

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

TOTAL COST: \$23,073.82

AUTHOR(S): Alex Wallis, P.Geo.

SIGNATURE(S):

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

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5759346 / 2019/OCT/16

PROPERTY NAME: Safari Property

CLAIM NAME(S) (on which the work was done): 1063860, 1063862

COMMODITIES SOUGHT: copper, molybdenum, gold, silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093N 107 / 093N 077

MINING DIVISION: Omineca

NTS/BCGS: 093N06E / 093N044

LATITUDE: 55 ° 29 '21 " LONGITUDE: 125 ° 14 '21 " (at centre of work)

OWNER(S):

1) Spearmint Resources Inc.

2)

MAILING ADDRESS:

1470-701 West Georgia Street

Vancouver, BC, Canada V7Y 1C6

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

1) Spearmint Resources Inc.

2)

MAILING ADDRESS:

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

Hogem Batholith, Cretaceous Granite and Jurassic Monzonite/Monzogranite,

porphyry, epithermal, and/or polymetallic vein type precious and base metal mineralization

molybdenite, quartz veins, disseminated bornite and chalcopyrite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 5619, 07432, 07898, 07926, 28180, 31933, 32504, 34050,

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>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock 17, multi-element ICP-MS, Au fire assay	1063860, 1063862		\$15,589.01
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying 17 rock	1063860, 1063862		\$693.56
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area)</b> _____			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____	1063860, 1063862		
Other Reporting / logistics	1063860, 1063862		\$6,791.25
		<b>TOTAL COST:</b>	<b>\$23,073.82</b>

NTS 93N06 and 93N11  
Omineca Mining Division  
British Columbia, Canada

## **2019 ASSESSMENT REPORT ON THE SAFARI PROPERTY**

**Work Completed:**  
Rock Sampling

**Approximate Property Location:**  
359000 mE, 6153175 mN  
(NAD 1983 UTM Zone 10N)

**Claims:**  
1063860, 1063862

Prepared For: Spearmint Resources  
1470-701 West Georgia Street  
Vancouver, BC, Canada  
V7Y 1C6



Prepared by: APEX Geoscience Ltd.  
110-8429 24 ST NW  
Edmonton AB T6P 1L3  
Canada



Alex S. Wallis B.Sc. P. Geo.

Effective Date: December 10, 2019

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## 1 Summary

This assessment report is written to present the results of, and expenditures related to, exploration work conducted on the Safari Property (the “Property”), located within the Omineca Mining Division in northwestern British Columbia. In September 2019, Spearmint Resources Inc. (“Spearmint”) retained APEX Geoscience Ltd. (“APEX”) to conduct a surface exploration program and write an assessment report specific to the Property.

The Safari Property is located 235km north of Prince George, BC and 45km east of Takla Lake, BC. The Property is comprised of two contiguous mineral claims in one block, covering a total land area of 3,667 hectares. Spearmint Resources holds 100% interest on both Safari 1 (tenure #: 1063860) and Safari 2 (tenure #: 1063862).

Spearmint’s Safari property is located approximately 8km southwest from the Kwanika project, which is comprised of two copper-gold-silver-molybdenum deposits.

The Safari claims cover several historic MinFile occurrences, notably the Burn, Snag, Siberia showings and the North Kwanika showing. Locally, there are multiple other occurrences, primarily for copper, but also molybdenum, gold, and silver. The copper occurrences are hosted within granites and monzonites belonging to the Hogem Batholith.

Exploration began on the Safari Claims with the discovery of pyrite and molybdenite on the Burn Block of claims in 1971, along Burn Creek. Several programs of soil and stream sediment sampling were carried out between 1971 and 1980. The primary focus of these programs was molybdenum, for which a moderate Mo-in-soil anomaly was identified. A drill program was undertaken in 1972 to explore this target, with no significant results. Airborne geophysics and continued soil, stream sediment, and rock sampling was completed from 2005 to 2014.

The Safari property is within the Upper Triassic to Lower Jurassic Quesnellia Terrane (“Quesnel Trough”), comprised of a belt of Lower Mesozoic volcanic rocks and intrusions between highly deformed Proterozoic and Paleozoic strata. The Quesnellia Terrane is bounded to the west by the Pinchi fault and to the east by the Manson fault. The Quesnel Trough is host to numerous copper-gold porphyry deposits including Mt. Milligan, and Kemess South and North.

Locally, the Hogem Batholith phases of Granite and Monzonite/Monzogranite underlie the Safari claims, with very few changes in lithology across the property. The Hogem intrusives play an important role in several deposits within the Quesnel Trough. A moderate size un-named NW/SE-trending fault bisects Safari 1, though no significant displacement is mapped.

The 2019 Safari exploration program consisted of rock sampling to confirm historic showings and evaluate the Property for porphyry, epithermal, and/or polymetallic vein

type precious and base metal mineralization. A total of 17 rock samples were collected, with two returning anomalous gold and copper values. Sample 19EPP010 returned values of 0.049ppm Au, 1.03ppm Ag, and 1195ppm Cu. Sample 19EPP012 returned values of 0.281ppm Au, 2.65 ppm Ag, and 2730ppm Cu.

Additional Rock and stream sediment sampling are recommended, particularly on the Safari 2 claim. As well, detailed geologic mapping would aid future exploration targeting.

## **2 Introduction**

### **2.1 Issuer and Purpose**

This assessment report (the “Report”) is written to present the results of, and expenditures related to, exploration work conducted on the Safari Property (“Safari” or the “Property”), located within the Omineca Mining Division in northwestern British Columbia. The Property comprises 2 contiguous mineral claims, covering a combined area of 3,667 hectares. The Property is located approximately 235 km northwest of Prince George, BC and 45 km east of Takla Lake.

APEX Geoscience Ltd. (“APEX”) was retained by Spearmint Resources Inc. (“Spearmint”) during 2019 as consultants to complete a field program and a report specific to the Safari Property. The 2019 field program comprised rock sampling.

### **2.2 Authors and Site Inspection**

Mr. Alexander Wallis, Geologist of APEX and a Qualified Person, is the author of the Report. The exploration program was carried out by Mr. Edward Parker and Mr. Graham Bolt, both Geologists of APEX.

### **2.3 Sources of Information**

The author, in writing this Report, uses sources of information as listed in the references. The Report is a compilation of proprietary and publicly available information as well as information obtained during the field program. Government reports were prepared by qualified persons holding post-secondary geology, or related university degree(s), and are therefore deemed to be accurate. For those reports that were written by others, whom are not qualified persons, the information is assumed to be reasonably accurate based on data review and a property visit conducted by APEX personnel; however, they are not the basis for this Report.

### **2.4 Units of Measure**

With respect to units of measure, unless otherwise stated, this Report uses:

- Abbreviated shorthand consistent with the International System of Units (International Bureau of Weights and Measures, 2006);
- ‘Bulk’ weight is presented in both United States short tons (“tons”; 2,000 lbs or 907.2 kg) and metric tonnes (“tonnes”; 1,000 kg or 2,204.6 lbs.);
- Geographic coordinates are projected in the Universal Transverse Mercator (“UTM”) system relative to Zone 10 of the North American Datum (“NAD”) 1983; and,
- Currency in Canadian dollars (CDN\$), unless otherwise specified (e.g., U.S. dollars, US\$; Euro dollars, €).



### 3 Property Description and Location

#### 3.1 Description and Location

The Safari Property is located in central British Columbia, approximately 235 km northwest of Prince George, BC and 45 km east of Takla Lake, BC (Figure 3.1). It is situated in the Omineca Mining Division, within the 1:50,000 scale NTS (National Topographic System) map sheet 96N06 and 96N11, and is centred at approximately 359000 mE, 6153175 mN (NAD83 UTM Zone 10).

The Property comprises two contiguous mineral claims in one block, covering a total area of 3,667 hectares (Table 3.1; Figure 3.2).

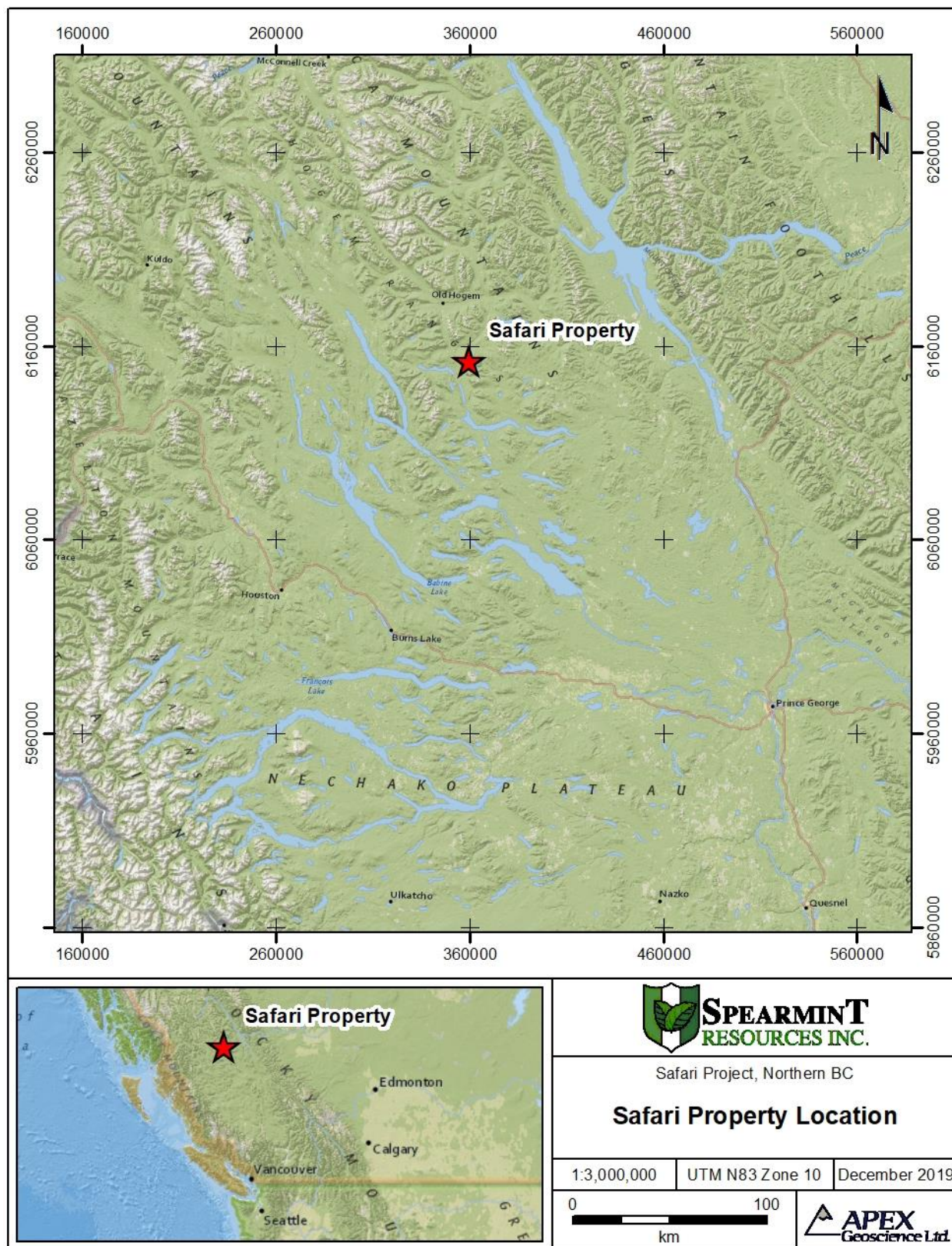
**Table 3.1. Safari Property Mineral Claim Details**

Tenure Number	Claim Name	Owner (%)	Area (ha)	Issue Date	Good to Date	New Good to Date
1063860	Safari 1	Spearmint Resources Inc. (100%)	1844.12	20181018	20191018	20210122
1063862	Safari 2	Spearmint Resources Inc. (100%)	1823.25	20181018	10191018	20210122

#### 3.2 Property Status

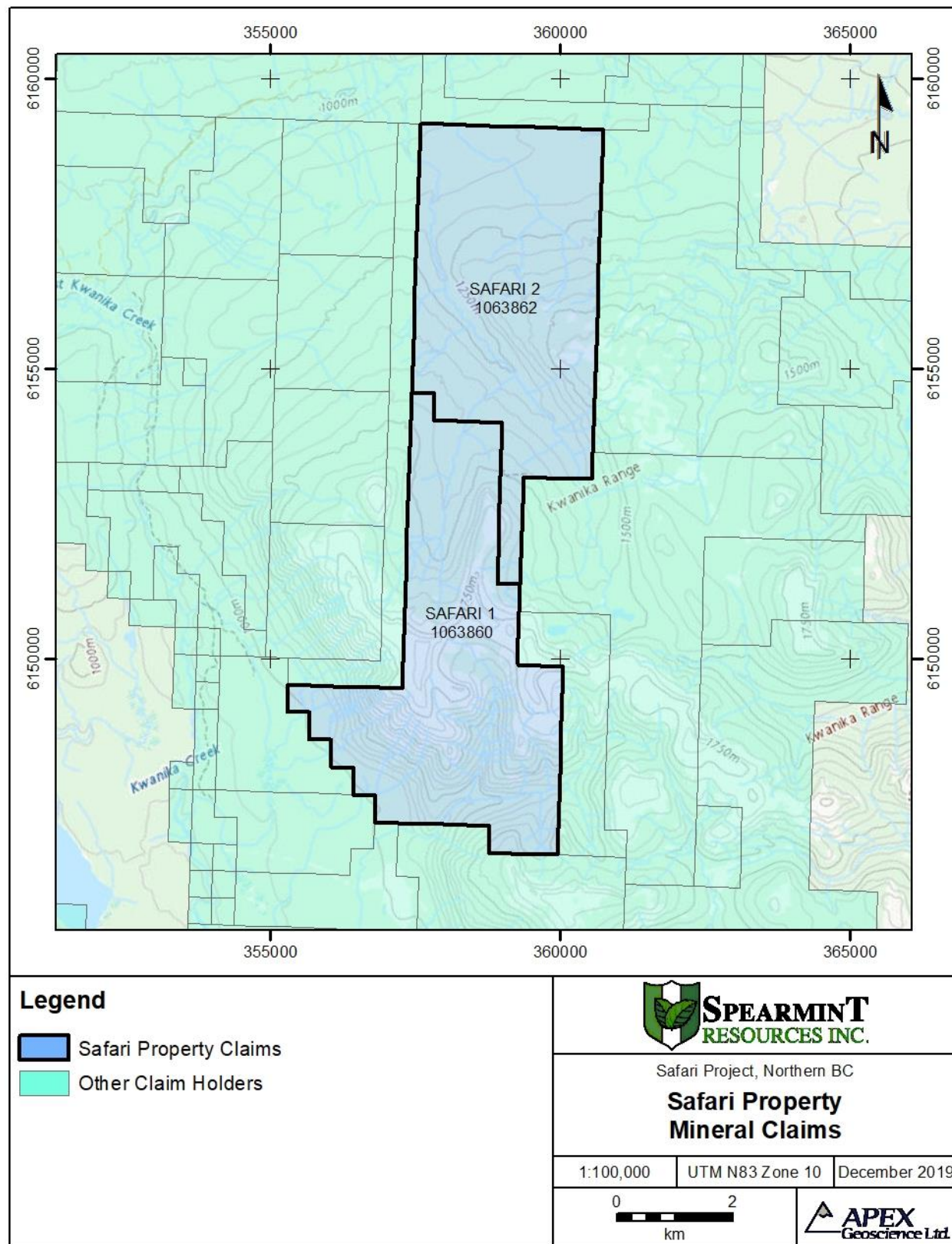
Safari 1 claim (Tenure #: 1063860) and Safari 2 claim (Tenure #: 1063862) are held 100% by Spearmint. All claims are free of any encumbrances, with tenures in good standing until the “New Good To Date” listed in Table 3.1, with the assumed acceptance of this report.

**Figure 3.1. Safari Property Location Map**





**Figure 3.2. Safari Property Claim Map**



## **4 Accessibility, Local Resources, Infrastructure, Climate and Physiography**

### **4.1 Accessibility, Local Resources and Infrastructure**

Spearmint's Safari Property is located within the Kwanika Range of the Omineca Mountains in central British Columbia. Burn Creek flows north out of the Safari 2 claim into the west-southwest flowing Kwanika Creek.

While there are several logging and mining access roads nearby, no roads currently provide direct access to the Safari claims. Several historic roads into the Burn prospect exist, but their condition is unknown and likely requires significant upgrading for use.

The only feasible way to access the Property is by helicopter. Helicopter services are available year-round in Mackenzie and Prince George. The closest airstrip is at Germansen Landing; however, the quality of the airstrip is unknown to the author. Several nearby lakes are ideal for pontoon landings, with several established aerodromes at Takla Lake (Takla Landing, 45 km west), and Tsayta Lake (20 km west). Daily commercial air service is available in Prince George.

Hotel Accommodations, groceries, camp outfitters and supplies can be acquired in either Mackenzie (135 km east) or Prince George (240 km southeast). Limited industry services are available in Prince George. Overnight transport for samples is available from Prince George to Laboratories in Kamloops or Vancouver.

### **4.2 Climate and Physiography**

The Safari Property is located within the Omineca Mountains where the topography is varied with low forested valleys and steep alpine terrain. The elevation ranges from 1000m above sea level (a.s.l.) proximal to Kwanika Creek in the north and west reaches of the Property to approximately 1850m on the ridges on the Safari 1 claim. Mature, thick forests of spruce, balsam fir, and pine fill out the lower elevations and gentle slopes. Where the slopes steepen, and above 1500m the trees thin out and are replaced by scrub brush. Higher elevations lack significant vegetation.

Safari 1 contains more mountainous terrain with several glacial cirques and ridges, with Safari 2 being comprised of the forested drainage of Burn Creek, which flows into Kwanika Creek north of the Safari 2 claim boundary.

The climate in the area is typical of northern continental regions, with cold, dry winters and moderately warm summers. Climate data gathered at Germansen Landing (approximately 50 km east) indicates temperatures vary from an average of -13.1°C in January to 14.3°C in July, however winters may reach extremes of -40°C. The region averages 553.2 mm of precipitation, with the greatest snowfall accumulation occurring in December and January with 48 cm for each month. The highest rainfall occurs in June with 67.4 mm, on average (Government of Canada, 2019)

## 5 History

### 5.1 General Area History

Mineral exploration in the Omineca district began with placer prospecting in the late 1800's, with increased interest in the area during the 1930's and 1940's with the discovery of mercury at Pinchi Lake (Bird, et al. 2019). Exploration for copper commenced in the 1960's when mineralization was discovered along Kwanika Creek. Extensive exploration was completed over the property staked as "Redton" from 1969 to 2005. Both Safari 1 and 2 were both entirely encompassed by the Redton Property. Much of the exploration on Redton was focused on the Takla-Rainbow target, a copper-gold-silver prospect located approximately 15 km north of the Safari claims (Bidwell and Worth, 2006).

Geoinformatics compiled 123 drill holes, and 24,000 geochemistry sample points from the 70,288 hectare Redton claim block. As well numerous outcrop maps, geophysical surveys and various other data was collected and reviewed. The bulk of work was carried out at the Takla-Rainbow target by Imperial Metals between 1985 and 1988, and Eastfield Resources Ltd. during 1990 and 1991 (Bidwell et al., 2009). This work included 87 diamond drill holes totalling 16,813 m, resulting in the discovery of gold mineralized quartz veins.

Recent Exploration in the area has resulted in the development of the Kwanika Copper-Gold-Silver porphyry located approximately 8 km northwest from the Safari claims. The Kwanika Project consists of two deposits with a combined Measured and Indicated resource of 223.6 million tonnes grading 0.27% copper, 0.25 g/t gold, and 0.87 g/t silver (Bird et al., 2019).

### 5.2 Property History—Previous Operators

The Spearmint Resources Safari 2 Claim block covers the original "Burn" group of claims which were staked in 1971 following the discovery of pyrite and molybdenite hosted within a granite plug. Soil and silt sampling were undertaken on an area 5000 ft by 8500 ft which recovered anomalous molybdenum and copper values (Bacon, 1971). In addition, trenching of unknown dimensions over the molybdenum anomaly and twenty miles of line-cutting were also completed to allow better access for geological mapping and magnetometer surveys.

Based on the results of the 1971 soil sampling, a 12-hole drill program was executed in 1972 totaling 5,231 feet (1,594 m). Minor disseminated molybdenite was observed; however, assay results did not return any significant values (Bacon, 1975). Following the drill program, in 1972, a soil sample grid and magnetometer survey was carried out by Dome Exploration (Canada) Ltd. over the southern portion of the Burn claims. The soil samples were taken 400 feet (122 m) apart in holes of various depth due to inconsistent glacial overburden. This soil program resulted in anomalous values for molybdenum, with minor copper anomalies. The magnetic survey confirmed a general west/northwest regional structural trend (Bacon, 1975).

During 1979, Placer Development Ltd. carried out an extensive exploration program comprising silt and soil geochemical sampling, ground geophysics, and trenches. The existing soil grid was extended 9.05 km, including two control lines on the previous grid. A total of 370 samples were collected. Additionally, 63 stream sediment samples were collected from Burn Creek and tributaries. All samples were analyzed for Mo, Cu, Zn, Pb, Ni, Co, Ag, Au, U, W and F. Six pits were also dug to a depth of 1.5 m for additional sampling. A total of 12.21 km of ground magnetics was completed, extending the 1971 survey (Hylands, 1979). The 1979 geochemical sampling did not produce any compelling drill targets, but percussion drilling was recommended along the west side of Burn Creek to test for the anomalous molybdenum results.

The recommended drilling was completed in 1980 with 7 holes totalling 650 m. Of the seven holes, only one resulted in anomalous molybdenum values, along with elevated values for silver, copper and bismuth. Hylands (1980) concluded that the percussion drilling program did not sufficiently explain the existing molybdenum soil anomaly, and further drilling to the south or west of the 1980 work area was recommended, along with a closer examination of the surface geochemistry and bedrock.

Around the same time in 1980, Placer Developments Ltd. carried out a stream sediment sampling and percussion drilling program on the “Snag” and “Siberia” claim blocks at the northern end of Burn Creek, overlapping Spearmint Resources Safari 2 Claim. The Siberia claim block was lain over Burn Creek, with the Snag block adjoining to the west. Forty-eight stream sediment samples and 3 drill holes were completed on these claims. The stream sampling returned elevated copper and silver values, with molybdenum values lower than expected. The drilling results did not intersect mineralized bedrock. The anomalous stream sediment values were believed to be sourced upstream, towards the Burn claims (Hylands, 1980).

After re-staking the claims in 2005 as part of the Redton Property (159 contiguous claims, 70,288 ha), Geoinformatics compiled the available historical data, and followed up with a brief prospecting program to confirm previously reported results. A detailed magnetic and radiometric airborne survey was flown in late 2005 (Worth and Bidwell, 2006).

In 2006, Geoinformatics undertook an extensive field program comprising detailed mapping, geochemical sampling and drilling, primarily targeting anomalies identified from the 2005 data compilation. A total of 22 targets were evaluated, with 3 tested by drilling. The bulk of the exploration in 2006 took place outside the Safari claims, however several stream and soil samples were taken on Safari 1.

An airborne EM survey was flown in 2010 across the entire Redton Property, including the Safari claim blocks. The survey covered all of Safari 1, but only the southwest portion of Safari 2 (Bidwell, 2011).

Kiska Metals Corporation (“Kiska”) acquired an 85% interest in the Redton Property in 2011 and completed an 1100 soil sample program, as well as 17 prospecting rock samples (Franz and Voordouw, 2012). The success of this soil sample warranted a follow



up soil sample program, and in 2012 568 soil samples were collected as well as reconnaissance prospecting (2 rock samples). Grid A was completed over a portion of the Safari 1 claim and the North Kwanika showing (MinFile 093N 077). The sampling resulted in the discovery of the Burn West gold anomaly, and the Burn Northwest molybdenum anomaly, as well as multiple point anomalies on the Safari 1 claim block (English, 2013).

### **5.3 Property History—Spearmin Resources Inc.**

The Safari Property was staked by Spearmin in 2018. The 2019 sampling program is the first work carried out by Spearmin Resources on the Safari claims.

## **6 Geological Setting and Mineralization**

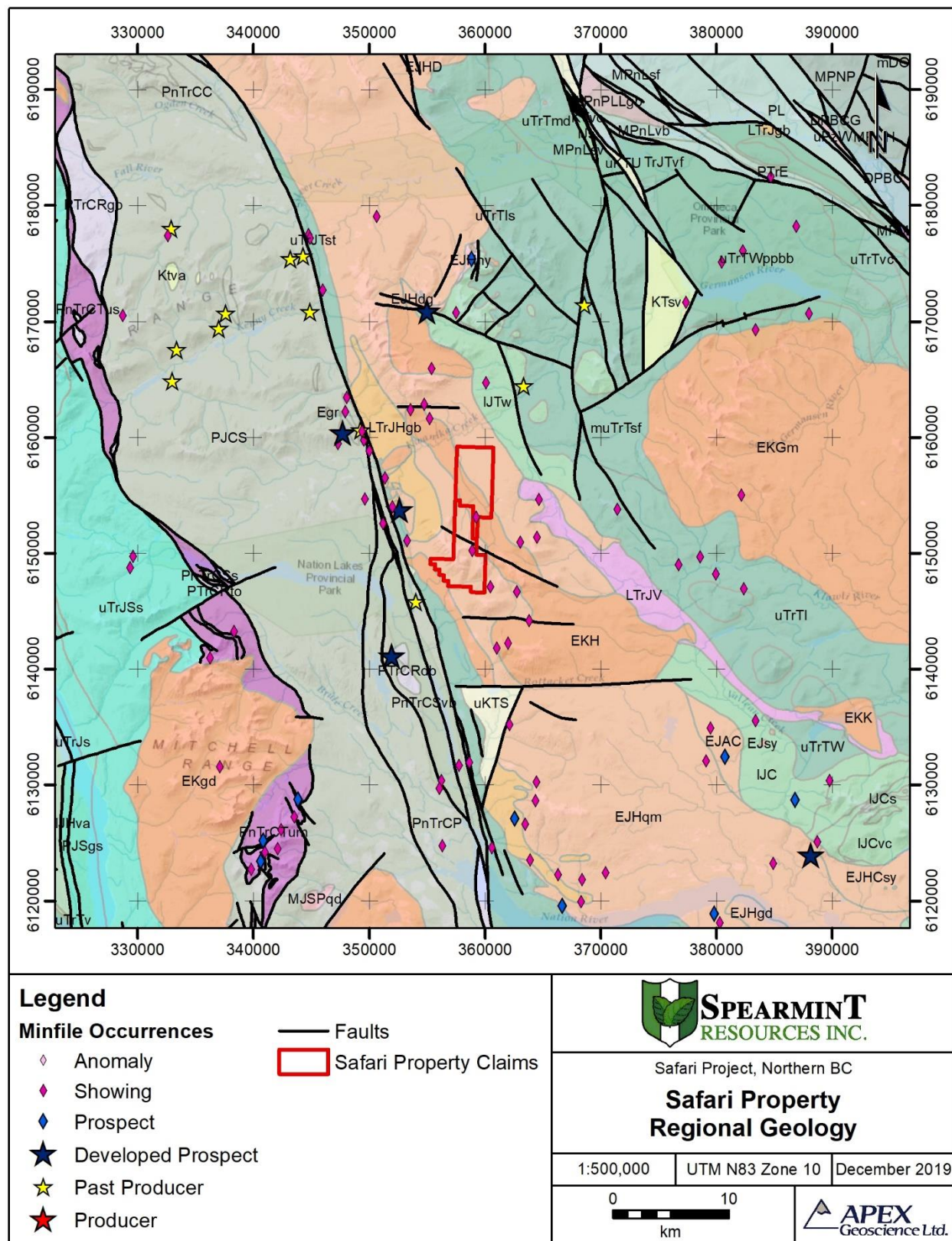
### **6.1 Regional Geology**

Detailed descriptions of the regional geology are contained in various historical reports, with the section below based on the B.C. Geological Survey Bulletin from Nelson and Bellefontaine (1996). The regional geology is presented in Figure 6.1.

The Safari Property is located within the Quesnellia Terrane, also referred to as the “Quesnel Trough”. It is dominated by Upper Triassic and Lower Jurassic island arc volcanic and sedimentary units of the Takla Group (Late Triassic), and the Chuchi Lake and Twin Creek successions (Early Jurassic). Several large intrusive units are contained within the volcanic arc sediment sequences, including the Hogem Batholith. A number of porphyry deposits and potassic-propylitic alteration zones are associated with the Hogem Batholith, occurring towards the end of the volcanic episodes of Quesnellia (Nelson and Bellefontaine, 1996).

Several significant copper-gold deposits are hosted in the Quesnel Trough, including Mt. Milligan and the Kemess North and South deposits. Of note, the Kwanika copper-gold-silver deposits are located 8 km northwest of the Safari claim block and are hosted by the same Hogem Batholith intrusive lithologies found underlying the Safari Property.

**Figure 6.1. Regional Geology (after Cui et al., 2017)**



**Geological Units****Paleogene**

 Egr Granite, alkali feldspar granite intrusive rocks

**Cretaceous to Neogene**

 uKTU Ustika Formation sedimentary rocks

 uKTS Sifton Formation sedimentary rocks


 KTvc Volcaniclastic rocks


 Ktva Andesitic volcanic rocks


 KTSv Marine sedimentary and volcanic rocks

**Cretaceous**

 EKH Hogem Plutonic Suite granite, alkali feldspar granite intrusive rocks


 EKK Klawli Pluton granite, alkali feldspar granite intrusive rocks

 EKGm Germansen Batholith granite, alkali feldspar granite intrusive rocks

 EKEH Endako Batholith - Hanson Lake Phase granodioritic intrusive rocks


 EKgd Granodioritic Intrusive rocks


**Jurassic**

 MJSPqd Spike Peak Intrusive Suite quartz dioritic intrusive rocks


 TrJTvf Takla Group rhyolite, felsic volcanic rocks


 IJHva Hazelton Group andesitic volcanic rocks

 IJCvc Chuchi Lake Succession coarse volcaniclastic and pyroclastic volcanic rocks


 IJTw Twin Creek succession undivided volcanic rocks


 IJC Chuchi Lake Succession undivided volcanic rocks

 IJCcg Chuchi Lake Succession conglomeratic sedimentary rocks


 IJCs Chuchi Lake Succession undivided sedimentary rocks


 IJs Coarse clastic sedimentary rocks


 EJAC Aplite Creek Plutonic Suite gabbroic to dioritic intrusive rocks

 EJHD Hogem Plutonic Suite - Duckling Creek Syenite Complex syenitic to monzonitic intrusive rocks

 EJHqm Hogem Plutonic Suite quartz monzonitic to monzogranitic intrusive rocks


 EJHdg Hogem Plutonic Suite monzodioritic to gabbroic intrusive rocks

 EJHCsy Hogem Plutonic Suite - Chuchi Syenite syenitic to monzonitic intrusive rocks


 EJsy Syenitic to monzonitic intrusive rocks

 EJHhy Intrusive rocks, undivided

**Triassic to Jurassic**

 uTrJSs Sitlika assemblage - Clastic Unit undivided sedimentary rocks


 uTrJTst Takla Group argillite, greywacke, wacke, conglomerate turbidites

 LTrJHgb Hogem Plutonic Suite gabbroic to dioritic intrusive rocks

 LTrJgb Gabbroic to dioritic intrusive rocks

 LTrJV Valteau Creek Plutonic Suite ultramafic rocks

**Triassic**


 uTrTWppbb Takla Group - Witch Lake Formation volcaniclastic rocks


 uTrTW Takla Group - Witch Lake Formation volcaniclastic rocks


 uTrTvc Takla Group volcaniclastic rocks

 uTrTv Takla Group undivided volcanic rocks


 uTrTIs Takla Group limestone bioherm/reef

 uTrTmd Takla Group mudstone/laminite fine clastic sedimentary rocks


 uTrTI Takla Group - Inzana Lake Formation undivided sedimentary rocks


 muTrTsf Takla Group mudstone, siltstone, shale fine clastic sedimentary rocks


**Permian to Jurassic**


 PJCS Cache Creek Complex - Sowchea Succession mudstone, siltstone, shale fine clastic sedimentary rocks

**Permian to Triassic**

 PJSgs Sitlika assemblage greenstone, greenschist metamorphic rocks


 PTrCRto Cache Creek Complex - Rubyrock Igneous Complex tonalite intrusive rocks


 PTrCRdb Cache Creek Complex - Rubyrock Igneous Complex diabase, basaltic intrusive rocks

 PTrE Evans Creek Limestone limestone, marble, calcareous sedimentary rocks


**Carboniferous to Triassic**


 PnTrCSvb Cache Creek Complex - Sowchea Succession basaltic volcanic rocks

 PnTrCC Cache Creek Complex - Copley Limestone limestone, marble, calcareous sedimentary rocks

 PnTrCSs Cache Creek Complex - Sowchea Succession undivided sedimentary rocks

 PnTrCP Cache Creek Complex - Pope Succession limestone, marble, calcareous sedimentary rocks


 PnTrCTum Cache Creek Complex - Trembleur Ultramafite Unit ultramafic rocks

 PnTrCTus Cache Creek Complex - Trembleur Ultramafite Unit serpentinite ultramafic rocks


**Carboniferous to Permian**


 LPnPLLgb Lounge Lizard Intrusive Suite gabbroic to dioritic intrusive rocks


 uPzW Wolf Ridge Gabbro dioritic intrusive rocks


 MPM Mason Lakes Ultramafics serpentinite ultramafic rocks

 MPNP Nina Creek Group - Pillow Ridge Succession basaltic volcanic rocks

 MPNH Nina Creek Group - Mt. Howell Succession mudstone, siltstone, shale fine clastic sedimentary rocks

 MPnLvb Lay Range assemblage basaltic volcanic rocks

 MPnLsf Lay Range assemblage mudstone, siltstone, shale fine clastic sedimentary rocks

 MPnLsv Lay Range assemblage marine sedimentary and volcanic rocks

**Devonian to Permian**

 DPBC Big Creek Group mudstone, siltstone, shale fine clastic sedimentary rocks

 DPBCG Big Creek Group - Gilliland Tuff dacitic volcanic rocks

## 6.2 Property Geology

At the property scale, the Safari Property is underlain by two distinct intrusive lithologies belonging to the Hogen Intrusive Suite. The Hogen Batholith is typically comprised of Jurassic monzonites along a north-northwest trend, with early Cretaceous granites intruding the older monzonite (Nelson and Bellefontaine, 1996). The alkalic porphyry copper-gold deposits in the Quesnel Trough are typically hosted by the early Jurassic components of the Hogen Intrusive Suite.

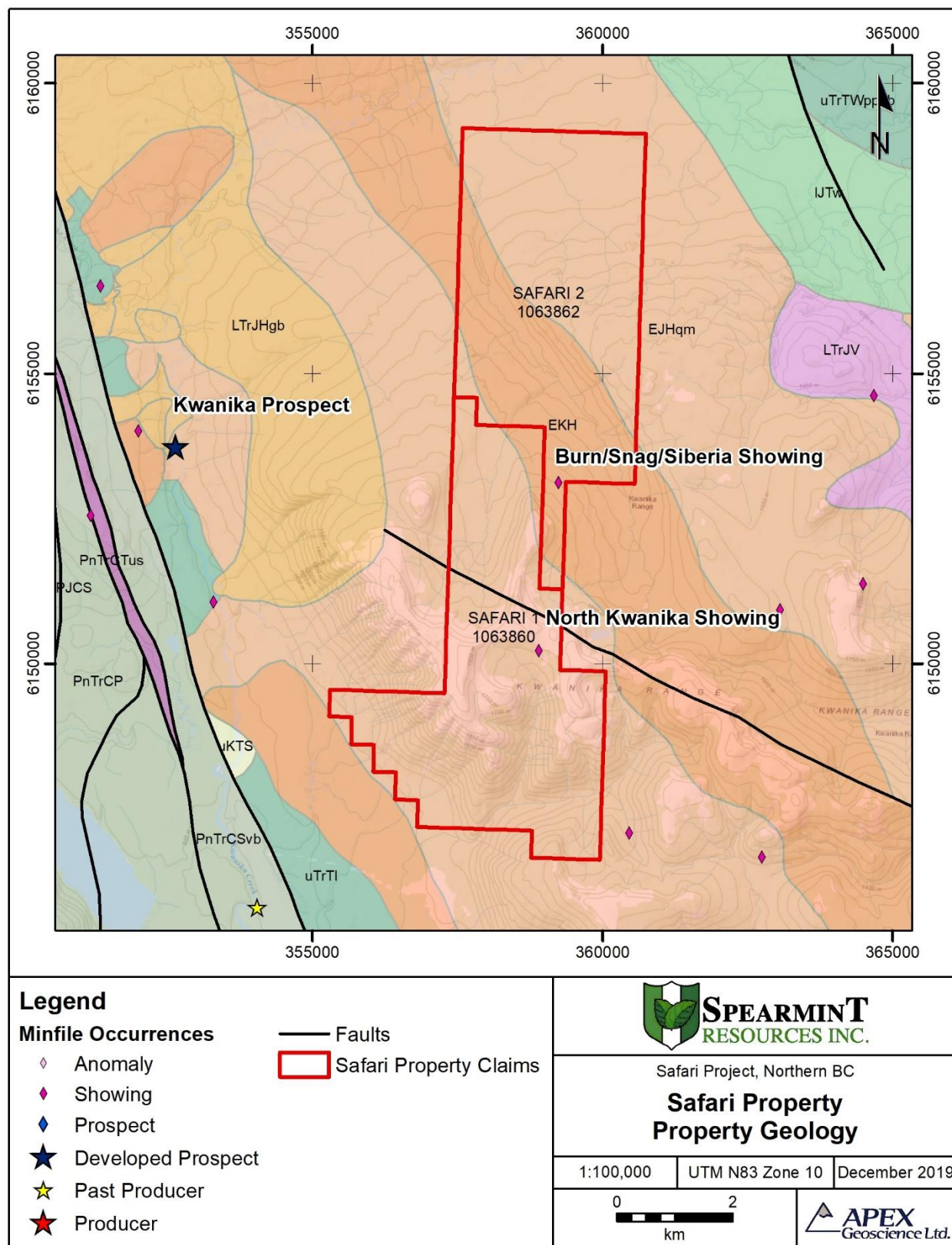
Safari 1 is underlain predominately by monzonite, with a narrow band of granite at the northeast margin of the claim. Safari 2 contains more a northwest trending band of granite contained within the monzonite, as well as phases of quartz syenite and alaskite noted within the claim boundaries (Cui et al., 2017).

Structurally, the intrusive units display a north-northwest fabric, with a regional-scale unnamed fault cutting northwest through the northern section of Safari 1. No observable offset has been mapped in relation to this fault.

Mineralization occurs as fine flakes of molybdenite disseminated within the intrusive units. Pyrite occurs as coarse to fine disseminated grains and is often associated with molybdenite. Several historic showings report quartz veins containing molybdenite concentrated near the margins of the veins (Grant 1971). At the North Kwanika showing, copper occurs as disseminated bornite and chalcopyrite.



**Figure 6.1. Property Geology (after Cui et al., 2017)**





## 7 Exploration

In September 2019, Spearmint Resources Inc. retained APEX Geoscience Ltd. to conduct a surface exploration program at their Safari Property, located 45 km east of Takla Lake, BC. The program directive was to verify previously reported results and evaluate the exploration potential of the Property with rock sampling targeting porphyry style, or polymetallic vein type precious and/or base metal mineralization. A total of 17 rock samples were collected from the Safari claims during the program (Figure 7.1).

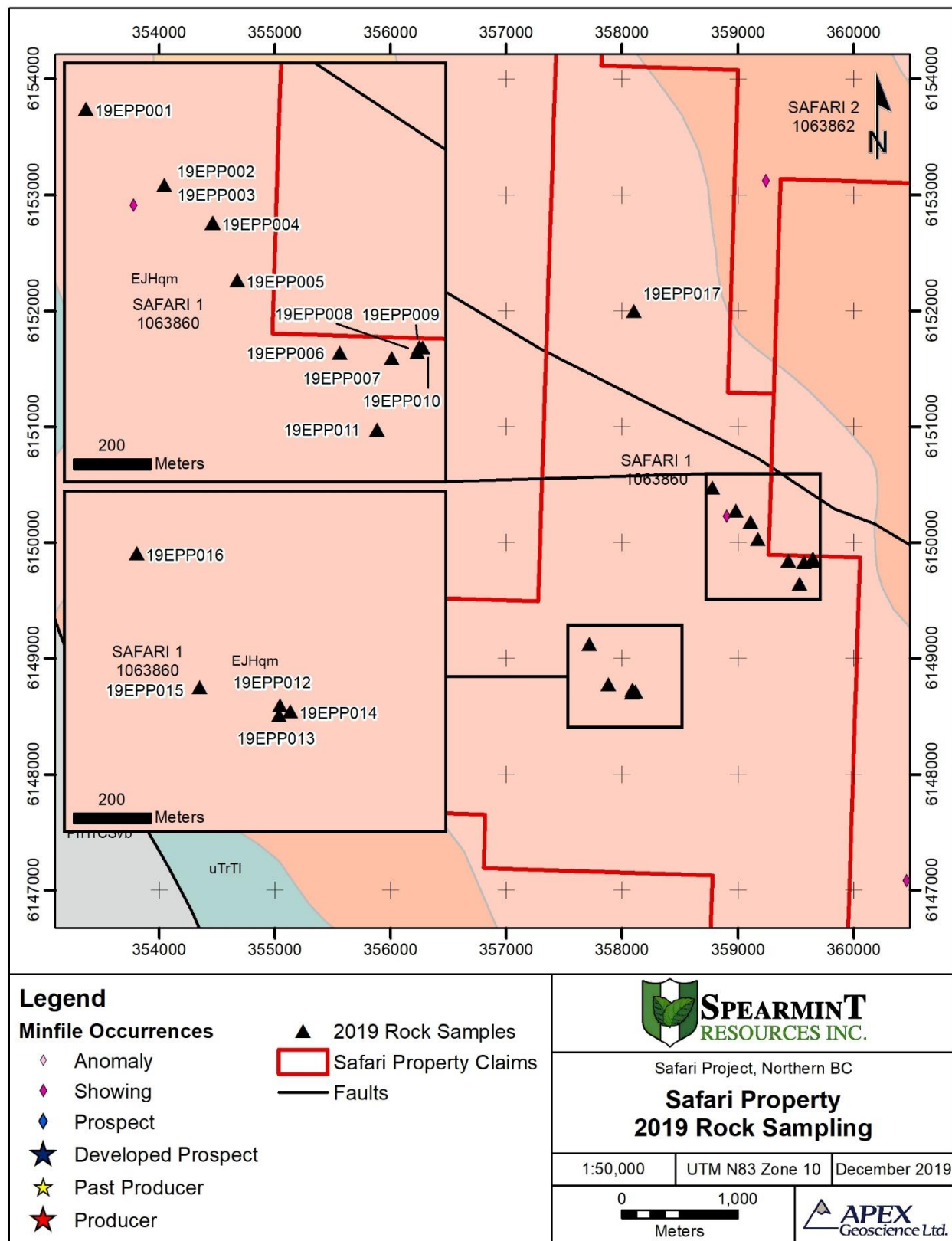
The sampling program was completed by a crew of 2 APEX personnel between September 18 and 19, 2019. The Property was access via helicopter, using a Bell 206 L3 based in Mackenzie, BC, contracted from Yellowhead Helicopters Ltd. The total cost to complete the 2019 Safari exploration program was \$23,073.82. A complete breakdown of the 2019 expenditure associated with the Safari Property is presented in Appendix 1. Personnel involved with the program are listed in Appendix 2. Rock sample descriptions can be found in Appendix 3. Full analytical results and copies of the laboratory certificates are presented in Appendix 4.

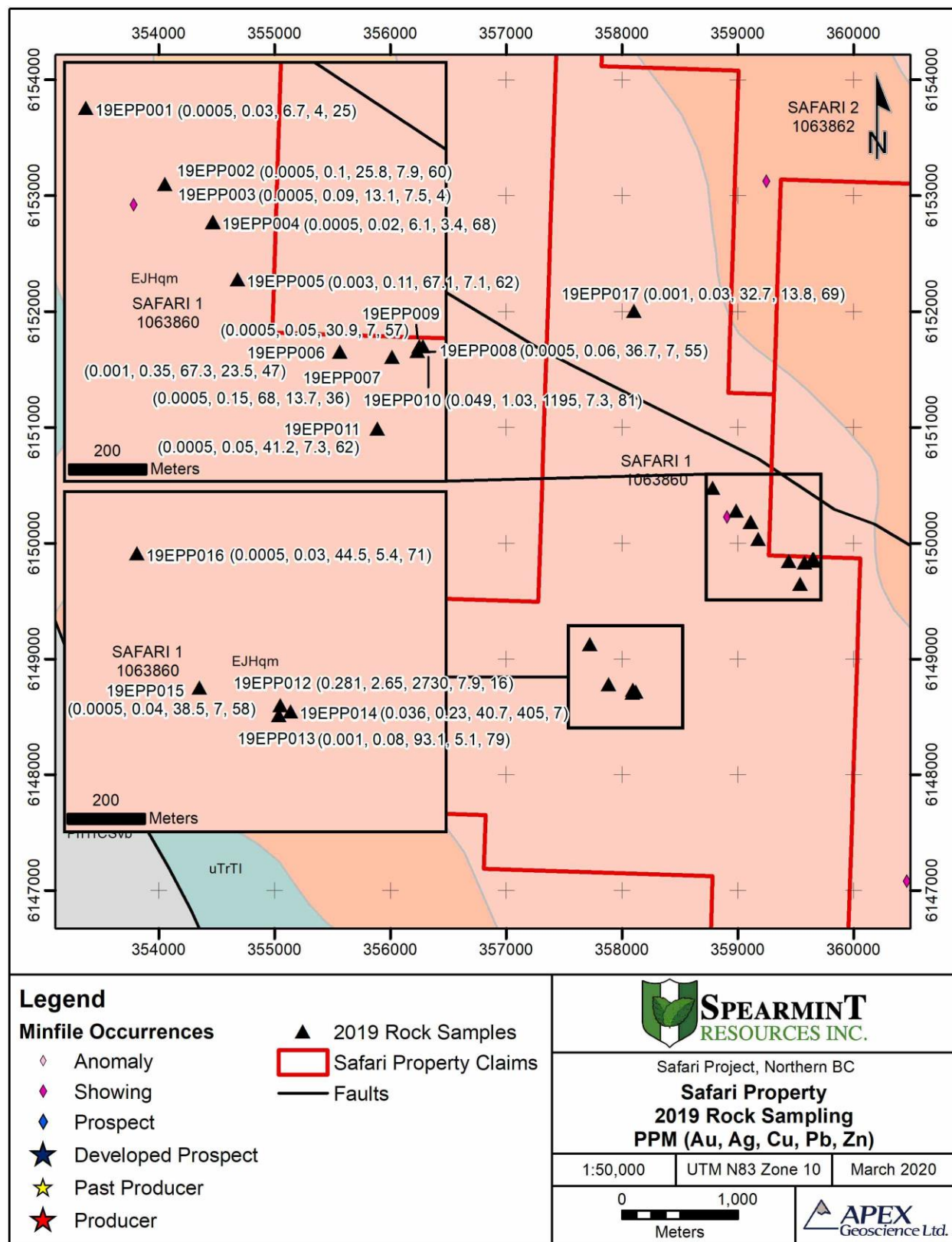
Prospecting traverses were completed along two ridge lines on the Safari 1 claim, targeting mineralized historical samples collected by Kiska Metals Corporation. Samples were taken where outcrop, sub-crop or locally derived float were observed. Samples with observed sulphidation and porphyry-related alteration were specifically targeted, as well as samples taken proximal to historic soil anomalies. Mineralization occurs in the form of quartz vein controlled pyrite and chalcopyrite sulphides in association with propylitic and potassic wall-rock alteration of the host granitoids intrusion.

Two of the 17 rock grab samples collected during 2019 returned anomalous values (Figure 7.2). Sample 19EPP010 returned values of 0.049 ppm Au, 1.03 ppm Ag, and 1195 ppm Cu. Sample 19EPP012 returned values of 0.281 ppm Au, 2.65 ppm Ag, and 2730 ppm Cu.

Due to weather conditions, field personnel were unable to reach the Safari 2 claim, which contains the Burn showing, leaving this area as a target for future exploration.

**Figure 7.1. Safari Property 2019 Rock Sampling**



**Figure 7.2. Safari Property 2019 Rock Sampling displaying Au, Ag, Cu, Pb and Zn (PPM)**

## **8 Sample Preparation, Analyses and Security**

### **8.1 Sample Collection and Security**

Seventeen samples were collected on the Safari property during the 2019 program. One representative rock sample, weighing no more than 5 kg, was collected from each sample site. Each sample was placed into a labelled plastic sample bag along with a sample tag inscribed with a unique sample number. Sample locations were marked with a handheld GPS and recorded on a sample card bearing the matching sample number. Samples were described in terms of overall lithology, mineralization, alteration, grain size, texture, veining and material sampled. These observations were recorded on the sample card and later transcribed to an Excel spreadsheet. Sample locations were marked in the field with a labelled representative sample.

Rock and stream samples were placed into woven poly (rice) bags for shipment to the analyzing laboratory. All samples remained in custody of APEX personnel until delivery to Bandstra Transportation Ltd., a commercial freight carrier, for transport to the laboratory. Security tags were utilized to ensure the bags remained intact once transferred to Bandstra. The samples were shipped from the Bandstra depot in Prince George directly to the ALS Global geochemistry laboratory in North Vancouver, British Columbia. The authors have no reason to believe that the security of the samples was compromised in any way during transport or once they entered the ALS chain of custody.

### **8.2 Sample Preparation and Analysis**

#### **8.2.1 Rock Samples**

Once received by ALS, all rock samples were individually weighed (ALS code WEI-21) and logged into the ALS global tracking system (ALS code LOG-21) and assigned bar code labels. The samples were dried prior to preparation then crushed to pass a US Standard No. 10 mesh, or 2 mm, screen (70% minimum pass) using a mechanical jaw crusher (ALS code CRU-31). The samples were then split using a riffle splitter (ALS code SPL-21), and sample splits were pulverized to pass a US Standard No. 200 mesh, or 0.075 mm, screen (85% minimum pass) using a steel ring mill (ALS code PUL-31).

The prepared rock samples were analyzed by ALS Geochemistry methods ME-MS61 (48 element by four acid digestion and ICP-MS) and Au-ICP21 (Gold by 30g fire assay and ICP-AES). For ME-MS61 analysis, a prepared sample (0.25g) is digested with perchloric, nitric and hydrofluoric acids. The residue is leached with dilute hydrochloric acid and diluted to volume. The solution is then analyzed by inductively coupled plasma mass spectrometry ICP-MS. Results are corrected for spectral interelement interferences.

For Au-ICP21 analysis, a prepared (30g) sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and the cupelled to yield a precious metal bead. The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is

added, and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted tot a total volume of 4 mL with de-mineralized water, and analyzed by ICP-AES.

### **8.3 Quality Assurance – Quality Control**

Quality assurance and quality control (QA/QC) measures at ALS include routine screentests to verify crushing and pulverizing efficiency, sample preparation duplicates (every 50 samples), and analytical quality controls (blanks, standards, and duplicates). Quality control samples are inserted with each analytical run, with the minimum number of QC samples dependant on the rack size specific to the chosen analytical method. Results for quality control samples that fall beyond the established limits are automatically red-flagged for serious failures and yellow-flagged for borderline results. Every batch of samples is subject to a dual approval and review process, both by the individual analyst and the Department Manager, before final approval and certification. ALS North Vancouver is certified with ISO/IEC 17025:2017 and ISO 9001:2015 accreditation from the Standards Council of Canada.

Due to the small number of samples, no field QA/QC standard, blank, or duplicate samples were submitted. It is the authors' opinion that the sample collection, preparation, security, analytical and QA/QC procedures were adequate for this stage of exploration at the Safari Property.

## **9 Exploration Expenditures**

The 2019 Safari Property exploration program was completed between September 18<sup>th</sup> and 19<sup>th</sup>, 2019. A total of 17 rock samples were collected. The total cost to complete the 2019 exploration program was \$23,073.82 (Appendix 1).



## 10 Interpretation and Conclusions

Rock sampling completed by Spearmint during 2019 was designed to confirm and follow up on historical results, targeting porphyry, epithermal, and/or polymetallic vein type precious and base metal mineralization within monzonites and granites of the Hogem Intrusive Suite. The Hogem Batholith hosts two porphyry deposits at Serengeti Resource Inc.'s advanced stage Kwanika Project, located 5 km west of Safari, making it an attractive target for polymetallic porphyry-type mineralization.

Two of the 17 rock grab samples collected during 2019 returned values of 0.23% and 0.14% copper; in addition to anomalous gold and silver values of 0.3 grams-per-tonne (g/t) gold, and 2.7 and 1.0 g/t silver. Mineralization occurs in the form of quartz vein controlled pyrite and chalcopyrite sulphides in association with propylitic and potassic wall-rock alteration of the host granitoids intrusion.

Results to date indicate that additional exploration work is warranted to assess the potential for a porphyry-style deposit on the under-explored Safari Property. Detailed mapping should be completed, as well as additional rock, soil and stream sediment sampling primarily targeting the Burn showing and polymetallic anomalies identified during 2011 and 2012 by Kiska.



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## 12 Certificate of Author

### 12.1 Alexander S. Wallis Certificate of Author

I, Alexander S. Wallis, P.Ge., residing in Nelson, British Columbia, do hereby certify that:

1. I am a Project Geologist of APEX Geoscience Ltd., located at 410-800 West Pender Street, Vancouver, British Columbia, Canada.
2. I am the author and responsible for all the sections of the report entitled “**2019 Assessment Report on the Safari Property**”, dated November 8, 2019 (the “Assessment Report”)
3. I am a graduate of The University of Victoria, Victoria, British Columbia with a B.Sc. in Earth and Ocean Sciences in 2013 and have practiced my profession continuously since 2010.
4. I am a Professional Geoscientist (P.Ge.) registered with Engineers and Geoscientists of British Columbia, and I am a ‘Qualified Person’ in relation to the subject matter of this Report. (#49963)
5. To the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to make the Assessment Report not misleading.
6. I consent to the filing of the Assessment Report with the regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files or their websites.

Dated this 8<sup>th</sup> Day of November, 2019  
Nelson, British Columbia, Canada

“Signed”

Alexander S. Wallis, B.Sc., P.Ge.

## Appendix 1. Statement of Expenditures

Item			Total Cost
<b>Field Personnel</b>	<b>Day Rate</b>	<b>Days (incl. travel)</b>	
Edward Parker	\$550.00	4	\$2,200.00
Graham Bolt	\$500.00	3.5	\$1,750.00
<b>Office Personnel</b>			
Office Support (Literature review, data/GIS compilation, reporting)	\$400-\$800	14.2	\$6,791.25
		<b>Personnel Sub-Total</b>	<b>\$10,741.25</b>
<b>Travel Costs</b>			
Flights, Hotel, Food, Truck Rental, Fuel (Travel costs for 2 field personnel)			\$3,633.55
		<b>Travel Sub-Total</b>	<b>\$3,633.55</b>
<b>Helicopter</b>			
Bell 206			\$7,278.04
Jet Fuel			\$848.33
		<b>Helicopter Sub-Total</b>	<b>\$8,126.37</b>
<b>Rentals</b>			
Field Equipment Rentals (GPS, compass, laptops, survival gear, etc.)			\$520.00
		<b>Rentals Sub-Total</b>	<b>\$520.00</b>
<b>Analytical</b>	<b>Rate</b>	<b>Samples</b>	
Rock Sample Analysis	\$40.80	17	\$693.56
		<b>Analytical Sub-Total</b>	<b>\$693.56</b>
<b>Supplies &amp; Freight</b>			
Sampling Supplies & Freight (Bags, sample tags, etc.)			\$184.64
		<b>Supplies &amp; Freight Sub-Total</b>	<b>\$184.64</b>
		<b>Total</b>	<b>\$23,899.37</b>

## Appendix 2. Program Personnel

### Field Personnel

Name	Position	Company	Days*	Dates Worked*
Edward Parker	Geologist	APEX Geoscience Ltd.	4	Sept 17- Sept 20
Graham Bolt	Geologist	APEX Geoscience Ltd.	3.5	Sept 17- Sept 20

\* Includes Travel Days

### Office Personnel

Name	Position	Company	Days	Approx. Dates
Christopher Livingstone	Project Geologist	APEX Geoscience Ltd.	1.7	July-November
Edward Parker	Geologist	APEX Geoscience Ltd.	1.2	August-October
Alex Wallis	Geologist	APEX Geoscience Ltd.	8.0	September-November
Shannon Frey	Geologist	APEX Geoscience Ltd.	2.2	October-November
Kris Raffle	Principal & Consultant	APEX Geoscience Ltd.	1.1	August-September

Appendix 3. Rock Sample Descriptions

Sample ID	Easting NAD83 z10	Northing NAD83 z10	Claim	Material Sampled	Relief	Lithology	Grain Size	Sulphide %	Oxidation	Sulphides (Relative %)	Alteration Type	Alteration Intensity	Veining	Magnetism	Strike	Dip	Remarks
19EPP001	358782	6150476	Safari 1	fels	low	Monzonite	coarse	tr		py: tr to .5%	potassic	minor		moderate			Coarse grained equigranular monzonite, biotite, qtz, plag with trace to .5pt. BT grains show signs of weak potassic alteration % py.
19EPP002	358986	6150279	Safari 1	fels	low	Diorite	coarse		tr		propylitic	minor	moderate	moderate			Coarse grained equigranular diorite. Weak propylitic alteration. 2-3cm wide quartz vein cuts sample. Hematite observed on weathered faces.
19EPP003	359110	6150180	Safari 1	fels	mod	Quartz Vein	coarse	2		po&py:tr to 2%			high	moderate			Quartz vein fragment, sulphide observed within the quartz vein, possible magnetite observed proximal to sulphides. Vugs within the vein indicate weathering of sulphides.
19EPP004	359111	6150181	Safari 1	fels	mod	Quartz Monzonite	fine						low	none			fine grained equigranular quartz monzonite with stringer (unknown composition) with epidote alteration halo
19EPP005	359175	6150032	Safari 1	bldr	mod	Granodiorite/ Quartzite	coarse				chlorite	minor		none			Sharp contact between coarse to medium grained quartzite and granodiorite. Hematite staining observed on the quartzite. Granodiorite is coarse grained equigranular with weak chloritization.
19EPP006	359440	6149844	Safari 1	fels	mod	monzodiorite	coarse		tr	py tr	chlorite Potassic	minor		moderate			monzodiorite felsemir float. Potassic altered fragments with moderately magnetic monzodiorite. Weak chlorite alteration. Large py (possibly altered to hematite) crystal in potassic piece.
19EPP007	359575	6149831	Safari 1	fels	loq	Pegmatite	coarse							moderate			Pegmatite in stark contrast surrounding rocks which are fine grained diorites.
19EPP008	359641	6149846	Safari 1	o/c	high	pegmatite vein/ diorite	med						moderate	moderate	325	42	Medium grained equigranular diorite cut by a qtz, felds, bt pegmatite vein. Moderately magnetic, structural measurements recorded using right hand rule
19EPP009	359646	6149859	Safari 1	o/c	high	monzodiorite	fine				potassic	moderate	moderate	moderate			weakly stockworked epidote veins with ~2cm potassic halos hosted in equigranular monzodiorite, moderately magnetic.
19EPP010	359655	6149859	Safari 1	bldr	high	Monzodiorite / Qv	coarse	1		py:.5% cpy:.5%	potassic	minor	moderate	moderate			Coarse grained equigranular monzodiorite banded bt proximal to the vein (py and cpy observed along the band). Weak potassic alteration extends from the vein into the host rock.
19EPP011	359537	6149645	Safari 1	o/c	high	monzonite	med		1		potassic	moderate	low	weak			epidote vein with moderate potassic halo and trace hematite. Hosted is weakly magnetic equigranular monzonite
19EPP012	358092	6148733	Safari 1	fels	mod	Mineralizatio n	fine	10		py: 10%, cpy: trc	propylitic	moderate		none			Fine to medium grained mineralized sample. Lithology difficult to determine due to moderate to strong weathering. Sample is non magnetic in contrast to surround monzogranites.
19EPP013	358089	6148707	Safari 1			Quartz Monzonite	med				epidote and potassic	minor	low	weak			quartz monzonite with epidote veins. Epidote and weak potassic halos. Equigranular, weakly magnetic
19EPP014	358119	6148717	Safari 1	fels	mod	Quartz Vein	coarse	1	1				high	none			Coarse grained qv that cut through granomonzonite. Quartz vein appears to have bladed texture (possible boiling). Vugs observed through out indicating weathering of sulphides. Large oxides observed.
19EPP015	357883	6148779	Safari 1	o/c	high	pegmatite in monzodiorite	fine							moderate			coarse k-spar rich pegmatite in fine grained monzodiorite. Moderate to strongly magnetic and equigranular to biotite phyrlic.
19EPP016	357721	6149126	Safari 1	fels	low	Granodiorite	coarse							moderate			Coarse grained equigranular granodiorite, representative of rock surrounding a soil anomaly
19EPP017	358103	6152002	Safari 1	bldr/other	low	Monzodiorite	coarse							moderate			Follow up on soil anomaly. Boulder under moss, coarse grained, equigranular, moderately magnetic monzodiorite. Looks clean and unaltered.



Appendix 4. Rock Sample Geochemistry

Appendix 4: Rock Sample Geochemistry																											
				Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
SAMPLE ID	Easting NAD83 z10	Northing NAD83 z10	Claim	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
19EPP001	358782	6150476	Safari 1	<0.001	0.03	8.19	4.1	1240	1.26	0.33	5.17	0.05	20	17.7	3	1.3	6.7	4.99	18.65	<0.05	0.4	0.018	2.05	8.2	8.2	1.45	687
19EPP002	358986	6150279	Safari 1	<0.001	0.1	6.67	1.3	1330	0.78	0.17	4.74	0.14	20.3	26.5	109	1.18	25.8	5.24	14.15	0.06	1	0.037	3.82	8	8.1	2.75	1060
19EPP003	359110	6150180	Safari 1	<0.001	0.09	0.49	5.4	130	0.05	0.9	0.12	<0.02	1.6	1.9	15	0.2	13.1	0.51	1.48	<0.05	<0.1	<0.005	0.34	0.9	3.9	0.03	63
19EPP004	359111	6150181	Safari 1	<0.001	0.02	8.18	1.3	1170	0.86	0.02	5.54	0.12	19.25	18.5	3	0.95	6.1	5.6	18.9	<0.05	0.7	0.039	1.81	7.4	9.1	1.46	1170
19EPP005	359175	6150032	Safari 1	0.003	0.11	7.53	3.5	800	1.27	0.07	3.64	0.12	16.8	15.4	5	0.94	67.1	4.1	16.35	0.06	1	0.039	2.8	7.2	6.7	1.35	863
19EPP006	359440	6149844	Safari 1	0.001	0.35	7.1	1.5	1140	0.78	0.51	3.79	0.14	13.25	17.8	19	1.93	67.3	4.8	14.35	<0.05	0.5	0.034	3.11	5.7	13.1	1.29	723
19EPP007	359575	6149831	Safari 1	<0.001	0.15	8.48	1.6	2390	1.21	0.18	2.76	0.1	17.95	16.8	10	1.11	68	4.24	16.5	0.05	0.7	0.027	3.72	8.3	2.6	1.05	492
19EPP008	359641	6149846	Safari 1	<0.001	0.06	7.77	1.2	1130	0.82	0.08	4.38	0.07	12.25	16.9	11	1.09	36.7	4.99	14.15	0.06	0.6	0.026	3.91	5.4	11.7	1.47	925
19EPP009	359646	6149859	Safari 1	<0.001	0.05	7.83	2.2	1080	1.04	0.08	3.76	0.1	14.45	18.4	10	1.5	30.9	4.99	17.6	0.05	0.4	0.031	3.39	6	12.4	1.32	900
19EPP010	359655	6149859	Safari 1	0.049	1.03	7.36	1.6	1790	0.84	0.16	5.03	0.26	15.35	28.3	69	1.74	1195	6.33	15.4	0.05	0.8	0.064	3.87	6.6	13.7	2.46	1230
19EPP011	359537	6149645	Safari 1	<0.001	0.05	7.91	3.6	1050	0.87	0.09	5.07	0.07	22.6	20.6	5	0.82	41.2	5.59	17.55	<0.05	0.5	0.045	2.23	8.9	6.3	1.88	1160
19EPP012	358092	6148733	Safari 1	0.281	2.65	8.89	5.4	850	0.68	0.32	0.95	0.02	10.9	22.2	2	0.8	2730	7.62	19.2	0.05	0.1	0.026	3.92	4.6	9.1	0.64	323
19EPP013	358089	6148707	Safari 1	0.001	0.08	8.15	2.1	730	0.66	0.04	6.95	0.12	17.5	23.5	5	0.2	93.1	6.11	18.55	0.06	0.6	0.056	1.09	7	5	1.78	1370
19EPP014	358119	6148717	Safari 1	0.036	0.23	0.78	0.8	60	0.16	0.32	0.07	0.06	5.32	3.7	19	0.51	40.7	1.25	2.23	<0.05	<0.1	0.006	0.09	3.2	21.4	0.08	275
19EPP015	357883	6148779	Safari 1	<0.001	0.04	8.11	1.4	1750	0.85	0.04	3.95	0.07	19.4	18.4	9	1.45	38.5	4.68	18.45	0.19	0.8	0.051	4.9	8.8	5.9	1.34	989
19EPP016	357721	6149126	Safari 1	<0.001	0.03	8.62	2	1820	1.22	0.02	3.55	0.11	27.9	14.2	2	0.51	44.5	4.41	20.5	0.16	0.5	0.034	2.71	12.4	6.6	1.01	1050
19EPP017	358103	6152002	Safari 1	0.001	0.03	8.04	9.6	1550	1.3	0.04	5.24	0.15	23.3	22.7	71	0.95	32.7	5.69	20.7	0.17	0.8	0.044	2.35	10.5	11.4	1.75	1190

				ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
SAMPLE ID	Easting NAD83 z10	Northing NAD83 z10	Claim	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19EPP001	358782	6150476	Safari 1	1.24	3.17	4.2	3.7	2080	4	35.4	<0.002	<0.01	0.35	13.7	<1	0.6	1115	0.27	<0.05	1.42	0.394	0.13	0.7	199	1.1	15.3	25	6.9
19EPP002	358986	6150279	Safari 1	0.53	1.97	5.2	30.9	1320	7.9	66	<0.002	<0.01	0.37	23.3	<1	0.7	593	0.55	<0.05	1.96	0.317	0.21	0.9	182	1.2	18.2	60	22.2
19EPP003	359110	6150180	Safari 1	1.09	0.09	0.1	1.4	40	7.5	7.3	<0.002	0.01	0.09	0.5	<1	0.2	183.5	<0.05	<0.05	0.08	0.007	0.04	0.1	6	0.2	0.5	4	0.5
19EPP004	359111	6150181	Safari 1	0.58	2.67	3.9	2.6	2020	3.4	30.9	<0.002	<0.01	0.46	16.6	<1	0.9	899	0.21	<0.05	1.05	0.541	0.16	0.6	202	0.1	19	68	12.6
19EPP005	359175	6150032	Safari 1	0.9	2.79	5.9	5.8	1230	7.1	66	<0.002	<0.01	0.79	13.2	<1	0.6	592	0.38	<0.05	2.63	0.364	0.15	1.5	162	0.4	13.1	62	21.9
19EPP006	359440	6149844	Safari 1	22.4	2.29	3.3	13.3	1650	23.5	62.9	0.004	<0.01	1	12.9	<1	0.6	814	0.18	0.44	0.8	0.404	0.31	0.5	223	1.4	10.4	47	9.9
19EPP007	359575	6149831	Safari 1	1.01	4.13	7.9	16.6	1100	13.7	73.2	<0.002	0.02	0.27	11.8	<1	1.1	406	0.42	<0.05	3.98	0.364	0.3	3.3	167	0.9	12.9	36	12.9
19EPP008	359641	6149846	Safari 1	1.02	2.73	4.1	8.3	1610	7	49.1	<0.002	<0.01	0.51	13.5	<1	0.6	832	0.31	<0.05	1.36	0.378	0.16	0.9	182	0.4	11.1	55	11.5
19EPP009	359646	6149859	Safari 1	0.66	3.26	4.3	8.7	1710	7	67.6	<0.002	<0.01	2.48	14.2	<1	0.7	780	0.21	<0.05	1.12	0.439	0.28	1.3	173	0.7	11.3	57	9
19EPP010	359655	6149859	Safari 1	1.12	2.26	4.2	20	1420	7.3	69.7	<0.002	0.11	0.13	24.9	1	0.7	714	0.21	0.11	0.67	0.449	0.15	0.4	220	0.7	13.7	81	16.4
19EPP011	359537	6149645	Safari 1	0.4	3.23	2.8	8.7	2240	7.3	35	<0.002	0.02	0.68	19.7	1	0.7	1125	0.14	<0.05	0.99	0.462	0.12	0.5	243	0.7	19	62	10.8
19EPP012	358092	6148733	Safari 1	3.46	2.25	2.2	8.4	2250	7.9	77.9	<0.002	2.69	0.06	18.5	1	0.3	324	0.12	0.1	0.75	0.433	0.28	0.4	347	1	8	16	0.7
19EPP013	358089	6148707	Safari 1	0.54	3.02	3.2	4.5	1940	5.1	9.4	<0.002	<0.01	0.35	19.5	<1	0.7	1375	0.15	<0.05	0.56	0.51	0.05	0.3	283	0.3	15.6	79	11.6
19EPP014	358119	6148717	Safari 1	49.7	0.47	0.5	1.1	130	405	2.6	0.012	0.02	0.64	1.3	1	<0.2	33.2	<0.05	1.22	0.07	0.026	0.02	0.2	30	0.7	0.9	7	1.2
19EPP015	357883	6148779	Safari 1	1.02	2.55	4.8	5.1	1470	7	105.5	<0.002	<0.01	0.21	15.4	<1	0.8	848	0.27	<0.05	1.83	0.393	0.32	1.1	192	0.4	13.9	58	15.7
19EPP016	357721	6149126	Safari 1	1	3.38	6	5.9	1670	5.4	58.8	0.002	0.01	0.44	10.8	<1	0.7	824	0.33	<0.05	2.24	0.38	0.25	0.7	153	0.5	18.2	71	8.9
19EPP017	358103	6152002	Safari 1	1.08	2.52	4.3	53.7	1700	13.8	48.9	<0.002	<0.01	1.21	22.4	<1	0.6	1075	0.24	<0.05	1.86	0.416	0.21	1	247	0.6	15.4	69	16.1



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North Vancouver BC V7H 0A7  
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## CERTIFICATE VA19239072

Project: Spearmint (Safari)

P.O. No.: 89107

This report is for 17 Rock samples submitted to our lab in Vancouver, BC, Canada on 23-SEP-2019.

The following have access to data associated with this certificate:

JIM GREIG  
EDWARD PARKER

EMILY LAYCOCK  
KRIS RAFFLE

ROB LHEUREUX  
INFO SPEARMINTRESOURCES

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
CRU-QC	Crushing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

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:

Saa Traxler, General Manager, North Vancouver



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Project: Spearmint (Safari)

**CERTIFICATE OF ANALYSIS VA19239072**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
19EPP001		1.26	<0.001	0.03	8.19	4.1	1240	1.26	0.33	5.17	0.05	20.0	17.7	3	1.30	6.7
19EPP002		1.36	<0.001	0.10	6.67	1.3	1330	0.78	0.17	4.74	0.14	20.3	26.5	109	1.18	25.8
19EPP003		1.42	<0.001	0.09	0.49	5.4	130	0.05	0.90	0.12	<0.02	1.60	1.9	15	0.20	13.1
19EPP004		0.80	<0.001	0.02	8.18	1.3	1170	0.86	0.02	5.54	0.12	19.25	18.5	3	0.95	6.1
19EPP005		1.02	0.003	0.11	7.53	3.5	800	1.27	0.07	3.64	0.12	16.80	15.4	5	0.94	67.1
19EPP006		1.02	0.001	0.35	7.10	1.5	1140	0.78	0.51	3.79	0.14	13.25	17.8	19	1.93	67.3
19EPP007		1.20	<0.001	0.15	8.48	1.6	2390	1.21	0.18	2.76	0.10	17.95	16.8	10	1.11	68.0
19EPP008		1.10	<0.001	0.06	7.77	1.2	1130	0.82	0.08	4.38	0.07	12.25	16.9	11	1.09	36.7
19EPP009		0.84	<0.001	0.05	7.83	2.2	1080	1.04	0.08	3.76	0.10	14.45	18.4	10	1.50	30.9
19EPP010		0.54	0.049	1.03	7.36	1.6	1790	0.84	0.16	5.03	0.26	15.35	28.3	69	1.74	1195
19EPP011		0.72	<0.001	0.05	7.91	3.6	1050	0.87	0.09	5.07	0.07	22.6	20.6	5	0.82	41.2
19EPP012		0.36	0.281	2.65	8.89	5.4	850	0.68	0.32	0.95	0.02	10.90	22.2	2	0.80	2730
19EPP013		0.84	0.001	0.08	8.15	2.1	730	0.66	0.04	6.95	0.12	17.50	23.5	5	0.20	93.1
19EPP014		0.96	0.036	0.23	0.78	0.8	60	0.16	0.32	0.07	0.06	5.32	3.7	19	0.51	40.7
19EPP015		1.18	<0.001	0.04	8.11	1.4	1750	0.85	0.04	3.95	0.07	19.40	18.4	9	1.45	38.5
19EPP016		0.80	<0.001	0.03	8.62	2.0	1820	1.22	0.02	3.55	0.11	27.9	14.2	2	0.51	44.5
19EPP017		0.80	0.001	0.03	8.04	9.6	1550	1.30	0.04	5.24	0.15	23.3	22.7	71	0.95	32.7



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Project: Spearmint (Safari)

**CERTIFICATE OF ANALYSIS VA19239072**

Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
19EPP001		4.99	18.65	<0.05	0.4	0.018	2.05	8.2	8.2	1.45	687	1.24	3.17	4.2	3.7	2080
19EPP002		5.24	14.15	0.06	1.0	0.037	3.82	8.0	8.1	2.75	1060	0.53	1.97	5.2	30.9	1320
19EPP003		0.51	1.48	<0.05	<0.1	<0.005	0.34	0.9	3.9	0.03	63	1.09	0.09	0.1	1.4	40
19EPP004		5.60	18.90	<0.05	0.7	0.039	1.81	7.4	9.1	1.46	1170	0.58	2.67	3.9	2.6	2020
19EPP005		4.10	16.35	0.06	1.0	0.039	2.80	7.2	6.7	1.35	863	0.90	2.79	5.9	5.8	1230
19EPP006		4.80	14.35	<0.05	0.5	0.034	3.11	5.7	13.1	1.29	723	22.4	2.29	3.3	13.3	1650
19EPP007		4.24	16.50	0.05	0.7	0.027	3.72	8.3	2.6	1.05	492	1.01	4.13	7.9	16.6	1100
19EPP008		4.99	14.15	0.06	0.6	0.026	3.91	5.4	11.7	1.47	925	1.02	2.73	4.1	8.3	1610
19EPP009		4.99	17.60	0.05	0.4	0.031	3.39	6.0	12.4	1.32	900	0.66	3.26	4.3	8.7	1710
19EPP010		6.33	15.40	0.05	0.8	0.064	3.87	6.6	13.7	2.46	1230	1.12	2.26	4.2	20.0	1420
19EPP011		5.59	17.55	<0.05	0.5	0.045	2.23	8.9	6.3	1.88	1160	0.40	3.23	2.8	8.7	2240
19EPP012		7.62	19.20	0.05	0.1	0.026	3.92	4.6	9.1	0.64	323	3.46	2.25	2.2	8.4	2250
19EPP013		6.11	18.55	0.06	0.6	0.056	1.09	7.0	5.0	1.78	1370	0.54	3.02	3.2	4.5	1940
19EPP014		1.25	2.23	<0.05	<0.1	0.006	0.09	3.2	21.4	0.08	275	49.7	0.47	0.5	1.1	130
19EPP015		4.68	18.45	0.19	0.8	0.051	4.90	8.8	5.9	1.34	989	1.02	2.55	4.8	5.1	1470
19EPP016		4.41	20.5	0.16	0.5	0.034	2.71	12.4	6.6	1.01	1050	1.00	3.38	6.0	5.9	1670
19EPP017		5.69	20.7	0.17	0.8	0.044	2.35	10.5	11.4	1.75	1190	1.08	2.52	4.3	53.7	1700





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Project: Spearmint (Safari)

**CERTIFICATE OF ANALYSIS VA19239072**

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
19EPP001		4.0	35.4	<0.002	<0.01	0.35	13.7	<1	0.6	1115	0.27	<0.05	1.42	0.394	0.13	0.7
19EPP002		7.9	66.0	<0.002	<0.01	0.37	23.3	<1	0.7	593	0.55	<0.05	1.96	0.317	0.21	0.9
19EPP003		7.5	7.3	<0.002	0.01	0.09	0.5	<1	0.2	183.5	<0.05	<0.05	0.08	0.007	0.04	0.1
19EPP004		3.4	30.9	<0.002	<0.01	0.46	16.6	<1	0.9	899	0.21	<0.05	1.05	0.541	0.16	0.6
19EPP005		7.1	66.0	<0.002	<0.01	0.79	13.2	<1	0.6	592	0.38	<0.05	2.63	0.364	0.15	1.5
19EPP006		23.5	62.9	0.004	<0.01	1.00	12.9	<1	0.6	814	0.18	0.44	0.80	0.404	0.31	0.5
19EPP007		13.7	73.2	<0.002	0.02	0.27	11.8	<1	1.1	406	0.42	<0.05	3.98	0.364	0.30	3.3
19EPP008		7.0	49.1	<0.002	<0.01	0.51	13.5	<1	0.6	832	0.31	<0.05	1.36	0.378	0.16	0.9
19EPP009		7.0	67.6	<0.002	<0.01	2.48	14.2	<1	0.7	780	0.21	<0.05	1.12	0.439	0.28	1.3
19EPP010		7.3	69.7	<0.002	0.11	0.13	24.9	1	0.7	714	0.21	0.11	0.67	0.449	0.15	0.4
19EPP011		7.3	35.0	<0.002	0.02	0.68	19.7	1	0.7	1125	0.14	<0.05	0.99	0.462	0.12	0.5
19EPP012		7.9	77.9	<0.002	2.69	0.06	18.5	1	0.3	324	0.12	0.10	0.75	0.433	0.28	0.4
19EPP013		5.1	9.4	<0.002	<0.01	0.35	19.5	<1	0.7	1375	0.15	<0.05	0.56	0.510	0.05	0.3
19EPP014		405	2.6	0.012	0.02	0.64	1.3	1	<0.2	33.2	<0.05	1.22	0.07	0.026	0.02	0.2
19EPP015		7.0	105.5	<0.002	<0.01	0.21	15.4	<1	0.8	848	0.27	<0.05	1.83	0.393	0.32	1.1
19EPP016		5.4	58.8	0.002	0.01	0.44	10.8	<1	0.7	824	0.33	<0.05	2.24	0.380	0.25	0.7
19EPP017		13.8	48.9	<0.002	<0.01	1.21	22.4	<1	0.6	1075	0.24	<0.05	1.86	0.416	0.21	1.0



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North Vancouver BC V7H 0A7  
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**CERTIFICATE OF ANALYSIS VA19239072**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
19EPP001		199	1.1	15.3	25	6.9
19EPP002		182	1.2	18.2	60	22.2
19EPP003		6	0.2	0.5	4	0.5
19EPP004		202	0.1	19.0	68	12.6
19EPP005		162	0.4	13.1	62	21.9
19EPP006		223	1.4	10.4	47	9.9
19EPP007		167	0.9	12.9	36	12.9
19EPP008		182	0.4	11.1	55	11.5
19EPP009		173	0.7	11.3	57	9.0
19EPP010		220	0.7	13.7	81	16.4
19EPP011		243	0.7	19.0	62	10.8
19EPP012		347	1.0	8.0	16	0.7
19EPP013		283	0.3	15.6	79	11.6
19EPP014		30	0.7	0.9	7	1.2
19EPP015		192	0.4	13.9	58	15.7
19EPP016		153	0.5	18.2	71	8.9
19EPP017		247	0.6	15.4	69	16.1



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**CERTIFICATE OF ANALYSIS VA19239072**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

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

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 CRU-31 CRU-QC LOG-22  
ME-MS61 PUL-31 SPL-21 WEI-21