



BC Geological Survey Assessment Report 38178



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)]: TECHNICAL - PROSPECTING

TOTAL COST: \$2660.20

AUTHOR(S): KEN ELLERBECK

SIGNATURE(S): 

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

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): EVENT 5728682 Nov. 19, 2018

PROPERTY NAME: RHYOLITE

CLAIM NAME(S) (on which the work was done): 1064406 RHYOLITE HOMFRAY

COMMODITIES SOUGHT: Au Ag Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISE147, 092ISE021

MINING DIVISION: KAMLOOPS

NTS/BCGS: BCGS Maps 0921047

LATITUDE: 50° 26' 54" LONGITUDE: 121° 41' 47" (at centre of work)

OWNER(S):

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST

KAMLOOPS, BC V2C 1G8

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

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST

KAMLOOPS, BC V2C 1G8

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

Volcanic Flow, Porphyritic Flow, Amygdaloidal Basalt, Amygdaloidal Andesite.

Upper Triassic Nicola Undefined. Propylitic, Oxidation. Straddles NW trending contact between two volcanic sequences.

Epidote, Chlorite, Carbonate, Hematite, Malachite, Chalcocite, Chalcopyrite Associated: Quartz, Carbonate

Fracturing/narrow shears in amygdaloidal andesite, epidote, carbonate. 4.27% Cu, 14.2 gpt Ag, N, NW structural trends

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

266, 7268, *8397, 14959, 15060, 17337, 18048, 36058, 28671

Next Page

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			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			\$2660.20
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:			\$2660.20

KEN ELLERBECK

(Owner & Operator)

TECHNICAL EXPLORATION REPORT

(Event #5728682)
on

PROSPECTING and EXPLORING

Work done on

Tenures 01064406

of the 1 Claim

RHYOLITE CLAIM GROUP

**Kamloops Mining Division
BCGS Maps 0921047**

**Centre of Work
UTM 10 663853E 5590950N**

AUTHOR KEN ELLERBECK, PMP

REPORT SUBMITTED February 8, 2019

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INTRODUCTION

PURPOSE

In November 2018 a prospecting program was completed on Tenure 1064406 of the 3 claim RHYOLITE CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. The author wanted to locate trenching conducted by a previous operator and sample bedrock in the vicinity of the trenching. Report information was obtained from Selected References and from a November 19, 2018 property examination.

ACCESS AND LOCATION

The property is located approximately 12 km. east of Logan Lake, BC and 40 km. south of Kamloops, BC.

Access is via Coquihalla Highway south from Kamloops, BC to Logan Lake highway, then south on the Surrey lake road for 1500 m. A network of gravel and dirt roads give access to most areas of the claims. Paved roads leading to the claims include the Coquihalla Highway and the Logan Lake-Kamloops highway that passes along the northern boundary of the property. The gravel Surrey Lake Road and Homfray Lake Roads provide access to the property. Old four-wheel drive logging roads provide additional foot access on the property.

PHYSIOGRAPHY

The property is located in the Interior Plateau of southern British Columbia. Topography is gentle to steep and elevation varies from 1240 to 1440 metres above sea level. Many creeks drain the project area and numerous swamps and meadows are found along the creeks. A number of Lakes are also located within the property boundary. Snowfall is moderate and water is available from the lakes, creeks and swamps. Vegetation consists of swamps, open grassy meadows and forest-covered areas. The forested areas vary from aspen and spruce to jack pine and fir. Logan Lake, Kamloops and Merritt, BC, all historic mining centers, are a source of experienced and reliable exploration and mining personnel and mining related equipment.

PROPERTY DESCRIPTION

RHYOLITE Claim Group

<u>Tenure Number</u>	<u>Type</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
1064406	Mineral	RHYOLITE HOMFRAY	20201231	411.488

Figure 1 LOCATION MAP from MTO Mapbuilder

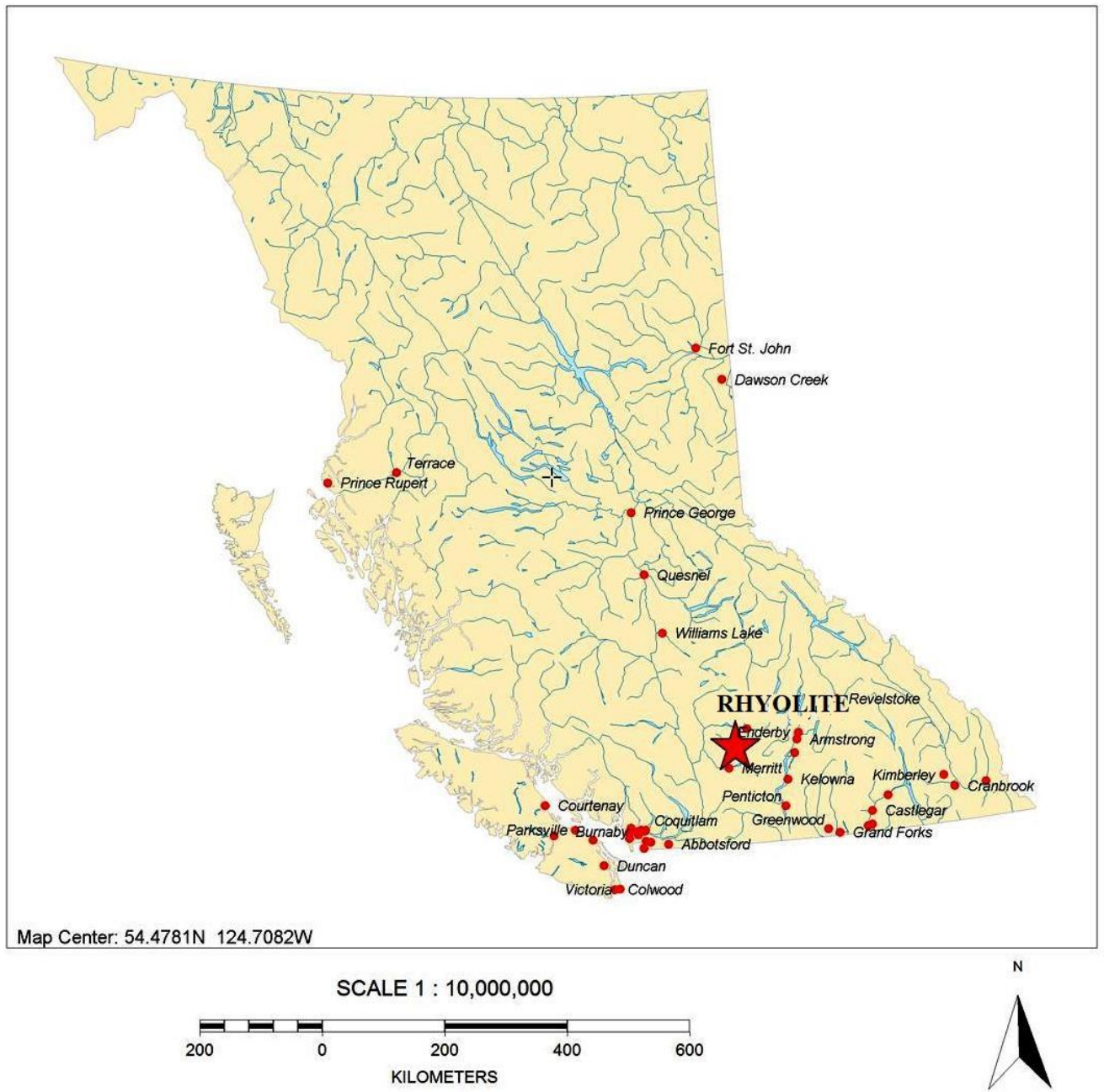


Figure 2 CLAIM LOCATION MAP (Base Map GOOGLE EARTH)

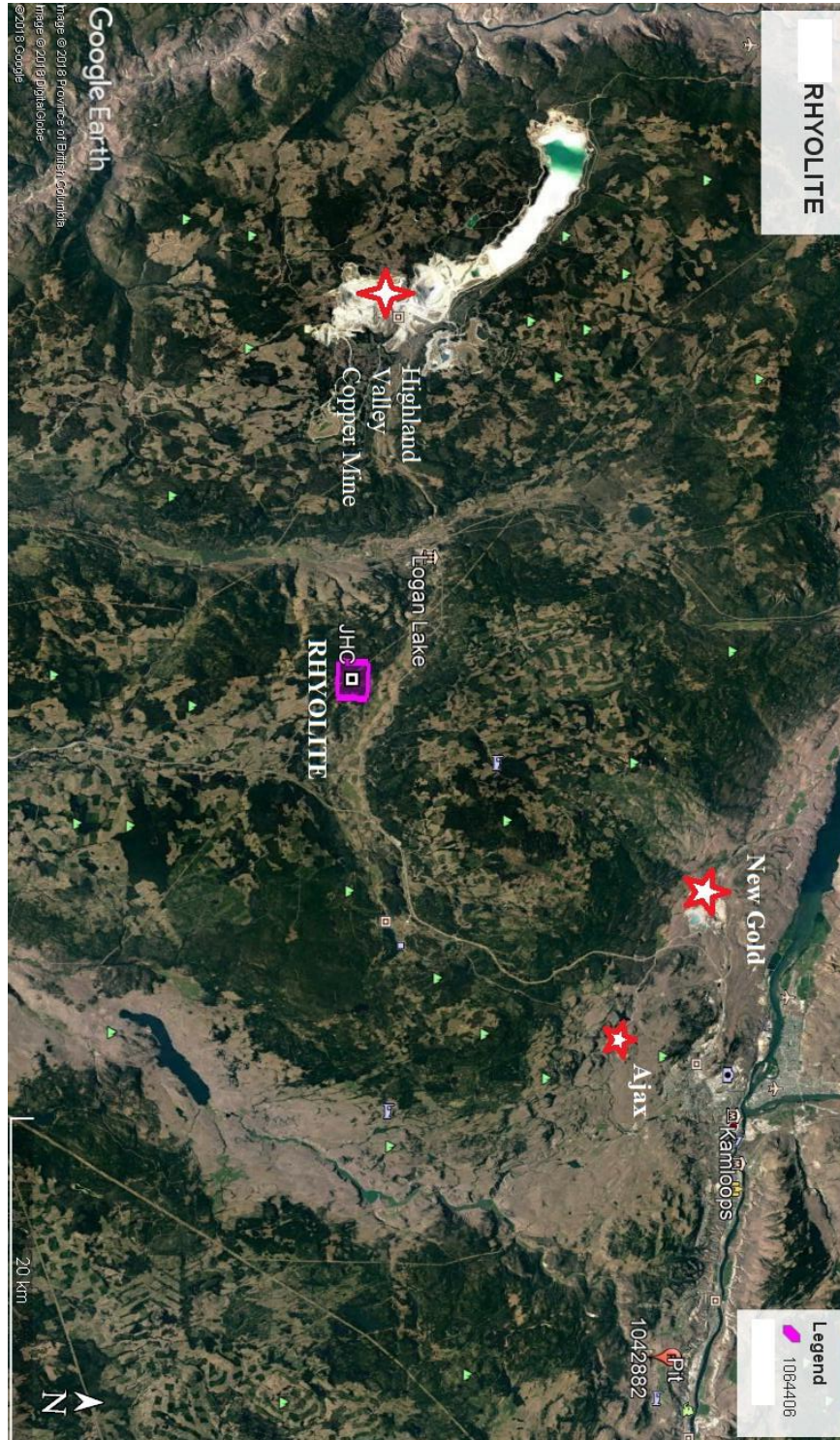
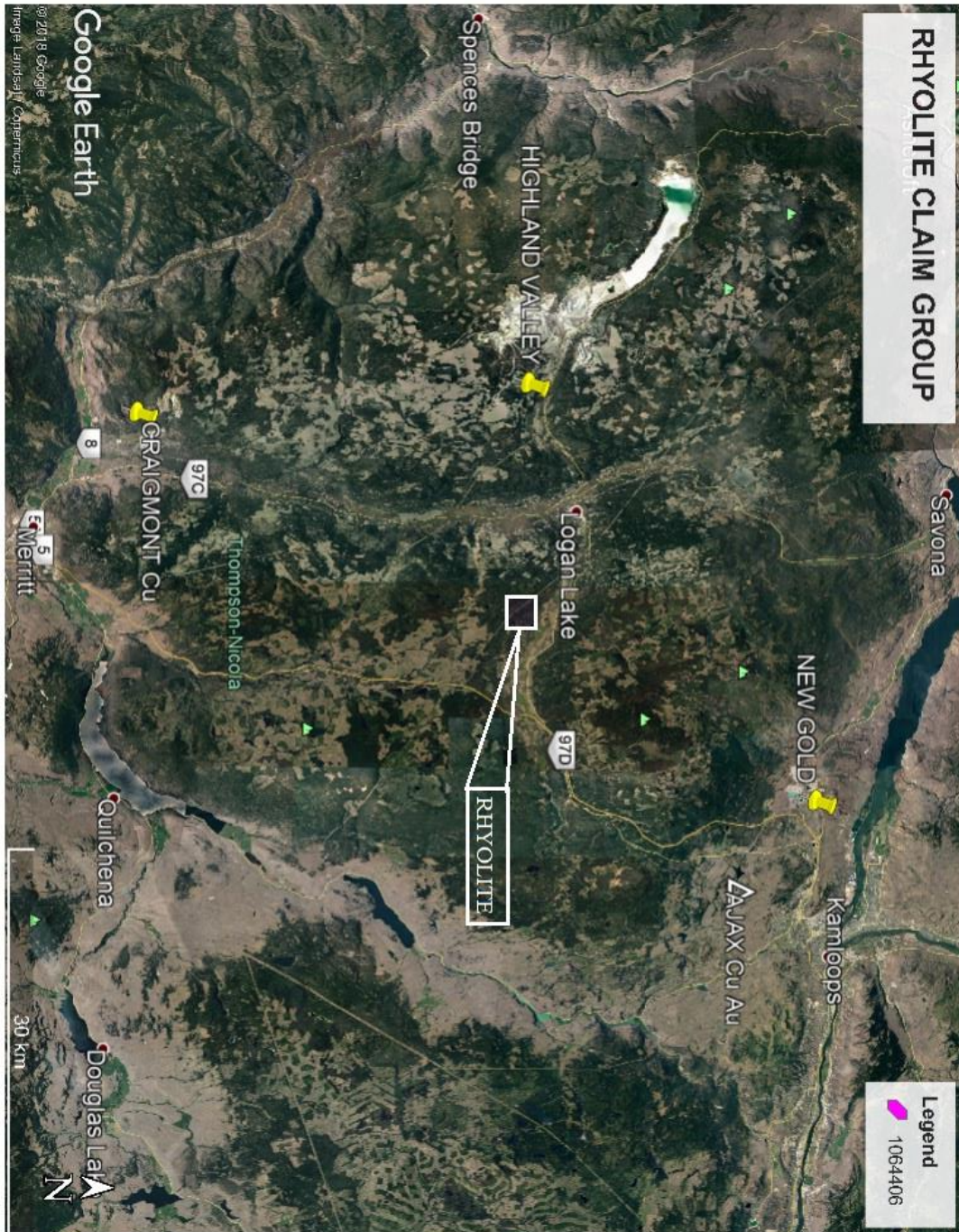
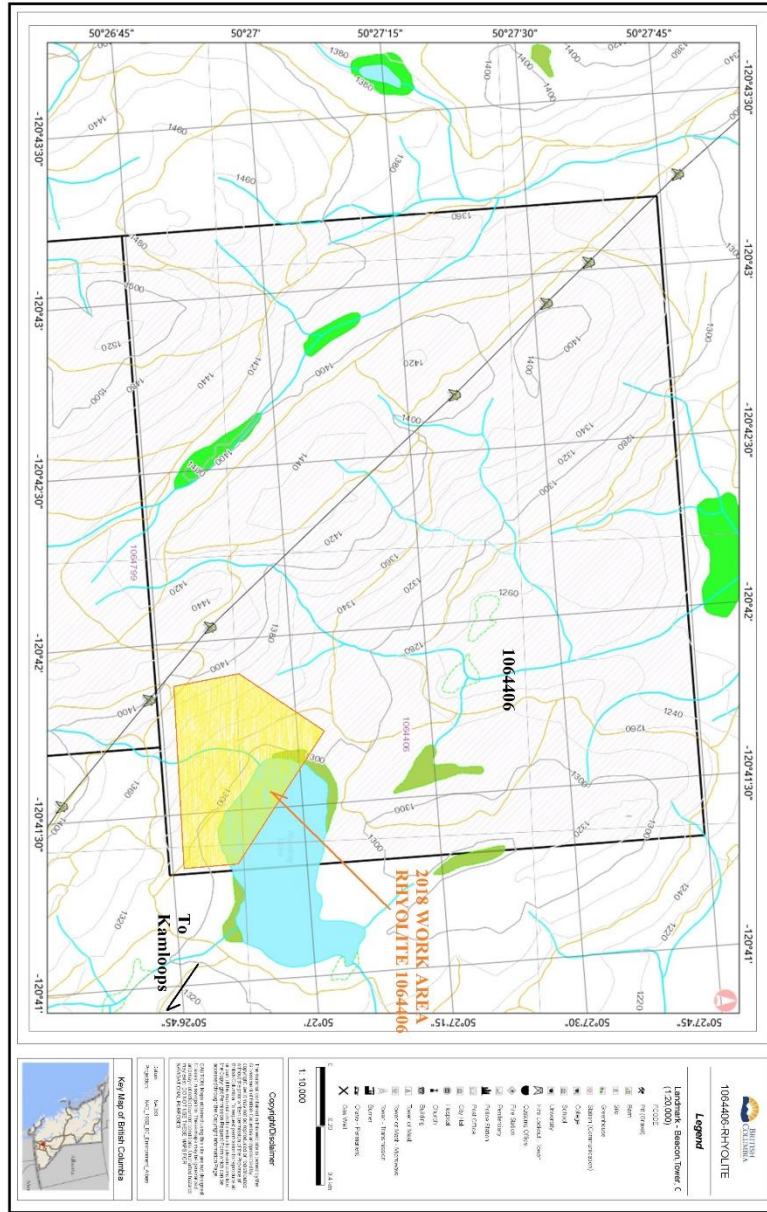


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)





HISTORY

Exploration by others on land in and near the current RHYOLITE Claim Group has been reported. Current tenures include the RHYOLITE and JHC showings and workings historically reported.

The RHYOLITE Project area is located in the Intermontane Belt of the Canadian Cordillera that is underlain by Triassic volcanic and sedimentary rocks of the Nicola Group. The Nicola Group is a complex combination of volcanic and sedimentary rocks. A variety of igneous rocks intrude the Nicola Group complex. The district is host to the Highland Valley copper mines, in Logan Lake (Teck-Cominco), the Afton and New Afton mine, in Kamloops (Teck-Cominco and New Gold) and the historic Craigmont mine, in Merritt (Placer Development).

Table 7. Summary of exploration history and exploration results

Year	Owner or Operator (Author of report)	Exploration results	References AR = Assessment Report Figure = Figure in this report
1958	Vanex Minerals Ltd. (McBeath)	Magnetometer Survey	AR 234
1959	Vanex Minerals Ltd. (Hill)	No significant anomalies. Road building in the Homfray Lake area	AR 266A
1959	Vanex Minerals Ltd.	Hole No. 1: The lower portion of the hole encountered a siliceous, altered grey-green rock with considerable pyrite. Hole No. 2: Altered volcanics were noted but no mineralization was reported	AR 18048 Figure 5
1978	Thunderbolt Resources Ltd.	Correlative magnetometer lows with VLF-EM anomalies possibly reflecting strong fault, shear zone or hydrothermal alteration	AR 7268 Figures 6 & 7
1980	Thunderbolt Resources Ltd.	Anomalous values in copper, zinc, and molybdenum	AR 8397 Figure 8
1986	Western Resource Technologies Inc.	Anomalous gold, silver, and arsenic. Future exploration should be concentrated on the precious metals	AR 14959 Figure 9-10
1987	Interpretex Resources Ltd.	No significant gold and silver anomalies over the two VLF-EM conductors tested	AR 16189 Figure 11
1988	Western Resource Technologies Inc	One weak gold geochemical anomaly and a number of copper and zinc geochemical anomalies.	AR 17337 Figure 12-13
1988	Western Resource Technologies Inc	A few scattered values of gold, silver and copper were anomalous over the 1987 copper-zinc geochemical anomaly. Target for massive sulphides	AR 18048 Figures 14-15
2005	Aurora Capital Inc.	The mineralization of silver, copper, and zinc and heavy pyrite associated with silicified andesite, rhyodacite and flow-pyroclastics at the Rhyolite showing is good indication for a prospective exploration target for stratabound mineralization	No AR
2006	Aurora Capital Inc.	The Rhyolite mineral showing of the Katrina property may be an indication of mineral seepage along the favorable structural zone of three intersecting structures from deep seated mineral zones.	AR 28671 Figure 16
2008	Aurora Capital Inc.	Rhyolite I zone of potential mineralization discovered	No AR Figures 17-19
2016	Delorme	Anomalous magnetometer low may indicate a cross-structural location	AR 35735 Figures 20-21

The RHYOLITE Claim Group was acquired by online staking by the Author and Current Owner on November 10, 2018. See Page 3 of this report for Tenure list.

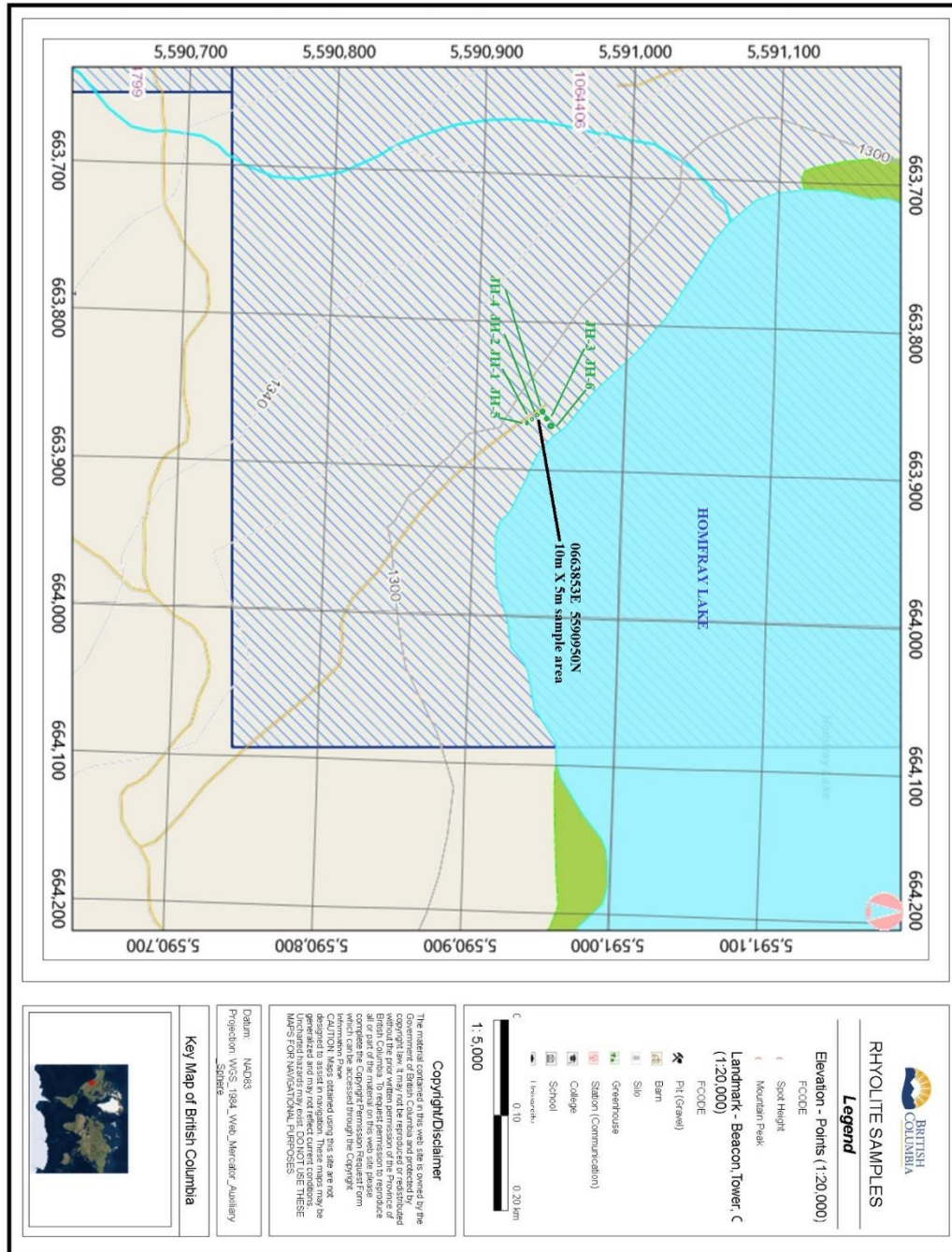
SUMMARY OF WORK DONE November 2018.

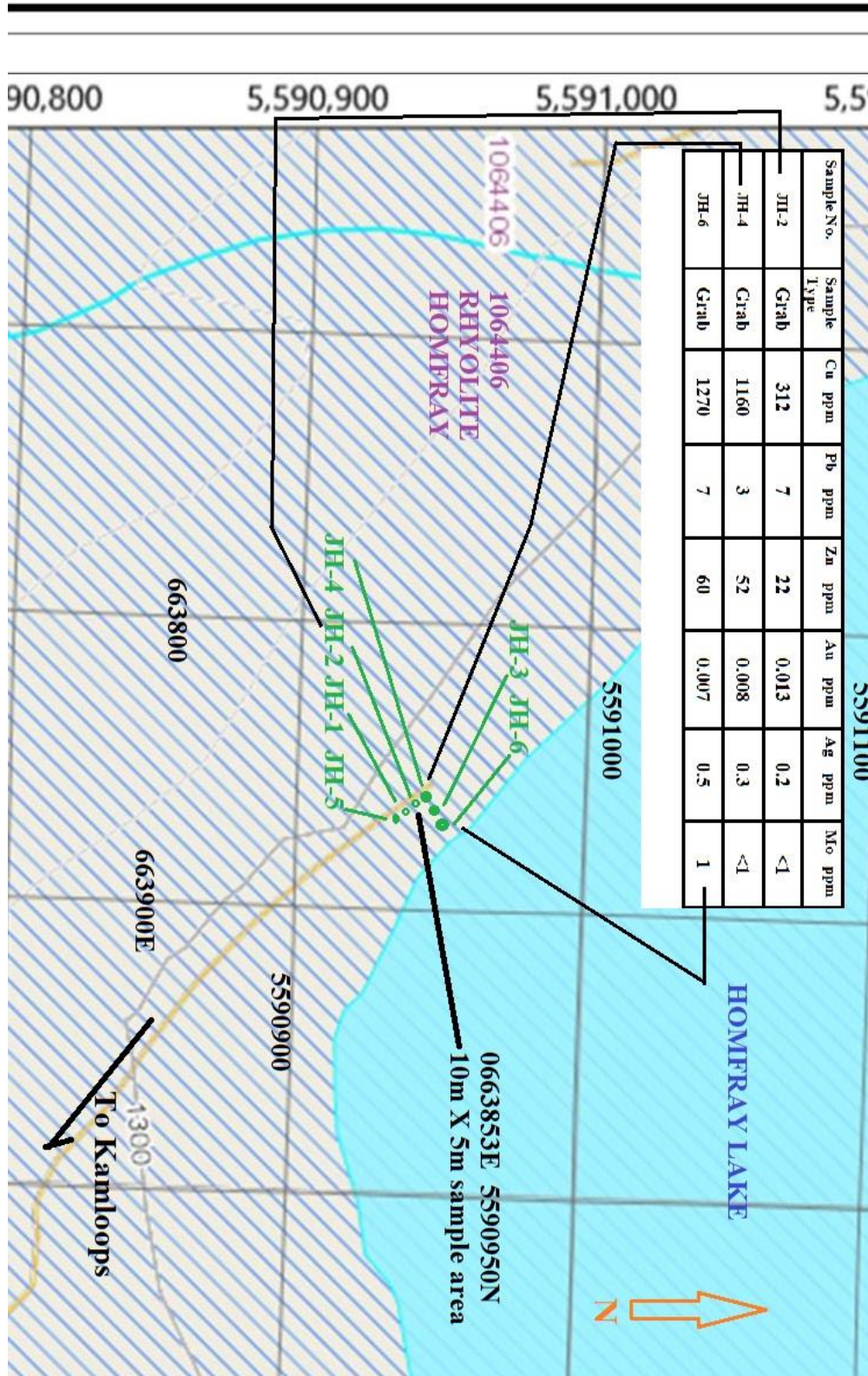
Prospecting was conducted on 1064406 on November 19, 2018. (Figure 4 Index - Work Areas). The focus of the work program was to locate historic trenching areas, sample outcropping, and to prospect for unrecorded showings and mineralization.

Six (6) rock grab samples were taken from outcrop and float and three (3) of those samples were assayed.

One (1) field day was spent on the claims, including prospecting and travelling to and from the property. One (1) day was spent researching reference material, one (1) day for database compilation and general research, and a further one (1) day was spent compiling data, drafting and writing this report.

Figure 5 Sample Location Area Map 1064406







November 19, 2018 WORK PROGRAM**Sampling Program**

The author was on the RHYOLITE Claim Group in November 2018 to select rock samples for verification of the reported mineralization and geology on the Property.

Six (6) rock grab samples were taken from Tenure 1064406 to check for reported mineralization within the claim group.

Three (3) grab samples were submitted for assay.

Table 1. Particulars of Grab Samples - ELLERBECK (2018) RHYOLITE

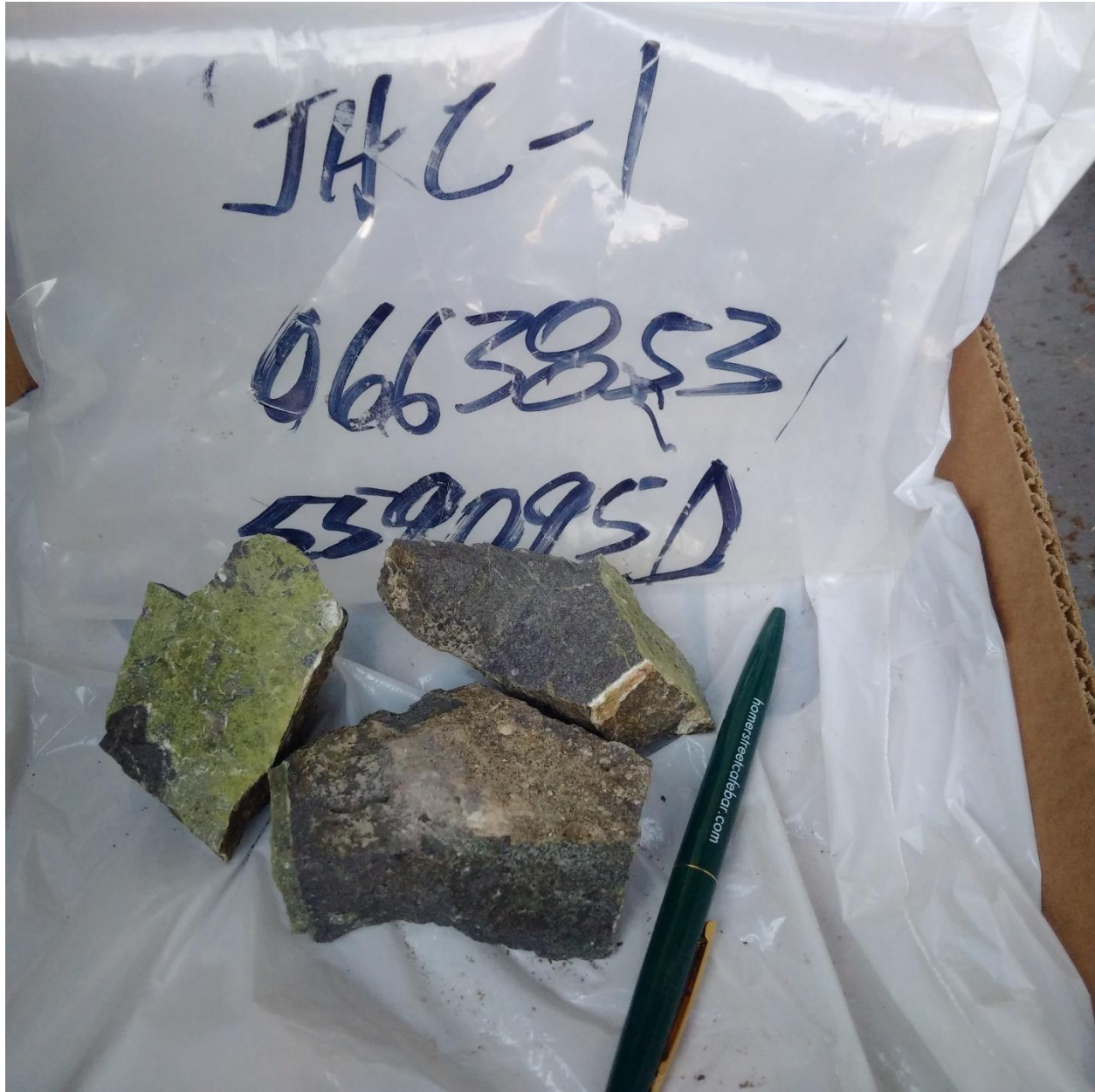
LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP (shear zone 70°) unless indicated
JH-1	0663853	5590950	From Shear zone 70°. Fine grained purple volcanics. Green veinlets (chlorite). No visible metal. Carbonate? Dip 75°W Strike N30E
JH-2 To Lab	0663853	5590950	Layered quartz – clear to cream coloured – contact with green/purple volcanics. Iron staining – iron veinlets between quartz layers. Dip 30°E Strike N30E
JH-3	0663853	5590950	Purple volcanics/andesite with white amygdaloidal with fracturing and veinlets/quartz. Dip30E. StrN30E
JH-4 To Lab	0663853	5590950	Shear zone. Purple volcanics/wall rock. Green veinlets (chlorite), no visible metal. Highly altered volcanics. Iron staining. Magnetite, hematite, pyrite? Malachite. Near vertical dip N30E strike
JH-5	0663853	5590950	Purple volcanics/andesite, quartz veinlets, No visible metal. Iron staining – magnetite, hematite? Dip30W
JH-6 To Lab	0663853	5590950	Float. Purple volcanics/andesite, white amygdaloidal with fracturing and narrow shears containing chlorite, epidote, carbonate, quartz veinlets, malachite and chalcopryrite. Visible metal. Magnetite? Galena

FIGURE 6 LOCATION AND TYPICAL ROCK PICTURES
LOCATION AND TYPICAL ROCK PICTURE from SAMPLE AREA

1 LOCATION AND TYPICAL ROCK PICTURE



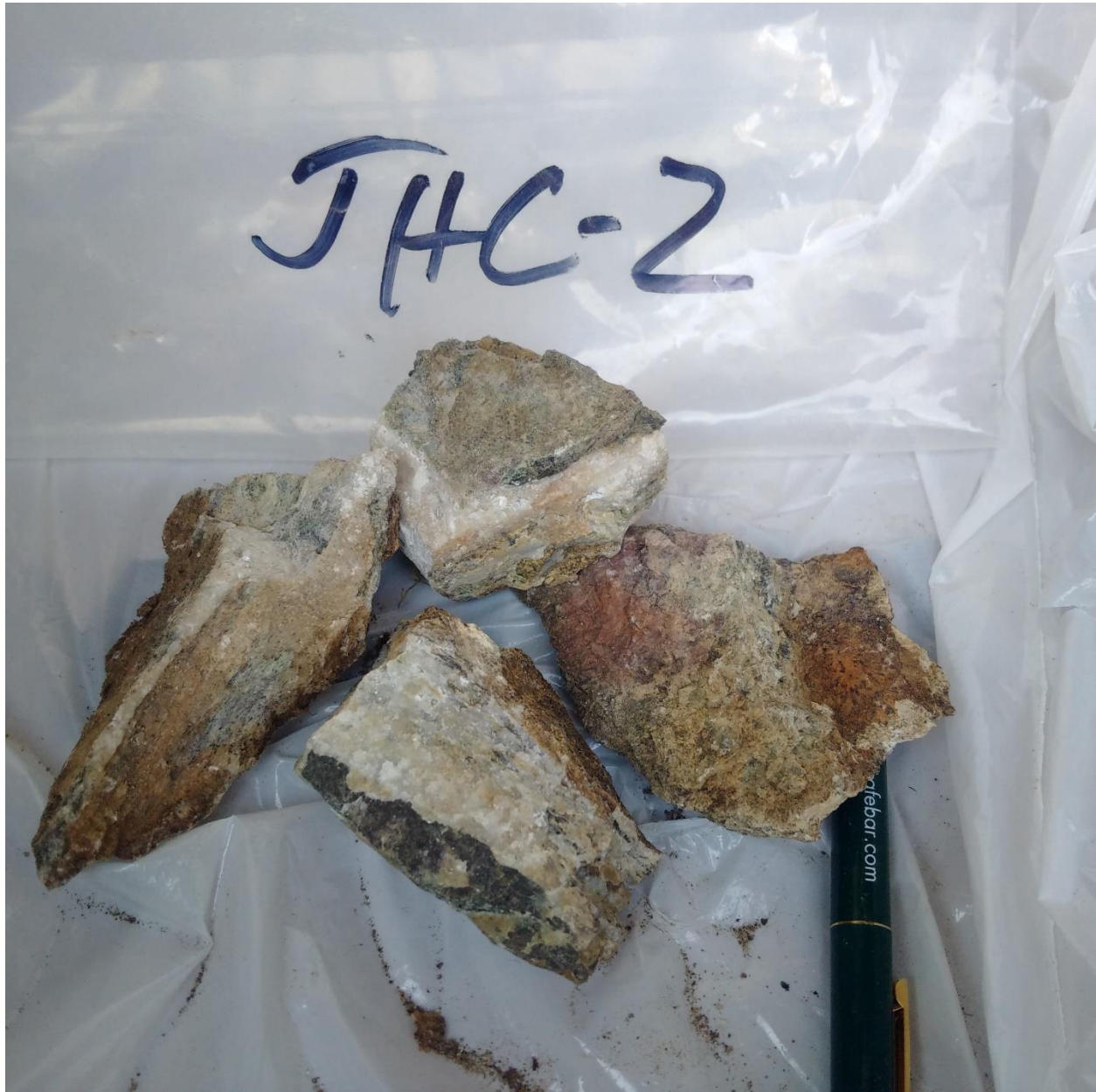
1 LOCATION AND TYPICAL ROCK PICTURE



2 LOCATION AND TYPICAL ROCK PICTURE to Lab



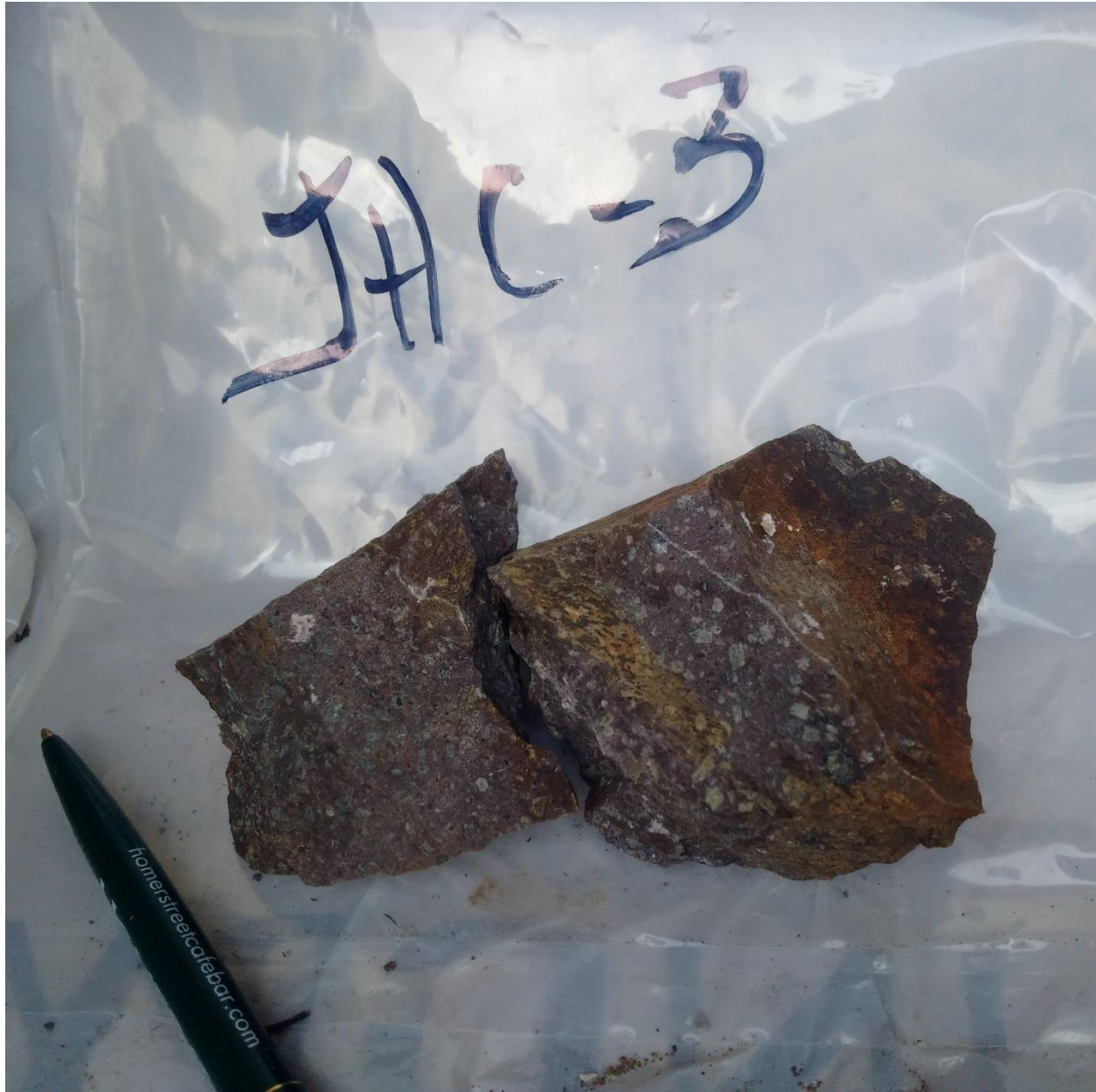
2 LOCATION AND TYPICAL ROCK PICTURE



3 LOCATION AND TYPICAL ROCK PICTURE



3 LOCATION AND TYPICAL ROCK PICTURE



4 LOCATION AND TYPICAL ROCK PICTURE to Lab



4 LOCATION AND TYPICAL ROCK PICTURE to Lab

Shear zone. Note contact between upper and lower (vertical) rocks



4 LOCATION AND TYPICAL ROCK PICTURE – TO LAB



5 LOCATION AND TYPICAL ROCK PICTURE



5 LOCATION AND TYPICAL ROCK PICTURE



6 LOCATION AND TYPICAL ROCK PICTURE to Lab



6 LOCATION AND TYPICAL ROCK PICTURE – TO LAB



SUMMARY OF REGIONAL AND PROPERTY GEOLOGY**REGIONAL GEOLOGY**

From AR 28671 Laurence Sookochoff PEng for Aurora Capital Corp. 2006

REGIONAL GEOLOGY

Regionally, the property is situated within the Quesnel Trough, a 30 to 60 km wide belt of Lower Mesozoic volcanic and related strata enclosed between older rocks and much invaded by batholiths and lesser intrusions (Campbell and Tipper, 1970). The southern part is the well-known Nicola belt, continuing nearly 200 km to its termination at the U.S. border. The Nicola belt is enveloped by the Guichon Creek Batholith, host to the major porphyry copper mines of the Highland Valley, to the west, the Wild Horse Batholith to the east, and the Iron Mask Batholith, host to the former Afton Mine, to the north northeast.

The Guichon Batholith is comprised of varying phases of intrusive with the ore-bodies of the Highland Valley not restricted to any one phase. The Bethlehem Copper JA deposit occurs in and adjacent to a quartz plagioclase aplite stock which intruded rocks of the Guichon variety and Bethlehem phase of the Guichon Creek Batholith. The largest deposit of the camp, the Valley Copper deposit, is entirely in quartz monzonite of the Bethsaida phase and is west of the Lornex fault. The Lornex and the Valley Copper ore-bodies in the Highland Valley are located at the low edge of an airborne magnetic high. The magnetic high traces the Highland Valley and the Lornex fault systems and clearly indicates the fault pattern of the system and the ore-bodies. Occurring within a magnetic low due to the supergene and dynamic related destruction of magnetite.

The ore-deposits of the Highland Valley are structurally controlled. Movements on the Lornex and Highland Valley faults occurred simultaneously and alternatively in the final phases of intrusion of the Guichon Batholith. The fault planes provided the openings for the admission and deposition of mineral and igneous matter. In the vicinity of Afton, the Iron Mask district is part of a major structure extending northwestward across the general northerly trend of the Nicola belt. This cross structure is less than 10 km wide and about 35 km long. To the northwest, the structure is largely obscured by later stratified rocks of an adjoining basin. To the southeast, it contains two related plutons formerly believed to be a single connected body named the Iron Mask batholith. The Afton deposit lies on the northwestern edge of the Iron Mask Batholith, an area which is known to be the locus of much faulting. The area of the deposit, and especially the western half, is strongly faulted.

The Iron Mask Batholith lies lengthwise in a major cross structure of the Quesnel Trough and is emplaced in contemporaneous volcanic rocks of the Upper Triassic Nicola Group. Control of the cross-structure by long-active, deep-seated faults is evidenced by the manner of emplacement of plutons and by the development of adjacent sedimentary and volcanic basins of Eocene or possibly much earlier age. Hypogene alteration has no recognized pattern and it includes potassic, saussuritic and phyllic varieties. Supergene alteration is characterized by rock disintegration and abundant earthy hematite with limonite. Faults, although numerous, mostly defy correlation and cause only minor disruption of the deposit. However, the western end of the deposit is terminated by a fault.

Geochemical and geophysical surveys fail to distinguish the orebody clearly from widespread subeconomic mineralization.

The Batholith comprises successively emplaced Units, all apparently of late Triassic age and

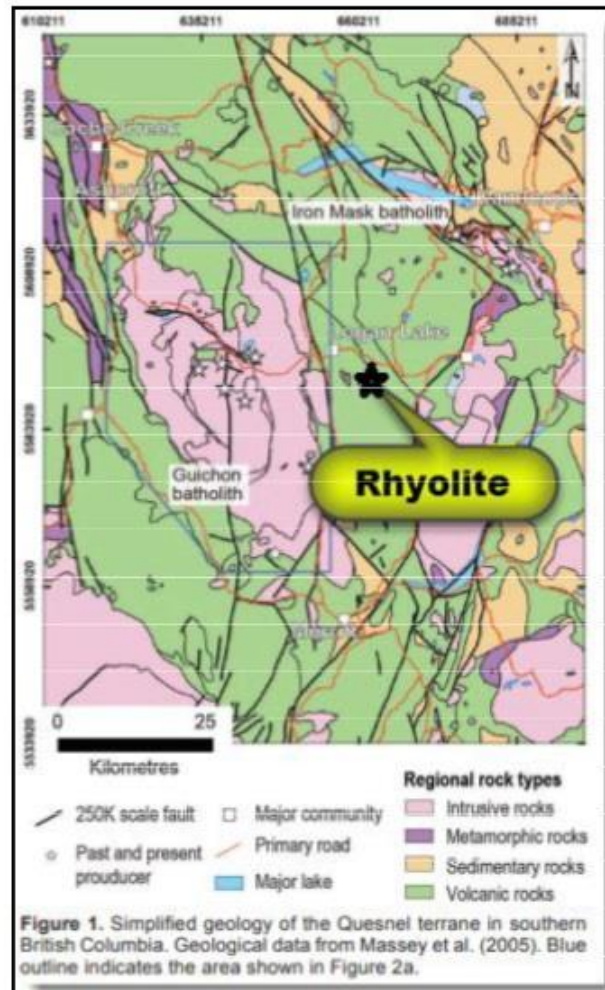
ranging in composition from basic to moderately alkalic. The Iron Mask and Pothook units are the oldest on geological evidence and consist chiefly of diorite and gabbro. Succeeding units of finer-grained, more porphyritic rocks are emplaced mainly along northwestern and western linear structure that frame and dissect the pluton. Thus, picrite basalt forms steep, lenticular bodies that are poorly exposed, commonly possess sheared, serpentized margins, and are generally found within 300 m of most prospects in the district.

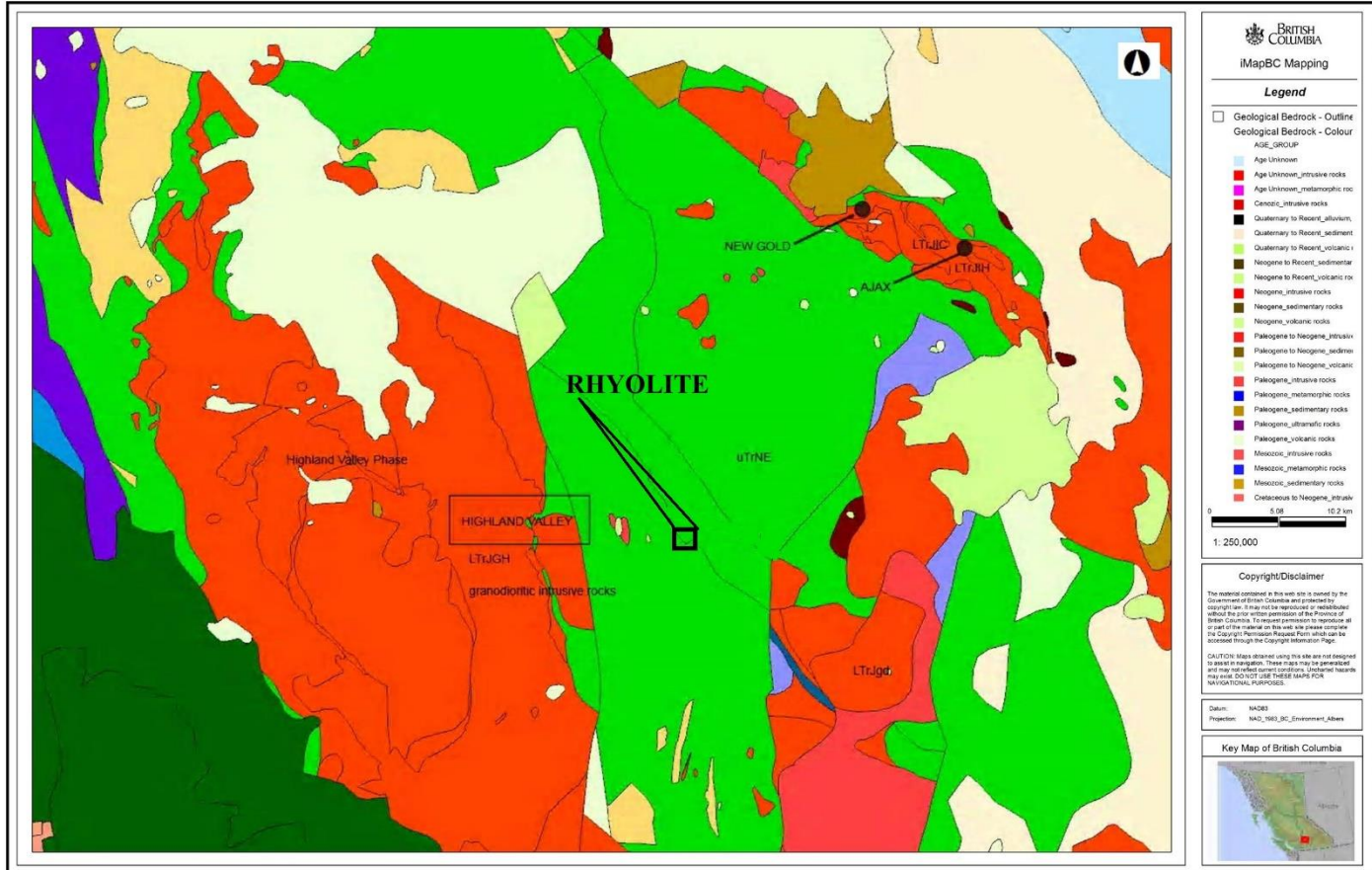
The Afton ore-body lies apparently at the intersection of structures considered to reflect deep seated faults that were active intermittently from the late Triassic (Carr, 1976).

The Afton ore-body occurs in late-phase plutonic rocks which include latite porphyry and related breccias and is at the northwestern extremity of the Iron Mask Batholith. The ore-body occupies the northwestern tip of a zone of abundant magnetite veining developed along the longitudinal axis of the Iron Mask Batholith. An extensive pyrite halo lies south and west of the Afton orezone, overlapping slightly onto its southwestern sector.

Figure 7 RHYOLITE CLAIM GROUP Regional Geology

Figure 22 Regional Geology: Quesnel Terranes
(Base map from Britton, 2016)





LOCAL GEOLOGY

From AR 28671 Laurence Sookochoff PEng for Aurora Capital Corp. 2006

LOCAL GEOLOGY

Crooker (1988) reports that the WRT claims (includes the present Katrina claim ground) is underlain by Upper Triassic Nicola volcanics and derivatives. Small sills or dykes of feldspar porphyry are found at the junction of Meadow Creek and its fork from Desmond Lake. Smaller alteration zones, possibly along faults, consist of quartz mariposite carbonate zones, mariposite schists and chlorite mica schists. Small bodies of rhyolite occur within a volcanoclastic unit near Homfray Lake. In the western half of the property, the rocks are generally purplish amygdaloidal volcanics with intercalated reddish tuffs. Chloritic alteration is common along fractures.

The Katrina claim is indicated to be entirely underlain by the Nicola volcanic rocks with reported geology of the showings as follows:

Rhyolite Showing

The Rhyolite Showing occurs near a flow-pyroclastic contact within Nicola volcanic rocks. Crooker (1988) reports that the Rhyolite Showing area is mainly underlain by a grey, green or black amygdaloidal basalt (unit 1). Varicoloured calcite amygdules ranging from 1 to 6 mm in diameter occur within an aphanitic groundmass. Several beds of maroon to green volcanoclastic breccia (unit 2) occur within the basalt. Maroon, subrounded to subangular clasts ranging up to

30 cm long by 15 cm wide occur within an aphanitic groundmass. Two northwest trending felsic dykes (unit 3) occur along the main road. The dykes appear to be 3 to 4 meters wide, and are light grey-green, aphanitic and siliceous. Pyrite content varying from 1/2 to 5% occurs within the felsic dyke.

Vanex reported that "During the 1985 exploration program a showing of "rhyolite" with up to 5% pyrite was found along the main road. A sample taken from the outcrop assayed 0.78 Oz/ton Ag, 1.76% Cu and 1.52% zinc. Outcrop is generally sparse over the eastern section of the grid although several old trenches were found in the immediate vicinity of the showing. Weakly silicified andesite and rhyodacite were exposed in the trenches with up to 5% pyrite. Sample 87-005 gave weakly anomalous values of 5.5 ppm Ag and 55 ppb Au. A sample of float (87-008) taken approximately 75 meters north of 87-005 gave 6.2 ppm Ag, 28 ppb Au, 2740 ppm Cu and 6289 ppm Zn. Sample 87-008 was silicified, containing many tiny quartz veinlets. The proximity of these showings to the flow-pyroclastic contact makes the area a good target for stratabound massive sulphide mineralization."

JHC Showing

Vanex Minerals Ltd. acquired claims covering the JHC showing in 1958. They conducted magnetic surveys and physical work under the direction of Hill, Stark and Associates, Consulting Engineers. In 1959 Vanex drilled two holes in the JHC Showing area:

Hole No. 1

This hole was located approximately 3000 feet north of Homfray Lake and was drilled vertically to a depth of 358 feet to test a magnetic high. The lower portion of the hole encountered a silicious, altered grey-green rock with considerable pyrite. No assays were reported but the recommendation.

Hole No. 2

This hole was located on the west shore of Homfray Lake and was drilled at minus 45 degrees to a depth of at least 293 feet. Altered volcanics were noted but no mineralization was reported and no reason was given for drilling the hole.

1985- 1988 - Western Resources Technologies Inc. completed geological, geochemical and geophysical surveys on the WRT group which presently incorporates the Katrina mineral and the Rhyolite and JHC mineral showings (Figure 8.).

Exploration work completed by Western Resources Technologies Inc. on the Katrina claim ground was reported as follows:

On the Rhyolite mineral showing, investigation of a 1987 copper-zinc geochemical anomaly indicated a northwest trending zone of shearing with quartz and carbonate veinlets. Sampling of the zone gave weakly anomalous values of gold, silver, copper and zinc. The flow-pyroclastic contact at the Rhyolite Grid reportedly remains a target for massive sulphide mineralization. As the zone is poorly exposed and of unknown dimensions, several trenches were recommended to be cut across the zone to thoroughly evaluate it. (Crooker, 1988).

Figure 8 RHYOLITE CLAIM GROUP Local Geology

Figure 24 Property Geology, Claims, and Minfiles
(Base map from MapPlace)



LEGEND

- | | |
|---|---|
| <p>Mivb
Miocene-unnamed
Basaltic volcanic rocks</p> <p>EKav
Eocene-Kamloops Group
Undivided volcanic rocks</p> <p>EPrb
Eocene-Penticton Group
Andesitic volcanic rocks</p> <p>Upper Triassic-Nicola Group</p> <p>uTrNW
Western Volcanic Facies
undivided volcanic rocks</p> <p>uTrNC
Central Volcanic Facies
andesitic volcanic rocks</p> | <p>uTrNE
Eastern Volcanic Facies
basaltic volcanic rocks</p> <p>uTrN
undivided volcanic rocks</p> <p>Late Triassic to Early Jurassic
Guichon Creek Batholith</p> <p>LTrJGBe – Bethlehem Phase
granodioritic intrusive rocks</p> <p>LTrJGB – Bethsaida Phase
quartz monzonitic intrusive rocks</p> <p>LTrJGH – Highland Valley Phase
granodioritic intrusive rocks</p> <p>LTrJGG – Gump Lake Phase
granodioritic intrusive rocks</p> <p>LTrJGBo – Border Phase
quartz dioritic intrusive rocks</p> |
|---|---|

SUMMARY OF REGIONAL AND PROPERTY GEOLOGY (.....continued)

Prospecting on the RHYOLITE Claim Group in in the JHC area in November 2018 confirmed the presence of rock types and mineralization historically reported.

The alteration zone that contains the Au-Ag mineralization at the JHC showing (exposed over a strike length of about 10 metres).

The Author did not locate all the historic JHC showings or the RHYOLITE showing/trenches referred to in historic reports but sampled outcrops from one trench area at the JHC area.

Elevated levels of Cu, Zn were found in all Samples JH-2, JH-4, JH-6.

Elevated levels of Au, Ag values were encountered in Samples JH-2, JH-4, JH-6.

Table I. Particulars - Grab Samples taken by ELLERBECK (2018) RHYOLITE

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP (shear zone 70°) unless indicated
JH-1	0663853	5590950	From Shear zone 70°. Fine grained purple volcanics. Green veinlets (chlorite). No visible metal. Carbonate? Dip 75°W Strike N30E
JH-2 To Lab	0663853	5590950	Layered quartz – clear to cream coloured – contact with green/purple volcanics. Iron staining – iron veinlets between quartz layers. Dip 30°E Strike N30E
JH-3	0663853	5590950	Purple volcanics/andesite with white amygdaloidal with fracturing and veinlets/quartz. Dip30E. StrN30E
JH-4 To Lab	0663853	5590950	Shear zone. Purple volcanics/wall rock. Green veinlets (chlorite), no visible metal. Highly altered volcanics. Iron staining. Magnetite, hematite, pyrite? Malachite. Near vertical dip N30E strike
JH-5	0663853	5590950	Purple volcanics/andesite, quartz veinlets, No visible metal. Iron staining – magnetite, hematite? Dip30W
JH-6 To Lab	0663853	5590950	Float. Purple volcanics/andesite, white amygdaloidal with fracturing and narrow shears containing chlorite, epidote, carbonate, quartz veinlets, malachite and chalcopryrite. Visible metal. Magnetite? Galena

TECHNICAL DATA AND INTERPRETATION
Table II. Summarized Assay Results- Grab Samples-Ellerbeck (November 2018) – RHYOLITE

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm
JH-2	Grab	312	7	22	0.013	0.2	<1
JH-4	Grab	1160	3	52	0.008	0.3	<1
JH-6	Grab	1270	7	60	0.007	0.5	1

PURPOSE

In November 2018 a prospecting program was completed on Tenure 1064406 of the 3 claim RHYOLITE CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. The author wanted to locate trenching conducted by a previous operator and sample bedrock in the vicinity of the trenching. Report information was obtained from Selected References and from a November 19, 2018 property examination.

PROSPECTING RESULTS - Outcrops

Sample 1-6 inclusive: confirmed historic local/property and regional geological mapping.

ASSAY RESULTS

Elevated levels of Cu, Zn were found in all Samples JH-2, JH-4, JH-6.

Elevated levels of Au, Ag values were encountered in Samples JH-2, JH-4, JH-6.

INTERPRETATIONS AND CONCLUSIONS

The presence of mineralization in historic ARIS assessment report references within the RHYOLITE Claim Group was confirmed by sampling and assaying rocks from various outcroppings at the JHC showing during the November 2018 prospecting program on Tenure 1064406.

This mineralization is similar to the previously reported mineralization located in old trenches at the JHC showing within the RHYOLITE Claim Group.

SUMMARY AND RECOMMENDATIONS

The November 2018 field program confirmed reported geology and showed that significant mineralization is present in the host Nicola Group rocks within the RHYOLITE property.

There are numerous reported mineral occurrences within the RHYOLITE property which have not been examined by the writer.

There is detailed geological mapping of the area by previous Operators which needs relocating in the field and mapped with current mapping methods.

Based on the results of research and compilation of historical exploration data on ground presently covered by the Rhyolite property, potential copper-gold porphyritic mineralization may be indicated at the JHC area from:

- surficial mineralization of up to 4.2 % copper and, a few scattered anomalous gold, silver, and copper values;
- sub surface mineralization and alteration in a drill hole with the lower portion of considerable pyrite in a siliceous, altered grey-green rock.

In the Rhyolite area (not examined at this time), stratabound massive sulphide mineralization may be indicated based on;

- surficial pyrite concentrations of up to 20%, with minor chalcopyrite, azurite, malachite and sphalerite and anomalous gold (41 ppb), silver (4.1 ppm), copper (3770 ppm) and zinc (2183 ppm) values.

An exploration program of geochemical, geophysical, and geological surveys is recommended subsequent to the digitation of all historical exploration data. A correlation of historical data and the results of the recommended exploration program should provide specific targets for future exploration.

The 2018 field program assay results and the noted similarities of mineralization and host rocks to historic references indicate that a careful examination of the area at the RHYOLITE and JHC showings is warranted.

Therefore, it is recommended by the Author that a comprehensive prospecting plan be created and executed in the field as soon as practical to confirm and map the extent of the RHYOLITE and JHC showings and the area between those showings.

ITEMIZED COST STATEMENT

Exploration Work type	RHYOLITE	Days			Totals
PROSPECTING & EXPLORATION					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Ken Ellerbeck / Owner	November 19, 2018	1	\$500.00	\$500.00	
Q. Ellerbeck / Helper	November 19, 2018	1	\$250.00	\$250.00	
			\$500.00	\$0.00	
			\$250.00	\$0.00	
			\$500.00	\$0.00	
			\$250.00	\$0.00	
				\$750.00	\$750.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Database compilation	Ken Ellerbeck	0.5	\$500.00	\$250.00	
General research	Ken Ellerbeck	0.5	\$500.00	\$250.00	
Report preparation	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Other (specify)				\$0.00	
				\$1,500.00	\$1,500.00
Ground Exploration Surveys	Area in Hectares/List Personnel				
Prospect	see Personnel Field Days				
Underground					
Trenches				\$0.00	\$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Soil	ALS MINERALS Vancouver	0.0	\$49.46	\$0.00	
Rock	ALS MINERALS Vancouver	3.0	\$48.00	\$144.00	
				\$144.00	\$144.00
Transportation		No.	Rate	Subtotal	
KM Kamloops-Property-return	1 DAY RETURN	145.00	\$0.95	\$137.75	
KM SAMPLES TO LAB	January 30, 2019	51.00	\$0.95	\$48.45	
				\$0.00	
				\$186.20	\$186.20
Accommodation & Food	Rates per day				
Hotel			\$0.00	\$0.00	
Camp			\$0.00	\$0.00	
Meals	2 man-days @\$40/day	2.00	\$40.00	\$80.00	
				\$80.00	\$80.00
Miscellaneous					
Telephone			\$0.00	\$0.00	
Other (Specify)				\$0.00	
				\$0.00	\$0.00
Equipment Rentals					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)				\$0.00	
				\$0.00	\$0.00
Freight, rock samples					
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$0.00	\$0.00
TOTAL Expenditures					\$2,660.20

STATEMENT OF AUTHOR'S QUALIFICATIONS

STATEMENT OF AUTHOR'S QUALIFICATIONS**KENNETH C. ELLERBECK, PMP**

I hold a BSc in Mechanical Engineering, University of Alberta, Edmonton, 1973.

I have completed University level introductory geology courses.

I hold a Certificate in Project Management from University of British Columbia, Sauder School of Business, 2010.

I hold a Project Management Professional designation – PMP – 1391810 – 2011.

I have been actively involved in all aspects of mineral exploration since 1980 in the Province of British Columbia.

I have managed staking and exploration programs since 1980 on my own mineral tenures as well as for tenures held by both private and publicly-held junior exploration companies.

My mineral exploration experience includes staking, prospecting, trenching, trench mapping, line cutting and grid construction, geochemical surveys, geophysical surveys, diamond drilling supervision and general exploration program supervision.

SIGNED



KENNETH C. ELLERBECK

LIST OF SELECTED REFERENCES

BC Geological Survey, MEMPR, MINFILE : 092ISE147 JHC. 092ISE021 RHYOLITE.

British Columbia Survey Branch, The Map Place.

MTOonline

Map 886 A, Nicola, (Geol.) Sc. Accomp. Memoir 249, Geol. Survey of Canada (1948).

Cochrane, D.R. et al – Geophysical Report on an Induced Polarization Survey of the PLUG Claims on behalf of Texada Mines Ltd. October 24, 1972. AR 4,041.

Crooker, G.F. PGeo., January 2007, GEOLOGICAL, GEOCHEMICAL AND PROSPECTING REPORT, on the PLUG, PLUG-A, PLUG 1-31, PLUG 11-A, MEADOW, MEADOW-A, WALL 2, 5-7 AND 9 MINERAL CLAIMS, for GOLDCLIFF RESOURCE CORPORATION, AR28815.

Crooker, G.F. – Geological, Geochemical and Geophysical Report on the WRT 1 to 6 and 9 to 15 Claims for Western Resource Technologies Inc. November, 1988. AR 18,048.

Crooker, G.F. – Geological, Geochemical and Geophysical Report on the WRT 1 to 15 Claims for Western Resource Technologies Inc. March, 1998. AR 17,337

Cukor, V. Report on Geochemical, Geophysical and Geological Reconnaissance for Visa Resources Ltd. May, 1982. AR 10,551. Report on Ground Magnetic Survey for Visa Resources Ltd. June, 1983. AR 11,296.

DeLeen, J. et al – Magnetometer and Geochemical Report on the PLUGS Claims on behalf of Texada Mines Ltd. December 8, 1972. AR 4,041.

Sookchohoff, L. P.Eng – Geophysical Assessment Report on the SED Mineral Claim for Balto Resources Ltd. June 25, 2012. AR 33,127.

Sookchohoff, L., P. Eng., June 5, 2013, GEOPHYSICAL ASSESSMENT REPORT, BALTO RESOURCES LTD., SED MINERAL CLAIM, AR33849.

Sookchohoff, L.P. PEng for Aurora Capital Corp. 2006, Katrina Claim, AR 28671

LIST OF SOFTWARE PROGRAMS USED

ADOBE PHOTOSHOP 7.0

PAINT for WINDOWS

ARIS MAPBUILDER – Map Data downloads

Imap BC – Map Data downloads

MtOnline - MINFILE downloads.

APPENDIX 1 SAMPLE PREPARATION AND METHOD OF ANALYSIS



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To: KEN ELLERBECK
 255 WEST BATTLE STREET
 KAMLOOOPS BC V2C 1G8

Page: 1
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2019
 Account: ELLERK


CERTIFICATE KL19023192

This report is for 9 Rock samples submitted to our lab in Kamloops, BC, Canada on 29-JAN-2019.
 The following have access to data associated with this certificate:
 KEN ELLERBECK

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOC- 22	Sample Login - Rcd w/o BarCode
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	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- AA23	Au 30g FA- AA Finish	AAS

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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CERTIFICATE OF ANALYSIS KLI9023192

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.	PUL-31
	CRU-31	LOC-22
	PUL-QC	WER-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	AU-AA23	ME-ICP41

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APPENDIX 2 ASSAY RESULTS



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CERTIFICATE OF ANALYSIS K119023192

Sample Description	Method Analyte Units LOD	VB-21 Revised % 0.02	Au-A423 Au ppm 0.005	ME-ICP41 As ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
Six-1	0.54	<0.005	<0.2	2.66	10	480	0.7	<2	4.05	<0.5	24	67	88	5.31		
Six-4	0.45	<0.005	<0.2	3.04	10	380	<0.5	<2	4.78	<0.5	33	33	156	75	5.81	
Six-5	1.21	0.940	23.1	0.20	244	130	<0.5	4	9.9	48.3	16	9	458	5.18		
JH-2	0.52	0.013	0.2	0.40	<2	470	<0.5	<2	19.4	1.3	5	4	312	1.23		
JH-4	0.71	0.008	0.3	0.61	3	230	<0.5	<2	7.5	0.5	19	9	1160	4.19		
JH-6	0.39	0.007	0.5	0.65	7	720	<0.5	3	7.38	0.6	20	12	1270	5.44		
BS-1	0.53	0.008	0.4	0.68	3	1000	0.7	<2	5.65	<0.5	9	45	66	1.89		
BS-5	0.79	0.006	<0.2	3.09	7	60	0.7	2	3.13	<0.5	16	23	216	3.89		
BS-7	1.05	<0.005	<0.2	1.48	4	130	<0.5	2	0.96	<0.5	11	5	60	3.14		

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



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CERTIFICATE OF ANALYSIS KLI9023192

Sample Description	Method Analyte Units LOD	ME-ICP41 Ca ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Hg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Se ppm	ME-ICP41 Sr ppm
SX-1	10	1	0.16	0.10	10	3.00	1050	<1	0.49	33	1560	6	0.03	<2	19	224
SX-4	10	<1	0.15	0.10	10	3.82	1020	<1	0.08	95	980	2	0.02	<2	24	194
SX-5	<10	17	0.10	<10	<10	4.14	1850	2	0.02	44	120	2060	1.33	216	4	101
JH-2	<10	<1	0.16	<10	<10	0.85	3450	<1	0.01	3	380	7	0.03	<2	5	226
JH-4	<10	<1	0.34	<10	10	2.72	1470	<1	0.01	13	1700	3	0.02	<2	17	144
JH-6	<10	<1	0.44	<10	10	3.22	1520	1	0.01	16	1850	7	0.04	<2	20	191
BS-1	<10	<1	0.26	<10	10	1.36	718	1	<0.01	43	690	9	0.03	<2	7	320
BS-5	10	<1	0.17	<10	10	1.41	800	1	0.04	15	2140	8	0.01	<2	10	148
BS-7	10	<1	0.63	<10	10	0.70	519	2	0.11	4	1490	4	0.01	<2	4	31

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



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CERTIFICATE OF ANALYSIS KLI9023192

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Zn ppm
SX-1	<20	0.23	<10	<10	<10	222	<10	65	
SX-4	<20	0.02	<10	<10	<10	188	<10	70	
SX-5	<20	<0.01	<10	<10	<10	74	<10	2700	
JH-2	<20	<0.01	<10	<10	<10	56	<10	22	
JH-4	<20	0.01	<10	<10	<10	79	<10	52	
JH-6	<20	0.02	<10	<10	<10	108	<10	60	
BS-1	<20	0.02	<10	<10	<10	51	<10	73	
BS-5	<20	0.16	<10	<10	<10	130	<10	80	
BS-7	<20	0.22	<10	<10	<10	106	<10	56	

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