

BC Geological Survey  
Assessment Report  
38321



TYPE OF REPORT (type of survey(s)): Prospecting, Geological

TOTAL COST: \$13,132.00

AUTHOR(S): Laurence Sookchohoff, PEng

SIGNATURE(S): Laurence Sookchohoff

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

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5733643, March 9, 2019

PROPERTY NAME: Nahmint

CLAIM NAME(S) (on which the work was done): 1059211, 1056823, 1067021

COMMODITIES SOUGHT: Copper, Gold, Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092C 007 / 008 / 009 / 086 / 231 / 232 / 233 / 621 / 622

MINING DIVISION: \_\_\_\_\_

NTS/BCGS: 092C.096, 092F.006

LATITUDE: 48 ° 55 ' 00 " LONGITUDE: 124 ° 54 ' 18 " (at centre of work)

OWNER(S):

1) Bill McKinney

2) \_\_\_\_\_

MAILING ADDRESS:

11751 Shell Road

Richmond BC V7A 3W7

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

1) John Bakus

2) \_\_\_\_\_

MAILING ADDRESS:

#3 1572 Lorne Street East

Kamloops BC V2C 1X6

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

Triassic, Jurassic, Vancouver Group, Quatsino Limestone, Kamutsen Formation, Bonanza Group, Island Plutonic Suite, Limestone, Marble, Basalt, Sedimentary Rocks, Granodiorite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 15199, 17714, 19484, 19485, 29252, 29660, 30799, 31708

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>			
<b>Photo interpretation</b>	890 hectares	1059211	\$ 6,600.00
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>			
<b>Electromagnetic</b>			
<b>Induced Polarization</b>			
<b>Radiometric</b>			
<b>Seismic</b>			
<b>Other</b>			
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b>			
<b>Silt</b>			
<b>Rock</b>			
<b>Other</b>			
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>			
<b>Non-core</b>			
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b>		1059211, 1056823, 1067021	3,266.00
<b>Petrographic</b>			
<b>Mineralographic</b>			
<b>Metallurgy</b>			
<b>PROSPECTING (scale, area)</b>	1:8642 10 hectares	1059211, 1056823, 1067021	3,266.00
<b>PREPARATORY / PHYSICAL</b>			
<b>Linegrid (kilometres)</b>			
<b>Topographic/Photogrammetric (scale, area)</b>			
<b>Legal surveys (scale, area)</b>			
<b>Road, local access (kilometres)/trail</b>			
<b>Trench (metres)</b>			
<b>Underground dev. (metres)</b>			
<b>Other</b>			
<b>TOTAL COST:</b>			<b>\$ 13,132.00</b>

# Geological & Prospecting Report

(Event 5733643)

**Bill McKinney**

(Owner)

**John Bakus**

(Operator)

Work done on Tenures

1059211, 1056823, 1067021

of the 15 claim

**Nahmint Property**

*Alberni Mining Division*

BCGS Maps 092C.096, 092F.006

**Centre of Work**

5,420,016N, 360,445E  
(Zone 10U NAD 83)

work done from

March 6, 2019 to March 9, 2019

**Author & Consultant**

Laurence Sookochoff, PEng  
Sookochoff Consultants Inc.

**Original Report Submitted**

June 23, 2019

**Amended Report submitted**

December 3, 2019

**TABLE OF CONTENTS**

	<b>page</b>
Summary -----	4.
Introduction -----	5.
Property Location and Description -----	5.
Accessibility, Climate, Local Resources, Infrastructure and Physiography -----	6.
Water and Power -----	8.
History: Nahmint Property Area -----	9.
092C 007– MONITOR -----	9.
History: Nahmint Property -----	10.
092C 008– HAPPY JOHN -----	10.
092C 009– DEFIANCE -----	10.
092C 086– BLACK PRINCE -----	10.
092C 231– HAPPY JOHN 2 -----	11.
092C 232– HAPPY JOHN 4 -----	11.
092C 233– GREEN MOUNTAIN -----	11.
092C 621– WASP -----	11.
092C 622– GOLD VEIN -----	12.
Geology: Nahmint Property Area -----	13.
092C 007– MONITOR -----	12.
Geology: Nahmint Property -----	13.
092C 008– HAPPY JOHN -----	14.
092C 009– DEFIANCE -----	14.
092C 086– BLACK PRINCE -----	14.
092C 231– HAPPY JOHN 2 -----	14.
092C 232– HAPPY JOHN 4 -----	14.
092C 233– GREEN MOUNTAIN -----	15.
092C 475– HANDY CREEK -----	15.
092C 621– WASP -----	15.
092C 622– GOLD VEIN -----	15.
Mineralization: Nahmint Property Area -----	15.
092C 007– MONITOR -----	16.
Mineralization: Nahmint Property -----	16.
092C 008– HAPPY JOHN -----	16.
092C 009– DEFIANCE -----	17.
092C 086– BLACK PRINCE -----	17.
092C 231– HAPPY JOHN 2 -----	17.
092C 232– HAPPY JOHN 4 -----	18.
092C 233– GREEN MOUNTAIN -----	18.
092C 621– WASP -----	18.
092C 622– GOLD VEIN -----	18.
2019 Exploration Program: -----	19.
Interpretation, Conclusions, and Recommendations -----	24.
Selected References -----	26.
Statement of Costs -----	27.
Certificate -----	28.
Field Crew Qualifications -----	29.

**Table of Contents (cont'd)****TABLES**

Table 1. Tenures of the Nahmint Property -----	6.
Table 2. Approximate Location of Cross-Structures -----	23.

**ILLUSTRATIONS**

Figure 1. Location Map -----	5.
Figure 2. Nahmint property location from Port Alberni -----	7.
Figure 3. Aerial view of Port Alberni -----	8.
Figure 4. Nahmint Property Claims -----	9.
Figure 5. Minfiles in area of and on Nahmint Property -----	9.
Figure 6. Nahmint Property Geology -----	13.
Figure 6a. Index Map -----	19.
Figure 7. West Sample Locations -----	20.
Figure 8. Southwest Sample Locations -----	20.
Figure 9. Mid Sample Locations -----	21.
Figure 10. Northeast Sample Locations -----	21.
Figure 11. North Sample Locations -----	22.
Figure 12. Indicated Lineaments -----	23.
Figure 13. Rose Diagram -----	23.

**APPENDICES**

Appendix 1 Sample Assays
Appendix 2 Sample Locations and Descriptions
Appendix 3 Photos

## SUMMARY

The 2018 exploration program of sampling, and prospecting exploration program on the Nahmint Property was successful in that samples were obtained from locations that may indicate the surficial geological expression of a mineral potential skarn, or related mineral resource as a porphyry which may have been the source of the mineralizing fluids which form the seven skarn zones on the Nahmint property.

The sample results from sample N-22 within the Southwest zone, samples N-02 and N-07 from the Northeast zone, and samples N-27, N-28, N-29 from the North zone, with the elevated copper values and sporadically elevated gold, arsenic, and molybdenum values, possibly indicate the surficial migration of hydrothermal fluids from a developing porphyry.

An example of a skarn to porphyry mine is in one of the largest porphyry copper mines in Mexico, the Cananea, which was mined as a skarn at the surface and developed to a porphyry mine to depth. *"The Cananea mine in Sonora is Mexico's largest open pit copper mine, one of the largest in the world and – having opened in 1899 – one of the oldest on the North American continent"*

[\(https://www.mining-technology.com/projects/cananaecoppermine/](https://www.mining-technology.com/projects/cananaecoppermine/)



[https://ca.images.search.yahoo.com/search/images?p=cananea+copper+mine&fr=crmas&imgurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina\\_de\\_cobre.jpg#id=1&iurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina\\_de\\_cobre.jpg&action=click](https://ca.images.search.yahoo.com/search/images?p=cananea+copper+mine&fr=crmas&imgurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina_de_cobre.jpg#id=1&iurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina_de_cobre.jpg&action=click)

The one cross-structure area is a location where surficial indications of a deep-seated porphyry may be revealed in the geology, alteration, and pathfinder minerals. In addition, the sample locations of elevated copper, gold, molybdenum, and arsenic should be prospected to determine the causative source of these anomalous mineral values.

## INTRODUCTION

From March 6, 2019 to March 9, 2019, a structural analysis in addition to a prospecting and sampling program were completed on the Nahmint Property ("Property"). The purpose of the structural analysis was to locate any cross-structures which may be surficial indicators of a potential concealed mineral resource.

The purpose of the prospecting and sampling program was to prospect and take samples within any prospective mineralized zone in order to gather geological information for future exploration.

Information for this report was obtained from sources as cited under Selected References and from information on the procedures and results on the prospecting and sampling program given the author.

**Figure 1. Nahmint Property Location**  
(Base Map from MapPlace)



## PROPERTY LOCATION & DESCRIPTION

### Location

The Nahmint Property is located 134 kilometres west of Vancouver, 74 kilometres west of Nanaimo, and 28 kilometres south-southwest of Alberni within BCGS Maps 092F.006 and 092C.096 of the Alberni Mining Division.

### Description

The Nahmint Property is comprised of 15 contiguous mineral claims covering an area of 2408.7654 hectares. Particulars are as follows:

Table 1. Tenures of the Nahmint Property

Tenure Number	Type	Claim Name	Good Until	Area (ha)
<a href="#">1056328</a>	Mineral		20200630	35.4637
<a href="#">1059211</a>	Mineral	NAHMINT HAPPY JOHN	20200701	890.1421
<a href="#">1059212</a>	Mineral	NAHMINT HEGATE MTN	20200701	360.1505
<a href="#">1059213</a>	Mineral	NAHMINT HANDY CREEK	20200701	21.179
<a href="#">1059215</a>	Mineral	NAHMINT SOUTH EAST	20200701	466.1664
<a href="#">1059216</a>	Mineral	NAHMINT GOLD NUGGET	20200701	21.1912
<a href="#">1067015</a>	Mineral		20200701	42.3619
<a href="#">1067016</a>	Mineral		20200701	84.741
<a href="#">1067017</a>	Mineral		20200701	21.1879
<a href="#">1067018</a>	Mineral		20200701	21.1937
<a href="#">1067019</a>	Mineral		20200701	21.1955
<a href="#">1067020</a>	Mineral		20200701	21.1974
<a href="#">1067021</a>	Mineral		20200701	42.3977
<a href="#">1067100</a>	Mineral	Nahmint Black Prince Wasp	20200701	296.6309
<a href="#">1067101</a>	Mineral	Nahmint Cascade	20200701	63.5665

\*Upon the approval of the assessment work filing Event Number 5733643.

## ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND

### PHYSIOGRAPHY

#### Access

Access: Richmond to Tsawwassen Ferry Terminal to Duke Point, Duke Point Hwy 19 north to Hwy 4 then east to Port Alberni, Rented boat approx. 50kms south by Alberni Inlet to northern boundary of property.

#### Climate

(from [https://en.wikipedia.org/wiki/Port\\_Alberni](https://en.wikipedia.org/wiki/Port_Alberni))

Port Alberni's dry July gives it a warm-summer [Mediterranean climate](#), although it is much wetter than most such places. Although the summer months do see a relatively small amount of precipitation, the vast majority of it comes during the winter months as cool, moist air flows from the Pacific Ocean over the much colder B.C. coast. Despite its location on the relatively dryer east side of Vancouver Island, the resulting weak rain shadow is not enough to keep the city dry.

The highest temperature ever recorded in Port Alberni was 106 F (41.1 °C). The coldest temperature ever recorded was 7 F (-21.7 C).



## Accessibility, Climate, Local Resources, Infrastructure and Physiography (cont'd)

### Local Resources

Port Alberni is a resource community of about 17,000 people with abundant skilled labour, housing, services, hospital, airport and a deep sea port. Port Alberni Airport is located 11 km north west of the city (Houle, 2009).

The total population of Port Alberni and surrounding suburbs consisting of both Cherry and Beaver Creek districts is 26,569 (as of the 2004 census conducted by Statistics Canada,

### Infrastructure

The local infrastructure is good with extensive logging roads over most of the Nahmint property, and the sheltered Alberni and Uchucklesit Inlets along two sides. Exploration programs can be mobilized and serviced by road, air or water as required to different portions of the property. Upgraded and expanded roads and the installation of deep sea wharfs could provide excellent access for potential future mining operations on the property.

The airport has a 4,000-foot runway with another 2,500 plus feet of taxiways and apron. The airport is home to a number of key tenants, including Coulson Airplane, Canadian Aero Technologies, Alberni Valley Flying Club and Vancouver Island Helicopters.

### Physiography

Topographically, the property resembles a squat dome, and topography consists of terraced, flat-topped mountains incised by steep cliffs and valleys with fast-flowing, often seasonal creeks and rivers fed by small lakes. Elevations range across the Property from sea level to about 1000 metres. Overburden on the property consists of thin, poorly developed soils with local pockets of thicker glacial till, and rock exposure averages about 10%.

Vegetation is dense, second growth coniferous forest and fast growing alders along variably overgrown logging roads, with occasional patches of old growth hemlock, balsam, fir and cedar. Abundant fresh water sources occur throughout the property, available through appropriate permits for exploration or mining purposes (Houle, 2009).

**Figure 2. Nahmint Property Location from Port Alberni**  
(Base Map from MapPlace & Google)

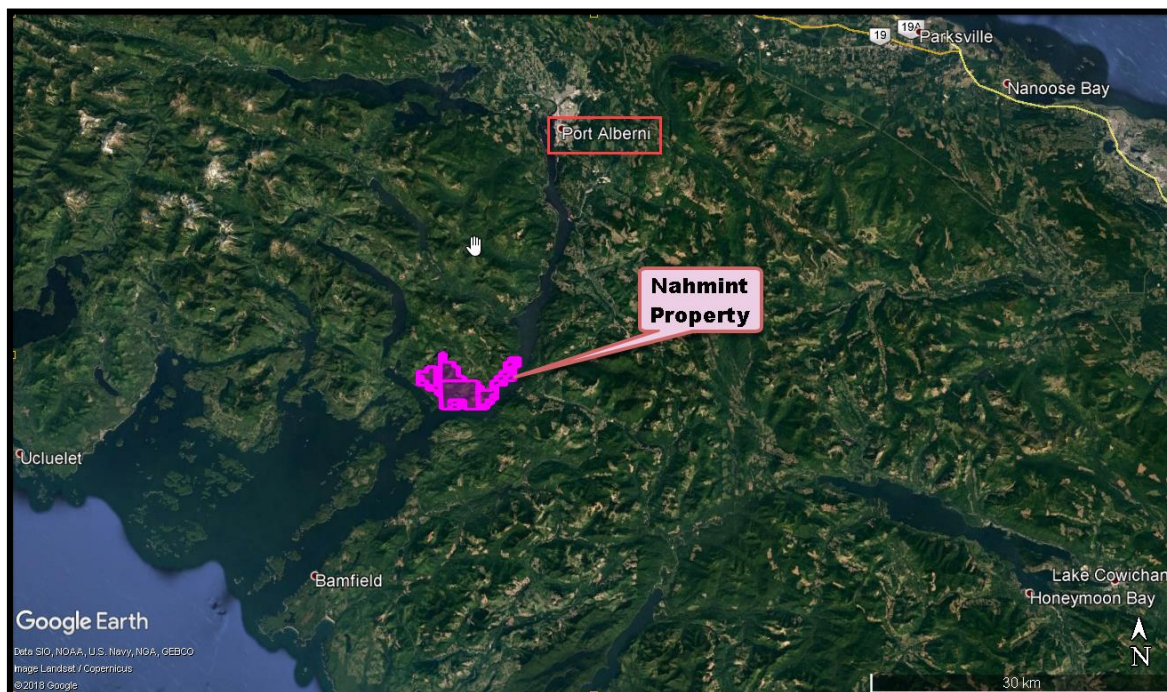
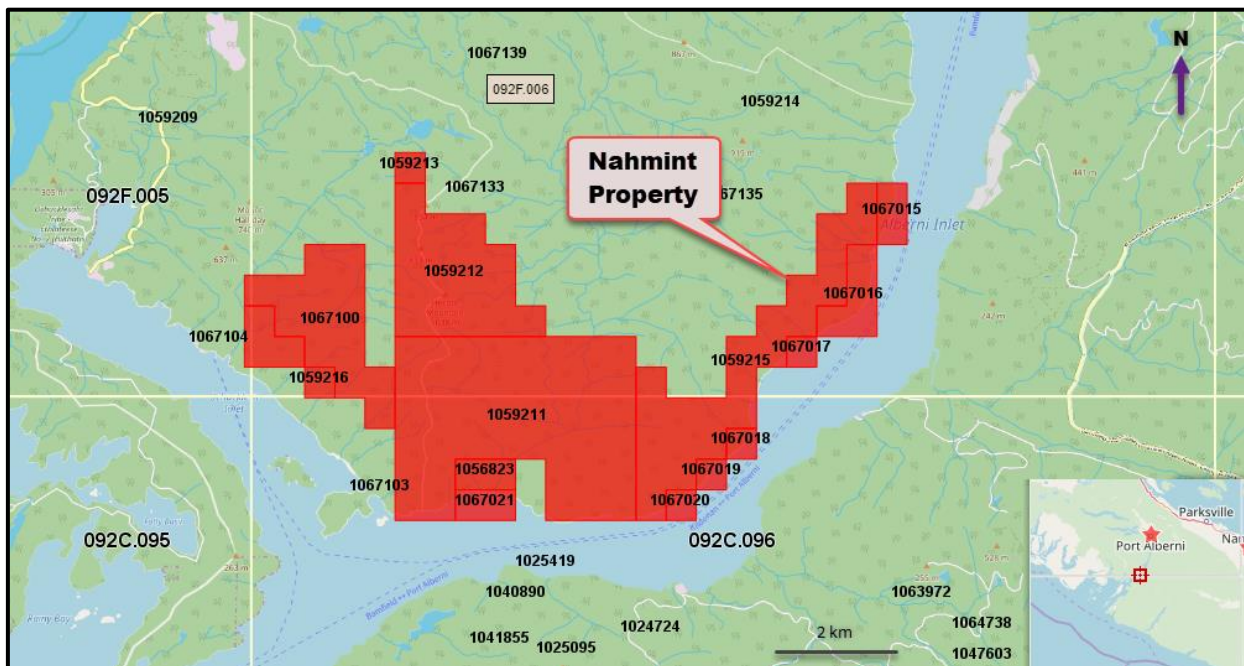


Figure 3. Aerial view of Port Alberni



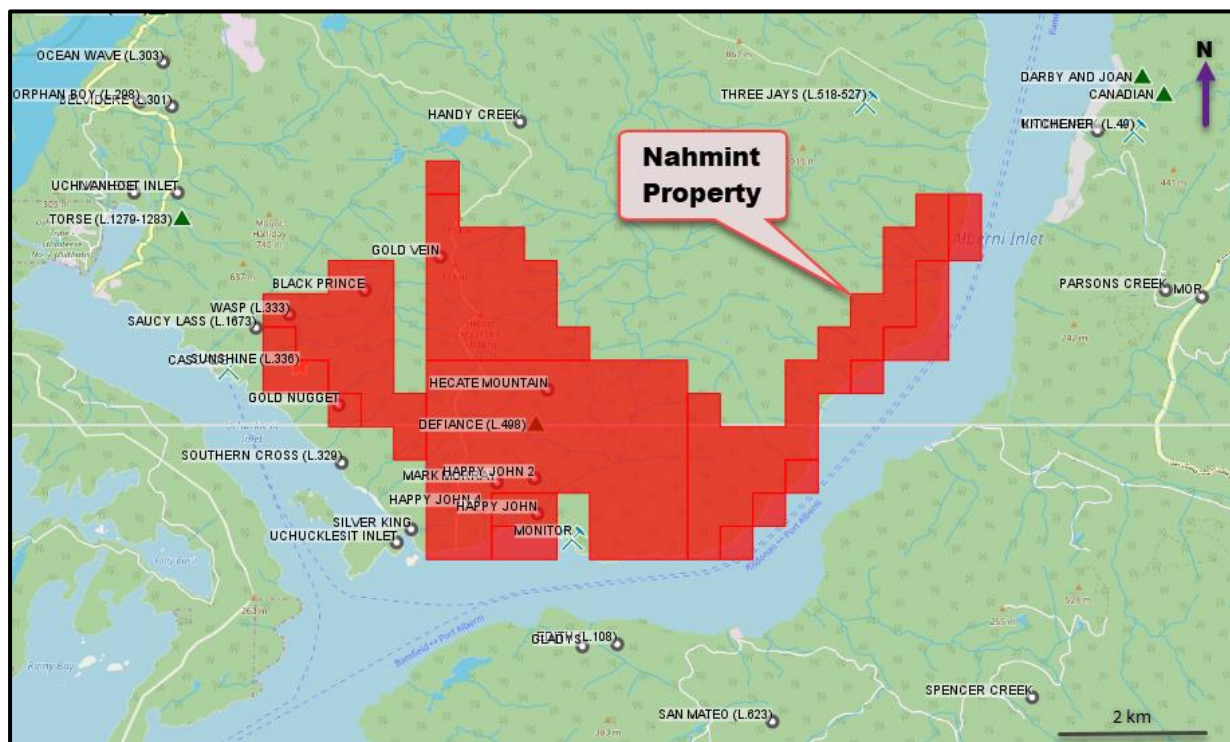
Figure 4. Nahmint Property Claims  
(Base map from MapPlace)



## HISTORY: NAHMINT PROPERTY AREA

Work in the area of the Nahmint property dates back to the late 1890's with the discovery of mineralization at many locations along the nearby portions of the Alberni Inlet, Uchucklesit Inlet and Henderson Lake. Considerable exploration and development work was carried out on the property in the early 1900s, particularly on the Three Jays area, including underground workings on twelve different occurrences. (Pezzot, 2012)

Figure 5. Minfiles in area of and on Nahmint Property  
(Base map from MapPlace)



Minfile reports on the history of past producers adjacent to the Nahmint property area as follows.

**MONITOR** past producer (Skarn)

*Minfile 092C 007*

*200 metres south*

*The Monitor mine is located on the north shore of the Alberni canal, just at the entrance. The mineralized zones extend back from the shore several hundreds of metres. The property was discovered in 1898 and during 1900 and 1901 steadily produced ore. The mine was reconditioned in 1916 and produced ore again from then until 1918.*

*In 1986 through 1989, Chelan Resources completed programs of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project.*

*In 2007 through 2012, Nahmint Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2008, two grab samples, 362676 and 362677, of oxidized skarn from a former trench assayed 0.68 and 5.0 per cent copper, 3.7 and 0.13 per cent zinc with 12 and 23 grams per tonne silver, respectively (Assessment Report 29660). In 2009, a select grab sample (2009012) from a 0.2-metre-thick exposure of skarn in the shaft assayed 3.41 per cent copper, 0.223 per cent lead, 58.2 grams per tonne silver and greater than 1 per cent zinc. Another sample (200914), taken approximately 100 metres to the east of the shaft, from a 0.2-metre-thick exposure of pyritic quartz containing chlorite, jarosite, chalcopryrite and hematite assayed 1.02 per cent copper, 45.6 grams per tonne silver and greater than 1 per cent lead and zinc (Assessment Report 31248).*

**HISTORY: NAHMINT PROPERTY**

The history on some of the mineral MINFILE reported showings and prospects within the Nahmint property is reported as follows. The descriptions herein are copied from Minfile.

**HAPPY JOHN** showing (Skarn, Hydrothermal)**Minfile 092C 008****Within Tenure 1056823**

*The Happy John 1 showing is located on the western side of Cass Creek, a few hundred metres north of the creek mouth. The Monitor mine (092C 007) adjoins the property. A number of old workings occur on the Happy John #1, #2 and #4 claims.*

*In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. A 1.2 metre chip sample (LSC 21) of mineralized skarn material from the adit 1 portal assayed 10.8 grams per tonne gold. Other samples assayed up to 4.36 per cent copper (Assessment Report 15199).*

*In 1989, Chelan Resources and Nitro Resources completed a program of prospecting.*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2009, a select grab sample (200915) from a trench adjacent to the adit assayed 8.1 per cent copper and 35.1 grams per tonne silver (Assessment Report 31248). In 2010, a select grab sample (17305) from the fourth adit, located at 88 metres elevation, assayed 8.98 per cent copper, 0.126 per cent zinc and 19.5 grams per tonne silver (Assessment Report 31708).*

**DEFIANCE** prospect (Skarn)**Minfile 092C 009****Within Tenure 1059211**

*The Defiance (L.498) occurrence is located on an east flowing tributary of Handy Creek, approximately 1.3 kilometres north- north west of the creek mouth. The deposits were developed in the early 1900's by considerable stripping, and by open-cutting and by two tunnels 30 metres and 11 metres in length, respectively.*

*In 1986 through 1989, Chelan Resources completed programs of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project.*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property.*

**BLACK PRINCE** showing**Minfile 092F 086****Within Tenure 1067100**

*The Black Prince occurrences are located on the western slopes of Hecate Mountain, approximately 2.5 kilometres north- north east of the mouth of Cass Creek.*

*In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (C4858 and C4865) assayed up to 19.7 grams per tonne silver and greater than 1 per cent copper (Assessment Report 17714).*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2009, a select outcrop grab sample (813568) from a 0.25-metre-thick mineralized skarn assayed 1.85 per cent copper, 7 grams per tonne silver and 48 per cent iron (Assessment Report 31248).*

**History: Nahmint Property (cont'd)****HAPPY JOHN 2** showing (Skarn)**Minfile 092C 231****Within Tenure 1059211**

*The Happy John 2 showing is located on the southern slopes of Hecate Mountain, approximately 700 metres north of the creek mouth of Handy Creek.*

*In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. Samples (LSN 31 to LSN 33) from the vicinity of the shaft assayed 1.6 per cent copper, 4.1 grams per tonne silver and 0.56 gram per tonne gold (Assessment Report 15199). Previously reported samples assayed up to 7.2 per cent copper and 20.6 grams per tonne silver (Assessment Report 15199).*

*In 1989, Chelan Resources and Nitro Resources completed a program of prospecting.*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.*

**HAPPY JOHN 4** showing (Skarn)**Minfile 092C 232****Within Tenure 1059211**

*The Happy John 4 showing is located on the southern slopes of Hecate Mountain, approximately 1 kilometre north west of the creek mouth of Handy Creek.*

*In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. Samples from the adit and trench assayed up to 5.46 per cent copper and 57.8 grams per tonne silver; while samples from the siliceous volcanic assayed up to 0.66 per cent copper, 13.5 grams per tonne silver and 9.9 grams per tonne gold (Assessment Report 15199).*

*In 1989, Chelan Resources and Nitro Resources completed a program of prospecting and geochemical sampling of 4 bulk samples. A 7.8-kilogram bulk sample (#201), taken from above the portal and containing partially banded pyrrhotite-marcasite-garnet skarn, assayed 0.12 gram per tonne gold, 6.5 grams per tonne silver and 0.09 per cent copper. The three other bulk samples collected assayed up to 0.265 per cent copper with lower results in gold and silver (Assessment Report 19484).*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property. In 2010, a select grab sample (17238) yielded 8.2 per cent copper and 71.8 grams per tonne silver from a trench near the adit (Assessment Report 31708).*

**GREEN MOUNTAIN** showing (Skarn)**Minfile 092C 233****Within Tenure 1059211**

*The Mark Murray (former Green Mountain (L.96) crown grant) occurrence is located on the Sing Main Road, west of Handy Creek at an elevation of approximately 400 metres.*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.*

**WASP** showing (Skarn)**Minfile 092F 621****Within Tenure 1067100**

**History: Nahmint Property (cont'd)****Wasp (cont'd)**

*The Wasp (L.333) occurrence is located on a tributary of Cass Creek, approximately 1 kilometre northwest of the creek mouth.*

*In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Chip samples C4898 and C4900 assayed 66.8 and 65.2 grams per tonne silver, respectively, with greater than 1 per cent copper (Assessment Report 17714).*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.*

*In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Chip samples C4898 and C4900 assayed 66.8 and 65.2 grams per tonne silver, respectively, with greater than 1 per cent copper (Assessment Report 17714).*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.*

**GOLD VEIN showing (Skarn)****Minfile 092C 622****Within Tenure 1059212**

*The Gold Vein occurrence is located on the northern slopes of Hecate Mountain, at approximately 760 metres elevation.*

*In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (D2754 and D2755) assayed 94.5 and 17.9 grams per tonne silver, greater than 1 per cent zinc and 0.26 per cent zinc with greater than 1 per cent copper, respectively (Assessment Report 17714).*

*In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.*

**GEOLOGY: NAHMINT PROPERTY AREA**

**Minfile reports on the geology of a past producer adjacent to the Nahmint property area as follows.**

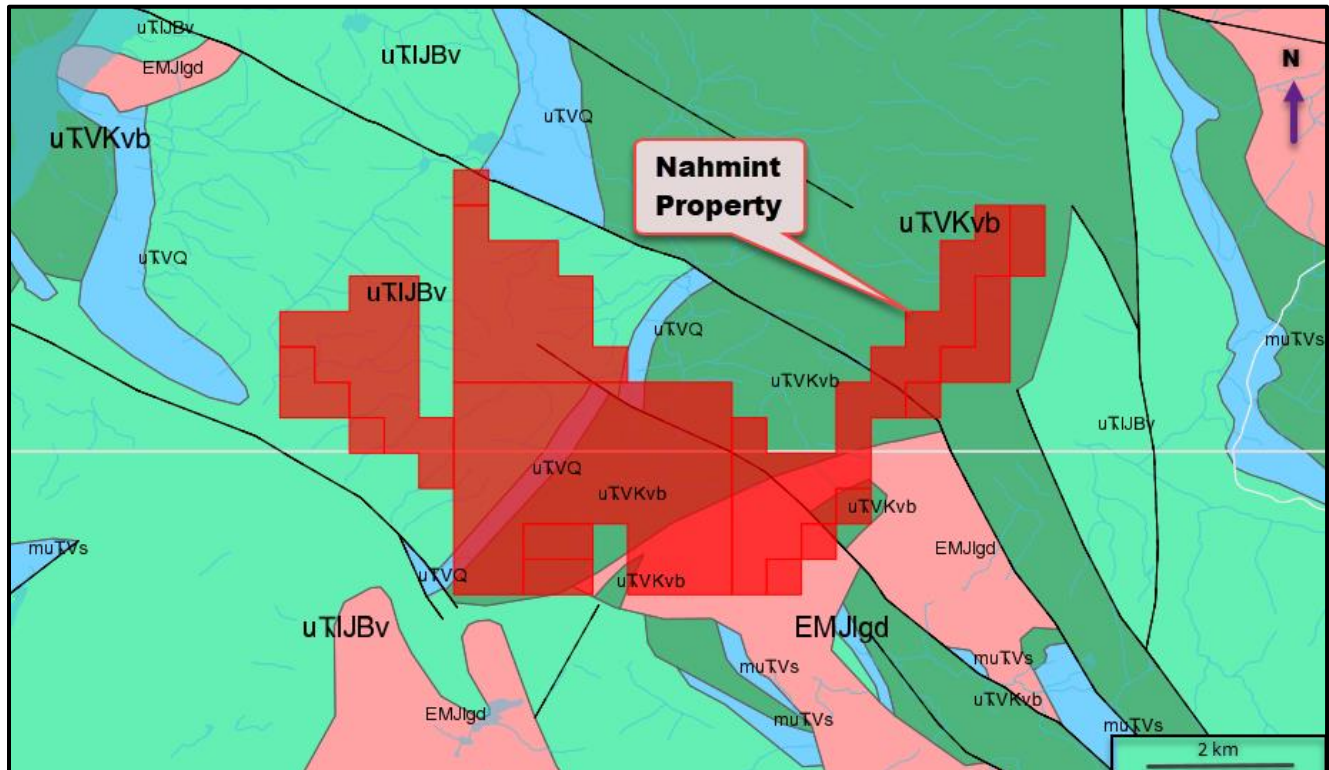
**MONITOR past producer (Skarn)****Minfile 092C 007****200 metres south**

*This skarn deposit occurs in a bed of limestone, probably related to the Upper Triassic Quatsino Formation (Vancouver Group), interbedded with mafic basalts of the Upper Triassic Karmutsen Formation (Vancouver Group). The bedding strikes 115 degrees and dips 20 degrees to the southwest. These rocks are bounded on the east by a large body of granodiorite of the Early to Middle Jurassic Island Plutonic Suite (formerly the Island Intrusions). The rocks are intruded by a body of granodiorite porphyry, probably a dyke, lying west of the deposits and striking in a northerly direction.*

**GEOLOGY: NAHMINT PROPERTY**

The Nahmint property geology consists of a flat-lying sequence of layered rocks consisting of Karmutsen volcanics, Quatsino limestone, Parson Bay volcanics and sediments, and LeMare Lake volcanics. These layered rocks have been intruded from the southeast and domed from beneath by a large batholith or sill of Island Intrusive granodiorite and porphyritic stocks and dikes, in part along the Karmutsen-Quatsino contact. Steeply-dipping, northwest-trending faults have deformed and offset the layered and intrusive rocks both vertically and horizontally (Houle, 2008).

*Figure 6. Nahmint Property Geology  
(Base map from MapPlace)*



**GEOLOGY LEGEND**

**uTrVQ**

Middle to Upper Triassic  
Vancouver Group-Quatsino Formation  
limestone, marble, calcareous sedimentary  
rocks

**muTrVs**

Middle to Upper Triassic  
Vancouver Group-  
Undivided sedimentary rocks

**uTrVKBv**

Upper Triassic  
Vancouver Group-Karmutsen Formation  
basaltic volcanic rocks

**uTrIJBv**

Upper Triassic to Lower Jurassic  
Bonanza Group  
undivided volcanic rocks

**EMJlgd**

Early Jurassic to Middle Jurassic  
Island Plutonic Suite  
granodioritic intrusive rocks

**Geology: Nahmint Property (cont'd)**

Descriptions of the geology on reported showings and past producers within the Nahmint Property are reported as follows. The descriptions herein are copied from Minfile.

**Geology: Nahmint Property (cont'd)****HAPPY JOHN** showing (Skarn, Hydrothermal)**Minfile 092C 008****Within Tenure 1056823**

*The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite and a hornblende granodiorite plug.*

**DEFIANCE** prospect (Skarn)**Minfile 092C 009****Within Tenure 1059211**

*The area is underlain by Upper Triassic Vancouver Group rocks consisting of basalts of the Karmutsen Formation, which are in intrusive contact, or interbedded with limestone of the Quatsino Formation. A large body of granodiorite of the Early to Middle Jurassic Island Plutonic Suite (formerly the Island Intrusions) has intruded the strata within a few kilometres to the east.*

*Lenses of magnetite, intimately mixed with garnet, siderite and calcite, occur in a number of isolated pockets and lenses, strung out in northeast direction on a relatively flat bench. Two of the occurrences are cut by a small creek, while the third covers a flat about 5 metres square. The deposits are variably reported to occur at the contact of limestone and either Vancouver Group igneous rock (Karmutsen?) or hornblende diorite (Island Plutonic Suite?).*

**BLACK PRINCE** showing (Skarn)**Minfile 092F 086****Within Tenure 1067100**

*Volcanics of the Lower Jurassic Bonanza Group overlie Upper Triassic Vancouver Group rocks consisting of Karmutsen Formation volcanics and Quatsino Formation limestone. The strata may be intruded locally by diorite and granodiorite of the Early to Middle Jurassic Island Plutonic Suite. The limestone of this skarn deposit may be from the Quatsino Formation or from beds found in the upper part of the Karmutsen Formation.*

*Locally, six separate masses of pure and rocky magnetite occur along a northeast trend for about 60 metres. The largest of these masses has an exposure of about 23 square metres. They are irregular in shape and occur in association with a fine grained, cherty, porphyritic andesite or tuff, near its contact with intrusive hornblende diorite. Limestone is reported to occur within a few hundred metres.*

**HAPPY JOHN 2** showing (Skarn)**Minfile 092C 231****Within Tenure 1059211**

*The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and by Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite and a hornblende-granodiorite plug.*

**HAPPY JOHN 4** showing (Skarn)**Minfile 092C 232****Within Tenure 1059211**

*The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and by Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite and a hornblende- granodiorite plug.*



**Geology: Nahmint Property (cont'd)****GREEN MOUNTAIN** showing (Skarn)*Minfile 092C 233**Within Tenure 1059211*

*The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.*

**HANDY CREEK** showing (Skarn)*Minfile 092F 475**Within Tenure 1067133*

*A west dipping limestone lens of the Upper Triassic Vancouver Group, Quatsino Formation trends north for 3 kilometres to the headwaters of Handy Creek, 23 kilometres south-southwest of Port Alberni.*

*The Handy Creek lens is terminated by a fault to the south and pinches out to the north between overlying Lower Jurassic Bonanza Group volcanics and sediments and underlying basalts and andesites of the Upper Triassic Karmutsen Formation, Vancouver Group. Exposed widths vary up to 1500 metres.*

**WASP** showing (Skarn)*Minfile 092F 621**Within Tenure 1067100*

*The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.*

**GOLD VEIN** showing (Skarn)*Minfile 092C 622**Within Tenure 1059212*

*The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.*

**MINERALIZATION: NAHMINT PROPERTY AREA**

Descriptions of copper-gold-silver mineralization in the Nahmint property area are based primarily on historical data compiled in the B.C. Minister of Mines reports from 1898 to 1918, when all sixteen documented skarn occurrences were discovered by prospecting, many were explored by shallow excavations and a few selectively mined. Only six assessment reports exist of work by explorationists from 1965 to 1989.

Since most of the work was done long ago on crown granted mineral claims which did not require assessment work, details of the deposits and excavations are largely unknown. In the modern context of mineral deposits models, descriptions of the sulphide mineralogy of these skarn occurrences appear to represent mixed variations of three end-member types as follows:

**Mineralization: Nahmint Property Area (cont'd)**

- Copper Skarns – mainly chalcopyrite with minor pyrrhotite, pyrite, magnetite, bornite (Monitor, Happy John, Southern Cross, Torse, Sunshine, Three Jays, Ocean Wave, Saucy Lass, Cascade, Ivanhoe, Orphan Boy, Rainy Day)
- Gold Skarns – mainly pyrrhotite with minor bornite, chalcopyrite, pyrite, magnetite (Silver King)
- Iron Skarns – mainly magnetite with minor chalcopyrite, pyrrhotite, pyrite, bornite (Defiance, Black Prince, J & S).

These may actually represent mineral zonation variations within individual deposits or deposit clusters, which is also typical of skarns. Early workers appeared to target primarily visible and high grade copper skarns as direct shipping ore, so pyrrhotite-rich gold skarns may have received less attention, similar to the iron skarns. Gangue mineralogy and deposit shapes are also highly variable, and are dependent on whether they are endoskarns (within the intrusives) or exoskarns (within the host rocks).

**Mineralization of past producers adjacent to the Nahmint property area are reported by Minfile as follows.**

**MONITOR** past producer (Skarn)

*Minfile 092C 007*

*200 metres south*

*The orebodies are found at three points and known as the Maynard, Hedley and Leonard showings. The Maynard is about 600 metres from the canal and is where development occurred from 1900 to 1902. The Hedley is about 300 metres from the canal and was partly developed after it was discovered in 1910, with development occurring in 1916. The Leonard orebody, located about 500 metres southeast of the Hedley showing and at a lower elevation, was developed after its discovery in 1916. The ore consists of pyrrhotite and chalcopyrite with small amounts of magnetite and pyrite. It occurs chiefly in the altered limestone, which consists of calcite, quartz, garnet, epidote and actinolite. Some ore is found in the metamorphosed volcanic rocks which are altered to epidote, chlorite and hematite. The strike of the Leonard orebody is reported to conform with the country rock outside the portal of the adit. An average sample taken from a crosscut in the adit across 0.6 metres assayed 6.1 per cent copper, 17.14 grams per tonne silver and a trace of gold (Minister of Mines Annual Report 1919, page 253).*

**MINERALIZATION: NAHMINT PROPERTY**

Copper, Gold and Iron Skarn mineralization as well as marble deposits on the Nahmint property appear to have formed where the Island intrusives occur along the lower contact of the Quatsino limestone with the underlying Karmutsen volcanics. Evidence of this lithologic relationship is both geological through regional mapping and geophysical through aeromagnetism. No mention of porphyry copper mineralization has been documented on the Nahmint property to date, but neither have such deposits been targeted by explorationists. Sedimentary limestone deposits consist of the extensive exposures of the Quatsino limestone unit itself. (Houle, 2008).

**The mineralization on the MINFILE reported past producers and showings within the Nahmint Property area are reported as follows. The descriptions herein are copied from Minfile.**

**HAPPY JOHN** showing (Skarn, Hydrothermal)

*Minfile 092C 008*

*Within Tenure 1056823*

**Mineralization: Nahmint Property (cont'd)****Happy John (cont'd)**

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and if projected to the shore of the canal would terminate near the portal of the main adit on the Leonard orebody.

There are 4 adits and opencuts on the Happy John #1 claim. These are centered on an area of altered limestone and volcanics containing pyrite and chalcopyrite. A sample from the workings assayed 12 per cent copper, 2.06 grams per tonne gold and 36.67 grams per tonne silver.

**DEFIANCE** prospect (Skarn)**Minfile 092C 009****Within Tenure 1059211**

Lenses of magnetite, intimately mixed with garnet, siderite and calcite, occur in a number of isolated pockets and lenses, strung out in northeast direction on a relatively flat bench. Two of the occurrences are cut by a small creek, while the third covers a flat about 5 metres square. The deposits are variably reported to occur at the contact of limestone and either Vancouver Group igneous rock (Karmutsen?) or hornblende diorite (Island Plutonic Suite?).

At the first lens the adit was caved but the dump material showed magnetite mixed with chalcopyrite. A sample of this material assayed 52.6 per cent iron, 3.3 per cent copper, 41.14 grams per tonne silver, 4.2 per cent sulphur, 12.1 per cent silica and a trace of gold (Minister of Mines Annual Report 1917, page 288).

The second lens is reported to show a width of about 3.7 metres and a length of 18 metres. The magnetite shows very little impurities; the only gangue material is garnetite in small quantities. The deposit strikes northwest and dips vertically. A sample of this material graded 66.0 per cent iron, 3.3 per cent silica and a trace of sulphur (Minister of Mines Annual Report 1917, page 289).

The other lens, located about 45 metres to the northwest of the second, is about 1.2 metres wide and has been prospected by an opencut.

**BLACK PRINCE** showing (Skarn)**Minfile 092F 086****Within Tenure 1067100**

Two bodies of high-grade, lustrous, granular magnetite occur. These are strongly sheeted, with sheets from about 4 to 5 centimetres thick, having a sugary texture. Pyrrhotite, pyrite, copper minerals and garnet are also reported. A sample assayed 70.2 per cent iron, 1.4 per cent silica and traces of phosphorous and sulphur (Minister of Mines Annual Report 1916).

**HAPPY JOHN 2** showing (Skarn)**Minfile 092C 009****Within Tenure 1059211**

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and, if projected to the shore of the canal, would terminate near the portal of the main adit on the Leonard orebody.

On the Happy John #2 claim a gossan or iron capping can be traced in a south east direction for 122 metres. Mineralization at the workings, a 12 metre adit and an 8 metre shaft, consists of chalcopyrite, magnetite, pyrrhotite and pyrite in garnetite gangue. The mineralization occurs at the limestone-volcanic contact.

**Mineralization: Nahmint Property (cont'd)****HAPPY JOHN 4** showing (Skarn)**Minfile 092C 232****Within Tenure 1059211**

*There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and, if projected to the shore of the canal, would terminate near the portal of the main adit on the Leonard orebody.*

*The Happy John #4 workings consist of a 15-metre-long adit and a 5 metre trench near the portal of the adit, exposing limestone and skarn. An outcrop of siliceous volcanics hosting chalcopyrite and pyrite occurs 80 metres northwest of the adit.*

*In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. Samples from the adit and trench assayed up to 5.46 per cent copper and 57.8 grams per tonne silver; while samples from the siliceous volcanic assayed up to 0.66 per cent copper, 13.5 grams per tonne silver and 9.9 grams per tonne gold (Assessment Report 15199).*

**GREEN MOUNTAIN** showing (Skarn)**Minfile 092C 233****Within Tenure 1059211**

*Locally, a weakly foliated iron-copper skarn, oriented at 60 degrees strike and 30 degrees dip to the south east, is exposed over 2 by 2 metres and is least 20 centimetres thick. This is located 1 to 2 metres west of a diorite intrusive contact, striking 150 degrees and dipping vertically. The skarn zone contains chalcedonic quartz and garnet with sulphide mineralization of magnetite, chalcopyrite, pyrrhotite and pyrite. In 2007, two select outcrop grab samples, 364601 and 364651, assayed 4.49 and 1.91 per cent copper, 0.046 and 0.259 per cent zinc, 14.9 and 4.1 grams per tonne silver and 36.3 and 28.5 per cent iron, respectively (Assessment Report 29252). In 2010, a select grab sample (17333) assayed 4.64 per cent copper, 31.8 per cent iron and 10.6 grams per tonne silver (Assessment Report 31708).*

*A former shaft exposes another skarn zone, approximately 100 metres to the east. The zone is 0.2 metre wide and contains epidote-chlorite-actinolite-garnet alteration with chalcopyrite, pyrite and magnetite hosted by basalt and limestone. In 2009, a sample assayed 7.05 per cent copper, 41.2 per cent iron and 25.3 grams per tonne silver (Assessment Report 31248).*

**WASP** showing (Skarn)**Minfile 092F 621****Within Tenure 1067100**

*Locally, a diopside-epidote-tremolite altered limestone and volcanics host massive sulphide mineralization consisting of copper (chalcopyrite?) and pyrite mineralization.*

**GOLD VEIN** showing (Skarn)**Minfile 092C 622****Within Tenure 1059212**

*Locally, siliceous and altered limestone in or near contact with volcanic and intrusive rocks hosts copper (chalcopyrite?) mineralization.*

## 2019 EXPLORATION PROGRAM

### Prospecting and Rock Sampling

#### Purpose

The purpose of the program was to locate any location of a geological prospect that may have the potential to be developed to an economic resource. Any indication of mineralization may indicate a potential concealed mineral resource.

#### Prospecting and sampling

Prospecting of area; orange flagging and marking of sample sites. Multiple photos taken of samples and areas. GPS coordinates were taken, and all samples recorded and mapped. Prospecting notes, operating with equipment (Truck, GPS, Tools and sampling).

Thirty samples were taken from various locations throughout the property area with 27 samples assayed. All the sample locations are shown on the Index Map (Figure 6.) which also shows the coverage of the samples by five maps with a scale of 1:8464. Selected assays are shown on the five sample location maps. Complete assays of the samples are shown in Appendix 1 as Certificate of Analysis VAN 19000784.1 and VAN 19000908.1. Descriptions of the samples are reported in Appendix 2.

Three types of samples were collected; float, heavy metal, and in-situ.

A float (FB) sample is a loose piece of rock that is not connected to an outcrop. This type of a sample was selected for the contained minerals, alteration, and/or any other geological feature to serve as a guide in future sampling or exploratory work

An in-situ (IS) sample is a sample taken from its natural or original place. The methodology of sample retrieval was to select a geologically featured site and take a hand-sized rock sample.

The term heavy metal (HM) refers to any metallic chemical element that has a relatively high density and is toxic or poisonous at low concentrations. In the taking of a heavy metal sample, a soil or stream sediment sample is panned in order to concentrate the high density minerals, which would include gold, and reveal potential pathfinder minerals that would not be revealed in an unpanned sample assay.

All the samples taken were described by Stewart Jackson, PhD, PGeo who also was a consultant to the project.

**Figure. 6a. Index Map showing location of five sample maps**  
(Base map: Google Earth)

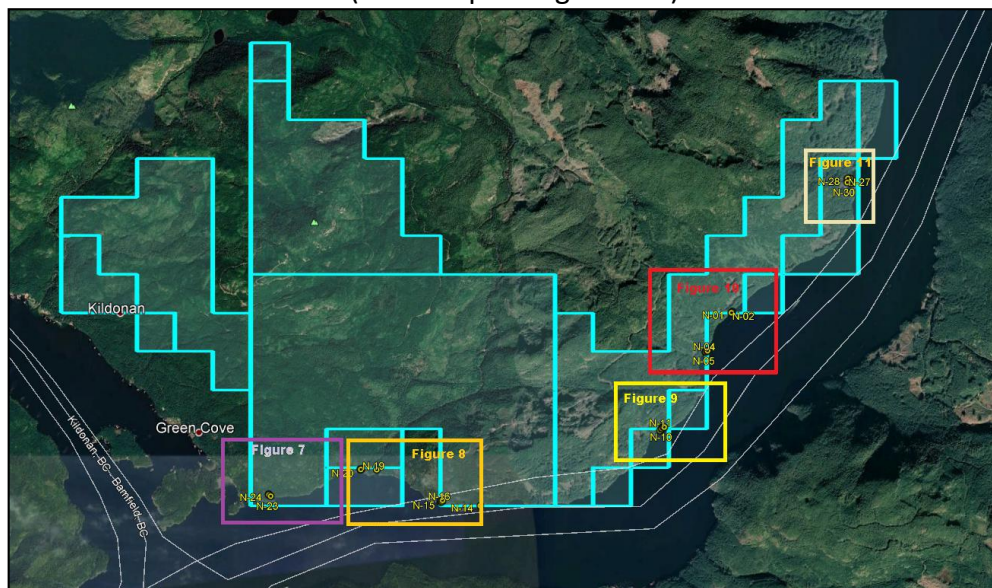
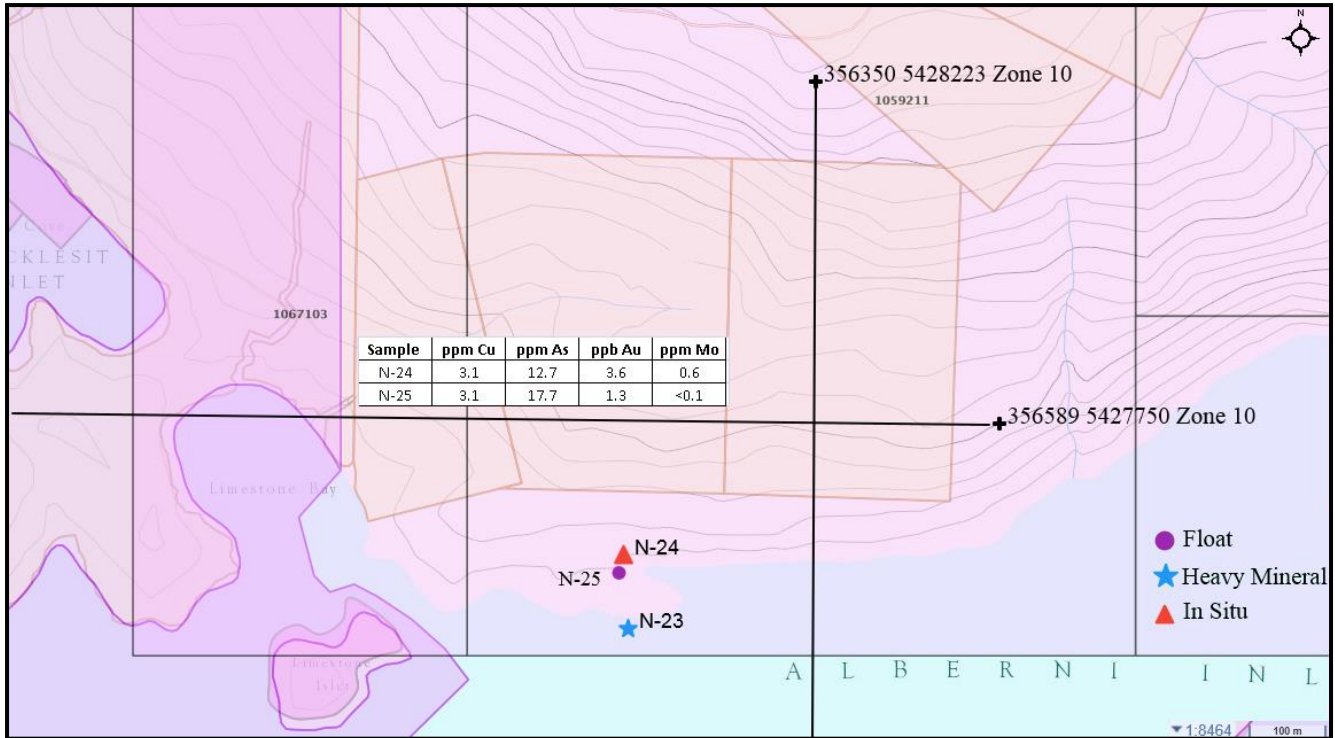
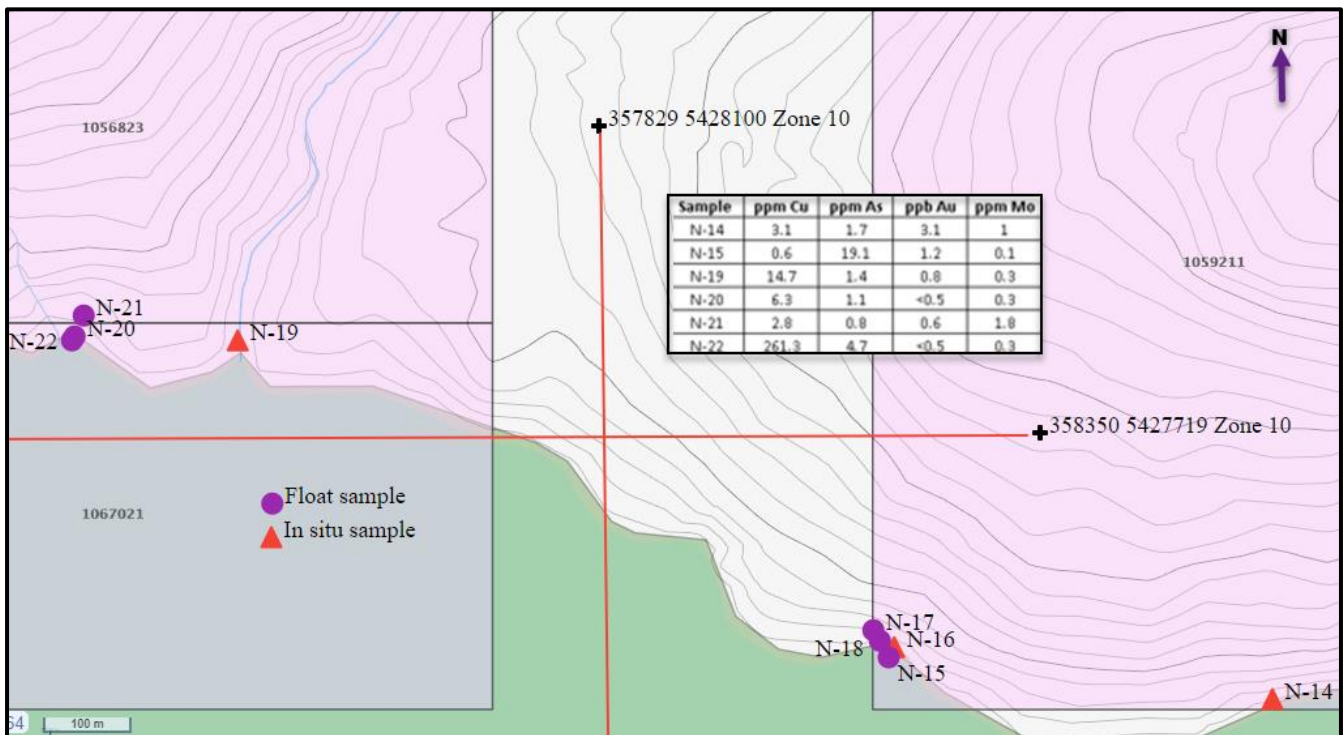


Figure 7. West sample locations\*  
(Base map from MapPlace)



\*see Figure 6a for location on Nahmint Property. See Appendix 1 for all assay values.

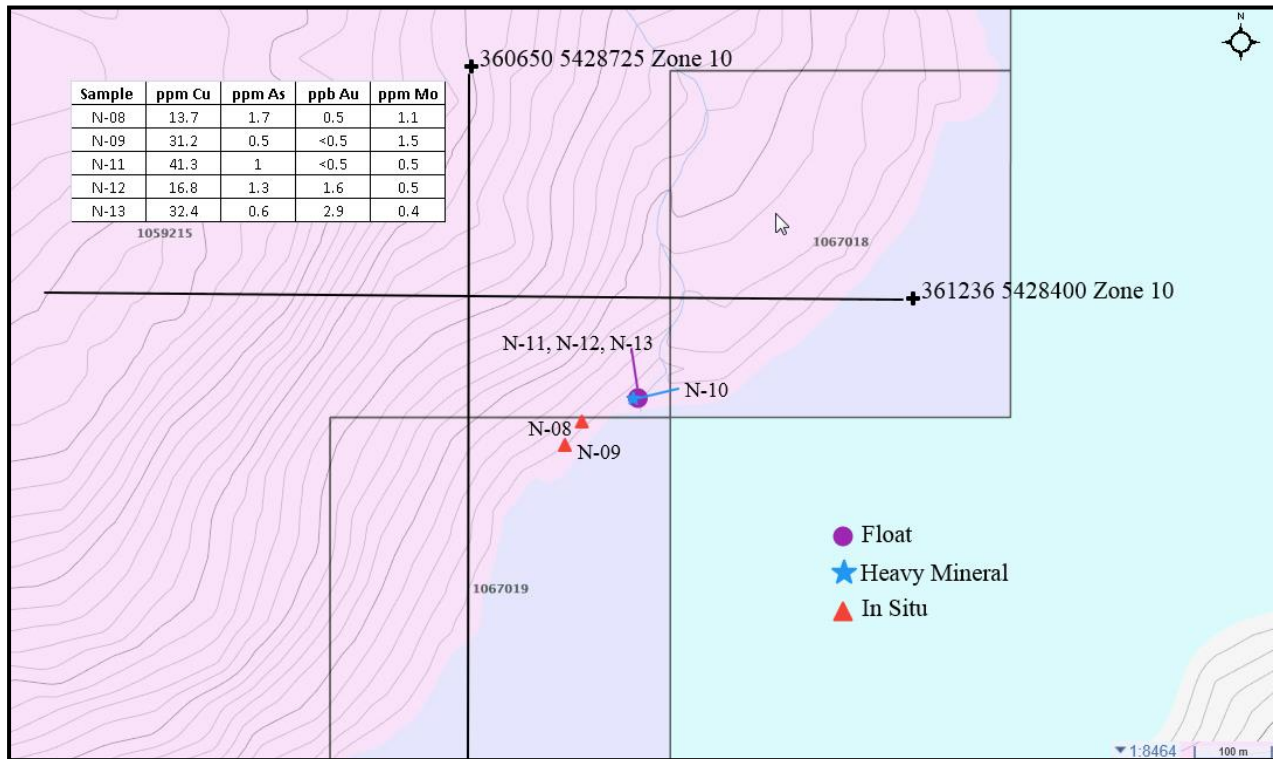
Figure 8. Southwest sample locations\*  
(Base map from MapPlace)



\*see Figure 6a for location on Nahmint Property. See Appendix 1 for all assay values.

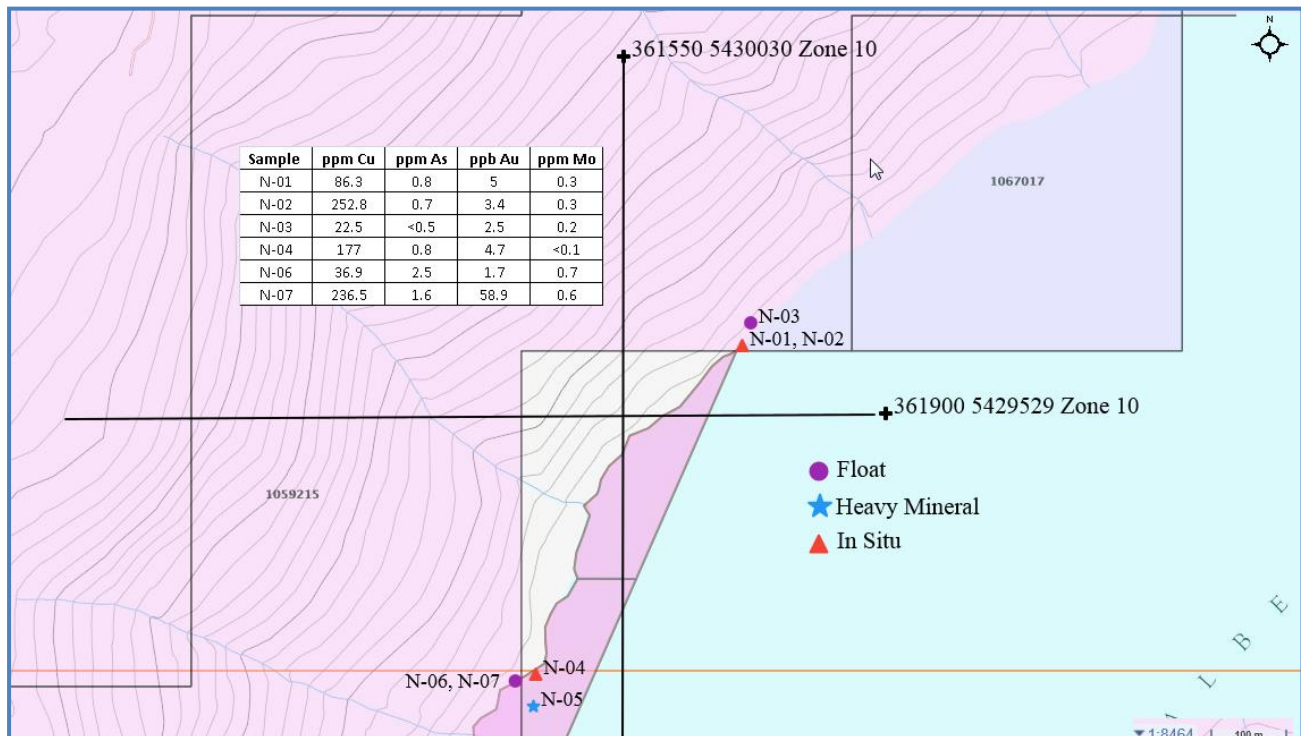
2018 Exploration Program (cont'd)

Figure 9. Mid Sample locations\*  
(Base map from MapPlace)



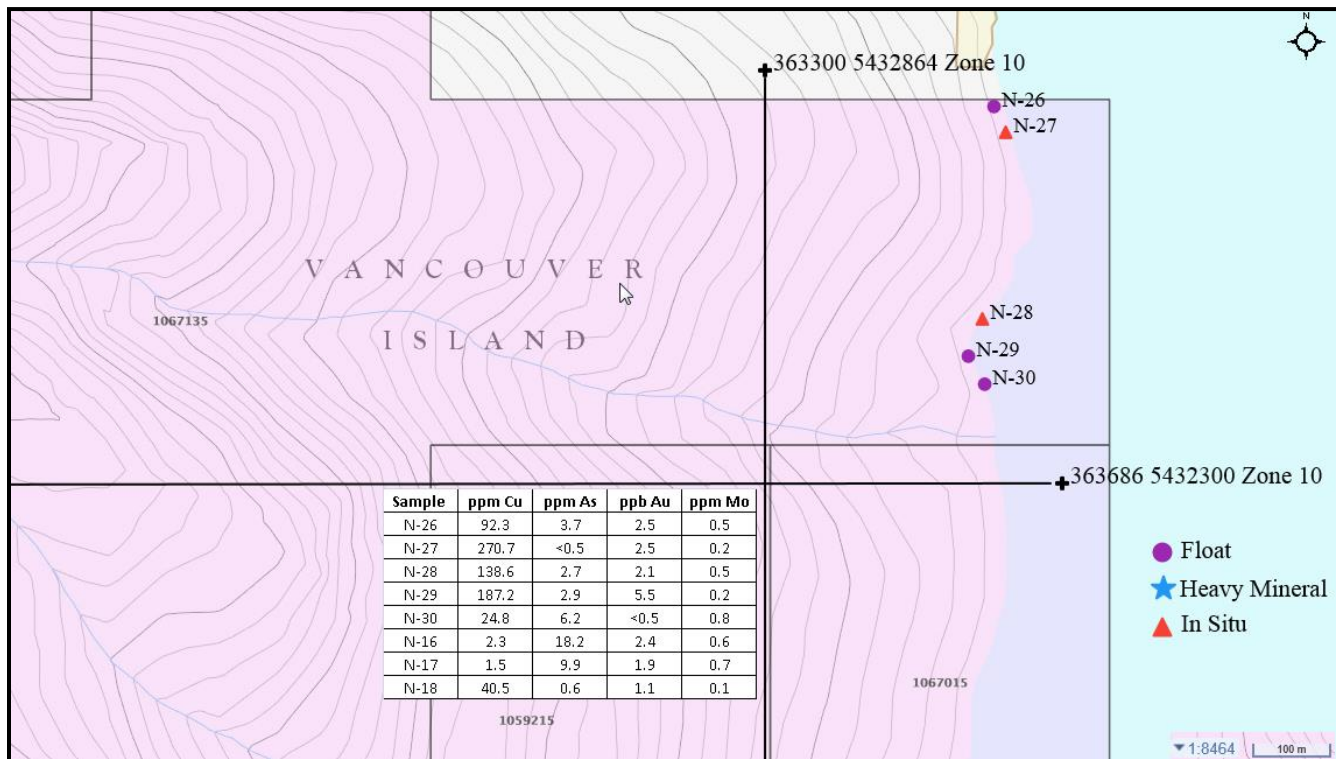
\*see Figure 6a for location on Nahmint Property. See Appendix 1 for all assay values.

Figure 10. Northeast sample locations\*  
(Base map from MapPlace)



\*see Figure 6a for location on Nahmint Property. See Appendix 1 for all assay values.

Figure 11. North sample locations\*  
(Base map from MapPlace)



\*see Figure 6a for location on Nahmint Property. See Appendix 1 for all assay values.

**STRUCTURAL ANALYSIS**

**a) Purpose**

The purpose of the structural analysis was to delineate any area of relative major fault intersections that could be the centre of maximum brecciation and be depth intensive to provide the most favourable feeder zone to any residual fluids from a potentially mineral laden reservoir source.

**b) Method**

A shaded relief image for Tenure 1059211 of the Nahmint property was obtained from MapPlace2. The shaded relief image provided by MapPlace2 uses a single direction of light oriented at 325°N to create its shading and does not represent a composite image composed of multiple light directions. The DEM image was examined and lineaments were delineated manually. The manually defined lineaments defined from a shaded relief image can represent joints, faults or shear zones. Professional experience was used to define all lineaments, primary structures and prospective areas shown in Figure 12.

**c) Results**

One cross-structural location A, was delineated from indicated northerly, northwesterly, and northeasterly trending structures.



2018 Exploration Program (cont'd)

Figure 12. Indicated lineaments on Tenure 1059211  
(Base map: MapPlace & Google)

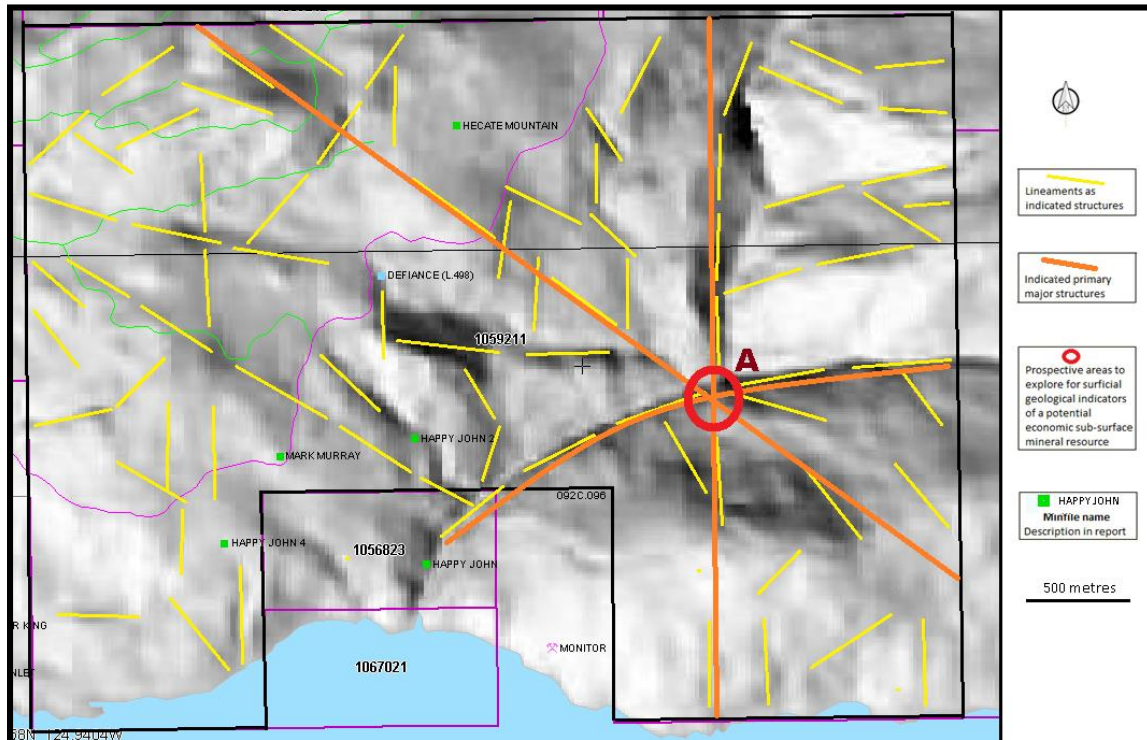
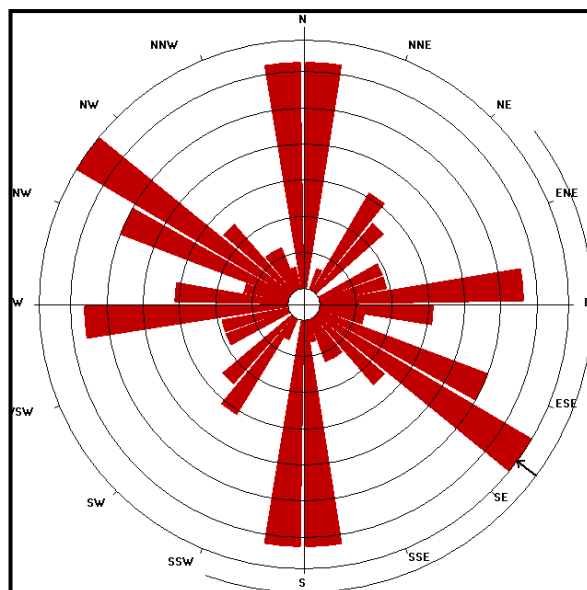


Table 2. Approximate location of the cross-structure

(UTM-10U NAD 83)

Cross-structure	UTM East	UTM North	Elevation (m)
A	358,651	5,428,762	85

Figure 19. Rose Diagram from lineaments



## STATISTICS

Axial (non-polar) data

(von Mises concentration param. estimate)

No. of Data = 80

Sector angle = 10°

Resultant length = 11.72

Scale: tick interval = 2% [1.6 data]

Mean Resultant length = 0.1465

Maximum = 13.8% [11 data]

Mean Resultant dir'n = 126-306

'Mean' Moments: Cbar = -0.0436; Sbar = -0.1399

[Approx. 95% Confidence interval = ±73.4°]

'Full' trig. sums: SumCos = -3.4848; Sbar = -11.1917

(valid only for unimodal data)

Mean Resultant dir'n = 126.4 - 306.4

Mean resultant of doubled angles = 0.1793

Circ.Median = 126.0 - 306.0

Mean direction of doubled angles = 021

Circ.Mean Dev.about median = 39.0°

Circ. Variance = 0.38

(Usage references: Mardia & Jupp,

Circular Std.Dev. = 56.15°

'Directional Statistics', 1999, Wiley;

Circ. Dispersion = 19.12

Fisher, 'Statistical Analysis of Circular Data', 1993, Cambridge University Press)

Circ.Std Error = 0.4888

Note: The 95% confidence calculation uses

Circ.Skewness = -0.74

Fisher's (1993) 'large-sample method'

Circ.Kurtosis = -1.28

kappa = 0.30

## INTERPRETATION, CONCLUSIONS, and RECOMMENDATIONS

The 2018 exploration program of sampling, and prospecting exploration program on the Nahmint Property was successful in that samples were obtained from locations that may indicate the surficial geological expression of a mineral potential skarn, or related mineral resource as a porphyry which may have been the source of the mineralizing fluids which form the seven skarn zones on the Nahmint property.

The sample results from sample N-22 within the Southwest zone, samples N-02 and N-07 from the Northeast zone, and samples N-27, N-28, N-29 from the North zone, with the elevated copper values and sporadically elevated gold, arsenic, and molybdenum values, possibly indicate the surficial migration of hydrothermal fluids from a developing porphyry.

An example of a skarn to porphyry mine is in one of the largest porphyry copper mines in Mexico, the Cananea, which was mined as a skarn at the surface and developed to a porphyry mine to depth,

*"The Cananea mine in Sonora is Mexico's largest open pit copper mine, one of the largest in the world and – having opened in 1899 – one of the oldest on the North American continent"*

<https://www.mining-technology.com/projects/cananaecoppermine/>



[https://ca.images.search.yahoo.com/search/images?p=cananea+copper+mine&fr=crmas&imgurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina\\_de\\_cobre.jpg#id=1&iurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina\\_de\\_cobre.jpg&action=click](https://ca.images.search.yahoo.com/search/images?p=cananea+copper+mine&fr=crmas&imgurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina_de_cobre.jpg#id=1&iurl=http%3A%2F%2Fgeo-mexico.com%2Fwp-content%2Fuploads%2F2014%2F09%2Fsonora-cananea-mina_de_cobre.jpg&action=click)

The one cross-structure area is a location where surficial indications of a deep-seated porphyry may be revealed in the geology, alteration, and pathfinder minerals. In addition, the sample locations of elevated copper, gold, molybdenum, and arsenic should be prospected to determine the causative source of these anomalous mineral values.

Respectfully submitted  
Sookochoff Consultants Inc.



Laurence Sookochoff, PEng

**SELECTED REFERENCES**

Borovic, I. 1988 - Report on the Mineral Exploration of the Gold Nugget Property for Barona Resources Limited. April 20, 1988. AR 17714.

Coffin, D. 1989 - Assessment Report on the Gold Nugget Property for Barona Resources Ltd. November 25, 1989. AR 19485.

Coffin, D. 1989 - Assessment Report on the Liquid Sunshine Property for Nitro Resources Ltd. November 25, 1989. AR 19484.

Falconer, J.S., Graham, J.C., et al. 1986 - Reconnaissance Surveys on the Liquid Sunshine Group of Mineral Claims for Chelan Resources Incorporated. 16 July 1986. AR 15199.

Houle, J. 2010 - Technical Report on the Nahmint Property for Nahminto Resources Ltd. October 15, 2010. AR 31708.

Houle, J. 2009 - Technical Report on the Nahmint Property for Torch River Resources Ltd. February 9, 2009. AR 30799.

Houle, J. 2008 - Prospecting, Rock Sampling and Geochemistry on the Nahmint Property for Nahminto Resources Ltd. January 22, 2008. AR 29660.

Houle, J. 2007 - Prospecting, Geological Mapping, Rock Sampling and Geochemistry on Portions of the Nahmint Property for Nahminto Resources Ltd. August 15, 2007. AR 29252.

Lenntech-Heavy Metals:

<https://www.lenntech.com/processes/heavy/heavy-metals/heavy-metals.htm>

MapPlace – Map downloads

MtOnline - MINFILE downloads.

**STATEMENT OF COSTS**

Field work was performed on the Nahmint Property between March 6, 2019 and March 9, 2019 to the value as follows:

**Structural Analysis**

L. Sookochoff, PEng March 6-9, 2019

3 days @ \$1,200.00 ----- \$ 3,600.00

**Prospecting and Sampling****Labour**

L. Bradshaw: March 7-8, 2019

2 days @ \$300.00/day ----- 600.00

B. McKinney: March 7-9, 2019

3 days @ \$450.00/day ----- 1,350.00 1,950.00

**Travel/Transportation**

Vancouver to Port Alberni

1,1600 kilometres @ \$0.68 ----- 788.80

**Exploration Equipment**

GPS, clinometer, electronics VHF radios, etc 40.00

Spot Locator's safety equipment and supplies - 40.00

Bear spray, axes, mallets, pry bars, etc ----- 40.00

Chainsaw ----- 40.00 160.00

**Food/Lodging**

4 man days @ \$ 125.00 ----- 500.00

Assays ----- 734.00

Ferry and Boat Charter ----- 749.20

**Consulting and Sample Description**

S. Jackson PhD, PGeo ----- 750.00

**Report**

L. Sookochoff, PEng ----- 3,400.00 4,150.00

Maps ----- 500.00

\$ 13,132.80

=====

**CERTIFICATE**

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist and principal of Sookochoff Consultants Inc. with an address at 120 125A-1030 Denman Street, Vancouver, BC V6G 2M6.

I, Laurence Sookochoff, further certify that:

- 1) I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
- 2) I have been practicing my profession for the past fifty-three years.
- 3) I am registered and in good standing with the Engineers and Geoscientists British Columbia.
- 4) The information for this report is based on information as itemized in the Selected Reference section of this report, from exploration work done in the Nahmint Property area.
- 5) I have no interest in the Nahmint Property as described herein.



Laurence Sookochoff, P. Eng.

**FIELD CREW QUALIFICATIONS**

Bill McKinney: 10 years prospecting experience.

Lance Bradshaw: five years prospecting experience.

*Appendix I*

**Sample Assays**

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**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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

**Client:** **McKinney, Bill**  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7 Canada

Submitted By: William Mckinney  
Receiving Lab: Canada-Vancouver  
Received: April 08, 2019  
Report Date: April 12, 2019  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19000784.1

## CLIENT JOB INFORMATION

Project: Nahmint  
Shipment ID:  
P.O. Number  
Number of Samples: 8

## SAMPLE DISPOSAL

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

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

Invoice To: McKinney, Bill  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
BAT01	1	Batch charge of <20 samples			VAN
PRP70-250	8	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ200	8	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

## ADDITIONAL COMMENTS

  
KERRY JAY  
Geochem Project Specialist

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



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**Client:** **McKinney, Bill**  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7 Canada

**Project:** Nahmint  
**Report Date:** April 12, 2019

**Page:** 2 of 2

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

**VAN19000784.1**

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
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	1	0.01	0.001	
N-19-02	Rock	0.30	0.3	252.8	1.1	66	<0.1	79.7	38.7	830	6.50	0.7	3.4	0.3	84	<0.1	<0.1	<0.1	278	4.92	0.050
N-19-03	Rock	0.31	0.2	22.5	0.3	56	<0.1	53.2	26.6	434	4.59	<0.5	2.5	0.4	70	<0.1	<0.1	<0.1	179	2.59	0.043
N-19-08	Rock	0.26	1.1	13.7	4.8	54	<0.1	4.9	7.4	411	2.01	1.7	0.5	2.7	46	<0.1	0.1	<0.1	31	0.51	0.050
N-19-09	Rock	0.43	1.5	31.2	4.1	72	<0.1	5.2	8.9	656	2.56	0.5	<0.5	3.2	22	<0.1	<0.1	0.3	25	0.49	0.067
N-19-16	Rock	0.41	0.6	2.3	1.7	27	<0.1	0.6	0.7	765	0.40	18.2	2.4	<0.1	786	0.4	0.1	<0.1	3	33.40	0.030
N-19-18	Rock	0.36	0.1	40.5	1.0	29	<0.1	38.8	7.6	418	2.12	0.6	1.1	0.2	67	<0.1	<0.1	<0.1	113	2.05	0.114
N-19-27	Rock	0.46	0.2	270.7	0.9	73	<0.1	40.3	27.0	711	5.45	<0.5	2.5	0.3	54	<0.1	<0.1	<0.1	194	1.34	0.059
N-19-30	Rock	0.49	0.8	24.8	2.0	31	<0.1	30.9	5.6	474	1.84	6.2	<0.5	0.6	35	<0.1	<0.1	<0.1	34	4.30	0.052



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**Client: McKinney, Bill**  
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Project: Nahmint  
Report Date: April 12, 2019

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

**VAN19000784.1**

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		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		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	
N-19-02	Rock	4	114	2.78	15	0.479	<20	5.27	0.448	0.04	<0.1	0.01	20.8	<0.1	<0.05	12	<0.5	<0.2
N-19-03	Rock	3	44	1.63	17	0.428	<20	4.35	0.479	0.06	<0.1	<0.01	4.5	<0.1	<0.05	10	<0.5	<0.2
N-19-08	Rock	6	11	0.65	16	0.132	<20	1.10	0.100	0.08	0.3	0.03	3.5	<0.1	0.11	4	<0.5	<0.2
N-19-09	Rock	8	11	0.80	61	0.103	<20	1.20	0.063	0.20	0.2	0.02	3.3	<0.1	0.69	4	0.6	0.2
N-19-16	Rock	<1	<1	0.21	2	0.006	<20	0.17	0.003	0.01	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
N-19-18	Rock	2	92	1.50	46	0.586	27	2.17	0.206	0.19	<0.1	<0.01	9.2	<0.1	<0.05	5	<0.5	<0.2
N-19-27	Rock	5	20	1.52	12	0.445	<20	2.60	0.122	0.05	<0.1	<0.01	6.6	<0.1	<0.05	12	<0.5	<0.2
N-19-30	Rock	3	5	0.30	69	0.227	<20	3.28	0.105	0.03	0.1	0.01	10.4	<0.1	<0.05	7	<0.5	<0.2



# QUALITY CONTROL REPORT

VAN19000784.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
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	1	0.01	0.001	
Pulp Duplicates																					
N-19-16	Rock	0.41	0.6	2.3	1.7	27	<0.1	0.6	0.7	765	0.40	18.2	2.4	<0.1	786	0.4	0.1	<0.1	3	33.40	0.030
REP N-19-16	QC		0.7	2.0	1.6	26	<0.1	0.3	0.7	770	0.40	16.9	2.8	<0.1	788	0.4	0.1	<0.1	3	33.64	0.030
Reference Materials																					
STD DS11	Standard		15.4	149.3	133.7	330	1.9	82.3	13.7	954	3.06	46.1	57.4	7.7	66	2.7	7.7	12.2	48	1.04	0.071
STD OREAS262	Standard		0.7	112.1	54.5	145	0.5	62.9	25.6	526	3.14	36.3	73.7	9.1	35	0.7	3.8	1.1	21	2.92	0.042
STD DS11 Expected			13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	3.39	1.03	22.5	2.98	0.04
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	<1	<0.01	<0.001
Prep Wash																					
ROCK-VAN	Prep Blank		0.8	3.6	0.7	31	<0.1	0.8	3.5	515	1.86	<0.5	<0.5	2.4	18	<0.1	<0.1	<0.1	22	0.56	0.045



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**Client: McKinney, Bill**  
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Project: Nahmint  
Report Date: April 12, 2019

Page: 1 of 1

Part: 2 of 2

# QUALITY CONTROL REPORT

**VAN19000784.1**

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		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		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																		
N-19-16	Rock	<1	<1	0.21	2	0.006	<20	0.17	0.003	0.01	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
REP N-19-16	QC	<1	<1	0.21	2	0.006	<20	0.17	0.004	0.01	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	19	60	0.83	423	0.095	<20	1.17	0.072	0.39	2.7	0.25	3.2	4.9	0.27	5	1.9	4.5
STD OREAS262	Standard	16	42	1.12	248	0.004	<20	1.22	0.067	0.30	0.1	0.17	3.3	0.6	0.26	4	<0.5	0.3
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		15.9	41.7	1.17	248	0.003		1.204	0.071	0.312	0.13	0.17	3.24	0.47	0.253	3.73	0.4	0.23
BLK	Blank	<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
Prep Wash																		
ROCK-VAN	Prep Blank	6	4	0.51	53	0.084	<20	0.86	0.082	0.09	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2



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**Client:** **McKinney, Bill**  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7 Canada

Submitted By: William Mckinney  
Receiving Lab: Canada-Vancouver  
Received: April 24, 2019  
Report Date: April 29, 2019  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19000908.1

## CLIENT JOB INFORMATION

Project: Nahmint  
Shipment ID:  
P.O. Number  
Number of Samples: 19

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	19	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ200	19	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

## SAMPLE DISPOSAL

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

## 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: McKinney, Bill  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7  
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.



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**Client: McKinney, Bill**  
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Richmond British Columbia V7A 3W7 Canada

Project: Nahmint  
Report Date: April 29, 2019

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19000908.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
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	1	0.01	0.001	
N-19-01	Rock	0.18	0.3	86.3	0.7	66	<0.1	59.6	39.7	979	7.26	0.8	5.0	0.3	71	0.1	0.1	<0.1	211	4.05	0.047
N-19-04	Rock	0.38	<0.1	177.0	0.7	93	<0.1	88.6	45.2	1225	8.77	0.8	4.7	0.4	45	<0.1	<0.1	<0.1	270	3.71	0.073
N-19-06	Rock	0.32	0.7	36.9	3.3	37	<0.1	3.7	9.0	422	2.83	2.5	1.7	2.9	26	<0.1	0.2	<0.1	90	2.15	0.063
N-19-07	Rock	0.20	0.6	236.5	5.0	90	0.3	80.0	49.8	1434	8.09	1.6	58.9	0.5	49	0.2	0.1	0.2	293	3.99	0.070
N-19-11	Rock	0.18	0.5	41.3	3.0	53	<0.1	6.6	9.4	555	2.98	1.0	<0.5	4.0	36	<0.1	<0.1	<0.1	48	0.79	0.063
N-19-12	Rock	0.17	0.5	16.8	2.8	53	<0.1	6.5	9.4	587	2.90	1.3	1.6	4.0	45	<0.1	<0.1	<0.1	43	0.75	0.061
N-19-13	Rock	0.31	0.4	32.4	1.6	95	<0.1	6.7	8.4	759	2.60	0.6	2.9	3.6	50	0.1	<0.1	<0.1	36	0.55	0.066
N-19-14	Rock	0.14	1.0	3.1	3.7	27	<0.1	1.3	2.9	337	1.82	1.7	3.1	4.3	13	<0.1	<0.1	<0.1	14	0.22	0.027
N-19-15	Rock	0.22	0.1	0.6	0.4	1	<0.1	0.8	<0.1	759	0.14	19.1	1.2	<0.1	868	<0.1	<0.1	<0.1	<1	39.26	0.018
N-19-17	Rock	0.22	0.7	1.5	0.4	2	<0.1	3.2	0.2	752	0.29	9.9	1.9	<0.1	893	<0.1	<0.1	<0.1	<1	38.23	0.028
N-19-19	Rock	0.25	0.3	14.7	1.2	35	<0.1	0.8	7.7	942	3.29	1.4	0.8	1.1	50	<0.1	<0.1	<0.1	22	0.88	0.131
N-19-20	Rock	0.15	0.3	6.3	1.2	30	<0.1	1.1	9.1	746	3.21	1.1	<0.5	1.2	53	<0.1	<0.1	<0.1	27	0.93	0.121
N-19-21	Rock	0.16	1.8	2.8	1.8	19	<0.1	1.7	4.3	333	2.07	0.8	0.6	2.0	90	<0.1	<0.1	<0.1	17	1.18	0.055
N-19-22	Rock	0.21	0.3	261.3	0.6	30	<0.1	22.1	8.9	345	1.93	4.7	<0.5	<0.1	23	<0.1	0.1	<0.1	55	0.56	0.009
N-19-24	Rock	0.41	0.6	3.1	1.7	107	<0.1	23.4	25.0	3197	5.57	12.7	3.6	0.5	35	0.1	<0.1	<0.1	197	1.84	0.085
N-19-25	Rock	0.24	<0.1	3.1	10.6	131	<0.1	67.4	21.7	1642	3.76	17.7	1.3	0.3	276	0.9	0.6	<0.1	158	2.22	0.070
N-19-26	Rock	0.22	0.5	92.3	2.2	47	<0.1	46.0	30.2	835	6.53	3.7	2.5	0.4	28	<0.1	0.2	<0.1	183	1.09	0.077
N-19-28	Rock	0.44	0.5	136.8	1.9	17	<0.1	26.1	12.2	844	3.03	2.7	2.1	0.2	154	<0.1	0.3	<0.1	90	2.74	0.025
N-19-29	Rock	0.37	0.2	187.2	0.6	73	<0.1	101.1	32.7	764	5.34	2.9	5.5	0.5	64	0.1	0.4	<0.1	159	3.38	0.062



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**Client:** **McKinney, Bill**  
11751 Shell Rd.  
Richmond British Columbia V7A 3W7 Canada

**Project:** Nahmint  
**Report Date:** April 29, 2019

**Page:** 2 of 2

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

VAN19000908.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		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		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
N-19-01	Rock	5	50	2.48	15	0.391	<20	4.18	0.396	0.06	<0.1	<0.01	22.6	<0.1	<0.05	11	<0.5	<0.2
N-19-04	Rock	7	166	3.63	3	0.058	<20	4.62	0.049	0.02	<0.1	<0.01	28.1	<0.1	<0.05	16	<0.5	<0.2
N-19-06	Rock	11	10	0.72	53	0.167	<20	2.25	0.158	0.17	0.1	0.05	5.4	<0.1	<0.05	7	<0.5	<0.2
N-19-07	Rock	6	154	3.09	6	0.342	<20	3.61	0.099	0.02	<0.1	0.22	27.8	<0.1	0.45	13	1.1	<0.2
N-19-11	Rock	9	15	0.87	40	0.163	<20	1.54	0.141	0.18	0.3	<0.01	7.3	<0.1	<0.05	6	<0.5	<0.2
N-19-12	Rock	9	14	0.86	43	0.169	<20	1.56	0.154	0.18	0.3	<0.01	5.3	<0.1	<0.05	7	<0.5	<0.2
N-19-13	Rock	10	16	1.03	47	0.148	<20	1.63	0.085	0.19	0.2	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
N-19-14	Rock	10	4	0.37	68	0.111	<20	0.93	0.176	0.22	0.2	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
N-19-15	Rock	<1	<1	0.10	1	<0.001	<20	0.03	0.008	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
N-19-17	Rock	<1	<1	0.11	2	0.001	<20	<0.01	0.007	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
N-19-19	Rock	8	1	0.96	7	0.177	<20	1.80	0.169	0.03	0.2	<0.01	4.4	<0.1	<0.05	8	<0.5	<0.2
N-19-20	Rock	10	2	1.00	4	0.234	<20	1.86	0.205	0.02	0.2	0.01	5.6	<0.1	<0.05	7	<0.5	<0.2
N-19-21	Rock	10	4	0.60	782	0.201	<20	1.61	0.177	0.14	0.2	<0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
N-19-22	Rock	<1	46	1.02	8	0.122	<20	1.27	0.046	0.03	<0.1	<0.01	3.4	<0.1	<0.05	3	0.5	<0.2
N-19-24	Rock	5	66	3.23	15	0.271	<20	3.40	0.093	0.03	0.3	<0.01	23.9	<0.1	0.10	8	<0.5	<0.2
N-19-25	Rock	4	80	2.99	15	0.579	<20	3.08	0.034	<0.01	0.2	<0.01	16.0	<0.1	<0.05	8	<0.5	<0.2
N-19-26	Rock	6	34	1.76	11	0.588	<20	2.63	0.158	0.08	<0.1	0.02	10.9	<0.1	0.12	12	<0.5	<0.2
N-19-28	Rock	2	30	0.72	6	0.508	<20	2.03	0.010	0.02	<0.1	<0.01	8.2	<0.1	<0.05	12	<0.5	<0.2
N-19-29	Rock	5	92	2.40	27	0.644	<20	3.79	0.171	0.05	0.2	<0.01	9.0	<0.1	<0.05	16	<0.5	<0.2





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Project: Nahmint  
Report Date: April 29, 2019

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN19000908.1

Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
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	1	0.01	0.001	
Reference Materials																					
STD DS11	Standard	14.8	153.9	137.8	348	1.9	80.8	14.1	1036	3.22	46.9	86.6	7.7	69	2.2	8.0	11.1	49	1.11	0.070	
STD OREAS262	Standard	0.7	117.5	55.6	148	0.5	63.4	27.5	536	3.35	35.8	64.2	8.9	35	0.7	3.6	0.9	21	3.07	0.039	
STD DS11 Expected		13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701	
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	3.39	1.03	22.5	2.98	0.04	
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	<1	<0.01	<0.001	
Prep Wash																					
ROCK-VAN	Prep Blank	1.5	2.6	1.0	31	<0.1	1.1	4.0	569	2.04	1.1	3.5	2.9	22	<0.1	<0.1	<0.1	23	0.71	0.042	
ROCK-VAN	Prep Blank	1.6	2.5	1.0	33	<0.1	1.1	4.1	562	2.04	0.9	2.4	2.3	21	<0.1	<0.1	<0.1	23	0.71	0.041	



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Page: 1 of 1

Part: 2 of 2

**QUALITY CONTROL REPORT** **VAN19000908.1**

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		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		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	
Reference Materials																		
STD DS11	Standard	18	60	0.86	426	0.096	<20	1.21	0.073	0.41	3.1	0.25	3.2	4.9	0.28	5	2.4	4.4
STD OREAS262	Standard	16	41	1.17	244	0.003	<20	1.25	0.068	0.31	0.1	0.17	3.4	0.4	0.26	4	<0.5	0.2
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56
STD OREAS262 Expected		15.9	41.7	1.17	248	0.003		1.204	0.071	0.312	0.13	0.17	3.24	0.47	0.253	3.73	0.4	0.23
BLK	Blank	<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
Prep Wash																		
ROCK-VAN	Prep Blank	6	3	0.53	62	0.083	<20	1.00	0.131	0.13	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
ROCK-VAN	Prep Blank	5	3	0.53	55	0.083	<20	0.98	0.123	0.12	0.1	<0.01	3.0	<0.1	<0.05	4	<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.

*Appendix 2*

**Sample Locations and Descriptions**

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March

Bill McKinney

1/3

- N-19-01 - Andesite, med green, med grained, chloritized, soft (scratches) massive
- N-19-02 - Andesite <sup>figr.</sup> - dark green, fine grained, chloritized  
multiple healed fractures, no fracture filling
- N-19-03 - Andesite <sup>figr.</sup> 1 mm qtz fractures, two directions, chloritized, soft
- N-19-04 - Andesite, figr., chloritized, vuggy porosity from leaching calcite out,  
calcite or microfractures
- N-19-05 - Granular, heavy mineral from stream, granular andesite fragments  
soft, chloritized
- N-19-06 - Granodiorite - fine to med grained 1-2 mm crystals, light coloured with  
dark mafics, mafics altered to chlorite apparently  
surface irregularly leached pockety texture
- N-19-07 - Andesite, v.f. grained, soft, altered, 1 mm qtz stringer
- N-19-08 - Silicified andesite, leached vugs with qtz crusts, med gray colour  
multiple erratic leached vuggy fractures
- ASSAY -
- N-19-09 - Altered granodiorite?, light - med greenish gray, some fracturing  
and silicification.
- ASSAY -
- N-19-10 - Dark gravel, med-f. gr dark granodiorite, altered, weathered  
rubble, mafics chloritized.

1

- N-19-11 Granodiorite, fine grained, solid, unaltered, no veining 4/3  
clean and hard, mafics altered to chlorite
- N-19-12 - Granodiorite, solid, massive, fine grained, mafics  
altered to chlorite.
- N-19-13 - Granodiorite, fine grained, granular, massive, some leach  
vugs on surface, no veining.
- N-19-14 - Granodiorite, fine grained, light pink, few mafics, chloritized,  
no veining.
- N-19-15 Limestone, fine grained, l. gray, massive, minor calcite fracture  
filling
- N-19-16 Limestone, massive, l. gray, some leach vugs on surface.
- N-19-17 Limestone, l. gray, massive, multiple black hairline fractures, calcite filled
- N-19-18 Andesite - light med gray-green, altered chloritized, 0.5cm. qtz lined  
vugs, no particular veining
- N-19-19 Andesite, dark green, massive, hard, silicified?, possibly by  
dark rhyolite.
- N-19-20 Andesite, silicified, hard, dark gray, massive
- N-19-21 Silicified light grey-green, almost like ~~the~~ rhyolite,  
silicified andesite
- N-19-22 Quartz breccia, vein?, 5cm wide qtz, obscure veining  
silicified host, rubbly leached surface.
- N-19-23 - horse gravel, heavies?, rubbly granodiorite?
- N-19-24 - Silicified limestone?, could be altered fine grained andesite

N-19-25 Limestone? silicified or altered fine grained dark grey andesite or other volcanic

3/3

N-19-26 Andesite, massive (dark green to black), chloritized, scratches but not soft

N-29-27 Andesite, massive dark green grey; scratches so altered to chlorite, granular appearance

N-29-28 Granodiorite, massive, granular, medium grey colour few granular mafics, obscure.

N-29-29 - Limestone, massive, dark grey, 1-2mm carbonate filled fractures, overall brecciated appearance from multiple fracture directions

N-29-30 - Silicified rock, phylite appearance but very fine grained, parallel quartz veinlets 1-1.5mm wide giving laminated structure to specimen. Probably completely silicified limestone but not positive. Weathered appearance like weathered limestone but is completely silicified



Nahmint 2019		Event 5733643	Sample Types IS: In Situ. HM: Heavy Mineral/Dump FB: Float. POI: Point of interest/Access	
Sample	10U	10U	Type	Notes
N-19-01	361704	5429628	IS	See Jackson sample descriptions
N-19-02	361709	5429632	IS	See Jackson sample descriptions
N-19-03	361717	5429643	FB	See Jackson sample descriptions
N-19-04	361406	5429181	IS	See Jackson sample descriptions
N-19-05	361400	5429178	HM	See Jackson sample descriptions
N-19-06	361381	5429170	FB	See Jackson sample descriptions
N-19-07	361380	5429165	FB	See Jackson sample descriptions
N-19-08	360808	5428237	IS	See Jackson sample descriptions
N-19-09	360830	5428260	IS	See Jackson sample descriptions
N-19-10	360861	5428278	HM	See Jackson sample descriptions
N-19-11	360853	5428280	FB	See Jackson sample descriptions
N-19-12	360845	5428274	FB	See Jackson sample descriptions
N-19-13	360842	5428274	FB	See Jackson sample descriptions
N-19-14	358622	5427391	IS	See Jackson sample descriptions
N-19-15	358161	5427454	FB	See Jackson sample descriptions
N-19-16	358169	5427469	IS	See Jackson sample descriptions
N-19-17	358146	5427465	FB	See Jackson sample descriptions
N-19-18	358144	5427445	FB	See Jackson sample descriptions
N-19-19	357386	5427854	IS	See Jackson sample descriptions
N-19-20	357193	5427863	FB	See Jackson sample descriptions
N-19-21	357201	5427868	FB	See Jackson sample descriptions
N-19-22	357186	5427865	FB	See Jackson sample descriptions
N-19-23	356100	5427571	HM	See Jackson sample descriptions
N-19-24	356079	5427585	IS	See Jackson sample descriptions
N-19-25	356076	5427595	FB	See Jackson sample descriptions
N-19-26	363177	5431202	FB	See Jackson sample descriptions
N-19-27	363149	5431204	IS	See Jackson sample descriptions
N-19-28	363138	5431195	IS	See Jackson sample descriptions
N-19-29	363190	5431143	FB	See Jackson sample descriptions
N-19-30	363139	5431155	FB	See Jackson sample descriptions

Appendix 3

**Photos**

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Sample Site Area N-20-22



Sample Site N-02



Sample Site N23-25

