

BC Geological Survey
Assessment Report
38277



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geology Report on the Holy Cross North Property

TOTAL COST: \$4916.90

AUTHOR(S): Linda Erdman

A handwritten signature in blue ink that reads "Linda Erdman".

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): October 5 and 6 2018

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5738747 April 19, 2019

YEAR OF WORK: 2018

PROPERTY NAME: Holy Cross North tenure # 1027927

CLAIM NAME(S) (on which work was done): HC North

COMMODITIES SOUGHT: Gold, silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Omineca

NTS / BCGS: 93F15

LATITUDE: 53 ° 49 ' 12 "

LONGITUDE: 124 ° 58 ' 48 " (at centre of work)

UTM Zone: EASTING: NORTHING:

OWNER(S): Geoffrey Goodall

MAILING ADDRESS:

101-1001 W, Broadway
Vancouver, B.C V6H 4E4

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

MAILING ADDRESS:

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REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) rhyolite, Eocene Ootsa Lake Group, Kasalka Group, epithermal, silicification, argillic alteration, gold, silver, pathfinder elements

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

AR 35504 Prospecting Report on the Holy Cross Property

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	1:50000, 60 ha	HC North	2641.90
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock 4	ICP plus Au	HC North	2000.00
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying		HC North	275.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	4916.90

Assessment Report

Geology Report on the Holy Cross North Property

**HC North Mineral Claim
Tenure Number: 1027927**

**Omineca Mining Division
Fraser Lake Area
British Columbia
NTS 93F15
53⁰ 48.78' North Latitude
124⁰ 58'.79' West Longitude**

October 5 and 6, 2018

**Owner and Operator:
Geoffrey Goodall**

Report written by:

Linda Erdman B.Sc., M.Sc., P.Geo.

**Global Geological Services Inc.
101 – 1001 W. Broadway, Vancouver, BC**

May 15, 2019

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SUMMARY

The Holy Cross (HC) North property consists of a single cell, 190.93 hectare claim, located in the Omineca Mining Division of north central British Columbia. It is located approximately 145 kilometres west of Prince George and is readily accessed by a network of forest service and secondary logging roads south from the Village of Fraser Lake, 33 kilometres to the north. A geologic mapping and sampling program was undertaken on October 5 and 6, 2018. A total of four rock samples were collected and submitted for geochemical analyses.

Gold mineralization on the Holy Cross prospect (contiguous and to the south of the HC North property) was discovered in 1987 by geologists working for Noranda Exploration. These geologists identified several areas of silicified quartz veined rhyolite with gold concentrations up to 1.0 g/t over 8.5 metres.

The 2018 geologic mapping program on HC North was hindered by a lack of outcrop, estimated at 1% to 2% exposure. Too few outcrops were located to produce a geologic map but based on the outcrops that were seen and the distribution of silicified rhyolitic float it appears that the property is underlain by volcanics of the Kasalka Group to the south and west and rhyolitic volcanics of the Ootsa Lake Group to the east. Rocks belonging to the Hazelton Volcanics were not identified.

Rock samples were collected from rhyolitic outcrop (two samples) and rhyolitic float (two samples) which exhibited silicification and/or argillic alteration. These returned inconsistent results of elevated silver (Ag), weakly elevated arsenic (As), elevated antimony (Sb), and anomalous Barium (Ba). Gold concentrations were not anomalous. The elevated concentrations of pathfinder elements are indicators of an epithermal mineralized environment and suggest that the HC North property may be a continuation of the large system of hydrothermally altered rocks that host gold mineralization on the Holy Cross prospect immediately to the south.

1.0 Introduction

This report documents the results of a two day geologic mapping and sampling program undertaken on the Holy Cross North epithermal gold prospect. Dates of the work were October 5 and 6, 2018, and work was carried out by L. Erdman (P.Geo.) and G. Goodall (P.Geo.). The Holy Cross North property is located in central British Columbia and is accessed by a series of logging roads and trails leading south from Fraser Lake. Traverses were made along existing logging roads, slopes, and drainages, primarily looking for outcrops but also observing the distribution and abundance of float. A total of four rock samples were collected from silicified and/or argillically altered rhyolite. These were submitted for geochemical analyses to ALS Canada Ltd. in North Vancouver B.C.

2.0 Property Description and Location

The Holy Cross North property consists of the single cell, 190.93 hectare, HC North mineral claim located on BCGS map sheet 093F.086 within the Omineca Mining Division of central British Columbia (Figure 1). The Holy Cross (HC) North property is located approximately 145 kilometres west of Prince George, BC and 33 kilometres south of the Village of Fraser Lake. The claim is centered on a north facing slope at 53° 48.78' north latitude, 124° 58.79' west longitude, east-northeast of Holy Cross Mountain (Figure 2). Topography is subdued.

Table 1

CLAIM NAME	TENURE NUMBER	EXPIRY DATE	HECTARES
HC North	1027927	January 15, 2021*	190.93

* Expiry date is based on acceptance of this written report

The Holy Cross North property is located within a resource development designated area and there are no known Native Land Claims issues. Logging operations are active throughout the region. There are no known environmental concerns. Prior to conducting exploration, a Mineral Exploration permit must be granted by the Ministry of Energy and Mines. A Free Use permit will be required from the Ministry of Forests should disturbance of timbered areas exceed the allowance in the MinEx permit.

3.0 Access, Physiography and Climate

Access to the HC North property is provided by a network of logging roads that leave highway 16 east of Fraser Lake. At 36 kilometre on the Holy Cross Forest Service Road turn to the northwest on road FSR Holy Cross North 7724-08. This road is accessible by standard four wheel drive vehicle. At 6.7 kilometer turn west onto spur road FSR Holy Cross Northwest 7724-24. This latter spur road has been deactivated by steep ditches 150 meters south of the south property boundary and it is not passable by a standard four wheel drive vehicle. It is necessary to walk or use an ATV to access the property.

The HC North property is located within the Nechako Plateau region of central British Columbia and covers a north facing slope of gentle topography. Elevations range from 1060 meters to 1140 meters in elevation bisected by two small drainages flowing towards the north. The area has



Figure 1 Location Map



Legend



This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Printed using the Mineral Titles Online (MTO) application.

Center: 52°11'59", -122°32'27"
Scale: 1 : 8666858
SRS: EPSG:3857
UTM Zone: 10

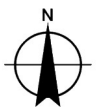
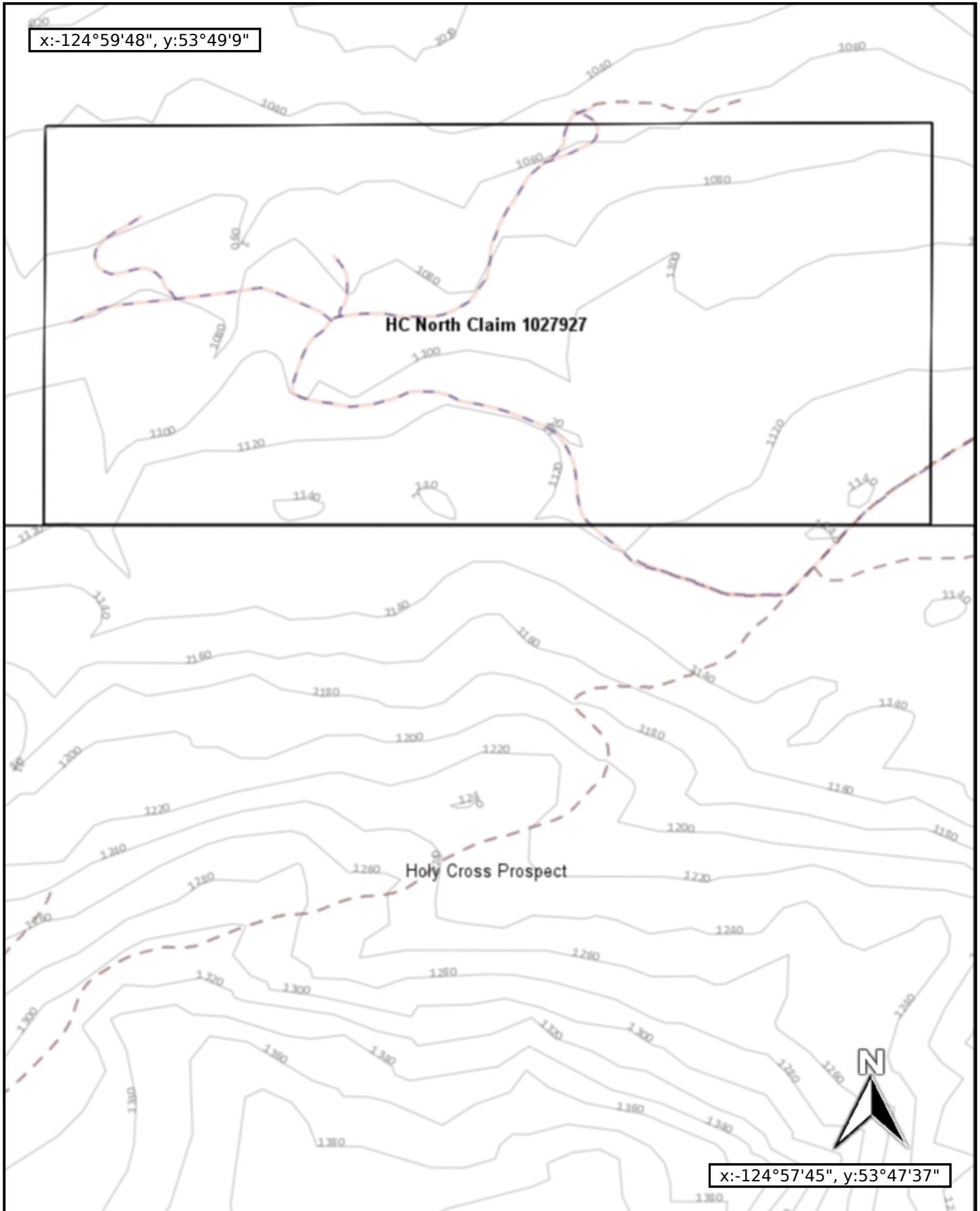


Figure 2 HC North Claim Location

Mineral Tenure 1027927



400 m
1300 ft

May/11/2019
Scale 1:20000

This map is generated from MapPlace.

been logged by clear cut, timber which was infected by Pine Beetle has fallen to the ground, and recent forest fires have scorched the ground. At present there is no merchantable timber remaining.

The Nechako Plateau is an area of subdued relief with extensive glacial drift and bedrock surface exposures are typically limited to 5-10%. Outcrop is rare and soil/till cover typically ranges from 1 meter to several meters thick. On the HC North property outcrop is limited to road cuts and creek drainages and comprises less than 2% of the property area.

The HC North property has a temperate continental climate with warm summers, ranging from 5 to 25°C, and cold winters, ranging from 0 to -15°C. Annual precipitation averages 33 cm of rainfall and 165 cm of snowfall. Surface exploration work on the property is best carried out between April and late October.

4.0 Exploration History

To the south and contiguous with the HC North property is the Holy Cross prospect (Figure 2)) which was discovered in 1987 by geologists working for Noranda Exploration Company. The original claims were staked after rock samples collected from a rhyolite dome returned anomalous concentrations of gold. Noranda explored this prospect during 1988-89 with geological mapping, extensive soil sampling, trenching and geophysical surveys (IP, magnetometer). They identified several areas of pervasively silicified, quartz veined rhyolite with anomalous gold concentrations. Trench 1, excavated on silicified rhyolite breccia, returned 1.0 g/t gold over 8.5 metres.

After the Noranda claims lapsed the prospect area was simultaneously staked in 1994 by Kennecott Canada and Cogema Resources, resulting in a claim dispute. Prior to conceding the ground, Kennecott conducted geological mapping and geochemical surveys. During October 1994, Cogema Resources conducted reconnaissance rock and soil sampling. Cogema Resources optioned the prospect to Phelps Dodge Corporation of Canada ("Phelps Dodge") in 1995. They conducted additional geological mapping and geochemical surveys but returned the prospect to Cogema Resources in 1998. The claims lapsed in 1999.

Claims covering the original discovery showings as well as a broader zone of highly altered volcanic rocks were staked by G. Goodall in February, 2000. In December 2000 the prospect was optioned to Tuscany Minerals Ltd. who conducted a limited field program of rock geochemical sampling and returned the prospect to Goodall in 2002. In 2006 Goodall sold the prospect to Golden Cross Resources Inc. who conducted several exploration programs including soil and rock geochemistry, geological mapping and geophysical surveys. The claims covering the key showings at the Holy Cross prospect lapsed in 2014 and were acquired by various individuals interested in this relatively unexplored gold mineralized prospect.

The HC North claim was staked by G. Goodall on April 29, 2014.

5.0 Geological Setting

5.1 Regional Geology

The HC North property is situated in the Nechako Plateau, which is at the northern end of the much larger Interior Plateau region of central British Columbia, which is part of the Intermontane Belt. This latter Belt consists of late Paleozoic to late Tertiary sedimentary and volcanic rocks belonging to the Stikinia, Cache Creek and Quesnellia Terranes. The Yalakom and Fraser fault systems bound the plateau to the northeast and southwest.

The geology of the area was first mapped at a regional scale of 1:250,000 by Tipper (1963). More detailed mapping in the area was conducted by Diakow and Webster (1994), Lane (1995) Diakow and Levson (1997) and Lane and Schroeter (1997). The regional geology of the surrounding area, extending up to about 10 km from the property, is illustrated on Figure 3, which is derived from previously published maps that have been compiled by Massey et al. (2005).

According to Lane & Schroeter (1997) the Nechako region is underlain by basement rocks of the Stikine Terrane comprised of remnants of superposed island arc volcanics and associated marine sequences that are assigned to the Lower Permian Asitka, the Upper Triassic Stuhini and the Lower and Middle Jurassic Hazelton Groups. Hazelton Group volcanics (mJHN & ImJH) are the oldest units mapped in the area surrounding the property.

During Middle Jurassic time, the previous widespread volcanism ended and structural onlap of the Cache Creek Terrane onto Stikinia led to the formation of basinal settings. Initial deposits in these basins consisted primarily of shale, succeeded by chert dominated coarse clastic deposits characteristic of marine regression and fluvial-deltaic sedimentation. This depositional sequence is represented by the Bowser Lake Group (muJBsc).

During Early Cretaceous time Hazelton Group volcanics were conformably overlain by rocks of the Skeena Group, shallow marine sediments comprised of chert pebble conglomerate, minor argillite, conglomerate, sandstone, and mudstone.

Upper Cretaceous calc-alkaline hornblende phyric andesite flows of the Kasalka Group (uKK), stratigraphically overlie the Skeena Group and mark the construction of a continental margin arc. This volcanism remained active until latest Late Cretaceous time.

Continental arc magmatism was re-established during Middle to Late Eocene time with the eruption of andesites and rhyolites belonging to the Ootsa Lake Group (EO, EOva). These volcanic units unconformably overlie the older rocks in the area.

Flat lying Eocene to Oligocene Endako Group (EEva) andesite and basalt locally overlie the area and are in turn overlain by basalts of the Miocene and Pliocene Chilcotin Group, a broad lava plateau covering much of south central British Columbia.

The Nechako Plateau region has potential to host different styles of mineral deposits in the Jurassic Hazelton Group and Eocene Ootsa Lake Group volcanic rocks, and their coeval intrusions; both of which are locally disrupted by intensive extensional faulting.

5.2 Property Geology

According to the regional geology map of Massey et. al. (2005) the HC North property is primarily underlain by undivided Early to Middle Jurassic Hazelton Group maroon, maroon-grey, and green, heterogeneous, fine- to coarse-grained, feldspar-phyric basaltic, andesitic and rhyolitic pyroclastic and flow rocks; heterolithic and monolithic volcanoclastic and epiclastic volcanic rocks, and tuffaceous rocks (Figure 3). These have been intruded by a small pluton belonging to the Stag Lake Plutonic suite, a Middle to Late Jurassic hornblende-biotite quartz monzodiorite; minor granodiorite and megacrystic quartz monzonite.

Prior to the work done in October 2018 (described in this report) no other geologic mapping has been completed.

6.0 Deposit Types and Styles of Mineralization

Several styles and intensities of alteration have been observed on the adjacent Holy Cross prospect (Figure 2), contiguous and to the south of the HC North property. On the Holy Cross prospect, argillic alteration is generally restricted to the Ootsa Lake volcanic rocks and is locally overprinted by 1 cm to 10 metre wide zones of silicification (Chapman, 2009). Areas of secondary brecciation, drusy quartz development in open cavities and quartz healed breccias occur locally within the altered areas. These features have been interpreted by Chapman (2009) as evidence of several episodes of silicification. Disseminated sulphides, primarily pyrite, vary from 1 to 5% throughout the argillic altered rocks.

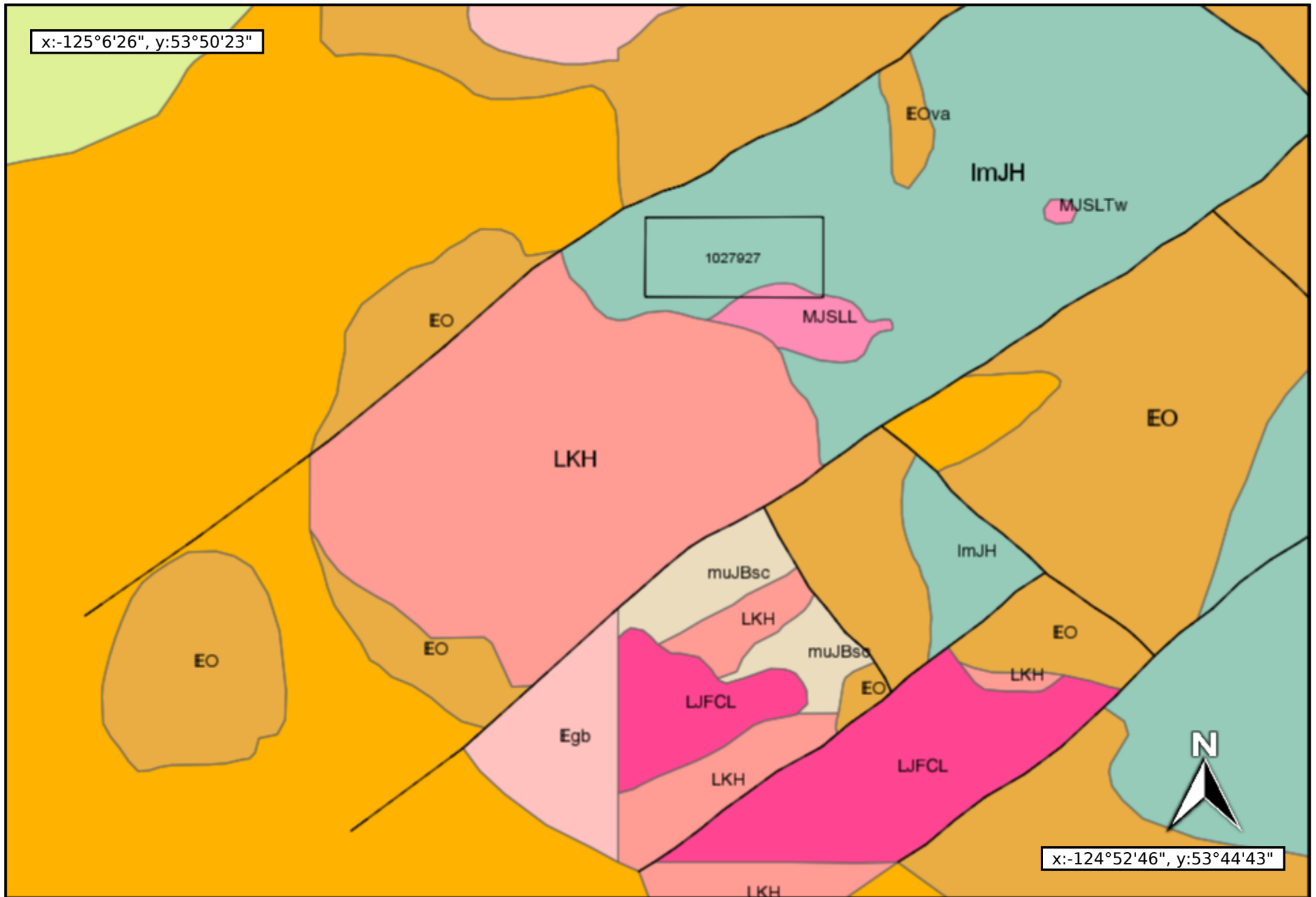
Gold and silver mineralization is associated with banded, vuggy quartz veinlets and in silicified volcanic rocks. Previous samples, collected from the altered volcanic rocks described above have returned significant concentrations of gold and pathfinder elements; Goodall (2002) reported a grab sample with values of 24.02 g/t gold and 20.8 g/t silver, and Payne (1996) reported 9.56 g/t gold and 9.5 g/t silver, also from a grab sample. Chip sampling by Phelps Dodge (Payne, 1996) averaged 1.8 g/t gold and 47.8 g/t silver over 4 metres.

The style of alteration and presence of gold and silver mineralization are typical of those associated with a low sulfidation epithermal environment.

7.0 Data Corroboration

This report relies on information collected from numerous sources including Geological Survey of Canada memoirs, BC Geological Survey bulletins, the BC Ministry of Mines database of annual reports, assessment reports and Minfile records and personal knowledge.

Figure 3
Regional Geology from Massy et al 2005



2 km
1 mi

Apr/30/2019
Scale 1:100000

This map is generated from MapPlace.

Figure 3 Regional Geology Legend (after Massy et al 2005) Note: 2 pages in length

Map unit	Unit Name	Age	Description
EO	Ootsa Lake Formation	Eocene to Oligocene	Flow-laminated rhyolite with minor rhyolite fragments, primary flow folding, minor vesicles, perlitic or spherulitic textures and/or minor lithophysae; variegated buff white to tan, pink, brown, orange, green, and grey, porphyritic and aphanitic rocks.
EOva	Ootsa Lake Formation	Eocene to Oligocene	Red-brown, tan, dark green to maroon, heterogeneous, aphanitic or porphyritic, massive, vesicular or amygdaloidal andesite, hornblende-plagioclase porphyry andesite lava flows and breccia: amygdules contain chlorite, iron oxide, epidote and calcite.
Eeva	Endako Formation	Eocene	Brownish grey, rusty brown, buff, to grey-green, basaltic andesite and andesitic lava flow, hyaloclastite, tuff and hematite-rich interflow breccia units which are vesicular and amygdaloidal, thin and locally flow-layered and/or columnar-jointed.
Efp	Unnamed Porphyry	Eocene	Hornblende- and quartz-plagioclase porphyry and alkali feldspar porphyry plugs and dykes associated with miarolitic (hornblende-) biotite leucogranite; includes equigranular and miarolitic biotite-feldspar porphyry dykes or small plugs.
Egb	Undivided intrusives	Eocene	felsic intrusions, intrusive crystal tuff and breccia, rhyolite subvolcanic domes and fine grained gabbro.
LKH	Holy Cross Pluton	late Cretaceous	Greenish grey, homogeneous, andesitic hornblende-plagioclase porphyry; minor dark grey clinopyroxene gabbro.

UKK	Kasalka Group	late Cretaceous	Grey-green or purple, heterolithic andesite lapilli tuff and tuff breccia; some pale-green to green, andesite to dacite, aphanitic to (biotite-, hornblende- and/or chloritized pyroxene-) plagioclase-phyric crystal-rich flows, tuffs, and volcanic rocks.
LJFCL	Francois Lake Plutonic Suite	late Jurassic	Mottled pink and white, unfoliated, fine- to medium-grained biotite monzogranite.
MJSLL	Stag Lake Plutonic Suite	mid to late Jurassic	Unfoliated to foliated, mesocratic hornblende-biotite quartz monzodiorite; minor granodiorite and megacrystic quartz monzonite.
muJBsc	Bowser Lake Group	mid to late Jurassic	Undivided, greenish grey heterolithic conglomerate, grey or light green siltstone and sandstone, and minor dark green and black mudstone: conglomerate is clast- to matrix supported, poorly sorted, and poorly to planar bedded.
MJHn	Hazelton Group	middle Jurassic	Undivided, dark green, greenish grey and maroon, clinopyroxene- and plagioclase-phyric basaltic and andesitic lava flows, volcanic breccia and conglomerate, undivided volcanoclastic rocks, rare hyaloclastite, and associated argillite and greywacke.
ImJH	Hazelton Group	early to mid Jurassic	Undivided, maroon, maroon-grey, and green, heterogeneous, fine- to coarse-grained, feldspar-phyric basaltic, andesitic and rhyolitic pyroclastic and flow rocks; heterolithic and monolithic volcanoclastic and epiclastic volcanic rocks, and tuffaceous rocks.

8.0 2018 Work Program

A geologic program was conducted on the HC North property by L. Erdman, P.Geol. and G. Goodall, P.Geol. on October 5 and 6, 2018. The work program consisted of traverses along the existing logging roads, slopes, and drainages, primarily looking for outcrops but also observing the distribution and abundance of float. The majority of the property is covered by overburden and outcrop is, at most, 1% to 2% of the total area. Locations of the outcrops were recorded by GPS. One altered rhyolite outcrop (HC10) was identified at the road edge, outcrops of unaltered andesite were located to the west (HC4), a large breccia boulder was found at HC8 and a small outcrop of flow banded rhyolite (HC2) was located in the extreme south east corner of the claim. Four rock samples were collected for further evaluation. Traverses totaled four kilometres.

The collected rock samples were submitted to ALS Canada Ltd. North Vancouver, BC for analyses by 48 element - 4 acid ICP-MS, plus gold analyses by ICP with an AES finish. Certificates are provided in Appendix II. Figure 4 shows the rock sample and station locations.

9.0 Results, Interpretation and Conclusions

Too few outcrops were located to produce a geologic map but based on the outcrops that were seen and the distribution of silicified rhyolitic float it appears that the HC North property is underlain by volcanics of the Kasalka Group, and andesitic and rhyolitic volcanics of the Ootsa Lake Group. Andesites belonging to either the Kasalka Group (uKK) or the Ootsa Lake volcanics (EOva) are located to the south and west and unaltered to altered rhyolites of the Ootsa Lake Group (EO) are located to the east. Rocks belonging to the Hazelton Volcanics were not identified.

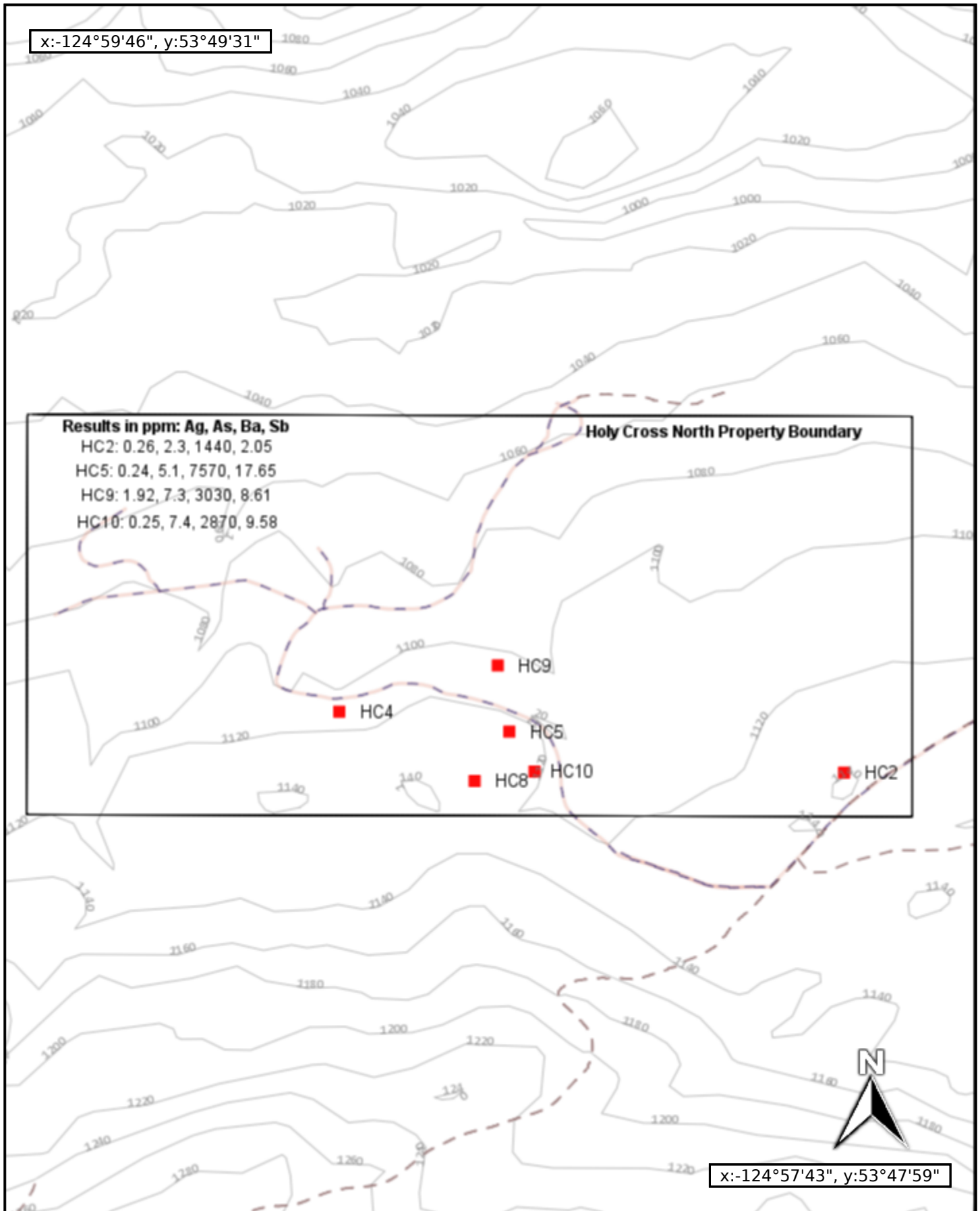
On the regional geology map of Massy et al (2005) the gold mineralized "Discovery" and "Hilltop" zones on the Holy Cross prospect (located to the south, Figure 2) are shown to be underlain by the late Cretaceous Holy Cross Pluton. This mapping is incorrect as detailed mapping by Lane in 1995 shows these gold mineralized zones to be underlain by Eocene Ootsa Lake rhyolites. Rocks of the Kasalka Group are also present in the immediate area.

Given that one outcrop, as well as abundant float, of silicified rhyolite and a large boulder of Kasalka Group volcanic breccia were identified on the HC North mineral claim, and Hazelton Group andesites were not identified, it is probable that the geology as shown on Massy et. al. (2005) is also incorrect. Additional mapping on the HC North property may locate similar gold mineralized zones as have been identified on the Holy Cross prospect to the south.

Rock and sample descriptions and locations are provided in Appendix I. Complete ICP analytical data is provided in Appendix II. All four sample rocks were collected from rhyolitic volcanics. Two samples were collected from outcrops and two were collected from float. Results from the rock samples returned no gold values, but they did return inconsistent weakly elevated levels of silver (to 1.92 ppm Ag), weakly elevated arsenic (to 7.4 ppm As), elevated antimony (to 17.65 ppm Sb), and anomalous Barium (to 7570 ppm Ba). The three pathfinder elements (Ag, As, Sb) are indicators of an epithermal mineralized environment and suggest that the HC North Property may be a continuation of the large system of hydrothermally altered rocks that host gold mineralization on the Holy Cross prospect immediately to the south.

Figure 4 Rock and Sample Locations

Results in ppm: Ag, As, Ba, Sb



400 m
1300 ft

May/13/2019
Scale 1:20000

This map is generated from MapPlace.

Andesitic Outcrops (HC 4)



boulder of volcanic breccia (HC 8)

10.0 Recommendations

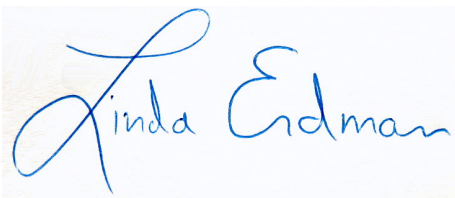
It is recommended that further geologic mapping and soil geochemical sampling be conducted on the HC North property. Geologic mapping of both outcrop and float will assist in identify areas of rhyolitic volcanics and zones of alteration favourable for hosting epithermal style mineralization. Subsequent soil geochemical surveys should then be conducted over, and outward from, these prospective areas.

11.0 Disbursements

A total of \$4,916.90 was spent on the HC North property during the 2018 geology program, as tabulated below:

Linda Erdman, P. Geo.	2 days - mapping	\$1,400.00
Geoffrey Goodall P. Geo.	2 days – mapping	\$1,400.00
Report Writing and Drafting		\$ 840.00
Transportation		\$ 401.50
Accommodation and Board		\$ 600.00
Analyses		<u>\$ 275.40</u>
	Total	\$4,916.90

Prepared by:
Global Geological Services Inc.



Per: _

Linda Erdman, B.Sc., M.Sc., P. Geo.
May 15, 2019

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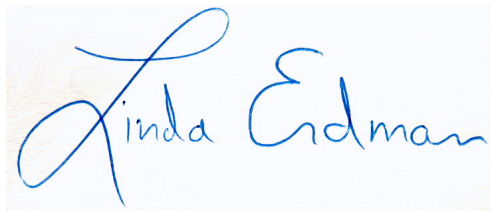
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13.0 CERTIFICATE OF QUALIFIED PERSON

I, Linda R. Erdman, certify to the following:

1. I am a consulting geologist residing at 101 – 1001 W. Broadway, Vancouver, BC
2. I am a graduate of the University of BC with a Bachelor of Science and a Masters of Science degrees in Geology.
3. I am a Professional Geoscientist registered in the Association of Professional Engineers and Geoscientists of British Columbia
4. I have been engaged in geological work since my B.Sc. graduation in 1978.
5. I am a "Qualified Person" as defined by National Instrument 43-101.
6. I am the author of the report titled "Geology Report on the Holy Cross North Property" dated May 15, 2019

A handwritten signature in blue ink that reads "Linda Erdman". The signature is written in a cursive style with a large, stylized initial 'L'.

Linda Erdman, B.Sc., M.Sc., P. Geo.
May 15, 2019

APPENDIX I
ROCK and SAMPLE DESCRIPTIONS

2018 Fall Work Program - Holy Cross

Rock and Sample Locations and Descriptions

Lab Sample	Field #	Easting(N83)	Northing(N83)	Type	Description
T18LGG01	HC2	370515	5964087	o/c	grey to reddish brown flow banded rhyolite cut by two 1 meter wide grey green Di (andesite?) dykes
	HC4	369348	5964264	o/c	Unaltered andesite, light green grey rubbly weathering outer surface, darg green-grey fresh surface, rare vesicles, no phenos
HC18GG05	HC5	369741	5964197	float	rhyolite tuff with hematite fracture sfcs, rare chalcedonic Qz, wk argillic alteration
	HC8	369652	5964089	boulder	heterolithic breccia, grey green fresh surface, unaltered, angular to subrounded frags from 1 cm to 15 cm, matrix is andesitic tuff
HC18GG09	HC9	369713	5964354	float	flowbanded rhyolite, weak argillic alteration, tr Qz veinlets, tr chalcedony, locally silicified
HC18GG10	HC10	369792	5964107	o/c	rhyolite o/c, hairline qz vnlts locally stockwork, cryptocrystalline Qz, fg PY to 3%, matrix is argillically altered

APPENDIX II
GEOCHEMICAL ANALYSES



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Plus Appendix Pages
Finalized Date: 25- JAN- 2019
Account: RYM

CERTIFICATE VA19006986

Project: Laidman Trout

This report is for 24 Rock samples submitted to our lab in Vancouver, BC, Canada on 10- JAN- 2019.

The following have access to data associated with this certificate:

GEOFF GOODALL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
DISP- 01	Disposal of all sample fractions
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS61	48 element four acid ICP- MS
Au- ICP22	Au 50g FA ICP- AES finish ICP- AES

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

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

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager



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Project: Laidman Trout

CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	Au- ICP22 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
T18LGG01		1.24	<0.001	0.26	6.74	2.3	1440	1.07	0.06	0.17	0.03	32.4	7.4	20	2.09	4.1
HC18GG5		1.30	<0.001	0.24	5.65	5.1	7570	0.65	0.04	0.01	0.02	31.2	1.0	18	2.28	10.1
HC18GG9		0.90	<0.001	1.92	5.99	7.3	3030	0.86	0.06	0.07	0.03	18.55	1.5	17	3.29	6.9
HC18GG10		1.28	<0.001	0.25	6.47	7.4	2870	0.74	<0.01	0.02	0.04	30.4	1.4	13	2.33	5.1



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CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
T18LGG01		2.11	10.95	0.14	2.4	0.028	4.39	22.1	10.8	0.33	213	1.67	2.14	4.3	2.2	330
HC18GG5		1.32	7.64	0.14	3.2	<0.005	5.53	18.2	15.5	0.01	116	3.92	0.11	4.7	0.7	270
HC18GG9		0.80	11.30	0.13	3.5	0.007	5.68	8.9	21.1	0.06	100	6.51	0.11	5.5	0.8	90
HC18GG10		1.12	11.45	0.14	3.5	0.011	5.28	19.2	5.6	0.02	88	2.64	0.12	6.0	0.8	140

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CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.01	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1

T18LGG01		5.3	115.5	<0.002	0.01	2.05	3.8	<1	0.8	82.1	0.37	<0.05	8.51	0.141	0.46	3.0
HC18GG5		12.8	109.5	<0.002	0.11	17.65	2.0	<1	0.6	91.0	0.38	<0.05	8.86	0.115	1.10	5.2
HC18GG9		231	126.0	<0.002	0.05	8.61	2.8	1	0.8	76.0	0.45	0.21	9.35	0.133	1.32	3.0
HC18GG10		16.7	110.5	<0.002	0.02	9.58	3.0	1	0.7	92.9	0.47	<0.05	9.88	0.143	1.24	4.4

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CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
T18LGG01		30	3.5	9.8	20	87.6
HC18GG5		6	4.3	13.6	27	142.0
HC18GG9		17	7.9	13.6	22	151.5
HC18GG10		10	14.6	16.1	20	155.5



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Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS VA19006986

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- ICP22	CRU- 31	CRU- QC	DISP- 01
LOG- 22	ME- MS61	PUL- 31	PUL- QC
SPL- 21	WEI- 21		



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QC CERTIFICATE VA19006986

Project: Laidman Trout

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The following have access to data associated with this certificate:

GEOFF GOODALL		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
DISP- 01	Disposal of all sample fractions
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES

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

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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QC CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	Au- ICP22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
STANDARDS															
EMOG- 17		68.0	4.68	591	260	1.77	5.56	1.94	19.60	46.5	760	58	6.90	8180	4.89
Target Range - Lower Bound		60.9	4.18	515	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound		74.5	5.13	629	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GPP- 14	0.920														
Target Range - Lower Bound	0.853														
Upper Bound	0.965														
JK- 17	1.975														
Target Range - Lower Bound	1.875														
Upper Bound	2.12														
OREAS 920		0.10	7.87	5.3	570	2.70	0.67	0.49	0.05	89.8	14.5	87	8.24	113.0	4.12
Target Range - Lower Bound		0.08	6.91	4.4	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72
Upper Bound		0.13	8.47	5.8	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56
OREAS- 218	0.529														
Target Range - Lower Bound	0.498														
Upper Bound	0.564														
BLANKS															
BLANK	<0.001														
Target Range - Lower Bound	<0.001														
Upper Bound	0.002														
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	<0.2	<0.01
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02
DUPLICATES															
ORIGINAL		0.10	6.78	0.8	130	0.95	0.10	6.27	0.09	31.1	47.1	54	0.94	264	10.90
DUP		0.09	6.69	0.8	130	0.95	0.10	6.21	0.08	32.4	49.5	55	0.97	259	10.75
Target Range - Lower Bound		0.08	6.39	0.6	110	0.85	0.09	5.92	0.06	30.2	45.8	51	0.86	252	10.25
Upper Bound		0.11	7.08	1.0	150	1.05	0.12	6.56	0.11	33.3	50.8	58	1.05	271	11.40



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QC CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
STANDARDS																
EMOG- 17		11.30	0.14	1.8	0.896	1.71	24.5	24.3	0.96	744	1085	1.11	14.9	7640	830	7440
Target Range - Lower Bound		10.75	0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570
Target Range - Upper Bound		13.25	0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030
GPP- 14																
Target Range - Lower Bound																
Target Range - Upper Bound																
JK- 17																
Target Range - Lower Bound																
Target Range - Upper Bound																
OREAS 920		19.55	0.17	4.6	0.083	3.02	46.2	29.5	1.35	604	0.42	0.66	18.4	39.8	770	25.1
Target Range - Lower Bound		18.65	0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4		20.7
Target Range - Upper Bound		22.9	0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2		26.4
OREAS- 218																
Target Range - Lower Bound																
Target Range - Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Target Range - Upper Bound																
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Target Range - Lower Bound		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Target Range - Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0
DUPLICATES																
ORIGINAL		19.35	0.10	4.2	0.091	0.58	13.1	43.5	3.51	1460	0.72	1.79	10.2	65.5	1010	1.8
DUP		20.3	0.13	4.2	0.098	0.58	13.1	48.3	3.48	1440	0.74	1.77	10.7	68.0	1010	1.9
Target Range - Lower Bound		18.80	0.06	3.9	0.085	0.54	11.9	43.4	3.31	1375	0.64	1.68	9.8	63.2	950	1.3
Target Range - Upper Bound		20.9	0.17	4.5	0.104	0.62	14.3	48.4	3.68	1530	0.82	1.88	11.1	70.3	1070	2.4



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QC CERTIFICATE OF ANALYSIS VA19006986

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
STANDARDS																
EMOG- 17		110.0	0.313	3.30	809	7.4	7	2.5	208	0.91	1.32	10.55	0.316	2.07	3.1	74
Target Range - Lower Bound		98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67
Upper Bound		121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84
GPP- 14																
Target Range - Lower Bound																
Upper Bound																
JK- 17																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		176.0	<0.002	0.03	1.42	13.3	<1	5.0	83.1	1.35	<0.05	18.60	0.483	0.83	3.5	100
Target Range - Lower Bound		158.5	<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.76	3.3	86
Upper Bound		193.5	0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.10	21.2	0.542	1.08	4.2	108
OREAS- 218																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2
DUPLICATES																
ORIGINAL		27.8	<0.002	0.01	0.11	32.6	1	1.4	282	0.63	<0.05	1.11	1.410	0.10	0.4	434
DUP		28.9	<0.002	0.01	0.11	34.2	1	1.4	278	0.64	<0.05	1.16	1.390	0.09	0.4	426
Target Range - Lower Bound		26.8	<0.002	<0.01	<0.05	31.6	<1	1.1	266	0.55	<0.05	1.07	1.325	0.07	0.3	408
Upper Bound		29.9	0.004	0.02	0.17	35.2	2	1.7	294	0.72	0.10	1.20	1.475	0.12	0.5	453



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		W ppm	Y ppm	Zn ppm	Zr ppm
STANDARDS					
EMOG- 17		3.9	16.1	7560	62.4
Target Range - Lower Bound		3.3	14.3	6800	55.6
Upper Bound		4.7	17.7	8320	76.4
GPP- 14					
Target Range - Lower Bound					
Upper Bound					
JK- 17					
Target Range - Lower Bound					
Upper Bound					
OREAS 920		3.1	32.5	120	164.0
Target Range - Lower Bound		2.5	29.8	102	128.0
Upper Bound		3.7	36.6	130	174.0
OREAS- 218					
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK					
Target Range - Lower Bound					
Upper Bound					
BLANK		<0.1	<0.1	<2	0.7
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5
Upper Bound		0.2	0.2	4	1.0
DUPLICATES					
ORIGINAL		0.2	28.9	102	157.0
DUP		0.2	29.5	101	163.0
Target Range - Lower Bound		<0.1	27.6	94	147.5
Upper Bound		0.3	30.8	109	172.5



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Project: Laidman Trout

QC CERTIFICATE OF ANALYSIS VA19006986

		Au- ICP22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61		
Sample Description	Method Analyte Units LOD	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
DUPLICATES																	
L1 8LE07		0.002															
DUP		0.001															
Target Range - Lower Bound		<0.001															
Upper Bound		0.002															
HC1 8GG10		<0.001															
DUP		<0.001															
Target Range - Lower Bound		<0.001															
Upper Bound		0.002															

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QC CERTIFICATE OF ANALYSIS	VA19006986
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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
L18LE07 DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
HC18GG10 DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOD	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.01	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1
L1 8LE07 DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
HC1 8GG10 DUP Target Range - Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
DUPLICATES					
L1 8LE07 DUP Target Range - Lower Bound Upper Bound					
HC1 8GG10 DUP Target Range - Lower Bound Upper Bound					



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QC CERTIFICATE OF ANALYSIS VA19006986

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- ICP22	CRU- 31	CRU- QC	DISP- 01
LOG- 22	ME- MS61	PUL- 31	PUL- QC
SPL- 21	WEI- 21		