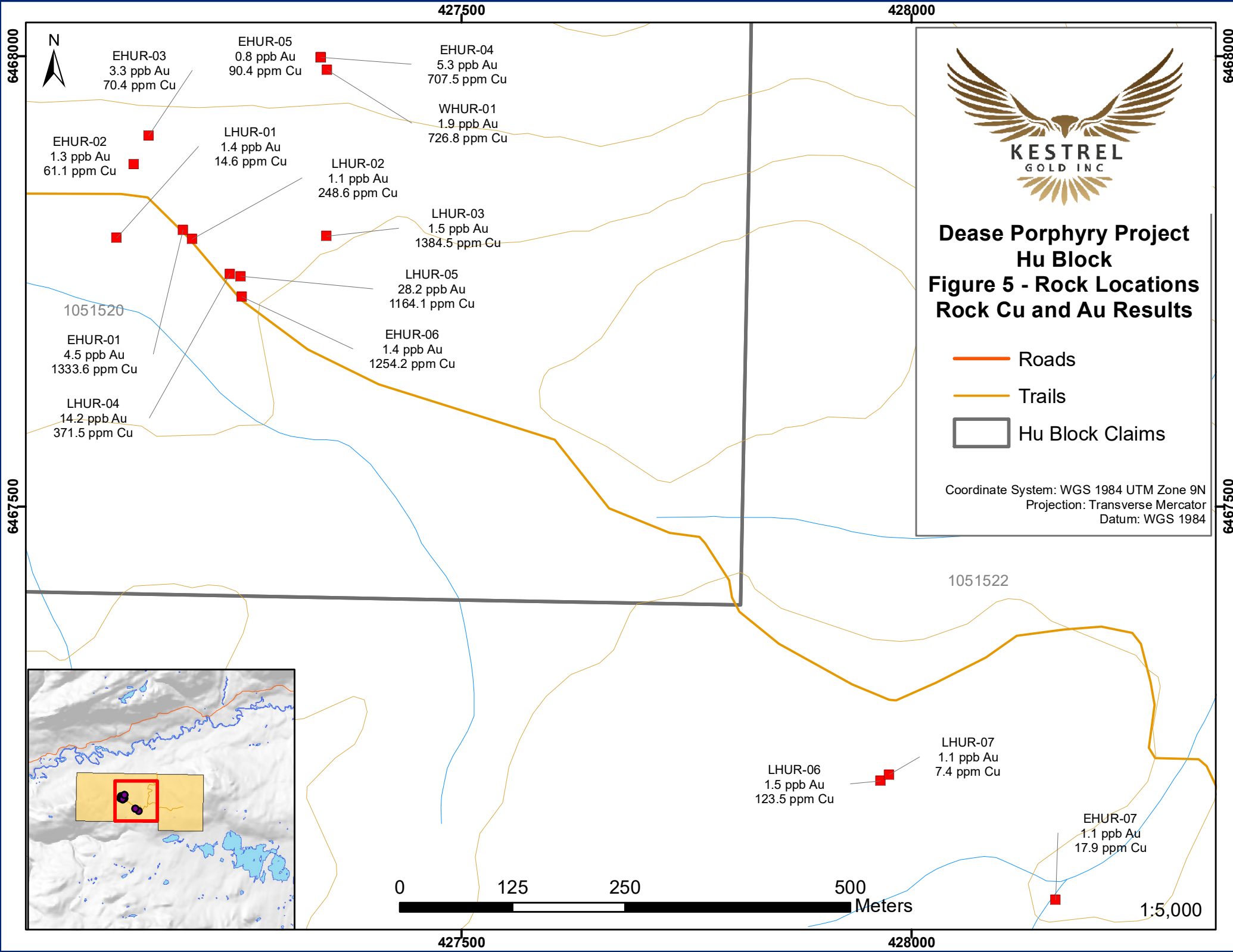
Conclusion and Recommendations

The limited work completed on the Hu block in 2017 returned some prospective results. Although the assay results did not return outstanding numbers the property remains a promising target based on the copper sulfide and oxide mineralization and potassic alterations observed in the 2017 rock samples. Targets generated from previous work particularly along Stain Creek (which wasn't a focus of the 2017 program) as well as the work completed by Quartz Mountain in 2012 provide several compelling targets for further exploration. Further prospecting and mapping is required over the coincident soil and chargeability anomalies exposed west of Hu Creek by Quartz Mountain. Additionally the mineralization exposed at Stain Creek remains a prospective target; further mapping programs should be completed over this zone to identify drill targets.

References

- Anderson, R.G. and Bevier, M.I. 1992. New Late Triassic and Early Jurassic U-PB zircon ages from the Hotailuh Batholith, Cry Lake map area (NTS 104-I), north-central British Columbia; in Radiogenic Age and Isotopic Studies: Report 6; Geological Survey of Canada, Paper 92-2, p. 145-152
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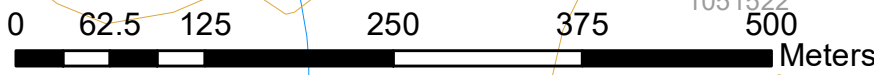
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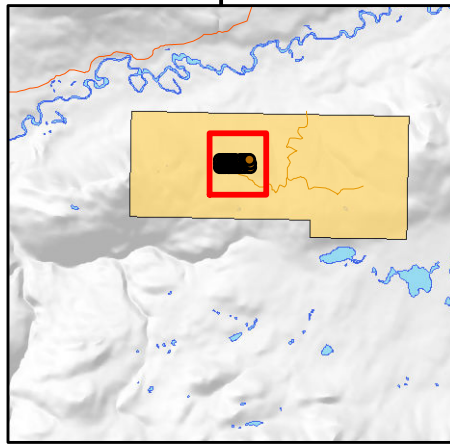
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1051520

1051522



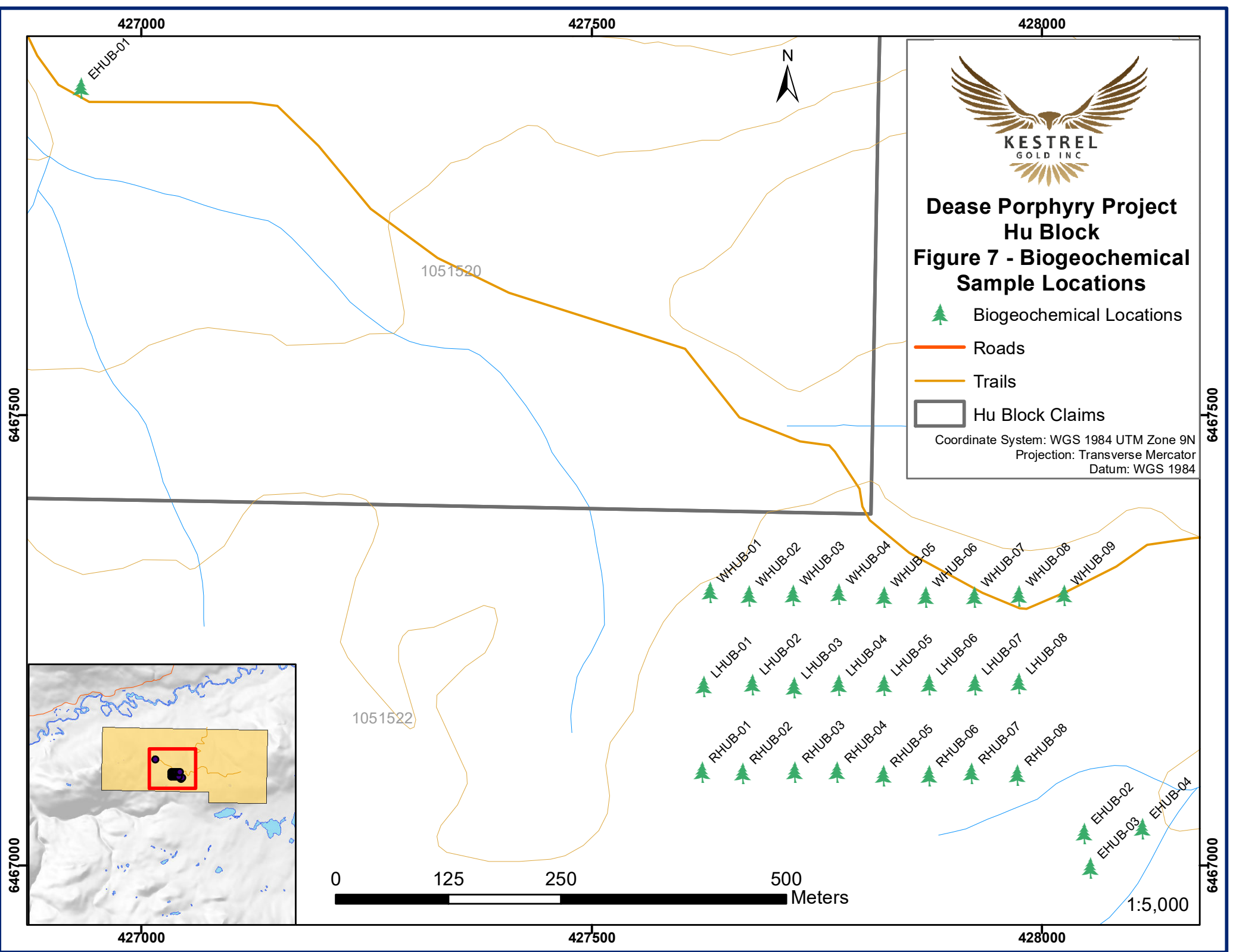
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Dease Porphyry Project Hu Block Figure 6 - Soil Locations

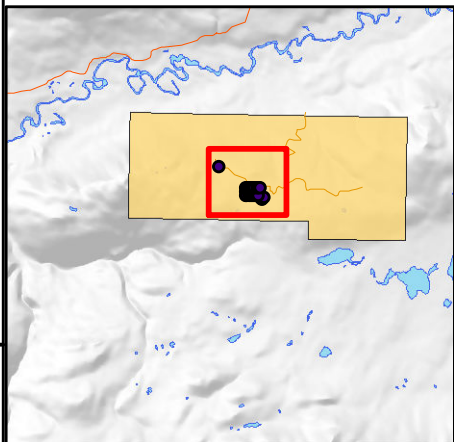
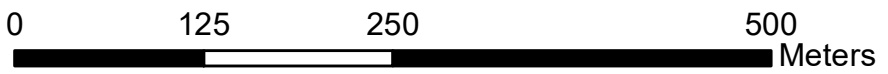
- Soil Location
- Roads
- Trails
- Hu Block Claims

Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984



**Dease Porphyry Project
Hu Block
Figure 7 - Biogeochemical
Sample Locations**

-  Biogeochemical Locations
 -  Roads
 -  Trails
 -  Hu Block Claims
- Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984



427000 427500 428000

6467500 6467000

EHUB-01

1051520

1051522

WHUB-01 WHUB-02 WHUB-03 WHUB-04 WHUB-05 WHUB-06 WHUB-07 WHUB-08 WHUB-09

LHUB-01 LHUB-02 LHUB-03 LHUB-04 LHUB-05 LHUB-06 LHUB-07 LHUB-08

RHUB-01 RHUB-02 RHUB-03 RHUB-04 RHUB-05 RHUB-06 RHUB-07 RHUB-08

EHUB-02 EHUB-03 EHUB-04

0 125 250 500 Meters

1:5,000

427000

427500

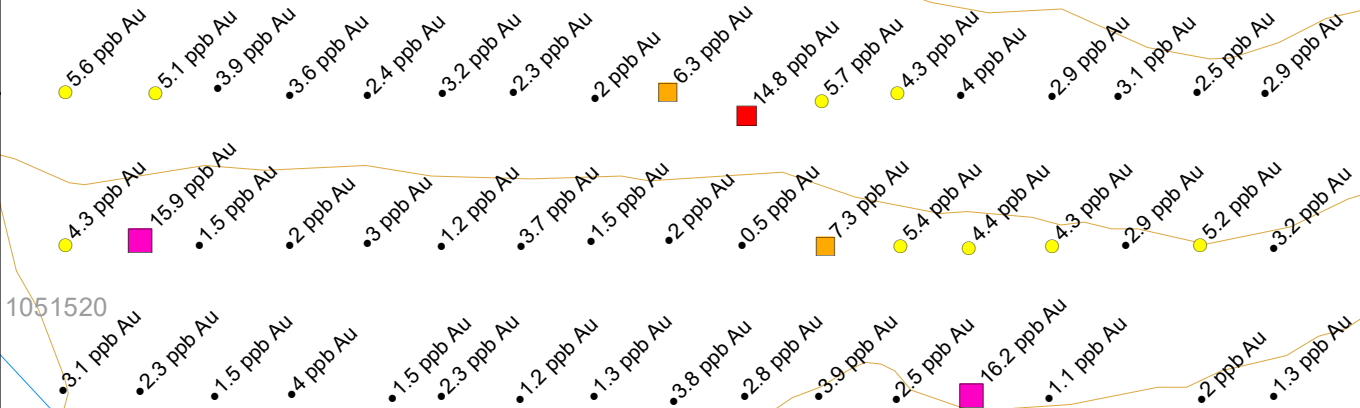


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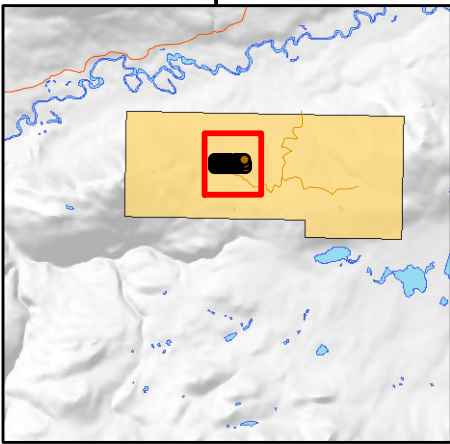
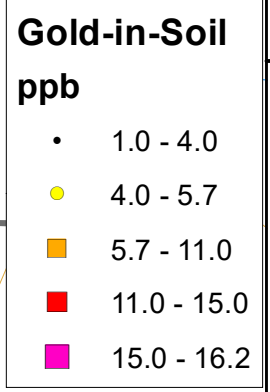
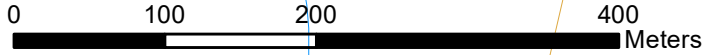
6467500



1051520

1051522

1:5,000



Hu Block Claims

Dease Porphyry Project
Hu Block
Figure 8 - Gold-in-Soil

Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984

427000

427500

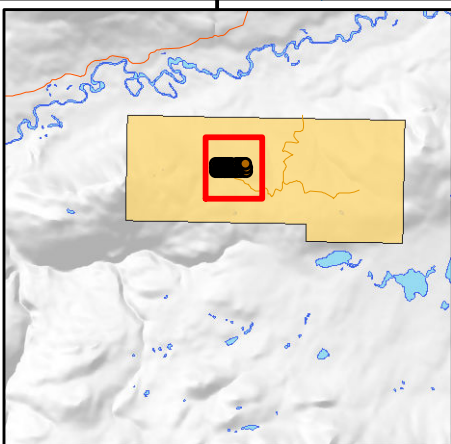
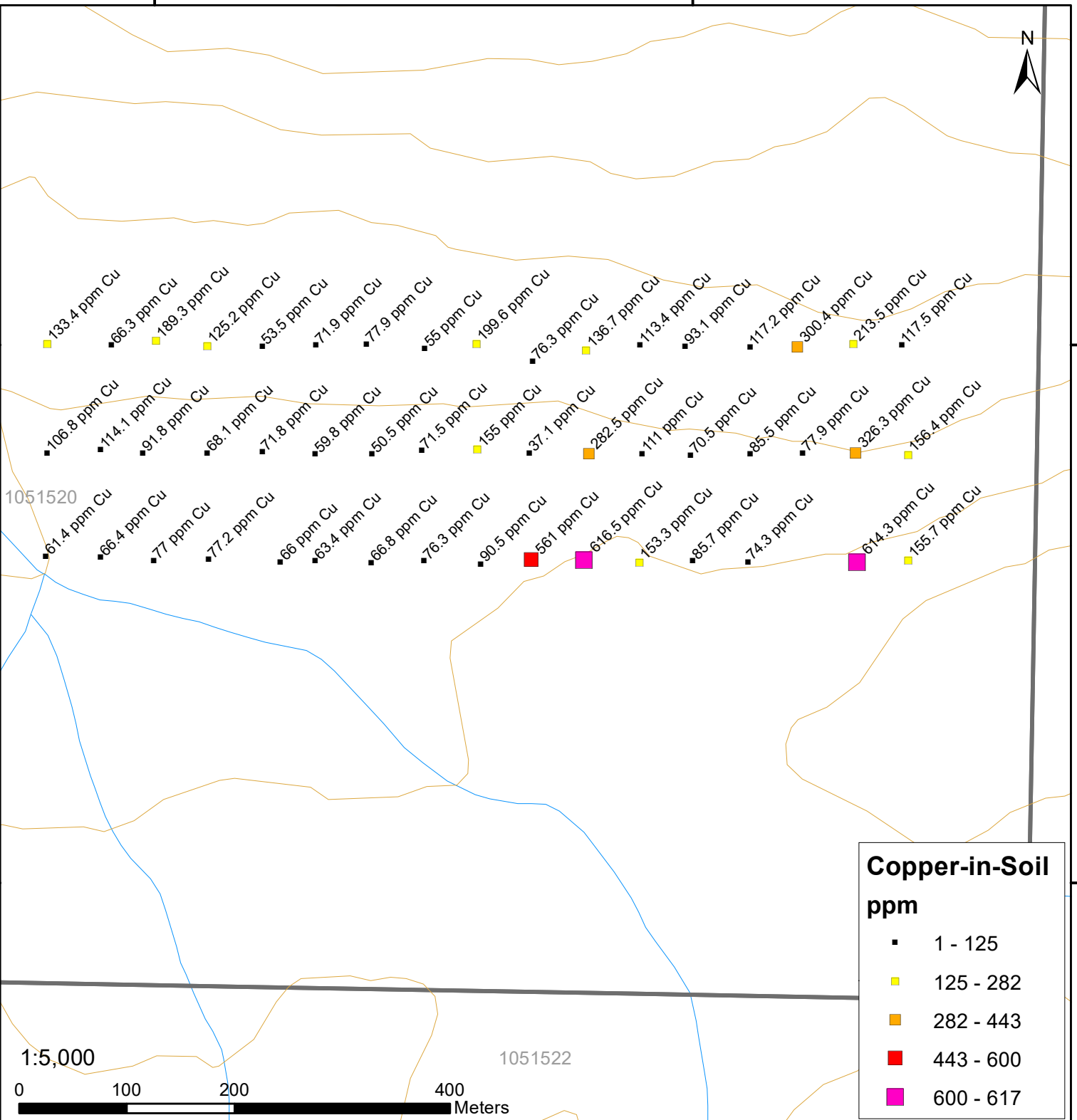


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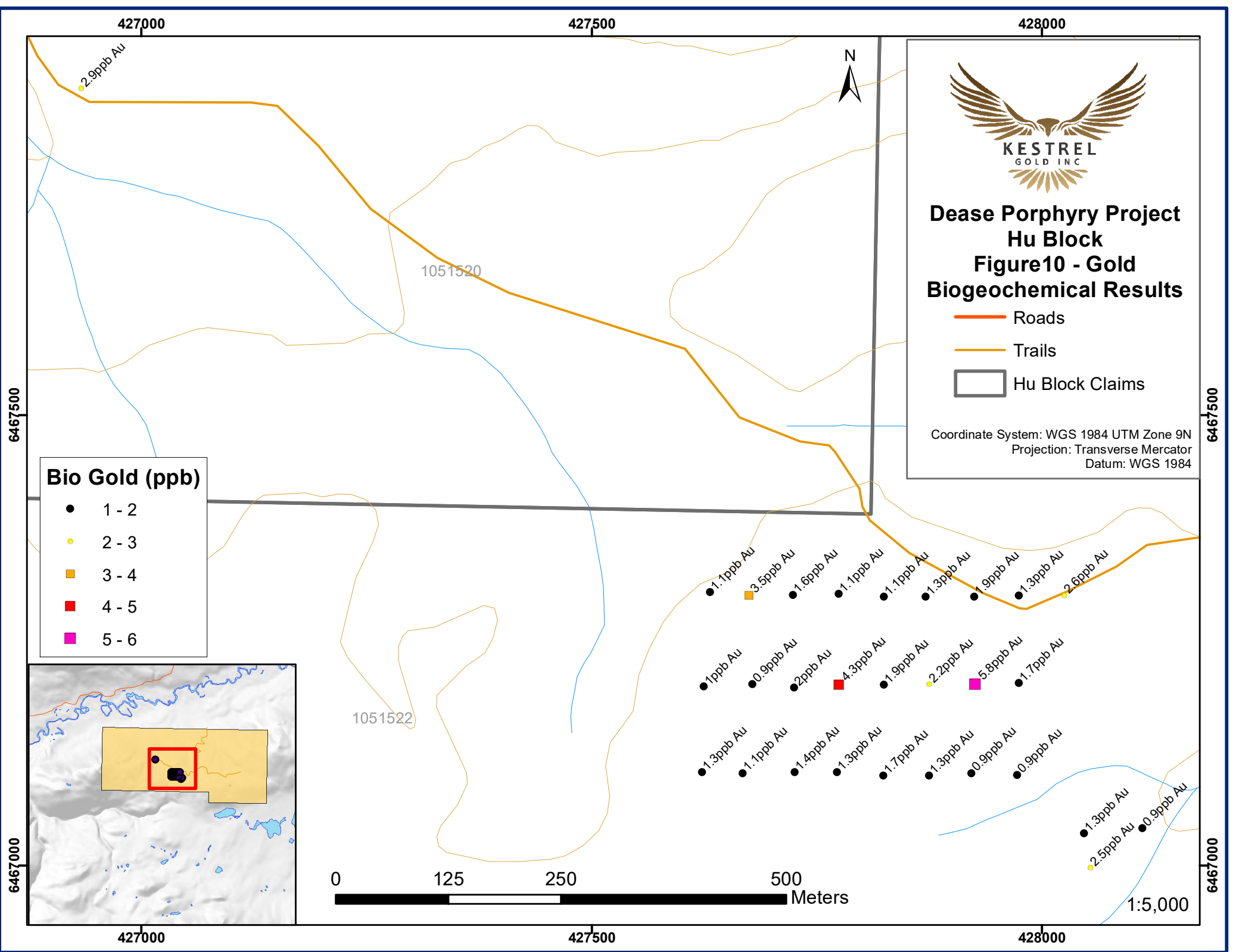
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**Dease Porphyry Project
Hu Block
Figure 8 - Copper-in-Soil**

 Hu Block Claims

Coordinate System: WGS 1984 UTM Zone 9N
Projection: Transverse Mercator
Datum: WGS 1984



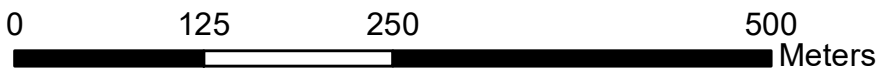
**Dease Porphyry Project
Hu Block
Figure 10 - Gold
Biogeochemical Results**

- Roads
- Trails
- Hu Block Claims

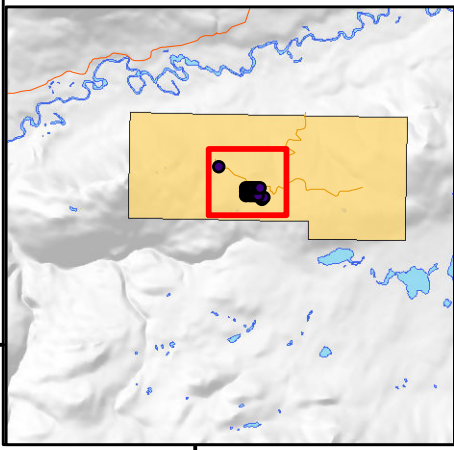
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Projection: Transverse Mercator
Datum: WGS 1984

Bio Gold (ppb)

- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 5
- 5 - 6



1:5,000

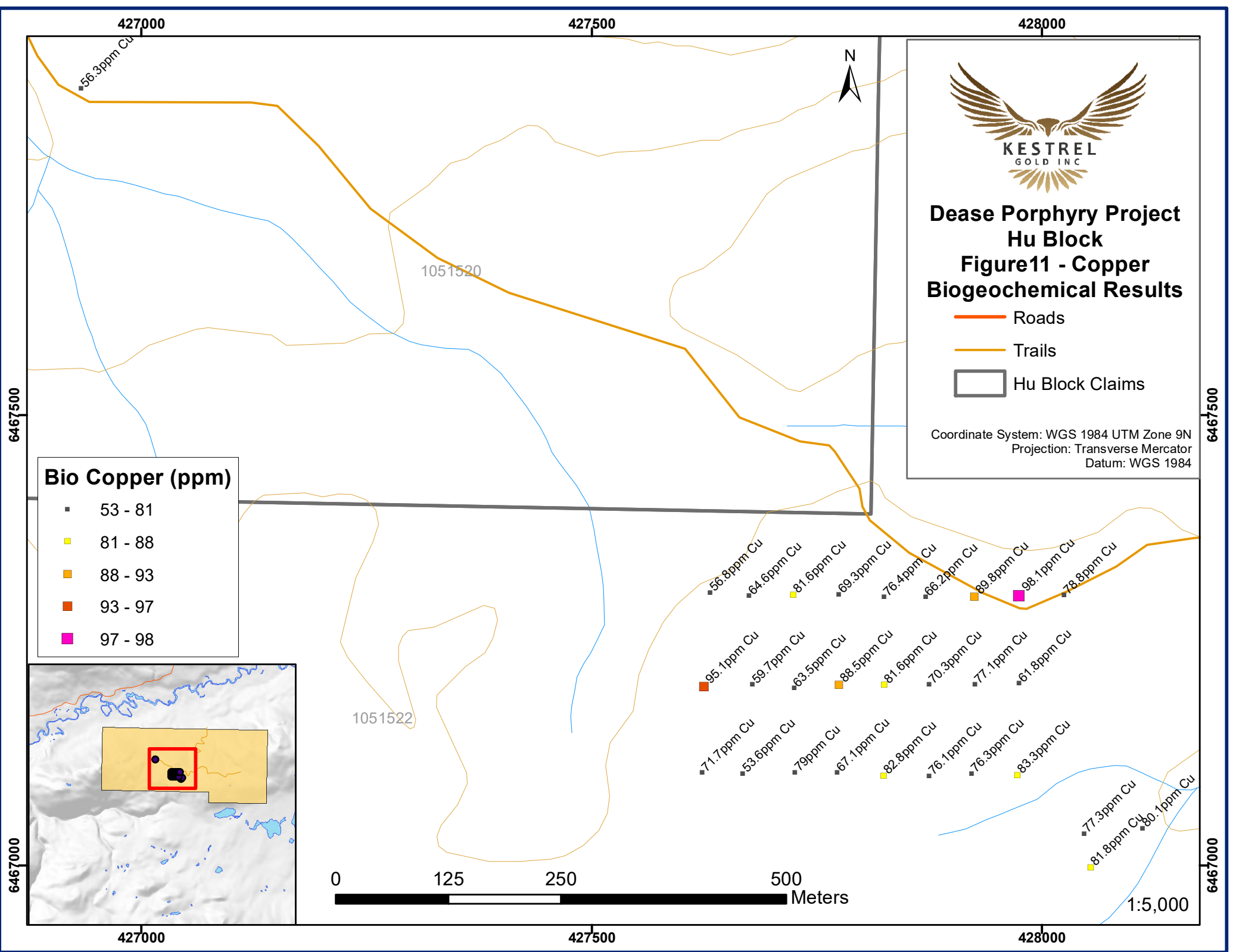


2.9ppb Au

1051520

1051522

- 1.1ppb Au
- 3.5ppb Au
- 1.6ppb Au
- 1.1ppb Au
- 1.1ppb Au
- 1.3ppb Au
- 1.9ppb Au
- 1.3ppb Au
- 2.6ppb Au
- 1ppb Au
- 0.9ppb Au
- 2ppb Au
- 4.3ppb Au
- 1.9ppb Au
- 2.2ppb Au
- 5.8ppb Au
- 1.7ppb Au
- 1.3ppb Au
- 1.1ppb Au
- 1.4ppb Au
- 1.3ppb Au
- 1.7ppb Au
- 1.3ppb Au
- 0.9ppb Au
- 0.9ppb Au
- 1.3ppb Au
- 2.5ppb Au
- 0.9ppb Au

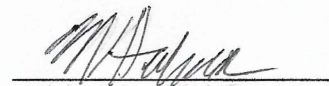


Certificate of Qualifications

I, Marty Huber, having my place of residence at 16 Flax Mill Dr. Conestogo in the Province of Ontario, do hereby certify that:


1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, I have completed a Masters in Mineral Exploration from Laurentian University and will receive my degree in May 2018, I have practiced geology in British Columbia, Yukon, Quebec, and New Brunswick continuously since 2011 and I am a Member in good standing with the Association of Professional Geoscientists of Nova Scotia (APGNS #232) and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have not visited the Dease Lake Project;
3. I wrote this technical report entitled "Assessment Report on 2017 Surface work On the Dease Porphyry Project, Hu Block, Liard Mining Division, Northwestern British Columbia" based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I hold no direct interest in the Dease Lake Project as a result of my prior involvement with the property; and
6. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 31st day of January 2018,



Marty Huber, M.Sc. (Can), P. Geo.



Signature: 
Date: Jan 31, 2018

Statement of Qualifications

I, Bernie Kreft, directed and participated in the exploration work described herein.

I have 30 years prospecting experience in the Yukon and BC.

This report is based on fieldwork directed or conducted by Bernie Kreft, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed July 21st to July 30th of the 2017 field season.

This report is based on fieldwork completed on the Dease Porphyry Project, covering the Hu showing.

This report was completed by Marty Huber.

Respectfully Submitted,

Bernie Kreft

Appendix A –Statement of Cost

Wages Jarret Kreft (2.5 field days x \$350/day) July 21 st to July 30 th 2017	\$875.00
Wages Joel Wynnyk (2.5 field days x \$350/day) July 21 st to July 30 th 2017	\$875.00
Wages Bernie Kreft (2.5 field days x \$450/day) July 21 st to July 30 th 2017	\$1,125.00
Wages Justin Kreft (2.5 field days x \$350/day) July 21 st to July 30 th 2017	\$875.00
Bureau Veritas (15 rocks, 51 soils, 30 biogeochem)	\$1,946.90
Report writing, data research and compilation, map making	\$2,000.00
Food, Field Supplies, Camp (4 people x 2.5 days x \$150/day/person)	\$1,500.00
Truck Travel 144 kilometres x \$0.75/km	\$108.00
Helicopter Lakelse Air	\$667.47
Sample Shipping Greyhound	\$80.08
Sub Total	\$10,052.45
5% Management Fee	<u>\$502.62</u>
Total	\$10,555.07

Appendix B – Sample Locations and Rock Descriptions

Appendix B - Rock Sample Descriptions

Block	Sample ID	Lithology	Modifier	Alteration 1	Alt 2	Alt 3	Mineral 1 (%)	Min 2 (%)	Min 3 (%)	Comments
Hu	WHUR-1	Andesite?	Skarn	Ch 2-3			2% Cpy	4-5% Py		Green; clotty sulphides
Hu	LHUR 1	Syenite dyke?	fine grained	K 3		L1	1% Py	tr Cpy?		Mauve
Hu	LHUR 2	Dacite - andesite?	Light grey	S 2			2% Py	< 1% Cpy		
Hu	LHUR 3	Syenite	Fine grained	K 2-3			tr Cpy	Mod Malachite	Mod Azurite	Pink, fracture controlled copper oxides
Hu	LHUR 4	Diorite	Grey	S 3	A 1-2	L 3	10-12% Py			diss Py; grey with tan weathering
Hu	LHUR 5	Diorite?	Massive grey Py	A 1	S 1	L 3	>10% Py			Grey
Hu	LHUR 6	Andesite	Fine grained	S 1			tr Cpy			Clotty cpy, grey
Hu	LHUR 7	Syenite	Med grained	K 2-3						Fairly massive syenite, pink-brown
Hu	EHUR 1									Andesite with 5% net textured pyrite and minor chalcopyrite, angular till cobble in ditch
Hu	EHUR 2									andesite porphyry to intermediate intrusive 0.25% py-po, rep grabs over 23.0m length in ditch
Hu	EHUR 3									As above rep grabs over 11.0m length in ditch
Hu	EHUR 4									dense skarnified andesite, weakly epidote altered, limonitic with 5% py-po trace cpy
Hu	EHUR 5									weakly carb altered, fractured and pyritic hornfelsed sed rock rep grabs over 23.0m
Hu	EHUR 6									rep grab fractured quartzite with 1% fine py-po along fractures and occasionally as pods
Hu	EHUR 7									Syenite with weak quartz stockwork, trace magnetite, possible trace very fine grained hematite

Appendix B - Sample Locations

Rock Locations				
<u>Name</u>	<u>Project</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>
EHUR-01	Hu	Rock	427191	6467807
EHUR-02	Hu	Rock	427136	6467880
EHUR-03	Hu	Rock	427153	6467912
EHUR-04	Hu	Rock	427344	6467999
EHUR-05	Hu	Rock	427344	6467999
EHUR-06	Hu	Rock	427256	6467733
EHUR-07	Hu	Rock	428160	6467063
LHUR-01	Hu	Rock	427117	6467798
LHUR-02	Hu	Rock	427201	6467797
LHUR-03	Hu	Rock	427350	6467800
LHUR-04	Hu	Rock	427243	6467758
LHUR-05	Hu	Rock	427255	6467756
LHUR-06	Hu	Rock	427966	6467195
LHUR-07	Hu	Rock	427975	6467202
WHUR-01	Hu	Rock	427351	6467985
Soil Locaitons				
<u>Name</u>	<u>Project</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>
LHUD-01	Hu	Soil	426899	6467804
LHUD-02	Hu	Soil	426950	6467803
LHUD-03	Hu	Soil	426999	6467800
LHUD-04	Hu	Soil	427050	6467801
LHUD-05	Hu	Soil	427117	6467799
LHUD-06	Hu	Soil	427149	6467800
LHUD-07	Hu	Soil	427201	6467798
LHUD-08	Hu	Soil	427250	6467800
LHUD-09	Hu	Soil	427303	6467797
LHUD-10	Hu	Soil	427350	6467800
LHUD-11	Hu	Soil	427399	6467800
LHUD-12	Hu	Soil	427450	6467798
LHUD-13	Hu	Soil	427500	6467800
LHUD-14	Hu	Soil	427551	6467799
LHUD-15	Hu	Soil	427652	6467798
LHUD-16	Hu	Soil	427700	6467800
LHUD-17	Hu	Soil QA/QC split from WLD-09		
RHUD-01	Hu	Soil	426900	6467900
RHUD-02	Hu	Soil	426950	6467903
RHUD-03	Hu	Soil	426989	6467900
RHUD-04	Hu	Soil	427049	6467900
RHUD-05	Hu	Soil	427100	6467901
RHUD-06	Hu	Soil	427149	6467899
RHUD-07	Hu	Soil	427202	6467899
RHUD-08	Hu	Soil	427248	6467902
RHUD-09	Hu	Soil	427300	6467903

Appendix B - Sample Locations

<u>Name</u>	<u>Project</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>
RHUD-10	Hu	Soil	427348	6467900
RHUD-11	Hu	Soil	427403	6467899
RHUD-12	Hu	Soil	427453	6467899
RHUD-13	Hu	Soil	427498	6467898
RHUD-14	Hu	Soil	427553	6467899
RHUD-15	Hu	Soil	427602	6467900
RHUD-16	Hu	Soil	427651	6467900
RHUD-17	Hu	Soil	427700	6467898
WHUD-01	Hu	Soil	426900	6468001
WHUD-02	Hu	Soil	426960	6468000
WHUD-03	Hu	Soil	427001	6468004
WHUD-04	Hu	Soil	427049	6467999
WHUD-05	Hu	Soil	427100	6467999
WHUD-06	Hu	Soil	427150	6468000
WHUD-07	Hu	Soil	427197	6468001
WHUD-08	Hu	Soil	427251	6467997
WHUD-09	Hu	Soil	427299	6468001
WHUD-10	Hu	Soil	427351	6467985
WHUD-11	Hu	Soil	427401	6467995
WHUD-12	Hu	Soil	427451	6468000
WHUD-13	Hu	Soil	427493	6467999
WHUD-14	Hu	Soil	427553	6467998
WHUD-15	Hu	Soil	427597	6467998
WHUD-16	Hu	Soil	427649	6468001
WHUD-17	Hu	Soil	427694	6468000
Bio Locations				
<u>Name</u>	<u>Project</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>
EHUB-01	Hu	Bio	426933	6467863
EHUB-02	Hu	Bio	428047	6467035
EHUB-03	Hu	Bio	428054	6466997
EHUB-04	Hu	Bio	428112	6467041
EHUB-05	Hu	Bio QAQC Split from WHUB-02		
LHUB-01	Hu	Bio	427625	6467198
LHUB-02	Hu	Bio	427679	6467201
LHUB-03	Hu	Bio	427725	6467197
LHUB-04	Hu	Bio	427775	6467200
LHUB-05	Hu	Bio	427825	6467200
LHUB-06	Hu	Bio	427875	6467201
LHUB-07	Hu	Bio	427926	6467201
LHUB-08	Hu	Bio	427975	6467202
RHUB-01	Hu	Bio	427623	6467103
RHUB-02	Hu	Bio	427668	6467102
RHUB-03	Hu	Bio	427726	6467103
RHUB-04	Hu	Bio	427773	6467103

Appendix B - Sample Locations

<u>Name</u>	<u>Project</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>
RHUB-05	Hu	Bio	427824	6467099
RHUB-06	Hu	Bio	427875	6467099
RHUB-07	Hu	Bio	427922	6467102
RHUB-08	Hu	Bio	427973	6467100
WHUB-01	Hu	Bio	427632	6467303
WHUB-02	Hu	Bio	427675	6467299
WHUB-03	Hu	Bio	427724	6467300
WHUB-04	Hu	Bio	427775	6467301
WHUB-05	Hu	Bio	427825	6467298
WHUB-06	Hu	Bio	427871	6467298
WHUB-07	Hu	Bio	427925	6467298
WHUB-08	Hu	Bio	427975	6467299
WHUB-09	Hu	Bio	428025	6467300

Appendix C – Analytical 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: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft
Receiving Lab: Canada-Vancouver
Received: August 03, 2017
Report Date: September 11, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN17001637.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 107

SAMPLE DISPOSAL

RTRN-PLP Return 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: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	107	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	107	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	107	Warehouse handling / disposition of pulps			VAN
DRRJT	95	Warehouse handling / Disposition of reject			VAN
MA404	9	4 Acid Digest AAS Finish Vancouver	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Kreft, Bernie**
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Project: None Given
Report Date: September 11, 2017

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001637.1

Method Analyte Unit MDL	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	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	
JULR-01	Rock	0.81	0.5	375.3	1.8	21	<0.1	21.4	10.0	542	5.59	5.7	1.4	7.7	61	0.1	0.6	<0.1	133	2.46	0.201
JULR-02	Rock	0.31	0.6	4130.2	5.9	63	2.4	15.1	18.4	1198	4.76	33.0	45.4	10.3	133	0.2	1.0	<0.1	156	2.73	0.257
BHOR-1	Rock	0.97	0.3	16.7	7.1	93	<0.1	7.1	10.2	851	2.78	5.2	0.6	1.0	79	0.2	0.2	<0.1	88	1.53	0.130
BHOR-2	Rock	0.70	0.2	51.6	2.0	31	<0.1	4.5	4.1	357	1.94	1.1	1.0	1.3	21	<0.1	<0.1	<0.1	64	0.29	0.123
BHOR-3	Rock	0.24	0.2	163.0	3.8	85	<0.1	8.0	17.7	932	3.92	1.1	3.5	1.8	101	0.2	<0.1	<0.1	166	3.73	0.194
BHOR-4	Rock	0.39	1.2	155.2	3.7	42	<0.1	86.8	25.5	269	3.14	<0.5	2.3	0.9	62	<0.1	<0.1	<0.1	97	1.90	0.191
BHOR-5	Rock	0.87	0.1	152.5	3.6	38	<0.1	4.5	11.1	299	2.53	<0.5	<0.5	0.9	75	0.1	<0.1	<0.1	49	1.35	0.149
BHOR-6	Rock	0.69	1.7	208.8	2.2	40	0.2	33.2	30.6	370	5.93	<0.5	1.4	0.9	36	<0.1	<0.1	<0.1	224	1.45	0.025
BHOR-7	Rock	0.73	0.3	142.8	3.5	30	0.1	5.9	17.8	251	2.55	1.2	2.5	1.4	251	0.2	0.2	<0.1	44	1.63	0.147
BHOR-8	Rock	0.81	0.3	166.5	2.1	26	0.2	32.9	31.6	285	5.05	0.6	<0.5	0.7	37	<0.1	0.1	<0.1	170	1.15	0.016
WHUR-1	Rock	1.58	5.0	726.8	16.9	72	0.3	47.4	80.2	695	6.07	98.6	1.9	0.4	138	0.3	2.0	0.1	47	3.30	0.076
KBHR-01	Rock	0.51	0.6	454.3	5.0	55	<0.1	4.8	12.8	545	3.52	1.9	2.4	10.2	46	<0.1	<0.1	<0.1	117	1.08	0.179
KBHR-02	Rock	0.28	0.4	129.5	2.9	62	<0.1	6.9	16.3	505	3.82	1.1	1.6	2.8	27	<0.1	<0.1	<0.1	159	1.89	0.220
KBHR-03	Rock	0.54	0.3	5.1	4.4	6	<0.1	1.4	1.6	250	1.59	2.8	<0.5	30.3	424	<0.1	0.9	<0.1	71	3.21	0.065
KBHR-04	Rock	0.48	3.8	175.4	5.9	57	0.1	44.3	27.2	357	3.91	2.7	4.5	1.2	39	0.1	0.1	0.2	105	1.84	0.281
KBHR-05	Rock	0.58	0.3	167.7	4.2	33	<0.1	2.9	8.6	426	2.14	2.6	1.2	62.9	75	<0.1	0.6	<0.1	67	1.99	0.111
KBHR-06	Rock	0.62	0.5	127.4	2.6	47	<0.1	6.2	12.2	494	2.88	0.6	2.0	1.6	81	<0.1	0.1	<0.1	102	2.38	0.250
KBHR-07	Rock	0.38	0.2	146.7	2.3	60	<0.1	8.5	16.8	563	3.89	1.5	0.9	4.1	26	<0.1	0.1	<0.1	146	2.18	0.246
BBLR-01	Rock	1.21	1.2	138.9	2.5	12	<0.1	3.7	60.5	846	3.69	29.9	0.8	3.5	134	0.1	0.3	0.1	71	5.20	0.174
BBLR-02	Rock	0.67	1.7	175.2	4.9	37	<0.1	17.9	13.5	1797	3.68	16.5	<0.5	6.5	172	0.1	0.6	<0.1	147	4.88	0.196
BBLR-03	Rock	1.04	0.8	910.3	3.3	14	0.2	8.9	75.8	860	2.61	19.4	2.7	5.0	234	<0.1	2.0	0.1	65	4.40	0.200
BBLR-04	Rock	0.61	1.9	179.0	5.8	49	<0.1	14.3	15.5	855	4.26	12.9	1.8	7.8	119	0.3	0.9	0.1	146	3.01	0.219
TLR-01	Rock	0.32	0.4	133.2	2.4	16	<0.1	1.4	19.1	521	0.77	20.4	<0.5	3.5	161	<0.1	1.3	<0.1	17	3.43	0.163
TLR-02	Rock	0.29	0.5	3927.0	11.6	47	1.0	29.4	43.1	1425	2.46	41.1	22.8	7.3	57	0.3	0.8	0.2	51	3.11	0.146
TLR-03	Rock	0.56	0.6	877.8	4.5	48	0.3	18.1	19.7	2052	3.21	26.7	4.0	10.5	60	0.2	0.6	<0.1	88	4.32	0.180
TLR-04	Rock	0.40	0.4	232.2	4.3	29	0.2	2.6	23.1	441	1.70	6.1	0.9	3.7	70	0.2	0.2	0.1	17	1.04	0.060
TLR-05	Rock	0.86	1.5	5029.3	39.1	102	1.9	15.8	9.9	2769	4.37	46.1	5.8	22.4	78	0.6	1.9	0.2	105	6.94	0.184
TLR-06	Rock	0.76	0.9	323.2	6.7	43	0.2	17.4	19.2	219	3.77	48.7	<0.5	10.5	43	0.2	0.5	0.2	44	0.77	0.181
TLR-07	Rock	0.85	14.6	242.1	5.8	341	0.3	20.0	10.4	618	3.12	330.4	1.2	3.4	123	1.5	1.5	0.6	15	2.59	0.074
TLR-08	Rock	0.97	0.3	211.5	5.2	41	0.1	12.8	14.5	744	2.48	19.4	<0.5	2.0	231	<0.1	0.3	0.1	14	4.32	0.192



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Project: None Given
Report Date: September 11, 2017

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CERTIFICATE OF ANALYSIS

VAN17001637.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	MA404
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.01
JULR-01	Rock	30	22	1.01	74	0.031	3	1.45	0.057	0.17	5.5	<0.01	8.0	<0.1	<0.05	11	<0.5	<0.2
JULR-02	Rock	45	24	0.43	66	0.093	5	1.28	0.091	0.11	0.2	<0.01	11.2	<0.1	0.14	6	<0.5	<0.2
BHOR-1	Rock	8	5	1.06	121	0.147	2	1.44	0.092	0.15	0.2	<0.01	3.4	<0.1	<0.05	9	<0.5	<0.2
BHOR-2	Rock	5	5	0.30	80	0.007	2	0.56	0.097	0.11	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
BHOR-3	Rock	9	2	1.34	48	0.194	14	3.37	0.097	0.14	<0.1	<0.01	7.4	<0.1	<0.05	12	<0.5	<0.2
BHOR-4	Rock	4	66	1.58	93	0.166	5	2.41	0.077	0.91	0.2	<0.01	2.9	0.1	0.45	6	<0.5	<0.2
BHOR-5	Rock	7	4	0.57	90	0.136	1	1.17	0.168	0.14	<0.1	<0.01	3.6	<0.1	0.83	4	<0.5	<0.2
BHOR-6	Rock	2	35	1.04	47	0.284	2	0.89	0.108	0.15	<0.1	<0.01	13.9	<0.1	1.46	5	1.2	<0.2
BHOR-7	Rock	9	5	0.58	43	0.168	4	1.61	0.096	0.07	0.1	<0.01	2.8	<0.1	0.55	6	0.7	<0.2
BHOR-8	Rock	2	5	0.85	46	0.277	<1	0.69	0.096	0.09	<0.1	0.01	12.3	<0.1	1.87	3	1.6	0.2
WHUR-1	Rock	4	20	0.53	52	0.089	38	1.15	0.003	<0.01	0.2	0.05	2.4	0.1	2.88	4	25.8	0.2
KBHR-01	Rock	11	2	0.80	32	0.162	5	1.20	0.069	0.16	0.4	<0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
KBHR-02	Rock	11	6	0.98	29	0.175	7	1.92	0.076	0.14	0.2	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
KBHR-03	Rock	10	2	0.07	11	0.087	4	2.11	0.028	0.05	0.2	<0.01	2.3	<0.1	<0.05	9	<0.5	<0.2
KBHR-04	Rock	5	59	1.61	59	0.213	2	1.88	0.101	0.88	0.2	<0.01	3.6	0.2	2.06	5	<0.5	<0.2
KBHR-05	Rock	13	4	0.50	31	0.130	4	1.63	0.087	0.18	0.4	<0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
KBHR-06	Rock	11	6	0.70	16	0.105	3	2.00	0.072	0.09	0.2	<0.01	2.9	<0.1	<0.05	8	<0.5	<0.2
KBHR-07	Rock	13	10	1.11	23	0.187	7	2.19	0.089	0.18	0.2	<0.01	4.5	<0.1	<0.05	8	<0.5	<0.2
BBLR-01	Rock	8	3	0.26	30	0.081	1	0.74	0.064	0.03	3.6	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
BBLR-02	Rock	26	16	0.48	30	0.101	6	2.54	1.009	0.11	0.3	<0.01	9.9	<0.1	<0.05	9	<0.5	<0.2
BBLR-03	Rock	17	8	0.13	33	0.132	3	0.87	0.023	0.08	0.4	<0.01	4.6	<0.1	0.34	3	<0.5	0.2
BBLR-04	Rock	31	21	0.40	62	0.095	7	1.58	0.500	0.17	1.2	<0.01	9.1	<0.1	<0.05	7	<0.5	<0.2
TLR-01	Rock	13	<1	0.15	154	0.063	3	0.57	0.018	0.05	0.1	<0.01	1.0	<0.1	0.05	2	<0.5	<0.2
TLR-02	Rock	25	15	0.54	74	0.094	3	0.82	0.068	0.07	0.1	<0.01	4.3	<0.1	0.48	5	<0.5	<0.2
TLR-03	Rock	22	30	0.55	70	0.118	3	1.11	0.099	0.06	0.2	<0.01	8.2	<0.1	0.11	7	<0.5	<0.2
TLR-04	Rock	12	1	0.15	57	0.099	3	1.17	0.531	0.13	0.1	<0.01	2.1	<0.1	0.45	3	<0.5	<0.2
TLR-05	Rock	26	34	0.19	12	0.126	6	1.28	0.034	0.02	0.1	<0.01	11.3	<0.1	0.25	9	0.7	<0.2
TLR-06	Rock	30	15	0.07	34	0.127	4	0.54	0.194	0.09	0.4	<0.01	3.7	<0.1	2.24	2	<0.5	<0.2
TLR-07	Rock	9	2	0.05	32	0.076	74	1.52	0.304	0.08	0.1	<0.01	2.0	<0.1	1.46	5	1.3	<0.2
TLR-08	Rock	6	5	1.33	11	0.141	<1	1.69	0.003	<0.01	0.1	<0.01	6.3	<0.1	<0.05	3	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

VAN17001637.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
TLR-09	Rock	0.78	0.5	1346.6	9.7	102	0.7	22.7	29.1	761	6.15	25.6	13.6	7.1	81	0.4	0.2	0.1	138	2.19	0.170
TLR-10	Rock	0.43	0.9	1759.9	4.6	37	0.2	4.2	9.2	85	0.41	6.9	<0.5	7.8	20	0.1	0.2	<0.1	6	0.19	0.013
TLR-11	Rock	1.01	1.6	59.2	25.3	213	0.1	1.2	8.1	100	1.15	18.8	<0.5	4.3	17	1.0	0.9	<0.1	7	0.25	0.038
TLR-12	Rock	0.33	0.4	60.2	0.7	15	<0.1	3.5	13.7	312	3.14	40.0	<0.5	4.0	60	<0.1	0.6	<0.1	38	1.01	0.184
TLR-13	Rock	0.40	1.2	1577.3	1.7	44	0.5	16.5	19.5	768	3.92	10.8	<0.5	4.1	119	<0.1	0.9	0.7	97	2.09	0.230
TLR-14	Rock	0.37	2.0	>10000	14.7	48	2.9	15.3	22.2	401	5.08	14.0	29.9	5.5	118	0.3	1.2	0.5	109	1.66	0.205
TLR-15	Rock	0.33	1.1	6312.3	1.2	7	0.4	3.6	10.2	1049	1.35	12.0	2.1	1.8	53	<0.1	0.2	1.1	7	5.94	0.066
TLR-16	Rock	0.16	0.8	3481.3	2.0	40	0.4	14.9	23.1	649	4.60	3.5	1.8	5.9	52	<0.1	0.4	<0.1	93	3.88	0.196
TLR-17	Rock	0.42	1.2	>10000	0.8	13	0.3	4.9	7.4	1537	3.26	<0.5	25.5	0.8	147	<0.1	<0.1	0.3	19	17.09	0.018
TLR-18	Rock	0.42	0.6	6727.4	1.3	32	1.3	9.2	19.5	911	4.57	4.6	9.5	5.1	85	<0.1	0.5	0.1	89	6.31	0.175
TLR-19	Rock	0.31	0.6	5109.0	1.6	12	<0.1	10.9	8.3	700	3.41	5.2	47.9	8.4	12	<0.1	0.3	0.3	34	0.58	0.239
TLR-20	Rock	0.64	2.3	7342.5	1.1	9	<0.1	8.0	6.7	296	5.09	4.8	20.5	7.0	50	<0.1	0.6	0.5	54	1.73	0.218
TLR-21	Rock	0.53	1.2	8596.2	1.3	11	0.7	5.2	43.5	535	2.87	9.8	240.1	1.1	12	<0.1	0.3	2.9	21	0.16	0.028
TLR-22	Rock	0.39	0.4	2361.4	0.4	3	0.2	2.5	44.0	99	2.87	8.8	23.3	<0.1	5	<0.1	0.2	2.8	7	0.05	0.004
TLR-23	Rock	0.49	1.6	3220.0	6.7	8	0.4	4.7	119.8	337	6.08	31.5	141.6	9.9	108	0.2	0.4	0.4	47	2.97	0.186
TLR-24	Rock	0.37	1.9	>10000	0.9	4	1.0	5.9	83.2	48	12.96	9.6	65.5	4.6	4	<0.1	0.1	4.3	4	0.06	0.087
TLR-25	Rock	0.65	11.3	7881.0	1.8	26	0.4	7.7	33.2	732	4.68	9.9	15.0	9.5	17	<0.1	0.2	3.0	46	1.19	0.214
TLR-26	Rock	0.55	0.1	1781.2	0.3	69	<0.1	23.1	36.5	1088	10.81	13.7	1.3	8.8	12	<0.1	<0.1	<0.1	183	0.51	0.217
TLR-27	Rock	0.45	0.6	5463.0	0.4	47	0.3	3.1	16.5	762	6.67	3.6	6.4	1.1	6	0.1	0.1	0.5	42	0.11	0.034
TLR-28	Rock	0.33	15.2	25.3	0.9	13	<0.1	42.7	25.3	1118	2.01	2.3	<0.5	0.8	139	<0.1	1.8	0.2	39	4.83	0.084
TLR-29	Rock	0.58	2.5	>10000	0.7	12	0.6	4.0	28.9	210	5.58	11.2	67.4	0.3	4	<0.1	0.2	1.2	51	0.06	0.017
TLR-30	Rock	0.59	1.8	>10000	0.5	26	1.5	2.9	10.6	187	5.73	6.3	18.3	1.0	24	<0.1	0.1	1.5	22	0.08	0.032
TLR-31	Rock	0.49	3.2	>10000	0.4	18	0.5	5.1	18.1	70	6.11	13.4	8.0	0.1	3	<0.1	0.2	0.5	43	0.03	0.018
TLR-32	Rock	0.48	0.9	>10000	0.4	4	1.3	1.6	10.8	63	3.59	5.6	64.7	<0.1	10	<0.1	0.2	1.4	11	0.03	0.007
TLR-33	Rock	0.41	0.9	74.1	2.2	53	<0.1	7.8	12.4	999	3.50	2.1	0.5	6.8	25	<0.1	0.1	0.2	61	1.25	0.087
TLR-34	Rock	0.40	0.4	7027.7	9.2	54	1.0	26.4	65.2	2787	4.79	44.4	15.9	6.0	48	0.8	0.5	0.2	92	6.46	0.175
TLR-35	Rock	0.39	1.0	356.8	3.2	65	<0.1	20.6	29.3	899	3.55	15.3	1.9	4.1	235	<0.1	1.3	0.2	69	2.83	0.169
TLR-36	Rock	0.31	2.6	2055.7	3.6	55	0.4	17.5	45.1	659	3.63	14.7	6.1	5.6	230	0.2	2.5	0.4	75	1.87	0.182
TLR-37	Rock	0.33	5.7	1054.4	2.9	17	0.2	1.1	5.4	451	0.69	63.2	3.2	33.4	31	<0.1	19.9	0.1	2	2.07	0.028
BLOR-01	Rock	0.62	22.9	146.7	7.5	69	0.4	17.0	23.5	2247	4.23	37.4	3.7	7.9	262	0.8	1.6	0.2	128	4.90	0.171



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	0.01	
TLR-09	Rock	24	17	0.76	33	0.088	6	1.84	0.200	0.24	<0.1	<0.01	4.9	<0.1	0.15	7	0.6	<0.2	
TLR-10	Rock	9	<1	0.04	58	0.095	2	0.30	0.032	0.27	0.5	<0.01	0.4	<0.1	<0.05	1	<0.5	<0.2	
TLR-11	Rock	12	1	0.13	82	0.027	<1	0.30	0.086	0.11	0.1	<0.01	0.5	<0.1	0.44	2	<0.5	<0.2	
TLR-12	Rock	11	7	0.44	58	0.088	2	0.79	0.073	0.12	2.6	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2	
TLR-13	Rock	14	32	0.83	30	0.079	2	1.01	0.058	0.06	0.2	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2	
TLR-14	Rock	16	10	0.81	36	0.112	3	1.01	0.084	0.21	0.3	<0.01	3.5	<0.1	0.52	5	2.0	<0.2	1.17
TLR-15	Rock	14	1	0.12	168	0.001	<1	0.36	0.012	0.16	<0.1	<0.01	1.8	<0.1	0.57	<1	0.6	<0.2	
TLR-16	Rock	21	10	1.51	48	0.021	2	1.61	0.060	0.21	0.2	<0.01	6.2	<0.1	<0.05	8	0.6	<0.2	
TLR-17	Rock	4	<1	0.29	65	<0.001	<1	0.44	0.004	0.13	<0.1	<0.01	5.5	<0.1	1.32	2	6.5	<0.2	2.65
TLR-18	Rock	17	9	1.09	43	0.026	<1	1.23	0.040	0.15	2.6	<0.01	6.2	<0.1	<0.05	6	0.9	<0.2	
TLR-19	Rock	9	8	0.44	34	0.007	4	1.27	0.081	0.31	0.1	<0.01	2.4	<0.1	0.22	5	<0.5	<0.2	
TLR-20	Rock	20	9	0.29	80	0.014	<1	0.60	0.051	0.15	0.3	<0.01	5.0	<0.1	0.41	3	0.8	<0.2	
TLR-21	Rock	4	2	0.11	207	0.002	3	0.33	0.006	0.08	0.7	0.03	3.3	<0.1	0.07	2	1.7	2.3	
TLR-22	Rock	1	2	0.02	83	<0.001	<1	0.05	0.005	0.02	0.5	0.02	1.0	<0.1	0.06	<1	1.4	2.0	
TLR-23	Rock	21	3	0.34	54	0.079	<1	0.77	0.056	0.08	27.8	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2	
TLR-24	Rock	2	1	0.01	17	0.002	17	0.12	0.029	0.02	0.1	0.10	0.5	<0.1	9.04	<1	3.5	4.6	1.26
TLR-25	Rock	37	3	0.67	45	0.003	2	1.23	0.070	0.09	0.9	0.02	6.2	<0.1	0.80	6	1.1	1.6	
TLR-26	Rock	22	5	4.54	45	0.006	<1	5.89	0.010	0.10	<0.1	<0.01	7.8	<0.1	<0.05	26	<0.5	<0.2	
TLR-27	Rock	2	<1	1.38	52	0.004	6	2.14	0.005	0.01	0.3	<0.01	7.3	<0.1	<0.05	9	0.6	0.2	
TLR-28	Rock	3	6	1.64	43	0.070	2	0.58	0.005	0.02	0.6	<0.01	4.6	<0.1	0.67	2	<0.5	<0.2	
TLR-29	Rock	<1	<1	0.03	19	<0.001	4	0.26	0.003	0.10	11.3	<0.01	8.6	<0.1	<0.05	1	1.0	0.4	5.06
TLR-30	Rock	1	1	0.20	421	<0.001	5	0.58	0.003	0.05	1.1	<0.01	5.6	<0.1	0.21	3	0.7	0.7	2.70
TLR-31	Rock	1	3	0.03	12	0.001	<1	0.12	0.005	0.04	2.6	<0.01	14.7	<0.1	<0.05	<1	1.3	0.3	1.27
TLR-32	Rock	<1	<1	0.02	282	<0.001	<1	0.06	0.004	0.03	0.9	<0.01	0.7	<0.1	0.41	<1	1.5	0.9	2.26
TLR-33	Rock	35	7	0.52	184	0.004	4	0.95	0.034	0.19	<0.1	0.01	5.9	<0.1	<0.05	5	<0.5	<0.2	
TLR-34	Rock	19	11	0.35	51	0.113	4	1.76	0.412	0.10	0.4	<0.01	7.7	<0.1	0.83	7	0.5	<0.2	
TLR-35	Rock	17	9	1.47	35	0.121	8	1.78	0.039	0.11	0.4	<0.01	2.8	<0.1	0.06	6	<0.5	<0.2	
TLR-36	Rock	26	8	1.08	90	0.119	8	1.66	0.066	0.17	0.3	<0.01	3.3	<0.1	0.05	6	<0.5	<0.2	
TLR-37	Rock	35	<1	0.04	47	<0.001	5	0.36	0.020	0.21	0.2	1.43	1.1	<0.1	0.09	<1	<0.5	<0.2	
BLOR-01	Rock	26	21	0.38	81	0.123	75	1.63	0.149	0.08	1.1	0.02	7.2	<0.1	0.15	8	<0.5	<0.2	



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Project: None Given
Report Date: September 11, 2017

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CERTIFICATE OF ANALYSIS

VAN17001637.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
BLOR-02	Rock	0.49	46.4	>10000	12.0	79	39.7	127.6	211.7	2957	14.51	179.8	521.2	2.2	15	0.6	0.7	1.1	127	5.82	0.049
BLOR-03	Rock	0.62	0.3	53.2	2.4	56	<0.1	6.1	11.2	1083	2.52	5.4	1.3	4.1	196	<0.1	0.4	<0.1	25	3.70	0.051
BLOR-04	Rock	0.48	3.0	157.2	6.6	37	0.2	24.3	12.2	345	3.95	45.5	1.1	5.0	52	0.1	1.4	0.6	40	0.72	0.068
BLOR-05	Rock	1.39	49.4	63.8	14.3	105	0.2	29.9	11.5	450	3.53	80.8	5.3	4.2	119	0.5	0.6	0.2	32	5.10	0.109
BLOR-06	Rock	0.88	0.2	>10000	23.0	83	4.1	17.4	43.4	986	3.85	12.6	19.4	2.2	301	0.2	1.1	0.4	24	7.16	0.079
BLOR-07	Rock	0.80	0.5	22.5	1.8	30	<0.1	7.8	17.4	899	3.06	37.1	<0.5	5.8	200	<0.1	0.9	<0.1	65	2.73	0.177
BLOR-08	Rock	0.37	0.8	9726.6	3.2	40	0.3	34.2	39.0	670	9.16	4.6	57.7	7.0	59	<0.1	0.3	0.1	127	2.20	0.188
BLOR-09	Rock	1.06	0.5	185.3	1.6	16	<0.1	13.5	14.7	483	4.22	5.5	2.0	5.2	155	<0.1	0.4	<0.1	133	4.05	0.191
BLOR-10	Rock	0.22	0.3	279.4	1.7	21	<0.1	15.4	6.8	262	3.42	2.9	2.4	1.7	19	0.1	0.2	<0.1	94	0.75	0.120
BLOR-11	Rock	0.73	0.4	795.1	1.3	15	<0.1	11.1	12.6	611	5.24	4.3	3.6	6.6	97	<0.1	0.3	<0.1	107	3.63	0.197
BLOR-12	Rock	0.69	0.6	1598.6	1.4	14	<0.1	12.8	11.4	543	5.71	6.6	3.2	6.8	161	<0.1	0.9	0.2	92	3.05	0.204
EHUR-01	Rock	0.25	2.2	1333.6	1.2	6	0.3	42.1	57.4	367	8.05	<0.5	4.5	0.6	13	<0.1	0.4	0.4	62	2.69	0.117
EHUR-02	Rock	1.23	0.3	61.1	2.7	45	<0.1	4.4	14.3	810	3.80	5.2	1.3	0.3	30	0.1	0.6	<0.1	140	2.10	0.118
EHUR-03	Rock	0.88	0.6	70.4	5.9	68	<0.1	9.4	14.7	1185	4.28	6.9	3.3	1.7	44	0.2	0.4	<0.1	154	1.56	0.107
EHUR-04	Rock	0.93	3.1	707.5	6.3	19	0.3	31.3	70.5	737	6.74	138.1	5.3	0.3	139	<0.1	3.3	<0.1	63	2.28	0.089
EHUR-05	Rock	1.08	2.1	90.4	66.0	933	0.5	14.5	23.2	1227	3.60	37.6	0.8	0.9	29	7.2	1.5	<0.1	123	3.42	0.127
EHUR-06	Rock	0.45	2.3	1254.2	85.1	60	<0.1	128.7	9.9	4157	4.89	4.2	1.4	0.7	6	0.2	2.3	0.7	82	0.05	0.018
EHUR-07	Rock	0.67	2.3	17.9	2.5	119	<0.1	5.3	17.0	1713	4.35	9.7	1.1	13.4	99	<0.1	0.7	<0.1	123	4.08	0.125
THR-01	Rock	0.33	0.2	6.7	5.2	106	<0.1	7.5	12.9	1127	3.00	6.1	<0.5	1.0	113	<0.1	0.3	<0.1	90	1.67	0.121
THR-02	Rock	0.34	4.8	1098.3	4.3	36	0.9	14.8	11.3	814	3.64	2.2	288.3	4.1	36	0.2	0.4	0.9	81	0.59	0.142
THR-03	Rock	0.38	0.3	2.6	5.1	28	<0.1	3.8	3.3	350	1.22	3.0	<0.5	2.4	453	0.3	0.3	<0.1	31	1.04	0.046
THR-04	Rock	0.38	0.1	393.6	1.2	45	0.1	34.6	36.9	561	6.36	<0.5	14.5	<0.1	82	<0.1	<0.1	<0.1	412	2.69	0.003
THR-05	Rock	0.21	0.4	58.2	0.7	42	<0.1	4.1	9.4	679	3.40	<0.5	1.9	0.9	35	<0.1	<0.1	<0.1	116	1.50	0.113
THR-06	Rock	0.20	0.3	40.4	1.0	27	<0.1	18.9	9.4	392	2.11	<0.5	1.2	2.0	35	<0.1	<0.1	<0.1	66	1.11	0.041
THR-07	Rock	0.26	0.3	86.4	3.6	60	<0.1	4.7	11.6	714	2.79	1.6	1.8	0.9	72	0.1	0.1	<0.1	93	2.90	0.189
THR-08	Rock	0.31	0.6	419.5	2.7	42	0.2	48.8	46.4	730	4.46	<0.5	7.1	0.4	110	<0.1	0.2	<0.1	84	2.56	0.098
THR-09	Rock	0.34	0.3	118.4	0.7	33	0.1	20.8	10.8	531	9.06	<0.5	2.6	0.3	33	<0.1	0.2	<0.1	413	1.46	0.037
THR-10	Rock	0.44	0.4	111.4	1.2	30	<0.1	10.1	12.1	365	2.92	<0.5	0.9	0.7	256	<0.1	0.1	<0.1	59	1.96	0.220
THR-11	Rock	0.64	0.3	64.5	19.9	75	<0.1	1.9	6.1	553	3.02	0.6	0.9	0.4	228	0.4	0.2	<0.1	83	2.90	0.416
THR-12	Rock	0.27	1.1	21.3	0.8	69	<0.1	4.5	5.8	454	3.58	0.6	<0.5	1.6	91	<0.1	<0.1	<0.1	180	1.32	0.112



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN17001637.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01
BLOR-02	Rock	4	13	0.13	28	0.129	24	1.16	0.043	0.04	1.0	0.02	7.6	0.2	6.56	8	5.9	0.8	6.12
BLOR-03	Rock	6	5	0.77	11	0.057	2	1.20	0.079	<0.01	0.2	<0.01	3.7	<0.1	<0.05	3	<0.5	<0.2	
BLOR-04	Rock	10	6	0.19	27	0.106	5	0.95	0.169	0.13	0.2	<0.01	5.0	<0.1	2.32	3	6.4	<0.2	
BLOR-05	Rock	16	3	0.08	29	0.138	10	2.16	0.290	0.13	0.3	<0.01	2.5	<0.1	2.18	6	1.3	<0.2	
BLOR-06	Rock	12	5	0.92	3	0.119	1	1.56	0.004	<0.01	1.0	<0.01	2.9	<0.1	1.29	3	4.1	<0.2	1.21
BLOR-07	Rock	15	9	1.04	33	0.134	2	1.50	0.078	0.06	1.5	<0.01	4.4	<0.1	<0.05	7	<0.5	<0.2	
BLOR-08	Rock	28	12	3.38	240	0.018	2	3.34	0.023	0.39	<0.1	<0.01	7.7	<0.1	0.62	14	0.7	<0.2	
BLOR-09	Rock	27	13	0.89	48	0.092	4	1.82	0.071	0.28	1.7	<0.01	7.8	<0.1	<0.05	11	<0.5	<0.2	
BLOR-10	Rock	4	50	0.54	61	0.015	<1	0.84	0.144	0.12	<0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2	
BLOR-11	Rock	27	10	0.71	657	0.053	3	1.26	0.078	0.22	0.1	<0.01	7.9	<0.1	<0.05	7	<0.5	<0.2	
BLOR-12	Rock	22	10	0.62	54	0.056	<1	1.22	0.043	0.16	0.2	<0.01	6.3	<0.1	0.11	7	<0.5	<0.2	
EHUR-01	Rock	2	15	0.32	8	0.206	7	1.59	0.083	0.04	0.2	<0.01	4.2	<0.1	4.73	6	24.7	0.5	
EHUR-02	Rock	3	6	1.45	78	0.212	12	2.68	0.100	0.32	<0.1	<0.01	6.4	<0.1	0.17	12	<0.5	<0.2	
EHUR-03	Rock	8	12	1.23	85	0.183	12	2.48	0.092	0.12	0.2	0.01	9.2	<0.1	<0.05	12	<0.5	<0.2	
EHUR-04	Rock	<1	32	1.06	6	0.095	216	1.49	0.003	<0.01	0.1	0.03	2.8	<0.1	2.45	5	20.7	0.3	
EHUR-05	Rock	8	23	1.35	14	0.084	7	1.91	0.077	0.09	0.1	0.22	7.6	<0.1	0.21	10	1.1	<0.2	
EHUR-06	Rock	21	7	1.33	24	0.003	3	1.30	0.003	0.04	0.1	0.02	6.9	0.3	3.32	7	<0.5	0.6	
EHUR-07	Rock	36	5	0.49	123	0.026	8	0.82	0.101	0.18	<0.1	<0.01	9.6	<0.1	<0.05	5	<0.5	<0.2	
THR-01	Rock	9	5	1.66	75	0.144	4	2.14	0.073	0.19	0.2	<0.01	3.7	<0.1	<0.05	13	<0.5	<0.2	
THR-02	Rock	56	8	0.06	161	0.008	<1	0.51	0.082	0.24	0.5	0.01	6.0	<0.1	0.06	2	0.6	0.5	
THR-03	Rock	8	7	0.27	48	0.103	2	1.08	0.129	0.09	0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2	
THR-04	Rock	1	12	2.85	46	0.413	1	2.76	0.368	0.28	<0.1	<0.01	31.1	<0.1	<0.05	7	<0.5	<0.2	
THR-05	Rock	5	9	0.70	43	0.149	2	1.13	0.214	0.15	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2	
THR-06	Rock	8	112	1.01	43	0.159	1	0.91	0.122	0.13	<0.1	<0.01	5.9	<0.1	<0.05	4	<0.5	<0.2	
THR-07	Rock	5	2	0.83	38	0.106	8	2.45	0.096	0.19	0.2	<0.01	4.3	<0.1	<0.05	9	<0.5	<0.2	
THR-08	Rock	3	37	1.15	45	0.130	7	3.05	0.324	0.44	<0.1	<0.01	8.5	<0.1	1.44	6	2.5	0.4	
THR-09	Rock	<1	13	1.28	22	0.440	<1	0.86	0.144	0.12	<0.1	<0.01	18.7	<0.1	0.15	5	<0.5	<0.2	
THR-10	Rock	4	19	0.75	68	0.119	<1	1.79	0.085	0.16	<0.1	<0.01	3.5	<0.1	0.97	5	<0.5	<0.2	
THR-11	Rock	3	3	0.66	120	0.097	4	2.29	0.144	0.21	<0.1	<0.01	3.3	<0.1	0.65	6	<0.5	<0.2	
THR-12	Rock	10	5	0.96	303	0.248	<1	2.08	0.154	0.73	<0.1	<0.01	4.6	0.2	0.60	8	<0.5	<0.2	

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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CERTIFICATE OF ANALYSIS

VAN17001637.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
THR-15	Rock	0.38	1.2	3171.8	1.1	25	0.8	53.1	35.5	314	3.07	1.7	67.0	0.5	59	0.1	0.2	<0.1	132	1.45	0.174
THR-16	Rock	0.21	0.3	134.8	1.9	51	<0.1	6.1	14.3	590	3.63	0.6	<0.5	0.8	33	0.1	<0.1	<0.1	164	2.61	0.168
THR-17	Rock	0.33	0.3	151.0	3.0	50	<0.1	7.1	13.5	724	3.61	1.8	<0.5	2.6	197	<0.1	0.1	<0.1	132	3.29	0.207
THR-18	Rock	0.16	0.5	331.5	14.9	64	<0.1	6.2	17.1	888	3.99	1.0	1.7	2.5	50	<0.1	<0.1	<0.1	132	4.07	0.214
THR-19	Rock	0.29	0.7	158.6	2.2	95	<0.1	8.4	19.5	1082	4.80	1.4	4.0	3.2	32	0.1	<0.1	<0.1	175	2.57	0.210
THR-20	Rock	0.15	0.4	389.6	2.2	85	0.2	6.6	18.3	899	4.49	1.0	2.7	3.6	37	<0.1	0.1	<0.1	143	1.88	0.221
THR-21	Rock	0.49	0.9	187.5	3.3	74	<0.1	6.3	16.3	771	4.36	1.8	2.0	4.2	29	<0.1	<0.1	<0.1	152	2.98	0.223
THR-22	Rock	0.42	0.5	113.5	5.7	34	<0.1	4.2	10.5	430	3.18	1.1	0.9	3.8	86	<0.1	0.2	<0.1	147	5.06	0.161
THR-23	Rock	0.21	0.7	231.3	1.6	43	<0.1	32.9	18.4	480	3.08	1.4	3.4	0.7	35	<0.1	<0.1	<0.1	108	1.02	0.161
THR-24	Rock	0.52	13.0	105.5	10.3	86	0.5	25.5	30.0	2001	4.23	37.6	2.6	10.2	189	0.8	1.5	0.2	119	3.97	0.174
LHUR-01	Rock	0.63	1.4	14.6	2.7	35	<0.1	3.0	11.7	872	2.97	12.9	1.4	15.8	30	<0.1	0.4	<0.1	42	1.65	0.093
LHUR-02	Rock	0.96	35.0	248.6	1.6	8	<0.1	8.9	9.1	322	2.51	<0.5	1.1	0.6	29	<0.1	0.2	<0.1	49	5.77	0.115
LHUR-03	Rock	0.57	3.8	1384.5	2.0	11	0.4	2.7	3.7	1170	2.60	48.5	1.5	14.4	122	0.1	1.7	0.3	41	3.90	0.082
LHUR-04	Rock	0.13	1.9	371.5	7.0	137	0.1	29.2	21.5	255	5.13	263.3	14.2	0.4	9	0.9	1.4	0.1	73	5.14	0.115
LHUR-05	Rock	0.26	1.2	1164.1	9.9	38	1.1	60.4	86.7	410	10.77	5.9	28.2	0.5	11	0.1	1.6	0.7	105	2.77	0.095
LHUR-06	Rock	0.40	0.3	123.5	1.4	40	<0.1	27.6	14.7	422	2.85	1.5	1.5	0.6	44	<0.1	0.2	<0.1	107	1.31	0.149
LHUR-07	Rock	0.49	2.7	7.4	7.9	44	<0.1	8.1	14.1	1131	3.73	6.4	1.1	17.8	51	<0.1	1.0	<0.1	124	2.11	0.131



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		La	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	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01
THR-15	Rock	4	59	1.34	151	0.193	2	1.85	0.093	0.84	0.1	0.02	5.3	0.1	0.50	5	1.2	0.5
THR-16	Rock	9	4	0.97	23	0.170	5	2.27	0.129	0.19	<0.1	<0.01	5.1	<0.1	<0.05	8	<0.5	<0.2
THR-17	Rock	11	6	0.97	20	0.145	9	2.51	0.093	0.11	0.3	<0.01	5.2	<0.1	<0.05	9	<0.5	<0.2
THR-18	Rock	10	2	1.14	21	0.138	6	3.42	0.085	0.09	0.2	<0.01	6.3	<0.1	<0.05	13	<0.5	<0.2
THR-19	Rock	12	8	1.42	51	0.186	4	2.44	0.061	0.12	0.2	<0.01	7.6	<0.1	<0.05	10	<0.5	<0.2
THR-20	Rock	16	13	1.38	22	0.157	6	2.27	0.100	0.15	0.4	<0.01	5.2	<0.1	<0.05	10	<0.5	<0.2
THR-21	Rock	15	10	1.12	24	0.194	7	2.73	0.083	0.13	0.5	<0.01	4.1	<0.1	<0.05	12	<0.5	<0.2
THR-22	Rock	10	3	0.51	19	0.132	7	3.56	0.045	0.03	0.3	<0.01	4.4	<0.1	<0.05	13	<0.5	<0.2
THR-23	Rock	3	59	1.61	94	0.183	<1	1.73	0.112	0.70	<0.1	<0.01	4.5	0.1	<0.05	5	<0.5	<0.2
THR-24	Rock	32	26	0.44	92	0.121	23	1.62	0.100	0.07	0.6	0.01	7.0	<0.1	0.21	7	<0.5	<0.2
LHUR-01	Rock	33	3	0.26	85	0.010	5	0.41	0.053	0.15	<0.1	0.02	4.8	<0.1	0.62	2	<0.5	<0.2
LHUR-02	Rock	2	12	0.26	17	0.137	7	1.45	0.067	0.02	0.1	<0.01	3.5	<0.1	0.92	4	3.7	<0.2
LHUR-03	Rock	32	4	0.04	1983	0.029	2	0.36	0.068	0.08	3.1	0.02	5.7	<0.1	0.06	<1	0.6	<0.2
LHUR-04	Rock	<1	10	0.22	8	0.056	12	4.10	0.006	0.07	<0.1	0.08	4.7	<0.1	2.70	16	9.7	<0.2
LHUR-05	Rock	8	5	0.67	9	0.137	14	2.39	0.071	0.03	0.2	0.06	6.3	0.1	9.25	11	13.9	0.5
LHUR-06	Rock	2	63	1.28	67	0.180	1	2.20	0.179	0.79	0.5	<0.01	3.3	0.1	<0.05	7	<0.5	<0.2
LHUR-07	Rock	39	8	0.70	47	0.146	18	1.40	0.057	0.12	0.6	<0.01	3.5	<0.1	<0.05	9	<0.5	<0.2



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Project: None Given
Report Date: September 11, 2017

Page: 1 of 2 Part: 1 of 2

QUALITY CONTROL REPORT

VAN17001637.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
Pulp Duplicates																					
BBLR-01	Rock	1.21	1.2	138.9	2.5	12	<0.1	3.7	60.5	846	3.69	29.9	0.8	3.5	134	0.1	0.3	0.1	71	5.20	0.174
REP BBLR-01	QC		1.1	138.4	2.5	11	<0.1	3.4	59.1	850	3.63	30.2	1.6	3.4	132	0.1	0.3	0.1	69	5.18	0.172
TLR-32	Rock	0.48	0.9	>10000	0.4	4	1.3	1.6	10.8	63	3.59	5.6	64.7	<0.1	10	<0.1	0.2	1.4	11	0.03	0.007
REP TLR-32	QC		1.0	>10000	0.4	5	1.3	1.8	11.0	62	3.58	5.9	62.7	<0.1	10	<0.1	0.3	1.4	11	0.03	0.007
THR-12	Rock	0.27	1.1	21.3	0.8	69	<0.1	4.5	5.8	454	3.58	0.6	<0.5	1.6	91	<0.1	<0.1	<0.1	180	1.32	0.112
REP THR-12	QC		1.1	21.3	0.9	68	<0.1	4.9	5.8	460	3.63	<0.5	<0.5	1.7	94	0.2	<0.1	<0.1	182	1.35	0.118
LHUR-06	Rock	0.40	0.3	123.5	1.4	40	<0.1	27.6	14.7	422	2.85	1.5	1.5	0.6	44	<0.1	0.2	<0.1	107	1.31	0.149
REP LHUR-06	QC		0.4	124.7	1.5	41	<0.1	27.0	14.5	413	2.80	2.2	1.9	0.6	43	<0.1	0.3	<0.1	104	1.28	0.156
Core Reject Duplicates																					
KBHR-06	Rock	0.62	0.5	127.4	2.6	47	<0.1	6.2	12.2	494	2.88	0.6	2.0	1.6	81	<0.1	0.1	<0.1	102	2.38	0.250
DUP KBHR-06	QC		0.5	131.4	2.8	49	<0.1	6.0	12.5	500	3.02	0.9	1.5	1.8	87	<0.1	<0.1	<0.1	109	2.57	0.259
TLR-29	Rock	0.58	2.5	>10000	0.7	12	0.6	4.0	28.9	210	5.58	11.2	67.4	0.3	4	<0.1	0.2	1.2	51	0.06	0.017
DUP TLR-29	QC		2.9	>10000	0.7	13	0.7	4.3	31.3	224	5.94	12.8	62.1	0.3	4	<0.1	0.2	1.3	52	0.06	0.019
Reference Materials																					
STD DS11	Standard		14.3	153.4	142.1	352	1.7	78.7	14.4	1023	3.20	42.5	68.9	8.0	68	2.2	8.7	12.2	52	1.07	0.072
STD DS11	Standard		13.3	140.9	131.6	334	1.6	74.5	13.0	1003	3.00	41.4	64.2	7.6	65	2.1	9.2	12.1	47	1.00	0.069
STD DS11	Standard		15.6	148.6	137.6	344	1.7	80.2	14.0	1027	3.20	42.1	77.1	8.6	78	2.3	9.4	12.1	52	1.10	0.068
STD DS11	Standard		13.4	144.0	133.2	346	1.8	78.2	13.4	1029	3.09	42.9	75.7	7.8	70	2.3	9.2	11.6	48	1.02	0.069
STD OREAS132A	Standard																				
STD OREAS134B	Standard																				
STD OREAS132A	Standard																				
STD OREAS134B	Standard																				
STD OXC129	Standard		1.2	28.4	6.2	41	<0.1	81.3	21.2	433	3.08	<0.5	197.6	1.8	188	<0.1	<0.1	<0.1	54	0.69	0.106
STD OXC129	Standard		1.2	24.0	5.9	37	<0.1	72.8	19.2	409	2.94	<0.5	190.4	1.8	187	<0.1	<0.1	<0.1	52	0.63	0.097
STD OXC129	Standard		1.2	30.0	6.3	40	<0.1	78.0	20.1	420	3.08	<0.5	197.6	1.9	220	<0.1	<0.1	<0.1	54	0.76	0.098
STD OXC129	Standard		1.2	24.8	5.7	40	<0.1	74.6	19.2	405	2.94	<0.5	189.2	1.7	180	<0.1	<0.1	<0.1	49	0.66	0.097
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701



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Project: None Given
Report Date: September 11, 2017

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QUALITY CONTROL REPORT

VAN17001637.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	MA404
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Cu %
Pulp Duplicates	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	0.01
BBLR-01 Rock	8	3	0.26	30	0.081	1	0.74	0.064	0.03	3.6	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
REP BBLR-01 QC	8	3	0.26	28	0.076	2	0.73	0.062	0.03	3.4	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
TLR-32 Rock	<1	<1	0.02	282	<0.001	<1	0.06	0.004	0.03	0.9	<0.01	0.7	<0.1	0.41	<1	1.5	0.9	2.26
REP TLR-32 QC	<1	<1	0.02	267	<0.001	<1	0.06	0.004	0.03	1.0	<0.01	0.8	<0.1	0.41	<1	1.3	0.9	
THR-12 Rock	10	5	0.96	303	0.248	<1	2.08	0.154	0.73	<0.1	<0.01	4.6	0.2	0.60	8	<0.5	<0.2	
REP THR-12 QC	10	5	0.97	301	0.255	2	2.13	0.158	0.74	<0.1	<0.01	4.5	0.2	0.60	9	<0.5	<0.2	
LHUR-06 Rock	2	63	1.28	67	0.180	1	2.20	0.179	0.79	0.5	<0.01	3.3	0.1	<0.05	7	<0.5	<0.2	
REP LHUR-06 QC	2	63	1.26	67	0.183	2	2.12	0.179	0.79	0.5	<0.01	3.3	0.1	<0.05	7	<0.5	<0.2	
Core Reject Duplicates																		
KBHR-06 Rock	11	6	0.70	16	0.105	3	2.00	0.072	0.09	0.2	<0.01	2.9	<0.1	<0.05	8	<0.5	<0.2	
DUP KBHR-06 QC	12	7	0.73	17	0.112	4	2.15	0.089	0.10	0.2	<0.01	3.6	<0.1	<0.05	8	<0.5	<0.2	
TLR-29 Rock	<1	<1	0.03	19	<0.001	4	0.26	0.003	0.10	11.3	<0.01	8.6	<0.1	<0.05	1	1.0	0.4	5.06
DUP TLR-29 QC	1	<1	0.03	20	<0.001	4	0.21	0.003	0.08	11.8	<0.01	8.8	<0.1	<0.05	1	1.4	0.5	5.12
Reference Materials																		
STD DS11 Standard	18	61	0.85	385	0.100	10	1.14	0.074	0.40	3.2	0.30	3.2	5.2	0.29	5	2.1	4.6	
STD DS11 Standard	18	57	0.82	356	0.085	5	1.07	0.067	0.38	3.0	0.26	3.0	4.5	0.27	5	2.0	4.5	
STD DS11 Standard	21	63	0.86	385	0.103	8	1.25	0.080	0.42	3.1	0.27	3.4	4.7	0.27	5	2.4	5.2	
STD DS11 Standard	19	58	0.85	365	0.091	6	1.13	0.071	0.39	3.0	0.26	3.1	4.9	0.28	5	2.4	4.3	
STD OREAS132A Standard																		0.04
STD OREAS134B Standard																		0.13
STD OREAS132A Standard																		0.04
STD OREAS134B Standard																		0.13
STD OXC129 Standard	13	54	1.59	51	0.420	1	1.61	0.597	0.37	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2	
STD OXC129 Standard	12	48	1.49	49	0.370	1	1.49	0.565	0.35	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2	
STD OXC129 Standard	13	52	1.58	50	0.400	<1	1.69	0.611	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2	
STD OXC129 Standard	12	49	1.49	47	0.385	<1	1.51	0.571	0.35	<0.1	<0.01	0.8	<0.1	<0.05	5	0.5	<0.2	
STD OXC129 Expected	13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6			
STD DS11 Expected	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56	



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Project: None Given
Report Date: September 11, 2017

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QUALITY CONTROL REPORT

VAN17001637.1

		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	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
STD OREAS132A Expected																					
STD OREAS134B Expected																					
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
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
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
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
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank		0.7	4.8	1.4	34	<0.1	0.9	3.5	533	1.75	0.9	<0.5	2.4	28	<0.1	<0.1	<0.1	24	0.66	0.038
ROCK-VAN	Prep Blank		0.7	3.6	1.4	31	<0.1	0.8	3.3	472	1.60	0.9	<0.5	2.1	21	<0.1	<0.1	<0.1	20	0.56	0.037



QUALITY CONTROL REPORT **VAN17001637.1**

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	MA404
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
STD OREAS132A Expected																			0.0458
STD OREAS134B Expected																			0.1348
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.01
BLK	Blank																		<0.01
Prep Wash																			
ROCK-VAN	Prep Blank	7	2	0.44	66	0.093	1	0.98	0.130	0.12	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2	
ROCK-VAN	Prep Blank	6	2	0.41	57	0.069	1	0.76	0.073	0.08	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2	

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.



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: **Kreft, Bernie**
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft
Receiving Lab: Canada-Vancouver
Received: August 03, 2017
Report Date: August 21, 2017
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN17001638.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return 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: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	80	Dry at 60C			VAN
SS80	80	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	80	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	80	Warehouse handling / disposition of pulps			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.



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: August 21, 2017

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CERTIFICATE OF ANALYSIS

VAN17001638.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	
LHUD-01	Soil	1.5	61.4	5.9	72	0.1	41.1	16.5	1187	4.11	10.8	3.1	2.2	29	0.1	0.6	<0.1	97	0.57	0.076	10
LHUD-02	Soil	1.7	66.4	6.4	62	0.3	29.6	17.3	865	3.84	13.7	2.3	2.1	35	0.2	0.6	<0.1	109	0.74	0.089	12
LHUD-03	Soil	1.6	77.0	6.2	54	<0.1	31.4	17.4	844	3.88	15.3	1.5	1.9	26	<0.1	0.7	<0.1	114	0.60	0.066	11
LHUD-04	Soil	1.3	77.2	6.2	60	<0.1	33.8	17.7	946	4.13	11.6	4.0	2.3	31	0.1	0.6	<0.1	121	0.63	0.068	11
LHUD-05	Soil	1.8	66.0	6.1	47	<0.1	28.6	16.9	750	3.63	12.7	1.5	1.8	27	<0.1	0.6	<0.1	111	0.50	0.043	6
LHUD-06	Soil	1.8	63.4	5.8	76	<0.1	34.1	17.1	747	3.92	13.6	2.3	2.5	32	<0.1	0.6	<0.1	109	0.60	0.061	9
LHUD-07	Soil	1.6	66.8	7.1	57	<0.1	34.9	16.7	962	4.17	14.9	1.2	2.6	23	0.2	0.6	<0.1	112	0.53	0.069	11
LHUD-08	Soil	2.3	76.3	7.7	122	<0.1	36.4	21.5	1230	4.88	16.8	1.3	1.5	18	0.3	0.6	<0.1	125	0.40	0.075	11
LHUD-09	Soil	1.2	90.5	6.4	60	<0.1	29.6	18.0	1108	4.20	11.9	3.8	3.7	25	<0.1	0.7	<0.1	111	0.66	0.097	20
LHUD-010	Soil	6.8	561.0	48.2	629	0.3	26.7	58.8	1394	6.58	302.2	2.8	2.0	181	2.8	3.3	0.3	150	1.74	0.108	21
LHUD-011	Soil	14.5	616.5	6.5	60	<0.1	67.4	22.0	715	5.86	60.0	3.9	3.9	23	0.2	2.0	0.3	118	0.66	0.065	28
LHUD-012	Soil	11.1	153.3	8.5	76	<0.1	44.8	19.4	788	4.52	18.2	2.5	1.5	19	0.3	0.9	0.1	119	0.53	0.049	6
LHUD-013	Soil	4.1	85.7	11.3	161	0.2	37.1	18.9	689	3.72	25.3	16.2	1.9	29	0.5	1.0	<0.1	103	0.81	0.096	8
LHUD-014	Soil	5.7	74.3	6.8	94	0.2	49.8	20.4	892	4.35	11.8	1.1	2.9	33	0.4	0.7	<0.1	94	0.84	0.082	17
LHUD-015	Soil	6.4	614.3	20.8	683	0.4	102.0	28.3	893	5.01	121.0	2.0	1.7	32	9.3	18.7	<0.1	96	2.01	0.081	11
LHUD-016	Soil	6.4	155.7	12.7	119	<0.1	56.5	54.3	813	7.15	77.2	1.3	1.3	14	0.7	2.6	0.2	131	0.79	0.039	5
LHUD-017	Soil	3.0	78.2	13.5	110	0.4	22.4	26.5	3508	4.94	84.5	1.2	6.9	15	0.4	1.7	0.2	61	0.42	0.086	42
RHUD-01	Soil	1.2	106.8	8.0	94	<0.1	36.8	20.2	1133	4.63	13.2	4.3	2.5	26	0.1	0.7	<0.1	129	0.61	0.068	15
RHUD-02	Soil	1.3	114.1	9.1	65	<0.1	40.8	23.3	1317	5.15	21.9	15.9	2.1	21	<0.1	1.3	<0.1	133	0.53	0.067	15
RHUD-03	Soil	1.4	91.8	7.9	70	<0.1	36.1	19.9	882	4.35	14.8	1.5	1.7	17	0.2	0.7	<0.1	122	0.32	0.037	6
RHUD-04	Soil	1.4	68.1	6.3	63	<0.1	39.9	19.3	993	4.46	12.9	2.0	1.8	19	0.2	0.6	<0.1	119	0.38	0.057	8
RHUD-05	Soil	1.1	71.8	7.0	67	0.1	30.1	23.4	1253	4.89	12.0	3.0	2.7	23	0.1	0.6	<0.1	150	0.57	0.044	12
RHUD-06	Soil	1.8	59.8	6.3	70	<0.1	34.9	19.9	754	4.48	14.7	1.2	1.2	11	0.3	0.6	<0.1	117	0.22	0.043	5
RHUD-07	Soil	2.9	50.5	5.9	66	<0.1	24.8	15.9	828	4.00	12.4	3.7	3.5	25	0.1	0.5	<0.1	106	0.65	0.087	12
RHUD-08	Soil	2.1	71.5	6.4	86	<0.1	31.5	19.4	516	4.22	28.3	1.5	2.3	24	0.3	0.6	<0.1	120	0.58	0.050	10
RHUD-09	Soil	2.5	155.0	11.5	71	<0.1	35.5	19.0	1123	4.27	15.3	2.0	2.6	18	0.2	0.8	<0.1	116	0.39	0.061	9
RHUD-010	Soil	3.1	37.1	12.0	103	<0.1	20.4	13.4	671	5.70	23.2	<0.5	1.7	11	0.6	0.7	0.1	154	0.15	0.084	7
RHUD-011	Soil	7.1	282.5	25.1	129	0.7	31.9	25.9	1267	4.73	54.1	7.3	2.4	41	1.1	2.3	0.2	109	1.12	0.073	33
RHUD-012	Soil	5.1	111.0	12.4	122	0.2	43.1	23.4	1500	4.30	52.1	5.4	2.8	33	0.4	1.5	0.1	101	0.94	0.067	18
RHUD-013	Soil	1.5	70.5	9.0	87	0.2	30.2	15.8	600	3.75	21.3	4.4	2.0	25	0.3	1.1	<0.1	95	0.61	0.079	11



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LHUD-01	Soil	48	0.83	173	0.084	4	1.68	0.018	0.09	0.1	0.04	9.5	<0.1	<0.05	6	<0.5	<0.2
LHUD-02	Soil	43	0.67	150	0.078	4	1.46	0.020	0.07	0.1	0.18	10.7	0.1	<0.05	5	<0.5	<0.2
LHUD-03	Soil	44	0.69	176	0.079	3	1.61	0.016	0.07	<0.1	0.04	9.8	0.1	<0.05	5	<0.5	<0.2
LHUD-04	Soil	48	0.82	143	0.079	3	1.89	0.016	0.08	<0.1	0.02	9.2	<0.1	<0.05	6	<0.5	<0.2
LHUD-05	Soil	37	0.59	154	0.055	3	1.62	0.013	0.07	<0.1	0.03	6.8	0.1	<0.05	5	<0.5	<0.2
LHUD-06	Soil	44	0.75	237	0.085	4	1.74	0.020	0.10	0.1	0.04	10.7	0.1	<0.05	6	<0.5	<0.2
LHUD-07	Soil	40	0.66	180	0.069	3	2.03	0.013	0.07	0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2
LHUD-08	Soil	46	0.72	176	0.066	4	2.14	0.012	0.09	0.1	0.02	7.1	0.1	<0.05	8	<0.5	<0.2
LHUD-09	Soil	42	0.71	158	0.082	4	1.53	0.023	0.10	0.1	0.05	12.0	<0.1	<0.05	5	<0.5	<0.2
LHUD-010	Soil	28	1.79	136	0.123	3	3.08	0.061	0.09	0.2	0.05	13.8	<0.1	<0.05	11	2.9	0.6
LHUD-011	Soil	43	0.70	91	0.064	7	2.21	0.014	0.05	<0.1	0.06	15.0	0.2	<0.05	7	1.5	<0.2
LHUD-012	Soil	47	0.80	160	0.034	4	2.20	0.013	0.06	0.1	0.04	7.1	0.2	<0.05	6	0.9	<0.2
LHUD-013	Soil	49	0.78	85	0.079	5	1.51	0.016	0.08	0.1	0.07	8.2	0.1	<0.05	5	<0.5	<0.2
LHUD-014	Soil	48	0.85	227	0.177	6	1.89	0.043	0.10	0.1	0.04	8.6	0.1	<0.05	7	0.9	<0.2
LHUD-015	Soil	45	0.76	105	0.112	7	1.55	0.018	0.08	0.2	0.11	10.4	0.1	<0.05	6	1.1	<0.2
LHUD-016	Soil	45	0.84	78	0.102	3	2.16	0.008	0.06	0.2	0.02	5.3	0.2	<0.05	9	1.5	<0.2
LHUD-017	Soil	18	0.42	315	0.029	2	1.23	0.009	0.11	0.1	0.03	10.1	<0.1	<0.05	4	<0.5	<0.2
RHUD-01	Soil	49	0.94	185	0.073	4	2.36	0.017	0.09	0.1	0.06	14.1	0.1	<0.05	7	<0.5	<0.2
RHUD-02	Soil	49	0.85	162	0.074	4	2.33	0.014	0.08	0.1	0.03	13.0	0.2	<0.05	8	0.6	<0.2
RHUD-03	Soil	48	0.75	160	0.048	4	2.59	0.013	0.07	<0.1	0.03	7.3	0.1	<0.05	7	<0.5	<0.2
RHUD-04	Soil	46	0.80	175	0.078	3	2.25	0.013	0.07	0.1	0.02	7.2	0.1	<0.05	7	<0.5	<0.2
RHUD-05	Soil	40	1.06	127	0.103	4	2.24	0.015	0.06	<0.1	0.03	9.9	<0.1	<0.05	8	<0.5	<0.2
RHUD-06	Soil	43	0.66	129	0.051	4	2.42	0.011	0.07	<0.1	0.03	5.5	0.1	<0.05	7	<0.5	<0.2
RHUD-07	Soil	35	0.55	146	0.097	3	1.37	0.016	0.07	0.2	0.02	5.8	<0.1	<0.05	5	0.5	<0.2
RHUD-08	Soil	43	0.72	105	0.129	4	1.68	0.015	0.08	0.2	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
RHUD-09	Soil	41	0.65	130	0.056	4	2.03	0.013	0.07	<0.1	0.03	6.8	0.1	<0.05	5	0.6	<0.2
RHUD-010	Soil	41	0.50	99	0.159	2	1.85	0.009	0.06	0.2	0.02	4.4	<0.1	<0.05	13	<0.5	<0.2
RHUD-011	Soil	40	0.68	147	0.103	8	2.04	0.021	0.06	0.1	0.21	17.5	0.2	<0.05	7	1.0	<0.2
RHUD-012	Soil	46	0.79	194	0.180	5	1.96	0.026	0.08	<0.1	0.09	10.2	0.1	<0.05	7	0.8	<0.2
RHUD-013	Soil	44	0.66	124	0.079	4	1.39	0.018	0.06	0.1	0.08	8.8	<0.1	<0.05	4	<0.5	<0.2



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	
RHUD-014	Soil	9.7	85.5	8.8	127	0.3	43.4	21.8	872	4.48	14.5	4.3	2.4	45	0.4	0.9	<0.1	94	0.95	0.073	18
RHUD-015	Soil	6.0	77.9	9.6	105	0.2	32.0	18.1	767	4.10	51.9	2.9	2.0	30	0.4	1.8	<0.1	108	0.73	0.095	11
RHUD-016	Soil	4.5	326.3	560.7	1747	2.3	50.4	116.6	1493	8.26	540.9	5.2	1.4	44	19.0	12.7	0.4	151	1.85	0.115	13
RHUD-017	Soil	3.2	156.4	126.7	383	0.6	43.8	50.6	1254	5.39	612.4	3.2	1.6	33	2.6	10.5	0.2	110	1.13	0.085	9
JULD-01	Soil	2.0	1323.0	18.5	125	0.8	20.7	26.5	2530	5.20	149.7	7.6	11.9	42	0.4	3.2	0.6	106	1.08	0.204	46
JULD-02	Soil	3.0	184.7	30.2	220	1.9	30.7	52.0	3777	5.25	251.1	4.1	5.3	39	0.8	4.2	0.3	91	0.84	0.135	41
JULD-03	Soil	3.4	309.7	18.3	122	0.4	35.6	50.0	3322	4.95	63.3	5.8	9.3	38	0.4	2.1	0.1	101	1.07	0.168	46
JULD-04	Soil	2.7	118.1	5.6	76	<0.1	20.2	19.0	2453	4.47	18.3	1.9	4.9	17	0.1	0.5	0.1	56	0.46	0.087	38
JULD-05	Soil	8.2	328.8	154.9	473	2.7	37.7	42.4	2594	9.57	906.5	6.6	5.3	20	1.2	22.3	0.5	80	0.27	0.109	25
JULD-06	Soil	2.9	361.2	14.1	121	0.3	11.4	22.2	2943	4.50	28.7	4.8	6.3	15	0.5	0.7	0.3	52	0.44	0.079	56
JULD-07	Soil	2.4	128.5	23.4	168	1.7	21.2	27.5	3244	4.56	59.0	5.2	4.8	25	0.8	1.1	0.3	50	0.41	0.097	40
JULD-08	Soil	1.4	103.0	24.2	214	0.5	47.0	31.6	2378	4.10	77.1	16.3	4.1	69	0.4	1.3	0.3	69	0.61	0.126	24
JULD-09	Soil	4.7	331.4	48.3	266	1.9	83.1	57.8	2961	5.80	457.7	6.3	5.7	42	0.8	5.1	1.2	82	0.65	0.130	55
JULD-010	Soil	11.0	404.4	75.3	572	3.1	124.2	146.1	3434	6.19	871.5	25.1	6.0	69	2.7	16.6	6.6	56	0.88	0.089	36
JULD-011	Soil	13.4	388.9	108.9	656	3.4	57.0	110.2	2925	5.04	609.8	14.9	6.6	121	2.9	20.2	6.7	73	1.27	0.135	46
JULD-012	Soil	1.3	99.4	8.6	84	0.1	53.7	21.0	832	3.80	33.3	3.7	2.8	29	0.3	0.8	0.2	85	0.49	0.124	18
WHUD-01	Soil	1.8	133.4	10.3	116	<0.1	43.5	26.9	1304	5.46	21.8	5.6	1.9	29	0.2	1.1	<0.1	140	0.63	0.067	9
WHUD-02	Soil	1.7	66.3	6.5	67	0.1	34.0	18.0	863	4.82	13.3	5.1	1.9	17	0.2	0.6	<0.1	131	0.22	0.039	6
WHUD-03	Soil	1.6	189.3	5.6	59	<0.1	33.9	15.3	818	4.01	15.3	3.9	2.0	28	0.1	0.8	<0.1	109	0.48	0.040	13
WHUD-04	Soil	2.0	125.2	5.9	74	0.2	38.9	16.2	769	4.21	16.8	3.6	1.8	33	0.2	0.7	<0.1	107	0.80	0.068	18
WHUD-05	Soil	1.2	53.5	5.1	58	<0.1	30.7	17.2	589	4.22	12.5	2.4	1.3	19	0.1	0.6	<0.1	119	0.39	0.056	7
WHUD-06	Soil	1.7	71.9	6.4	68	<0.1	28.4	16.0	1076	4.60	15.4	3.2	2.1	29	0.1	0.7	<0.1	121	0.68	0.078	11
WHUD-07	Soil	2.1	77.9	7.9	82	<0.1	25.5	16.4	798	3.93	13.3	2.3	1.8	37	0.3	0.7	<0.1	112	0.97	0.079	8
WHUD-08	Soil	1.4	55.0	5.4	59	<0.1	28.6	14.6	641	3.65	13.2	2.0	2.1	29	0.1	0.7	<0.1	102	0.66	0.076	8
WHUD-09	Soil	3.6	199.6	17.9	146	0.3	35.4	30.1	1109	5.38	124.1	6.3	3.1	33	0.8	3.8	0.2	122	1.14	0.090	23
WHUD-010	Soil	1.7	76.3	6.5	88	0.2	44.3	16.7	697	4.35	11.6	14.8	3.2	38	0.2	0.6	<0.1	96	0.76	0.071	20
WHUD-011	Soil	1.9	136.7	15.9	171	0.2	44.2	23.5	930	3.84	46.9	5.7	2.0	32	1.1	1.5	0.1	93	0.85	0.096	12
WHUD-012	Soil	1.6	113.4	8.7	89	0.2	40.0	27.5	953	4.19	32.6	4.3	3.1	45	0.3	1.1	0.1	111	1.92	0.096	12
WHUD-013	Soil	2.2	93.1	7.2	77	0.1	31.5	13.6	617	3.65	16.7	4.0	2.3	30	0.2	1.0	<0.1	104	0.80	0.099	11
WHUD-014	Soil	4.6	117.2	7.5	141	0.2	38.0	18.6	1040	3.89	15.1	2.9	2.2	49	0.5	0.8	<0.1	94	1.53	0.084	19



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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	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
RHUD-014	Soil	49	0.65	162	0.226	7	2.09	0.028	0.07	0.1	0.08	12.5	0.1	<0.05	8	<0.5	<0.2	
RHUD-015	Soil	46	0.68	139	0.139	4	1.50	0.023	0.07	0.1	0.06	7.7	<0.1	<0.05	6	0.8	<0.2	
RHUD-016	Soil	54	1.04	77	0.089	4	1.96	0.014	0.06	<0.1	0.24	10.2	0.2	<0.05	8	3.8	0.3	
RHUD-017	Soil	45	0.90	89	0.126	5	1.96	0.016	0.07	0.1	0.16	9.2	0.1	<0.05	8	1.6	0.2	
JULD-01	Soil	19	0.34	226	0.005	2	1.39	0.008	0.07	<0.1	0.02	15.1	<0.1	<0.05	5	<0.5	<0.2	
JULD-02	Soil	22	0.64	313	0.039	4	1.55	0.015	0.08	<0.1	0.05	12.2	<0.1	<0.05	6	<0.5	<0.2	
JULD-03	Soil	38	0.46	199	0.024	4	1.31	0.014	0.07	<0.1	0.02	14.8	<0.1	<0.05	5	<0.5	<0.2	
JULD-04	Soil	26	0.45	414	0.023	2	1.38	0.012	0.12	<0.1	0.02	8.1	<0.1	<0.05	4	<0.5	<0.2	
JULD-05	Soil	23	0.49	198	0.030	2	1.65	0.016	0.08	0.2	0.05	11.7	0.1	0.16	5	4.2	<0.2	
JULD-06	Soil	9	0.25	463	0.013	2	0.80	0.012	0.11	<0.1	0.04	6.3	<0.1	<0.05	3	0.5	<0.2	
JULD-07	Soil	16	0.46	404	0.031	2	1.35	0.015	0.11	0.1	0.04	6.1	<0.1	<0.05	4	<0.5	<0.2	
JULD-08	Soil	36	0.96	119	0.196	3	2.17	0.046	0.09	0.2	0.03	6.3	<0.1	<0.05	8	<0.5	<0.2	
JULD-09	Soil	52	1.15	157	0.058	3	2.12	0.016	0.09	0.2	0.06	13.6	0.1	<0.05	7	<0.5	<0.2	
JULD-010	Soil	10	0.64	131	0.015	13	1.33	0.018	0.10	0.3	0.02	8.4	0.1	0.05	5	<0.5	0.2	
JULD-011	Soil	18	0.70	70	0.031	7	1.62	0.018	0.08	0.9	0.07	9.6	<0.1	<0.05	6	<0.5	<0.2	
JULD-012	Soil	72	1.06	112	0.140	3	1.81	0.028	0.15	0.5	0.02	5.6	<0.1	<0.05	6	<0.5	<0.2	
WHUD-01	Soil	41	1.06	117	0.135	6	3.07	0.022	0.08	0.1	0.06	9.4	0.1	<0.05	10	<0.5	<0.2	
WHUD-02	Soil	48	0.76	157	0.072	4	2.67	0.017	0.07	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2	
WHUD-03	Soil	48	0.72	100	0.068	3	1.97	0.017	0.07	0.1	0.03	10.2	0.1	<0.05	6	0.6	<0.2	
WHUD-04	Soil	48	0.71	146	0.104	4	2.12	0.020	0.07	<0.1	0.08	13.3	0.1	<0.05	7	<0.5	<0.2	
WHUD-05	Soil	36	0.77	123	0.063	4	2.13	0.013	0.06	0.1	0.02	6.7	<0.1	<0.05	6	<0.5	<0.2	
WHUD-06	Soil	34	0.81	168	0.078	3	1.70	0.019	0.07	0.1	0.04	9.7	<0.1	<0.05	6	<0.5	<0.2	
WHUD-07	Soil	36	0.78	125	0.085	5	1.61	0.024	0.07	<0.1	0.04	8.9	0.1	<0.05	6	<0.5	<0.2	
WHUD-08	Soil	38	0.64	111	0.098	4	1.43	0.016	0.07	0.1	0.02	6.8	<0.1	<0.05	5	<0.5	<0.2	
WHUD-09	Soil	41	0.91	134	0.093	7	1.81	0.025	0.12	0.1	0.09	13.4	<0.1	<0.05	7	1.2	<0.2	
WHUD-010	Soil	44	0.81	285	0.179	4	2.19	0.030	0.09	<0.1	0.07	11.0	<0.1	<0.05	7	<0.5	<0.2	
WHUD-011	Soil	54	0.96	102	0.098	6	1.41	0.023	0.08	0.2	0.05	8.4	<0.1	<0.05	5	<0.5	<0.2	
WHUD-012	Soil	45	0.89	139	0.094	5	1.56	0.027	0.13	<0.1	0.07	10.8	0.1	<0.05	6	<0.5	<0.2	
WHUD-013	Soil	47	0.73	101	0.103	5	1.40	0.026	0.08	0.1	0.05	8.7	<0.1	<0.05	5	0.7	<0.2	
WHUD-014	Soil	39	0.60	169	0.172	9	1.81	0.029	0.07	0.1	0.12	9.0	<0.1	0.07	7	1.0	<0.2	

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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Project: None Given
Report Date: August 21, 2017

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	
WHUD-015	Soil	4.7	300.4	10.6	161	0.3	42.0	19.5	989	4.07	23.1	3.1	2.0	57	0.8	1.5	<0.1	103	1.34	0.103	17
WHUD-016	Soil	2.7	213.5	51.5	275	0.7	40.4	20.2	929	3.59	47.1	2.5	1.6	52	1.5	3.1	<0.1	94	1.45	0.080	13
WHUD-017	Soil	2.6	117.5	11.9	126	0.2	40.5	17.5	694	4.05	30.5	2.9	1.9	37	0.3	1.6	<0.1	104	1.07	0.077	10
WLD-01	Soil	1.3	60.5	10.4	84	<0.1	15.3	20.6	1442	4.81	27.3	1.2	11.9	68	0.1	0.6	<0.1	117	1.35	0.270	38
WLD-02	Soil	1.0	269.6	11.1	88	<0.1	21.4	28.9	2310	5.09	29.4	6.9	8.0	43	0.1	1.2	0.1	113	1.10	0.196	40
WLD-03	Soil	8.1	600.2	26.1	191	1.0	63.2	88.1	3262	4.27	252.9	4.1	6.1	15	0.9	2.3	1.7	44	0.42	0.104	31
WLD-04	Soil	4.2	269.8	13.8	110	0.3	26.5	25.2	3177	4.61	29.1	5.9	3.2	20	0.4	0.5	0.5	59	0.57	0.088	40
WLD-05	Soil	3.9	156.9	4.8	47	0.1	19.0	13.0	2726	4.03	12.7	5.2	2.8	24	0.1	0.3	0.5	48	0.51	0.129	39
WLD-06	Soil	2.8	127.5	13.8	125	0.2	56.4	23.6	1573	4.69	20.3	6.4	4.3	57	0.3	0.6	0.2	85	0.38	0.157	22
WLD-07	Soil	4.2	147.1	4.8	46	0.1	19.6	13.4	4759	4.46	11.9	3.3	2.8	21	0.1	0.4	0.3	53	0.49	0.104	51
WLD-08	Soil	5.2	181.8	32.9	159	1.4	41.9	74.8	2902	5.33	287.0	3.5	8.8	26	0.8	3.8	0.3	109	0.62	0.120	46
WLD-09	Soil	3.1	72.9	13.6	112	0.4	21.6	24.3	3394	4.88	84.2	1.5	7.3	15	0.4	1.6	0.2	62	0.41	0.090	42
WLD-010	Soil	8.0	4615.8	41.5	386	6.0	85.5	199.4	3388	6.41	846.8	28.7	13.1	45	1.5	6.8	0.7	107	1.32	0.211	57
WLD-011	Soil	11.2	166.1	49.9	525	0.8	90.1	46.9	2982	7.41	266.1	4.8	4.7	153	2.9	1.9	0.4	48	2.52	0.151	36
WLD-012	Soil	3.4	197.0	178.6	1167	33.3	77.8	53.8	1594	5.20	369.7	17.0	3.4	91	4.4	11.1	0.2	68	1.44	0.116	20
WLD-013	Soil	4.1	159.9	57.8	585	1.4	51.8	29.1	2209	5.56	277.5	6.0	2.7	104	2.6	5.4	0.3	58	1.44	0.135	25
WLD-014	Soil	9.0	629.4	167.8	1107	55.0	53.5	284.1	3004	5.31	1099.4	8.0	2.9	95	6.3	48.4	0.5	62	1.14	0.126	27
WLD-015	Soil	10.0	1684.8	543.5	3258	96.0	133.4	539.0	4904	7.08	3529.1	5.3	3.6	92	15.1	170.3	0.9	62	1.57	0.119	33
WLD-016	Soil	4.1	259.5	33.3	248	1.3	24.7	43.5	3546	5.13	128.8	2.2	4.5	32	1.5	3.1	0.4	97	0.65	0.092	30
WLD-017	Soil	10.3	405.6	40.8	347	1.8	113.7	156.9	4327	5.18	457.3	7.3	5.1	34	1.5	11.5	3.7	62	0.67	0.081	38



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Project: None Given
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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.5	0.2
WHUD-015	Soil	47	0.70	190	0.127	12	1.60	0.027	0.09	0.1	0.11	11.0	0.1	0.05	6	0.8	<0.2	
WHUD-016	Soil	44	0.70	138	0.128	7	1.70	0.027	0.07	<0.1	0.13	9.4	0.1	<0.05	6	2.1	<0.2	
WHUD-017	Soil	47	0.75	106	0.119	5	1.72	0.026	0.07	0.1	0.10	10.9	0.1	<0.05	6	0.5	<0.2	
WLD-01	Soil	9	0.33	150	0.002	3	1.72	0.005	0.01	<0.1	<0.01	12.4	<0.1	<0.05	6	<0.5	<0.2	
WLD-02	Soil	21	0.26	223	0.003	1	1.74	0.014	0.04	<0.1	0.02	14.6	<0.1	<0.05	6	<0.5	<0.2	
WLD-03	Soil	14	0.23	241	0.018	3	0.85	0.007	0.09	0.1	0.02	7.4	0.1	<0.05	3	<0.5	<0.2	
WLD-04	Soil	23	0.55	349	0.031	3	1.86	0.010	0.12	0.2	0.05	9.0	<0.1	<0.05	6	<0.5	<0.2	
WLD-05	Soil	18	0.39	316	0.024	2	1.51	0.010	0.16	<0.1	0.03	6.9	<0.1	<0.05	4	<0.5	<0.2	
WLD-06	Soil	47	1.14	159	0.159	3	2.66	0.043	0.10	0.1	0.03	6.3	0.1	<0.05	9	<0.5	<0.2	
WLD-07	Soil	18	0.37	410	0.022	3	1.47	0.011	0.15	0.1	0.04	7.2	<0.1	<0.05	4	<0.5	<0.2	
WLD-08	Soil	42	0.49	214	0.037	3	1.44	0.018	0.11	<0.1	0.04	12.8	<0.1	<0.05	6	<0.5	<0.2	
WLD-09	Soil	18	0.43	310	0.028	2	1.38	0.010	0.13	<0.1	0.03	10.8	<0.1	<0.05	4	<0.5	<0.2	
WLD-010	Soil	40	0.48	120	0.021	6	2.06	0.016	0.07	0.1	0.03	15.1	0.1	<0.05	7	<0.5	<0.2	
WLD-011	Soil	10	0.22	155	0.049	13	3.00	0.149	0.07	0.2	0.03	5.3	0.4	<0.05	7	3.1	<0.2	
WLD-012	Soil	40	0.80	91	0.129	10	2.36	0.072	0.08	0.3	0.12	6.3	0.2	<0.05	7	1.0	<0.2	
WLD-013	Soil	25	0.69	114	0.072	16	2.13	0.058	0.07	0.2	0.05	5.7	0.3	<0.05	6	0.8	<0.2	
WLD-014	Soil	18	0.73	100	0.064	49	1.97	0.041	0.08	0.3	0.22	7.3	0.3	<0.05	7	1.2	<0.2	
WLD-015	Soil	14	0.47	84	0.047	22	1.70	0.053	0.08	0.3	0.69	8.8	0.5	0.07	5	1.4	<0.2	
WLD-016	Soil	11	0.35	346	0.019	4	1.22	0.021	0.14	0.1	0.04	12.4	<0.1	<0.05	4	<0.5	<0.2	
WLD-017	Soil	15	0.56	381	0.022	8	1.37	0.016	0.11	0.3	0.05	8.6	0.1	<0.05	5	<0.5	<0.2	



QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	
Pulp Duplicates																					
LHUD-016	Soil	6.4	155.7	12.7	119	<0.1	56.5	54.3	813	7.15	77.2	1.3	1.3	14	0.7	2.6	0.2	131	0.79	0.039	5
REP LHUD-016	QC	6.0	159.6	13.0	119	<0.1	56.9	55.2	816	7.13	77.6	8.7	1.3	14	0.8	2.5	0.2	130	0.78	0.038	5
WHUD-06	Soil	1.7	71.9	6.4	68	<0.1	28.4	16.0	1076	4.60	15.4	3.2	2.1	29	0.1	0.7	<0.1	121	0.68	0.078	11
REP WHUD-06	QC	1.6	69.9	6.4	69	<0.1	27.7	16.4	996	4.49	16.3	4.4	2.1	28	0.1	0.8	<0.1	128	0.65	0.080	11
WLD-015	Soil	10.0	1684.8	543.5	3258	96.0	133.4	539.0	4904	7.08	3529.1	5.3	3.6	92	15.1	170.3	0.9	62	1.57	0.119	33
REP WLD-015	QC	9.8	1692.2	548.1	3206	96.5	133.4	530.0	4909	7.11	3506.2	5.7	3.6	94	15.5	170.2	1.0	60	1.51	0.122	33
Reference Materials																					
STD DS11	Standard	14.3	155.3	135.3	319	1.7	78.9	13.5	1004	3.03	40.8	72.8	7.2	55	2.1	7.7	9.8	49	1.00	0.066	17
STD DS11	Standard	13.4	152.6	128.4	336	1.7	76.5	14.0	1042	3.12	44.9	75.9	7.4	66	2.3	8.8	11.6	51	1.06	0.073	18
STD DS11	Standard	14.3	154.3	137.0	330	1.5	81.1	13.8	992	3.11	43.1	72.2	7.7	55	2.3	7.6	9.3	53	1.01	0.068	18
STD OXC129	Standard	1.2	26.8	5.9	38	<0.1	80.3	20.8	413	2.98	0.7	188.2	1.7	170	<0.1	<0.1	<0.1	55	0.61	0.096	11
STD OXC129	Standard	1.2	27.8	5.8	40	<0.1	81.9	21.3	429	3.18	0.8	218.8	1.6	187	<0.1	<0.1	<0.1	54	0.66	0.103	13
STD OXC129	Standard	1.2	28.0	6.0	40	<0.1	87.5	22.3	439	3.19	1.3	196.6	1.8	200	<0.1	<0.1	<0.1	58	0.75	0.097	11
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102	13
STD DS11 Expected		14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	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	5	<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
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

VAN17001638.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		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	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
LHUD-016	Soil	45	0.84	78	0.102	3	2.16	0.008	0.06	0.2	0.02	5.3	0.2	<0.05	9	1.5	<0.2
REP LHUD-016	QC	45	0.81	75	0.103	3	2.12	0.009	0.06	0.2	0.02	5.4	0.2	<0.05	9	1.1	<0.2
WHUD-06	Soil	34	0.81	168	0.078	3	1.70	0.019	0.07	0.1	0.04	9.7	<0.1	<0.05	6	<0.5	<0.2
REP WHUD-06	QC	34	0.79	170	0.078	4	1.73	0.022	0.07	0.1	0.03	9.7	0.1	<0.05	6	<0.5	<0.2
WLD-015	Soil	14	0.47	84	0.047	22	1.70	0.053	0.08	0.3	0.69	8.8	0.5	0.07	5	1.4	<0.2
REP WLD-015	QC	14	0.47	82	0.048	22	1.73	0.054	0.08	0.2	0.68	8.7	0.5	0.06	5	1.2	<0.2
Reference Materials																	
STD DS11	Standard	60	0.83	372	0.079	7	1.09	0.068	0.37	3.0	0.26	3.0	4.7	0.26	5	2.1	4.9
STD DS11	Standard	62	0.83	349	0.095	8	1.12	0.072	0.40	3.1	0.25	3.2	4.6	0.27	5	1.4	4.9
STD DS11	Standard	61	0.83	362	0.080	7	1.16	0.075	0.38	2.8	0.25	3.5	4.7	0.27	5	2.2	4.7
STD OXC129	Standard	52	1.52	48	0.397	1	1.43	0.546	0.33	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	55	1.62	51	0.410	1	1.54	0.595	0.37	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	57	1.53	52	0.395	<1	1.59	0.572	0.36	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
BLK	Blank	<1	<0.01	<1	<0.001	<1	<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	<1	<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	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

Client: **Kreft, Bernie**
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft
Receiving Lab: Canada-Vancouver
Received: August 03, 2017
Report Date: August 24, 2017
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN17001639.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 123

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
VA475	123	Vegetation Ashing at 475	50		VAN
Split Ash from VA475	123	Analysis sample split/packet			VAN
SVRJT	121	Save all or part of Soil Reject			VAN
AQ200	123	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
DRPLP	123	Warehouse handling / disposition of pulps			VAN
DRRJT	121	Warehouse handling / Disposition of reject			VAN

ADDITIONAL COMMENTS

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: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9
Canada

CC:



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.

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Project: None Given
Report Date: August 24, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	Analyte	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Rec. Wt	Ash Wt	Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
Unit		g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.001	0.001	0.1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1
EHUB-01	Vegetation	50.410	1.778	2.4	56.3	2.7	1036	0.6	29.7	6.2	>10000	0.15	0.5	2.9	<0.1	531	3.3	<0.1	<0.1	11	
EHUB-02	Vegetation	50.254	1.715	1.5	77.3	2.8	1265	0.1	38.9	9.4	>10000	0.14	0.8	1.3	<0.1	452	1.4	<0.1	<0.1	12	
OVEN STD-2	Vegetation	31.926	0.921	2.2	38.3	7.6	1254	0.7	11.9	0.8	>10000	0.48	2.7	1.0	0.6	477	0.2	1.1	0.1	13	
EHUB-03	Vegetation	50.691	1.647	1.8	81.8	2.6	1244	0.1	32.5	5.8	>10000	0.18	2.1	2.5	<0.1	275	4.9	<0.1	<0.1	7	
EHUB-04	Vegetation	50.173	1.677	0.9	80.1	2.9	1180	0.1	16.6	4.1	>10000	0.19	0.6	0.9	<0.1	142	4.9	<0.1	<0.1	8	
EHUB-05	Vegetation	50.542	1.363	2.8	65.9	4.7	987	<0.1	36.2	8.0	>10000	0.24	1.0	3.2	0.1	367	1.9	0.1	<0.1	14	
RHUB-01	Vegetation	50.425	1.444	1.0	71.7	3.0	745	<0.1	43.9	7.6	>10000	0.21	0.7	1.3	<0.1	266	1.2	<0.1	<0.1	14	
RHUB-02	Vegetation	50.687	1.953	0.8	53.6	1.7	1316	<0.1	45.0	3.2	>10000	0.20	0.6	1.1	<0.1	483	7.5	<0.1	<0.1	5	
RHUB-03	Vegetation	50.639	1.454	3.5	79.0	3.0	1191	0.2	38.6	20.6	>10000	0.21	0.7	1.4	<0.1	289	10.9	<0.1	<0.1	12	
RHUB-04	Vegetation	50.460	1.770	2.1	67.1	3.0	717	0.3	37.8	5.6	>10000	0.15	0.8	1.3	<0.1	272	2.5	<0.1	<0.1	11	
RHUB-05	Vegetation	50.126	1.733	1.0	82.8	2.7	944	0.2	29.1	4.9	>10000	0.18	<0.5	1.7	<0.1	241	4.2	<0.1	<0.1	14	
RHUB-06	Vegetation	50.536	1.625	1.4	76.1	3.9	890	<0.1	34.6	5.3	>10000	0.19	0.7	1.3	<0.1	208	3.5	<0.1	<0.1	13	
RHUB-07	Vegetation	50.286	1.477	2.0	76.3	2.9	1030	0.1	47.0	8.5	>10000	0.20	<0.5	0.9	<0.1	224	2.2	<0.1	<0.1	8	
RHUB-08	Vegetation	50.312	1.395	1.0	83.3	4.1	643	<0.1	28.8	13.8	>10000	0.20	<0.5	0.9	<0.1	390	3.0	<0.1	<0.1	13	
WHUB-01	Vegetation	50.695	1.936	0.9	56.8	19.6	956	<0.1	39.2	10.5	>10000	0.19	<0.5	1.1	<0.1	413	4.6	<0.1	<0.1	14	
WHUB-02	Vegetation	49.735	1.329	2.9	64.6	4.0	954	0.1	36.8	7.8	>10000	0.26	2.5	3.5	<0.1	395	1.8	0.1	<0.1	15	
WHUB-03	Vegetation	50.807	1.649	1.2	81.6	3.6	985	0.2	23.6	6.8	>10000	0.24	0.7	1.6	<0.1	252	2.3	<0.1	<0.1	12	
WHUB-04	Vegetation	50.698	1.713	1.0	69.3	2.9	833	0.1	26.7	6.9	>10000	0.23	0.8	1.1	<0.1	295	1.1	<0.1	<0.1	10	
WHUB-05	Vegetation	50.192	1.603	1.1	76.4	2.4	754	0.3	21.8	5.1	>10000	0.15	0.6	1.1	<0.1	266	0.7	<0.1	<0.1	12	
WHUB-06	Vegetation	50.627	1.539	1.1	66.2	2.7	910	<0.1	55.4	8.9	>10000	0.15	<0.5	1.3	<0.1	384	1.7	<0.1	<0.1	10	
WHUB-07	Vegetation	50.770	1.230	2.1	89.8	5.5	1213	0.1	15.8	4.1	>10000	0.24	0.6	1.9	<0.1	276	2.7	0.1	<0.1	14	
WHUB-08	Vegetation	50.743	1.453	1.5	98.1	4.2	921	<0.1	24.1	4.5	>10000	0.23	0.7	1.3	<0.1	333	1.3	<0.1	<0.1	14	
WHUB-09	Vegetation	50.319	1.292	2.2	78.8	4.7	1070	<0.1	32.3	13.0	>10000	0.19	<0.5	2.6	<0.1	521	2.5	<0.1	<0.1	14	
WHB-01	Vegetation	50.620	1.489	1.8	80.1	5.2	986	0.1	54.2	5.7	>10000	0.25	0.8	2.6	<0.1	403	0.8	0.2	<0.1	14	
WHB-02	Vegetation	50.189	1.473	2.0	99.6	3.3	972	0.2	55.8	5.1	>10000	0.17	<0.5	3.2	<0.1	348	0.6	<0.1	<0.1	12	
WHB-03	Vegetation	50.527	1.320	2.2	95.3	4.1	875	0.2	50.8	5.0	>10000	0.21	0.6	2.9	<0.1	305	0.5	0.1	<0.1	13	
WHB-04	Vegetation	50.730	1.440	1.8	74.6	3.7	1006	0.4	60.0	4.3	>10000	0.22	0.9	5.4	<0.1	365	0.7	0.1	<0.1	14	
WHB-05	Vegetation	50.828	1.474	1.0	85.2	8.5	971	0.2	53.1	4.3	>10000	0.29	0.8	8.2	0.1	405	0.8	0.2	<0.1	15	
WHB-06	Vegetation	50.478	1.182	1.4	97.5	6.5	809	0.3	79.8	3.8	>10000	0.24	0.7	2.2	0.1	295	0.5	0.1	<0.1	13	
WHB-07	Vegetation	50.900	1.508	1.8	80.7	3.6	1171	0.2	44.4	3.9	>10000	0.17	<0.5	15.5	<0.1	350	0.3	0.1	<0.1	14	



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Project: None Given
Report Date: August 24, 2017

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	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	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
EHUB-01	Vegetation	24.09	3.909	<1	1	2.54	1331	0.017	138	0.49	0.036	>10	<0.1	<0.01	1.1	1.4	0.58	<1	<0.5	<0.2
EHUB-02	Vegetation	18.36	>5	<1	1	2.89	1656	0.022	163	0.68	0.037	>10	0.1	0.01	1.1	0.6	0.56	<1	<0.5	<0.2
OVEN STD-2	Vegetation	24.17	2.482	1	9	1.87	1220	0.011	299	0.12	0.078	9.44	1.0	<0.01	1.4	0.7	0.76	<1	<0.5	<0.2
EHUB-03	Vegetation	17.91	>5	<1	1	1.75	1287	0.020	190	0.77	0.033	>10	<0.1	0.01	0.9	1.0	0.50	<1	<0.5	<0.2
EHUB-04	Vegetation	19.25	>5	<1	1	1.49	1065	0.021	199	0.21	0.044	>10	<0.1	<0.01	0.8	0.7	0.50	1	<0.5	<0.2
EHUB-05	Vegetation	20.37	4.077	<1	2	3.46	228	0.019	152	0.60	0.050	>10	<0.1	<0.01	1.2	1.2	0.69	1	<0.5	<0.2
RHUB-01	Vegetation	18.32	>5	<1	2	2.79	257	0.023	223	0.69	0.056	>10	<0.1	<0.01	1.0	1.0	0.79	<1	<0.5	<0.2
RHUB-02	Vegetation	23.87	2.574	<1	1	2.09	295	0.012	90	0.58	0.036	8.77	<0.1	<0.01	0.9	1.1	0.35	<1	<0.5	<0.2
RHUB-03	Vegetation	18.12	4.333	<1	2	2.32	1784	0.018	186	0.83	0.054	>10	<0.1	<0.01	1.0	0.7	0.37	1	<0.5	<0.2
RHUB-04	Vegetation	23.30	4.231	<1	1	2.55	1540	0.018	226	0.41	0.051	>10	<0.1	<0.01	0.9	0.9	0.47	1	<0.5	<0.2
RHUB-05	Vegetation	19.95	>5	<1	1	2.81	406	0.024	367	0.40	0.033	>10	<0.1	<0.01	1.0	0.5	0.41	1	<0.5	<0.2
RHUB-06	Vegetation	19.61	>5	<1	2	2.71	1288	0.022	256	0.28	0.070	>10	<0.1	<0.01	0.9	0.6	0.36	1	<0.5	<0.2
RHUB-07	Vegetation	18.14	4.886	<1	2	2.40	1204	0.021	371	0.45	0.055	>10	<0.1	<0.01	0.9	0.5	0.62	1	<0.5	<0.2
RHUB-08	Vegetation	21.19	4.546	<1	2	2.11	2087	0.021	312	0.34	0.074	>10	<0.1	<0.01	1.2	0.5	0.43	1	<0.5	<0.2
WHUB-01	Vegetation	27.20	2.920	<1	2	2.89	348	0.014	121	0.34	0.041	7.48	<0.1	<0.01	1.2	0.6	0.36	<1	<0.5	<0.2
WHUB-02	Vegetation	21.33	4.093	<1	2	3.71	258	0.020	150	0.63	0.065	>10	<0.1	<0.01	1.2	0.8	0.70	1	<0.5	<0.2
WHUB-03	Vegetation	19.40	>5	<1	2	2.46	1217	0.025	251	0.61	0.064	>10	<0.1	<0.01	1.2	0.3	0.43	<1	<0.5	<0.2
WHUB-04	Vegetation	22.00	4.066	<1	2	1.92	453	0.020	244	0.41	0.066	>10	<0.1	<0.01	1.2	0.8	0.41	<1	<0.5	<0.2
WHUB-05	Vegetation	20.75	4.230	<1	1	2.66	1484	0.017	278	0.32	0.076	>10	<0.1	<0.01	0.9	0.3	0.37	1	<0.5	<0.2
WHUB-06	Vegetation	23.18	3.923	<1	1	1.65	1208	0.017	150	1.07	0.063	>10	<0.1	<0.01	0.9	0.4	0.44	<1	<0.5	<0.2
WHUB-07	Vegetation	18.89	>5	<1	2	1.85	1488	0.026	275	0.29	0.090	>10	<0.1	<0.01	1.1	0.3	0.55	1	0.8	<0.2
WHUB-08	Vegetation	22.79	>5	<1	2	1.88	1069	0.025	310	0.25	0.104	>10	<0.1	<0.01	1.2	0.6	0.42	1	<0.5	<0.2
WHUB-09	Vegetation	21.49	4.778	<1	1	2.76	2063	0.020	265	0.83	0.095	>10	<0.1	<0.01	1.0	0.7	0.45	<1	<0.5	<0.2
WHB-01	Vegetation	20.38	>5	<1	2	2.26	1135	0.023	230	0.97	0.055	>10	<0.1	<0.01	1.3	0.5	0.54	1	0.6	<0.2
WHB-02	Vegetation	18.98	4.984	<1	1	2.36	1183	0.021	191	0.50	0.086	>10	<0.1	<0.01	1.2	0.3	0.53	1	<0.5	<0.2
WHB-03	Vegetation	16.15	>5	<1	2	2.37	248	0.025	222	0.63	0.102	>10	<0.1	<0.01	1.1	<0.1	0.79	1	<0.5	<0.2
WHB-04	Vegetation	21.21	4.325	<1	2	2.55	1187	0.019	229	0.96	0.078	>10	<0.1	<0.01	1.3	0.2	0.68	1	0.6	<0.2
WHB-05	Vegetation	19.53	4.867	<1	3	2.09	1139	0.025	246	0.77	0.083	>10	<0.1	<0.01	1.4	0.3	0.55	1	0.8	<0.2
WHB-06	Vegetation	16.30	>5	<1	2	3.54	693	0.027	224	1.19	0.113	>10	<0.1	<0.01	1.2	0.1	0.49	1	0.7	<0.2
WHB-07	Vegetation	20.77	>5	<1	1	3.17	938	0.020	165	0.34	0.098	>10	<0.1	<0.01	1.0	0.4	0.52	<1	0.6	<0.2



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Project: None Given
Report Date: August 24, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	VA475	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Rec. Wt	Ash	Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	0.001	0.001	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	0.1		
WHB-08	Vegetation	50.548	1.267	1.7	83.5	5.7	980	0.5	74.5	6.3	>10000	0.27	0.9	4.0	<0.1	425	1.5	0.1	<0.1	14		
WHB-09	Vegetation	50.628	1.181	1.7	87.0	4.1	981	0.1	75.2	5.4	>10000	0.22	0.6	5.4	<0.1	405	0.6	0.1	<0.1	13		
WHB-10	Vegetation	50.338	1.496	2.7	71.8	3.4	1402	0.1	11.2	1.9	>10000	0.16	0.7	2.8	<0.1	290	1.4	0.1	<0.1	11		
WHB-11	Vegetation	50.362	1.366	1.6	99.7	3.3	1610	0.2	35.9	10.4	>10000	0.20	0.7	4.3	<0.1	411	2.7	0.1	<0.1	12		
WHB-12	Vegetation	50.808	1.778	0.6	101.6	1.6	1538	0.3	41.5	2.3	8374	0.09	<0.5	1.7	<0.1	628	0.3	<0.1	<0.1	5		
WHB-13	Vegetation	50.439	1.532	1.2	114.9	4.0	1343	<0.1	58.1	13.5	>10000	0.20	0.8	2.2	<0.1	514	1.3	0.1	<0.1	13		
WHB-14	Vegetation	50.413	1.604	1.3	96.0	22.8	941	0.1	26.9	4.5	>10000	0.25	0.9	1.1	0.1	357	1.9	0.2	<0.1	10		
WHB-15	Vegetation	50.714	1.358	1.5	106.5	3.9	1823	0.1	35.6	8.6	>10000	0.25	1.0	6.8	<0.1	329	3.7	0.1	<0.1	9		
WHB-16	Vegetation	50.887	1.817	1.6	75.3	4.9	1829	0.1	28.7	8.0	>10000	0.20	0.5	195.9	<0.1	646	12.3	<0.1	<0.1	8		
WHB-17	Vegetation	50.561	1.608	2.1	97.5	1.8	1297	<0.1	24.2	3.4	>10000	0.13	0.7	2.0	<0.1	580	3.1	<0.1	<0.1	8		
WHB-18	Vegetation	50.544	1.815	2.3	77.1	1.9	1609	<0.1	24.1	10.0	>10000	0.17	0.5	1.0	<0.1	634	4.0	<0.1	<0.1	10		
WHB-19	Vegetation	50.661	2.526	1.5	57.9	1.5	1442	0.1	29.5	5.4	>10000	0.14	<0.5	1.8	<0.1	761	6.4	<0.1	<0.1	10		
WHB-20	Vegetation	50.575	1.745	2.0	104.3	1.9	1545	0.1	36.2	5.2	>10000	0.16	0.5	1.7	<0.1	549	6.1	<0.1	<0.1	9		
WHB-21	Vegetation	50.948	1.897	0.4	70.0	1.1	1350	<0.1	28.2	2.2	6753	0.07	<0.5	<0.5	<0.1	724	0.8	<0.1	<0.1	2		
WHB-22	Vegetation	50.713	1.686	6.8	98.9	12.0	1650	<0.1	20.7	3.4	>10000	0.13	0.6	2.2	<0.1	426	7.4	<0.1	<0.1	8		
WHB-23	Vegetation	50.366	1.681	0.8	114.4	3.7	1679	0.1	39.0	1.9	8322	0.08	0.6	<0.5	<0.1	551	0.7	<0.1	<0.1	3		
WHB-24	Vegetation	50.616	1.372	1.0	98.9	7.1	1259	0.2	22.5	7.4	>10000	0.23	0.8	26.1	<0.1	555	2.5	<0.1	<0.1	10		
WHB-25	Vegetation	50.554	1.591	1.6	94.9	3.0	1089	<0.1	48.5	5.4	>10000	0.16	0.6	5.5	<0.1	633	3.5	<0.1	<0.1	10		
LHUB-01	Vegetation	50.911	1.418	3.1	95.1	3.6	826	0.3	44.6	8.9	>10000	0.22	1.1	1.0	<0.1	452	13.3	<0.1	<0.1	9		
LHUB-02	Vegetation	50.891	1.734	2.4	59.7	2.9	609	<0.1	13.4	7.6	>10000	0.22	0.9	0.9	<0.1	529	2.3	<0.1	<0.1	10		
LHUB-03	Vegetation	50.465	1.929	1.3	63.5	3.8	750	0.1	32.8	7.6	>10000	0.14	0.8	2.0	<0.1	431	3.8	<0.1	<0.1	8		
LHUB-04	Vegetation	50.387	1.179	1.3	88.5	8.2	724	0.6	31.0	5.2	>10000	0.26	0.9	4.3	0.1	289	0.7	0.1	<0.1	13		
LHUB-05	Vegetation	50.907	1.447	1.2	81.6	3.8	1026	0.2	25.1	7.9	>10000	0.25	1.3	1.9	<0.1	380	2.8	<0.1	<0.1	12		
LHUB-06	Vegetation	50.479	1.549	1.1	70.3	2.9	702	0.1	28.3	8.6	>10000	0.21	0.6	2.2	<0.1	562	1.3	<0.1	<0.1	11		
LHUB-07	Vegetation	50.290	1.485	1.2	77.1	4.8	1006	<0.1	27.8	8.4	>10000	0.26	0.7	5.8	0.1	364	2.9	0.1	<0.1	8		
LHUB-08	Vegetation	50.597	1.698	1.3	61.8	2.7	772	<0.1	21.3	6.7	>10000	0.21	0.9	1.7	<0.1	340	2.1	<0.1	<0.1	6		
PHOB-01	Vegetation	50.525	1.649	1.4	101.9	3.2	1643	0.1	12.9	2.3	>10000	0.18	0.9	1.0	<0.1	520	4.6	0.1	<0.1	9		
PHOB-02	Vegetation	50.209	1.466	0.8	87.0	4.6	1340	0.1	25.6	3.5	>10000	0.25	1.1	3.9	0.1	348	1.6	0.1	<0.1	12		
PHOB-03	Vegetation	50.507	1.487	0.9	74.7	5.0	1194	0.3	23.1	8.0	>10000	0.25	0.7	1.8	<0.1	384	3.8	0.1	<0.1	12		
PHOB-04	Vegetation	50.735	1.172	1.2	93.6	5.9	836	0.2	37.9	9.8	>10000	0.25	1.2	8.7	<0.1	484	1.2	0.2	<0.1	12		



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	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	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
WHB-08	Vegetation	19.80	>5	<1	3	2.37	201	0.025	146	0.70	0.086	>10	<0.1	<0.01	1.3	0.3	1.23	1	0.6	<0.2
WHB-09	Vegetation	16.56	>5	<1	2	2.78	968	0.026	206	1.23	0.075	>10	0.2	<0.01	1.2	0.3	0.57	1	<0.5	<0.2
WHB-10	Vegetation	21.79	4.586	<1	1	3.20	1112	0.020	203	0.24	0.075	>10	<0.1	<0.01	1.0	0.4	0.80	<1	0.8	<0.2
WHB-11	Vegetation	19.79	4.656	<1	2	2.31	1071	0.020	169	0.79	0.096	>10	<0.1	<0.01	1.0	0.2	0.84	1	0.8	<0.2
WHB-12	Vegetation	22.82	3.070	<1	<1	1.95	1228	0.013	62	0.08	0.036	>10	<0.1	<0.01	1.5	<0.1	0.53	<1	<0.5	<0.2
WHB-13	Vegetation	17.74	>5	<1	2	3.55	185	0.027	97	0.44	0.079	>10	<0.1	<0.01	1.2	0.1	1.27	<1	1.3	<0.2
WHB-14	Vegetation	22.38	>5	<1	2	1.66	1205	0.024	255	0.33	0.085	>10	<0.1	<0.01	1.3	0.4	0.64	<1	1.0	<0.2
WHB-15	Vegetation	17.34	>5	<1	2	2.67	269	0.025	252	0.46	0.085	>10	<0.1	<0.01	1.0	0.7	0.65	1	0.5	<0.2
WHB-16	Vegetation	22.06	4.551	<1	1	1.99	873	0.020	85	0.45	0.060	>10	<0.1	<0.01	1.0	0.4	0.42	1	0.8	<0.2
WHB-17	Vegetation	21.34	4.685	<1	1	1.57	1171	0.018	100	0.41	0.075	>10	<0.1	<0.01	1.0	0.1	0.63	1	<0.5	<0.2
WHB-18	Vegetation	23.10	4.995	<1	1	2.29	1388	0.020	68	0.32	0.080	>10	<0.1	<0.01	1.1	0.2	0.68	<1	0.7	<0.2
WHB-19	Vegetation	27.94	2.811	<1	<1	2.21	389	0.012	57	0.47	0.057	7.99	<0.1	<0.01	1.0	0.4	0.46	1	0.9	<0.2
WHB-20	Vegetation	22.07	4.909	<1	<1	1.96	1019	0.019	161	0.57	0.080	>10	<0.1	<0.01	1.0	0.4	0.43	1	<0.5	<0.2
WHB-21	Vegetation	19.34	3.710	<1	<1	2.14	1657	0.014	42	0.07	0.024	>10	<0.1	<0.01	1.5	<0.1	0.37	<1	0.7	<0.2
WHB-22	Vegetation	25.98	3.968	<1	<1	2.01	1448	0.016	138	0.29	0.090	>10	<0.1	<0.01	0.9	0.4	0.54	1	0.5	<0.2
WHB-23	Vegetation	18.60	3.837	<1	<1	2.13	1242	0.015	62	0.07	0.048	>10	<0.1	<0.01	1.5	<0.1	0.53	<1	0.8	<0.2
WHB-24	Vegetation	21.94	4.422	<1	2	2.28	851	0.021	159	0.38	0.112	>10	<0.1	<0.01	1.3	0.3	0.36	1	0.8	<0.2
WHB-25	Vegetation	22.77	4.398	<1	1	2.52	443	0.018	110	0.58	0.087	>10	<0.1	<0.01	1.2	0.1	0.54	<1	0.7	<0.2
LHUB-01	Vegetation	22.93	3.884	<1	2	3.18	1608	0.019	108	0.81	0.104	>10	<0.1	<0.01	1.2	0.3	0.59	1	0.5	<0.2
LHUB-02	Vegetation	26.87	3.700	<1	2	1.80	359	0.019	120	0.39	0.081	>10	<0.1	<0.01	1.3	0.2	0.64	1	0.7	<0.2
LHUB-03	Vegetation	24.20	3.961	<1	2	2.92	234	0.018	186	0.70	0.092	>10	<0.1	<0.01	1.2	<0.1	0.49	<1	<0.5	<0.2
LHUB-04	Vegetation	17.74	>5	<1	3	3.01	770	0.030	254	0.61	0.124	>10	<0.1	<0.01	1.4	<0.1	0.81	<1	0.6	<0.2
LHUB-05	Vegetation	24.29	4.380	<1	2	1.93	1231	0.022	209	0.41	0.133	>10	<0.1	<0.01	1.5	0.3	0.57	1	0.7	<0.2
LHUB-06	Vegetation	24.33	>5	<1	3	2.55	1628	0.023	267	0.37	0.101	>10	<0.1	<0.01	1.3	<0.1	0.59	1	<0.5	<0.2
LHUB-07	Vegetation	17.67	>5	<1	2	1.99	1242	0.025	204	0.43	0.108	>10	<0.1	<0.01	1.2	0.5	0.57	1	0.8	<0.2
LHUB-08	Vegetation	22.59	4.881	<1	2	2.83	1789	0.021	240	0.44	0.109	>10	<0.1	<0.01	1.1	0.1	0.45	1	<0.5	<0.2
PHOB-01	Vegetation	26.57	3.905	<1	2	1.42	1670	0.017	243	0.15	0.110	>10	<0.1	<0.01	1.2	<0.1	0.63	1	<0.5	<0.2
PHOB-02	Vegetation	20.12	>5	<1	2	1.85	1315	0.027	186	0.40	0.135	>10	<0.1	<0.01	1.4	<0.1	0.72	1	0.6	<0.2
PHOB-03	Vegetation	22.86	4.158	<1	2	2.07	271	0.019	173	0.80	0.112	>10	<0.1	<0.01	1.4	0.2	0.83	1	<0.5	<0.2
PHOB-04	Vegetation	21.14	4.966	<1	3	3.25	256	0.023	199	0.47	0.160	>10	<0.1	<0.01	1.4	<0.1	0.78	2	<0.5	<0.2



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Project: None Given
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CERTIFICATE OF ANALYSIS

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Method	VA475	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Rec. Wt	Ash Wt	Wshed Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V				
Unit	g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.001	0.001	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	0.1	0.1	0.1	0.1	0.1
PHOB-05	Vegetation	50.209	1.488	1.1	78.3	3.9	1013	0.2	43.3	6.0	>10000	0.20	0.7	0.9	<0.1	622	1.1	0.1	<0.1					9
OVEN STD-2	Vegetation	38.396	1.115	2.1	45.3	7.9	1305	0.8	17.0	0.9	>10000	0.53	2.4	<0.5	0.7	525	0.3	1.2	0.1					11
PHOB-06	Vegetation	50.467	1.322	1.3	78.5	5.4	963	0.3	27.4	5.1	>10000	0.22	1.0	9.1	<0.1	329	1.4	0.1	<0.1					11
PHOB-07	Vegetation	50.764	1.417	1.3	96.4	5.7	1127	0.1	56.8	17.5	>10000	0.30	<0.5	2.8	0.1	550	3.3	0.2	<0.1					12
PHOB-08	Vegetation	50.613	1.360	1.5	93.2	6.6	1241	0.1	56.8	5.7	>10000	0.28	1.3	14.7	0.1	499	0.9	0.2	<0.1					13
PHOB-09	Vegetation	50.605	1.325	1.0	82.9	5.0	793	0.3	99.5	6.2	>10000	0.24	0.8	3.3	0.1	426	0.6	0.2	<0.1					9
PHOB-10	Vegetation	50.929	1.210	0.9	124.8	7.7	1341	0.2	95.7	7.0	>10000	0.33	1.4	18.1	0.1	604	0.9	0.3	<0.1					8
PHOB-11	Vegetation	50.705	2.066	0.8	74.3	5.1	1051	0.1	20.2	4.5	>10000	0.23	0.7	9.1	<0.1	603	2.7	0.1	<0.1					6
PHOB-12	Vegetation	50.788	1.355	1.5	104.5	10.6	1172	0.2	21.4	6.5	>10000	0.31	1.3	27.4	0.1	375	5.1	0.3	<0.1					13
PHOB-13	Vegetation	50.470	1.252	3.8	95.5	7.5	1297	0.1	33.2	8.2	>10000	0.29	1.2	5.1	0.1	472	3.1	0.2	<0.1					13
PHOB-14	Vegetation	50.583	1.304	1.6	77.7	5.4	1281	<0.1	32.0	5.3	>10000	0.24	0.9	9.8	<0.1	418	0.6	0.1	<0.1					12
PHOB-15	Vegetation	50.731	1.925	0.3	74.5	3.8	1380	0.1	24.9	1.3	>10000	0.13	1.0	3.6	<0.1	323	0.3	<0.1	<0.1					6
PHOB-16	Vegetation	50.053	1.278	1.4	112.3	6.3	951	0.1	38.0	7.3	>10000	0.19	0.7	5.1	<0.1	394	4.6	0.1	<0.1					12
PHOB-17	Vegetation	50.665	1.453	1.3	86.1	4.5	1032	<0.1	49.4	5.4	>10000	0.19	0.7	8.5	<0.1	387	0.9	0.1	<0.1					13
PHOB-18	Vegetation	50.598	1.441	1.9	94.7	3.7	1086	<0.1	55.0	5.5	>10000	0.18	<0.5	5.4	<0.1	334	1.8	<0.1	<0.1					8
PHOB-19	Vegetation	50.561	1.503	1.1	88.6	22.5	1598	<0.1	58.5	4.0	>10000	0.21	0.7	4.2	<0.1	564	2.3	0.1	<0.1					13
PHOB-20	Vegetation	50.080	2.012	1.3	65.1	3.4	702	<0.1	37.7	5.4	>10000	0.17	<0.5	1.3	<0.1	579	5.2	<0.1	<0.1					8
PHOB-21	Vegetation	50.524	1.508	1.4	103.5	4.5	737	0.1	71.5	8.4	>10000	0.17	0.7	1.9	<0.1	383	2.4	<0.1	<0.1					11
PHOB-22	Vegetation	50.680	1.672	2.4	85.4	3.8	984	0.1	40.5	4.8	>10000	0.16	<0.5	1.2	<0.1	373	3.8	<0.1	<0.1					10
PHOB-23	Vegetation	50.368	1.725	1.1	65.3	3.7	769	0.1	53.6	4.7	>10000	0.12	<0.5	3.3	<0.1	357	1.6	<0.1	<0.1					9
RHTB-01	Vegetation	50.544	1.426	1.3	84.4	3.7	1017	0.2	38.3	5.4	>10000	0.17	0.9	2.8	<0.1	536	1.5	<0.1	<0.1					9
RHTB-02	Vegetation	50.710	1.391	0.7	73.5	4.7	1057	0.1	25.7	5.0	>10000	0.19	0.9	14.3	<0.1	549	1.3	0.1	<0.1					12
RHTB-03	Vegetation	50.597	1.524	1.1	72.9	3.7	887	<0.1	20.8	3.1	>10000	0.20	0.6	3.6	<0.1	263	0.9	0.1	<0.1					12
RHTB-04	Vegetation	50.468	1.350	1.6	92.3	5.3	1238	<0.1	55.0	4.8	>10000	0.23	1.0	2.2	<0.1	314	2.1	0.2	<0.1					14
RHTB-05	Vegetation	50.386	1.318	2.4	108.3	5.4	883	0.1	60.7	27.7	>10000	0.26	1.0	24.6	<0.1	567	2.4	0.2	<0.1					15
RHTB-06	Vegetation	50.841	1.519	1.0	86.1	4.1	938	0.1	35.8	7.6	>10000	0.19	1.0	17.6	<0.1	310	1.6	0.2	<0.1					11
RHTB-07	Vegetation	50.236	1.244	1.4	108.5	5.3	1026	0.2	41.3	5.9	>10000	0.19	0.8	7.7	<0.1	343	0.9	0.1	<0.1					13
RHTB-08	Vegetation	50.919	1.266	1.9	93.4	3.7	1290	0.2	67.4	4.6	>10000	0.24	1.0	4.3	<0.1	417	0.7	0.1	<0.1					17
RHTB-09	Vegetation	50.554	1.399	3.2	116.0	4.0	947	0.2	40.7	11.7	>10000	0.18	1.1	2.2	<0.1	469	1.3	0.1	<0.1					11
RHTB-10	Vegetation	50.404	1.549	1.8	67.6	6.7	950	0.2	52.5	4.0	>10000	0.16	0.8	10.2	<0.1	420	0.8	0.1	<0.1					13



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	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	ppm	ppm	
MDL	0.01	0.001	1	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		
PHOB-05	Vegetation	23.87	4.706	<1	2	3.99	1419	0.020	157	0.85	0.034	>10	<0.1	<0.01	1.1	1.6	0.46	1	<0.5	<0.2
OVEN STD-2	Vegetation	26.71	2.880	1	12	1.96	1242	0.013	277	0.13	0.055	9.56	0.9	<0.01	1.7	0.9	0.81	1	1.0	<0.2
PHOB-06	Vegetation	22.29	4.420	<1	2	2.58	1068	0.019	169	0.49	0.043	>10	<0.1	<0.01	1.1	0.8	0.46	1	<0.5	<0.2
PHOB-07	Vegetation	20.55	4.485	<1	3	2.32	940	0.023	147	0.94	0.045	>10	<0.1	<0.01	1.2	1.7	0.64	2	<0.5	<0.2
PHOB-08	Vegetation	22.44	4.728	<1	3	3.36	1411	0.023	234	0.74	0.050	>10	<0.1	<0.01	1.3	2.4	0.64	2	<0.5	<0.2
PHOB-09	Vegetation	19.96	4.852	<1	2	5.52	283	0.020	208	1.21	0.049	>10	<0.1	<0.01	1.4	0.9	0.77	1	0.6	<0.2
PHOB-10	Vegetation	15.07	>5	1	3	3.46	992	0.031	177	1.02	0.069	>10	<0.1	<0.01	1.3	1.1	0.95	1	<0.5	<0.2
PHOB-11	Vegetation	26.31	3.480	<1	2	1.67	2255	0.016	247	0.45	0.032	>10	<0.1	<0.01	1.0	0.9	0.44	<1	<0.5	<0.2
PHOB-12	Vegetation	21.72	4.744	1	3	1.78	2282	0.024	222	0.78	0.064	>10	<0.1	<0.01	1.4	0.5	0.46	2	<0.5	<0.2
PHOB-13	Vegetation	22.20	4.458	<1	2	1.92	321	0.020	247	0.82	0.064	>10	<0.1	<0.01	1.2	0.6	0.59	1	<0.5	<0.2
PHOB-14	Vegetation	18.95	>5	<1	2	2.46	1311	0.023	278	0.55	0.070	>10	<0.1	<0.01	1.2	1.0	0.58	1	<0.5	<0.2
PHOB-15	Vegetation	25.29	2.616	<1	1	2.15	420	0.011	122	0.09	0.032	9.21	<0.1	<0.01	1.3	0.2	0.30	1	0.7	<0.2
PHOB-16	Vegetation	18.35	>5	<1	1	2.39	1920	0.022	230	0.88	0.061	>10	<0.1	<0.01	1.1	0.7	0.48	<1	<0.5	<0.2
PHOB-17	Vegetation	21.34	>5	<1	1	3.53	745	0.020	145	0.42	0.055	>10	<0.1	<0.01	1.0	0.9	0.52	1	<0.5	<0.2
PHOB-18	Vegetation	18.53	>5	<1	<1	2.93	1356	0.022	129	0.83	0.041	>10	<0.1	<0.01	1.0	1.0	0.55	1	<0.5	<0.2
PHOB-19	Vegetation	20.76	>5	<1	<1	3.50	1184	0.021	125	0.71	0.062	>10	<0.1	<0.01	1.0	3.3	0.53	<1	<0.5	<0.2
PHOB-20	Vegetation	22.27	3.967	<1	<1	1.46	2840	0.017	121	0.80	0.053	>10	<0.1	<0.01	1.0	1.3	0.32	1	<0.5	<0.2
PHOB-21	Vegetation	16.81	>5	<1	<1	2.92	936	0.022	246	0.54	0.056	>10	<0.1	<0.01	1.0	0.8	0.45	1	<0.5	<0.2
PHOB-22	Vegetation	18.71	>5	<1	<1	2.25	2381	0.021	118	0.32	0.043	>10	<0.1	<0.01	0.9	0.6	0.33	1	<0.5	<0.2
PHOB-23	Vegetation	22.32	4.472	<1	<1	2.51	739	0.018	73	0.69	0.060	>10	<0.1	<0.01	0.9	0.4	0.58	1	<0.5	<0.2
RHTB-01	Vegetation	18.23	>5	<1	1	2.44	1173	0.022	122	0.94	0.071	>10	<0.1	<0.01	1.1	0.3	0.54	1	<0.5	<0.2
RHTB-02	Vegetation	20.01	4.939	<1	2	2.60	1349	0.021	117	0.72	0.090	>10	<0.1	<0.01	1.1	0.5	0.45	1	<0.5	<0.2
RHTB-03	Vegetation	21.21	4.262	<1	1	3.18	1468	0.017	193	0.36	0.086	>10	<0.1	<0.01	1.1	0.5	0.46	1	<0.5	<0.2
RHTB-04	Vegetation	17.84	>5	<1	2	2.57	963	0.023	116	0.71	0.100	>10	<0.1	<0.01	1.3	0.9	0.78	1	<0.5	<0.2
RHTB-05	Vegetation	18.34	>5	<1	2	2.99	1085	0.026	191	0.91	0.115	>10	<0.1	<0.01	1.3	0.7	0.64	2	<0.5	<0.2
RHTB-06	Vegetation	20.65	>5	<1	2	3.02	288	0.022	192	0.70	0.115	>10	<0.1	<0.01	1.2	<0.1	0.63	2	<0.5	<0.2
RHTB-07	Vegetation	17.74	>5	<1	2	2.36	911	0.025	291	0.32	0.105	>10	<0.1	<0.01	1.0	0.1	0.56	1	<0.5	<0.2
RHTB-08	Vegetation	19.42	>5	<1	2	4.48	1282	0.025	169	0.67	0.093	>10	<0.1	<0.01	1.2	0.9	0.45	1	<0.5	<0.2
RHTB-09	Vegetation	20.82	>5	<1	2	2.88	1461	0.021	251	0.66	0.104	>10	<0.1	<0.01	1.2	0.1	0.57	1	<0.5	<0.2
RHTB-10	Vegetation	21.30	>5	<1	1	2.46	1271	0.024	248	0.48	0.118	>10	<0.1	<0.01	1.1	0.1	0.59	1	<0.5	<0.2



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	VA475	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Rec. Wt	Ash	Wt	Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.001	0.1	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	0.1	
RHTB-11	Vegetation	50.550	1.489	1.5	80.2	4.0	1099	0.2	60.0	5.4	>10000	0.16	1.1	4.4	<0.1	366	0.6	0.1	<0.1	13		
RHTB-12	Vegetation	50.640	1.535	1.5	83.9	3.9	991	0.2	21.3	8.2	>10000	0.19	0.7	3.5	<0.1	327	2.4	0.1	<0.1	11		
RHTB-13	Vegetation	50.420	1.530	4.0	66.3	3.1	946	0.2	31.8	4.1	>10000	0.15	0.8	2.4	<0.1	333	1.0	0.1	<0.1	10		
RHTB-14	Vegetation	50.818	1.306	1.9	97.7	4.9	862	0.2	36.8	4.5	>10000	0.22	0.9	2.9	<0.1	337	0.7	0.2	<0.1	15		
RHTB-15	Vegetation	50.622	1.961	0.8	59.3	2.7	1117	<0.1	35.1	6.8	>10000	0.17	0.8	3.6	<0.1	578	1.2	<0.1	<0.1	13		
RHTB-16	Vegetation	50.414	1.404	2.1	99.3	4.1	785	0.3	55.2	5.5	>10000	0.22	0.8	3.2	<0.1	557	5.4	<0.1	<0.1	15		
RHTB-17	Vegetation	50.467	1.231	2.6	110.2	2.8	1428	0.2	67.2	4.7	>10000	0.17	1.2	0.6	<0.1	330	1.1	<0.1	<0.1	13		
RHTB-18	Vegetation	50.776	1.332	2.8	103.5	2.1	1661	0.2	31.5	6.3	>10000	0.16	0.6	5.2	<0.1	290	8.2	<0.1	<0.1	11		
RHTB-19	Vegetation	50.792	1.614	2.4	73.3	2.3	1160	<0.1	54.5	5.1	>10000	0.14	<0.5	1.9	<0.1	504	1.6	<0.1	<0.1	12		
RHTB-20	Vegetation	50.447	1.565	2.5	78.2	8.8	1224	<0.1	38.4	6.9	>10000	0.15	0.8	3.7	<0.1	371	5.8	<0.1	<0.1	12		
JHB-01	Vegetation	50.484	1.348	1.1	90.9	3.1	1061	<0.1	56.7	10.3	>10000	0.19	0.9	1.8	<0.1	485	2.5	<0.1	<0.1	14		
JHB-02	Vegetation	50.387	1.342	1.1	90.6	3.2	996	0.1	29.5	4.2	>10000	0.17	0.8	4.9	<0.1	344	0.7	<0.1	<0.1	12		
JHB-03	Vegetation	50.752	1.259	2.5	96.8	3.9	1065	0.2	75.2	6.4	>10000	0.22	0.8	2.5	<0.1	329	1.0	0.1	<0.1	15		
JHB-04	Vegetation	50.596	1.245	1.1	94.8	3.6	1246	0.3	45.6	4.6	>10000	0.20	1.0	1.0	<0.1	365	2.8	0.1	<0.1	14		
JHB-05	Vegetation	50.462	1.132	1.1	93.0	5.0	1448	0.1	95.4	5.3	>10000	0.23	1.0	1.3	<0.1	830	1.6	0.2	<0.1	13		
JHB-06	Vegetation	50.444	1.489	2.7	95.3	2.5	988	<0.1	40.0	12.9	>10000	0.18	0.6	0.5	<0.1	561	2.8	<0.1	<0.1	12		
JHB-07	Vegetation	50.434	1.327	1.4	92.1	3.2	819	0.2	49.4	9.9	>10000	0.20	0.9	1.1	<0.1	406	0.9	0.1	<0.1	15		
JHB-08	Vegetation	50.807	1.384	2.1	89.6	3.6	1297	0.1	32.8	4.3	>10000	0.20	0.7	1.8	<0.1	417	1.2	<0.1	<0.1	13		
JHB-09	Vegetation	50.717	1.460	1.5	87.2	2.4	1510	0.1	82.5	10.0	>10000	0.09	1.7	2.0	<0.1	675	7.3	0.1	<0.1	2		
JHB-10	Vegetation	50.495	1.221	1.5	97.7	3.3	1094	0.2	51.4	9.0	>10000	0.11	0.8	1.0	<0.1	390	0.9	0.1	<0.1	3		
JHB-11	Vegetation	50.532	1.628	1.4	83.7	1.7	1447	<0.1	22.7	7.9	>10000	0.09	<0.5	1.2	<0.1	448	3.3	<0.1	<0.1	3		
JHB-12	Vegetation	50.291	1.634	1.2	66.7	2.5	740	<0.1	53.1	4.4	>10000	0.11	0.7	1.6	<0.1	380	1.1	0.1	<0.1	<2		
JHB-13	Vegetation	50.667	1.458	1.6	80.9	3.6	1147	0.2	44.7	4.7	>10000	0.14	0.5	1.9	<0.1	283	0.4	0.1	<0.1	3		
JHB-14	Vegetation	50.212	1.353	1.8	95.9	3.2	1036	0.2	45.7	5.6	>10000	0.12	<0.5	2.0	<0.1	378	1.0	0.1	<0.1	3		
JHB-15	Vegetation	50.445	1.065	2.1	100.2	4.8	1693	0.1	48.8	6.4	>10000	0.16	<0.5	<0.5	<0.1	493	0.4	0.1	<0.1	4		
JHB-16	Vegetation	50.881	1.356	1.1	107.4	4.0	940	0.2	53.5	11.8	>10000	0.10	<0.5	0.7	<0.1	600	1.2	0.1	<0.1	<2		
JHB-17	Vegetation	50.404	1.240	2.3	103.5	2.2	1092	<0.1	60.2	7.8	>10000	0.10	0.6	1.4	<0.1	268	3.8	0.1	<0.1	3		
JHB-18	Vegetation	50.390	1.301	1.8	81.4	3.4	858	0.3	91.9	4.7	>10000	0.14	0.8	1.4	<0.1	725	0.6	0.1	<0.1	3		
JHB-19	Vegetation	50.492	1.351	1.0	95.4	2.5	1432	0.1	41.8	8.2	>10000	0.11	<0.5	3.7	<0.1	344	1.2	<0.1	<0.1	2		
JHB-20	Vegetation	50.459	1.515	1.9	108.8	3.5	1011	<0.1	25.8	6.3	>10000	0.09	<0.5	1.3	<0.1	221	2.6	<0.1	<0.1	3		



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Project: None Given
Report Date: August 24, 2017

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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ca	P	La	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	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
RHTB-11	Vegetation	18.38	>5	<1	1	2.52	644	0.020	142	0.49	0.077	>10	<0.1	<0.01	1.1	0.3	0.62	1	<0.5	<0.2
RHTB-12	Vegetation	21.40	4.193	<1	1	2.06	1737	0.018	172	0.36	0.087	>10	<0.1	<0.01	1.0	0.3	0.46	1	<0.5	<0.2
RHTB-13	Vegetation	21.36	>5	<1	1	1.66	1037	0.021	216	0.44	0.071	>10	<0.1	<0.01	0.9	0.3	0.41	1	<0.5	<0.2
RHTB-14	Vegetation	20.58	>5	<1	2	2.91	1464	0.024	180	0.71	0.066	>10	<0.1	<0.01	1.3	0.4	0.57	2	<0.5	<0.2
RHTB-15	Vegetation	25.39	3.811	<1	1	2.80	2153	0.016	221	0.41	0.076	>10	<0.1	<0.01	0.9	0.7	0.44	1	<0.5	<0.2
RHTB-16	Vegetation	23.54	3.276	<1	2	3.44	187	0.016	361	0.69	0.115	>10	<0.1	<0.01	1.2	0.1	0.62	1	<0.5	<0.2
RHTB-17	Vegetation	11.85	>5	<1	<1	3.59	807	0.027	169	0.43	0.110	>10	<0.1	<0.01	1.0	0.4	0.71	1	<0.5	<0.2
RHTB-18	Vegetation	17.96	>5	<1	<1	3.03	1620	0.023	239	0.25	0.110	>10	<0.1	<0.01	1.0	0.5	0.43	2	<0.5	<0.2
RHTB-19	Vegetation	20.62	4.976	<1	<1	2.68	1935	0.018	151	0.41	0.073	>10	<0.1	<0.01	0.9	0.4	0.42	1	<0.5	<0.2
RHTB-20	Vegetation	21.76	>5	<1	<1	2.77	1544	0.021	139	0.37	0.066	>10	<0.1	<0.01	0.9	0.9	0.46	1	<0.5	<0.2
JHB-01	Vegetation	19.42	>5	<1	1	3.04	212	0.021	187	0.73	0.095	>10	<0.1	<0.01	1.2	<0.1	0.98	2	<0.5	<0.2
JHB-02	Vegetation	18.95	>5	<1	1	1.79	488	0.021	203	0.71	0.085	>10	<0.1	<0.01	1.1	0.1	0.67	2	<0.5	<0.2
JHB-03	Vegetation	19.24	4.931	<1	2	3.20	1187	0.022	282	0.68	0.121	>10	<0.1	<0.01	1.2	0.4	0.39	2	<0.5	<0.2
JHB-04	Vegetation	20.08	>5	<1	1	2.77	497	0.021	178	0.91	0.105	>10	<0.1	<0.01	1.1	0.2	0.48	2	<0.5	<0.2
JHB-05	Vegetation	15.90	>5	<1	2	2.73	195	0.023	137	1.56	0.081	>10	<0.1	<0.01	1.2	0.2	1.23	2	<0.5	<0.2
JHB-06	Vegetation	16.96	>5	<1	1	2.24	1305	0.021	108	0.70	0.084	>10	<0.1	<0.01	1.2	0.1	0.61	2	<0.5	<0.2
JHB-07	Vegetation	19.02	>5	<1	2	4.07	1527	0.021	122	0.77	0.096	>10	<0.1	<0.01	1.3	0.3	0.64	2	<0.5	<0.2
JHB-08	Vegetation	19.40	>5	<1	1	2.06	997	0.021	183	0.57	0.096	>10	<0.1	<0.01	1.2	0.3	0.57	2	<0.5	<0.2
JHB-09	Vegetation	14.02	>5	<1	1	3.20	1711	0.023	57	0.86	0.130	>10	<0.1	<0.01	0.3	0.3	0.61	<1	<0.5	<0.2
JHB-10	Vegetation	14.38	>5	<1	1	4.25	830	0.030	161	0.77	0.126	>10	<0.1	<0.01	0.3	0.1	0.71	<1	<0.5	<0.2
JHB-11	Vegetation	18.79	4.528	<1	1	3.56	231	0.017	112	0.26	0.124	>10	<0.1	<0.01	0.2	0.4	0.82	<1	<0.5	<0.2
JHB-12	Vegetation	19.20	4.134	<1	1	2.98	739	0.020	80	0.80	0.102	>10	<0.1	<0.01	0.2	<0.1	0.70	<1	<0.5	<0.2
JHB-13	Vegetation	15.79	>5	<1	2	3.61	1544	0.023	88	0.95	0.115	>10	<0.1	<0.01	0.3	<0.1	0.47	<1	<0.5	<0.2
JHB-14	Vegetation	15.62	>5	<1	1	4.98	1017	0.023	105	0.80	0.133	>10	<0.1	<0.01	0.4	0.3	0.68	<1	<0.5	<0.2
JHB-15	Vegetation	14.48	4.912	<1	2	4.31	1059	0.023	114	0.58	0.203	>10	<0.1	<0.01	0.5	<0.1	0.96	<1	<0.5	<0.2
JHB-16	Vegetation	14.84	4.500	<1	1	3.52	272	0.019	109	0.51	0.140	>10	<0.1	<0.01	0.2	<0.1	1.00	<1	<0.5	<0.2
JHB-17	Vegetation	15.49	>5	<1	1	2.69	184	0.025	139	0.57	0.113	>10	<0.1	<0.01	0.3	0.1	0.83	<1	<0.5	<0.2
JHB-18	Vegetation	17.17	>5	<1	2	5.36	1264	0.025	117	1.08	0.093	>10	<0.1	<0.01	0.4	0.3	0.68	<1	<0.5	<0.2
JHB-19	Vegetation	13.24	>5	<1	1	3.38	1154	0.028	157	0.50	0.158	>10	<0.1	<0.01	0.2	<0.1	0.91	<1	<0.5	<0.2
JHB-20	Vegetation	15.29	>5	<1	1	2.26	1403	0.028	330	0.24	0.133	>10	<0.1	<0.01	0.2	<0.1	0.62	<1	<0.5	<0.2



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Method	VA475	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Rec. Wt	Ash Wt	ashed Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.001	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	0.1	
JHB-21	Vegetation	50.727	1.398	2.3	85.7	4.1	1191	0.2	40.3	6.8	>10000	0.15	<0.5	1.2	<0.1	402	1.1	<0.1	<0.1	3	
JHB-22	Vegetation	50.483	1.236	1.6	80.4	3.8	1439	0.1	33.2	3.6	>10000	0.14	<0.5	5.0	<0.1	392	1.2	0.1	<0.1	3	
JHB-23	Vegetation	50.706	1.637	0.8	74.5	2.6	1091	<0.1	41.3	4.5	>10000	0.08	<0.5	1.9	<0.1	652	1.7	<0.1	<0.1	<2	



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Project: None Given
Report Date: August 24, 2017

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CERTIFICATE OF ANALYSIS

VAN17001639.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ca	P	La	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	ppm	
MDL	0.01	0.001	1	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	
JHB-21	Vegetation	15.39	>5	<1	2	2.86	972	0.026	182	0.56	0.036	>10	<0.1	<0.01	0.2	1.3	1.01	<1	<0.5	<0.2
JHB-22	Vegetation	16.40	4.664	<1	1	2.63	202	0.021	129	0.56	0.035	>10	<0.1	<0.01	0.2	1.9	0.89	<1	<0.5	<0.2
JHB-23	Vegetation	16.06	4.308	<1	<1	2.59	247	0.018	163	0.50	0.022	>10	<0.1	<0.01	0.1	1.0	0.91	<1	<0.5	<0.2



QUALITY CONTROL REPORT

VAN17001639.1

Method	VA475	VA475	VA475	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Rec. Wt	Ash	Wtshed Wt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	g	g	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.001	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	
Pulp Duplicates																					
WHB-12	Vegetation	50.808	1.778	0.6	101.6	1.6	1538	0.3	41.5	2.3	8374	0.09	<0.5	1.7	<0.1	628	0.3	<0.1	<0.1	5	
REP WHB-12	QC			0.6	101.6	1.4	1519	0.3	40.2	2.1	8135	0.09	0.8	1.9	<0.1	588	0.2	<0.1	<0.1	5	
PHOB-02	Vegetation	50.209	1.466	0.8	87.0	4.6	1340	0.1	25.6	3.5	>10000	0.25	1.1	3.9	0.1	348	1.6	0.1	<0.1	12	
REP PHOB-02	QC			0.9	87.2	5.0	1365	0.1	26.4	3.5	>10000	0.25	1.2	4.8	0.1	331	1.8	0.2	<0.1	12	
RHTB-14	Vegetation	50.818	1.306	1.9	97.7	4.9	862	0.2	36.8	4.5	>10000	0.22	0.9	2.9	<0.1	337	0.7	0.2	<0.1	15	
REP RHTB-14	QC			2.1	95.7	5.9	864	0.2	36.8	4.7	>10000	0.22	0.8	3.7	<0.1	326	0.7	0.1	<0.1	15	
JHB-17	Vegetation	50.404	1.240	2.3	103.5	2.2	1092	<0.1	60.2	7.8	>10000	0.10	0.6	1.4	<0.1	268	3.8	0.1	<0.1	3	
REP JHB-17	QC			2.3	102.4	2.1	1058	<0.1	62.2	8.5	>10000	0.10	<0.5	1.3	<0.1	258	3.5	<0.1	<0.1	3	
Reference Materials																					
STD DS11	Standard			13.8	151.4	124.6	339	1.5	76.3	12.9	1052	3.08	43.1	57.1	7.6	64	2.4	6.0	10.7	51	
STD DS11	Standard			13.5	152.2	131.5	359	1.9	82.4	13.5	1075	3.19	42.7	138.1	7.5	65	2.5	6.7	10.9	51	
STD DS11	Standard			12.3	144.4	125.3	335	1.6	77.6	13.0	1029	3.04	40.9	45.9	6.9	62	2.5	5.8	11.4	50	
STD DS11	Standard			14.4	152.7	137.6	354	1.5	78.0	12.2	970	2.90	43.2	56.7	8.1	68	2.6	6.9	12.4	46	
STD OREAS45EA	Standard			1.5	687.7	14.1	33	0.2	385.7	49.9	385	20.40	10.6	51.4	10.6	4	<0.1	0.2	0.2	292	
STD OREAS45EA	Standard			1.3	694.4	13.2	30	0.3	394.8	48.3	405	20.95	10.6	53.5	9.9	4	<0.1	0.2	0.2	299	
STD OREAS45EA	Standard			1.4	708.0	14.5	31	0.2	400.3	50.3	409	20.79	10.7	56.0	10.3	4	<0.1	0.2	0.3	302	
STD OREAS45EA	Standard			1.5	681.4	12.6	31	0.2	363.5	45.7	397	20.80	10.1	45.7	9.3	4	<0.1	0.2	0.2	297	
STD OREAS45EA Expected				1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	7.2	12.2	50	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	
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	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	12	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	



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Project: None Given
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QUALITY CONTROL REPORT

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Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Ca	P	La	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	ppm
MDL		0.01	0.001	1	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																				
WHB-12	Vegetation	22.82	3.070	<1	<1	1.95	1228	0.013	62	0.08	0.036	>10	<0.1	<0.01	1.5	<0.1	0.53	<1	<0.5	<0.2
REP WHB-12	QC	22.64	2.999	<1	<1	1.94	1203	0.012	61	0.08	0.032	>10	<0.1	<0.01	1.5	<0.1	0.55	<1	<0.5	<0.2
PHOB-02	Vegetation	20.12	>5	<1	2	1.85	1315	0.027	186	0.40	0.135	>10	<0.1	<0.01	1.4	<0.1	0.72	1	0.6	<0.2
REP PHOB-02	QC	20.16	>5	<1	2	1.90	1323	0.026	169	0.40	0.134	>10	<0.1	<0.01	1.4	<0.1	0.70	2	0.5	<0.2
RHTB-14	Vegetation	20.58	>5	<1	2	2.91	1464	0.024	180	0.71	0.066	>10	<0.1	<0.01	1.3	0.4	0.57	2	<0.5	<0.2
REP RHTB-14	QC	20.61	>5	<1	2	2.87	1453	0.024	213	0.73	0.066	>10	<0.1	<0.01	1.2	0.4	0.56	1	<0.5	<0.2
JHB-17	Vegetation	15.49	>5	<1	1	2.69	184	0.025	139	0.57	0.113	>10	<0.1	<0.01	0.3	0.1	0.83	<1	<0.5	<0.2
REP JHB-17	QC	14.93	>5	<1	1	2.65	175	0.024	119	0.57	0.113	>10	<0.1	<0.01	0.2	0.1	0.83	<1	<0.5	<0.2
Reference Materials																				
STD DS11	Standard	1.03	0.074	18	59	0.85	407	0.098	<20	1.15	0.072	0.39	2.8	0.27	3.3	4.7	0.29	5	2.5	4.1
STD DS11	Standard	1.07	0.068	18	61	0.88	435	0.099	<20	1.19	0.073	0.39	2.4	0.25	3.5	4.7	0.30	5	3.2	4.5
STD DS11	Standard	1.02	0.069	17	57	0.84	399	0.092	<20	1.14	0.070	0.38	2.4	0.23	3.2	4.5	0.29	5	2.8	5.0
STD DS11	Standard	0.99	0.069	17	53	0.83	400	0.102	<20	1.06	0.066	0.38	2.6	0.26	3.2	4.6	0.26	5	1.8	4.5
STD OREAS45EA	Standard	0.03	0.028	7	857	0.09	141	0.102	<20	3.23	0.016	0.05	<0.1	<0.01	76.4	<0.1	<0.05	12	0.9	<0.2
STD OREAS45EA	Standard	0.03	0.031	7	852	0.08	139	0.102	<20	3.24	0.017	0.06	<0.1	<0.01	79.5	<0.1	<0.05	12	1.1	<0.2
STD OREAS45EA	Standard	0.03	0.029	7	856	0.09	146	0.101	<20	3.36	0.017	0.05	<0.1	<0.01	78.1	<0.1	<0.05	12	1.4	<0.2
STD OREAS45EA	Standard	0.03	0.026	6	754	0.09	124	0.097	<20	3.25	0.019	0.06	<0.1	<0.01	75.7	<0.1	<0.05	12	0.9	<0.2
STD OREAS45EA Expected		0.036	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
STD DS11 Expected		1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.3	3.1	4.9	0.2835	4.7	1.9	4.56
BLK	Blank	<0.01	<0.001	<1	<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	<0.01	<0.001	<1	<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	<0.01	<0.001	<1	<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	<0.01	0.004	<1	<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