

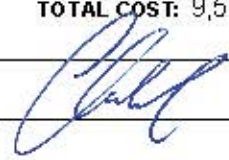
**Ministry of Energy, Mines & Petroleum Resources**  
Mining & Minerals Division  
BC Geological Survey

**Assessment Report**  
**Title Page and Summary**

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

**TOTAL COST:** 9,566.04

**AUTHOR(S):** Christopher R Paul

**SIGNATURE(S):** 

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

**YEAR OF WORK:** 2017

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):** 5677357

**PROPERTY NAME:** Gump

**CLAIM NAME(S) (on which the work was done):** GUMP 2017A, GUMP 2017B, GUMP 2017C, GUMP 2017D, GUMP 2017E,  
GUMP 2017F

**COMMODITIES SOUGHT:** Copper, Molybdenum

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** \_\_\_\_\_

**MINING DIVISION:** KAMLOOPS, NICOLA

**HTS/BCGS:** 921/07

**LATITUDE:** 50 ° 26 ' 49 " **LONGITUDE:** 120 ° 51 ' 17 " **(at centre of work)**

**OWNER(S):**

1) Christopher R Paul

2) Michael A Blady

3) Dev Rishy-Maharaj

**MAILING ADDRESS:**

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

1) OWNERS

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

**MAILING ADDRESS:**

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

Highland Valley Copper, Copper porphyry, Guichon Batholith

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** \_\_\_\_\_

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>			
<b>Ground</b>			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radlometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
<b>Airborne</b>			
_____	_____	_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock 8 Samples	_____	1050711, 1050703	_____
Other	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>			
_____	_____	_____	_____
<b>Non-core</b>			
_____	_____	_____	_____
<b>RELATED TECHNICAL</b>			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area) 1500 hectares	_____	1050711, 1050703, 1050852	9,566.04
<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)	_____	_____	_____
Other	_____	_____	_____
<b>TOTAL COST:</b>			9,566.04

# 2017 PROSPECTING REPORT

ON THE

# GUMP PROPERTY

LOCATED IN THE NICOLA AND KAMLOOPS MINING DIVISIONS,  
BRITISH COLUMBIA  
NTS: 92I/07



2017 WORK CENTERED AT APPROXIMATELY:

50°26'49" N Latitude  
120°51'17" W Longitude

652,305 mE  
5,590,527 mN  
UTM NAD 83, Zone 10N

AUTHOR: Chris Paul, B.Sc., Geology  
Date: December 14, 2017

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## 1. SUMMARY

The Gump Property (the “Property”) is located in the Nicola and Kamloops Mining Divisions, approximately 2.5 kilometers southwest of Logan Lake, BC and 34 kilometers north from the city of Merritt (straight-line distance). The Property is centered at approximately 50°26’49” N latitude and 120°51’17” W longitude on NTS map sheet 92I/07 and is comprised of 6 mineral claims covering 1,873 hectares, held by Dev Rishy-Maharaj, (33%), Christopher R. Paul (34%) and Michael A. Blady (33%). The claims are in good standing to August 28, 2019, following a statement of work filed for work documented in this report.

The claims are accessed from Merritt by heading north on Highway 97C for 35 km to the Mamit Lake Mainline Forest Service Road (FSR). A left turn is made from the 97C onto the Mamit Lake Mainline, which enters the Property at approximately 5.4 kilometers from the highway. A series of ATV trails and a powerline road traverse throughout the Property, from the Mamit Lake Mainline.

The claims were staked to cover a number of significant historic soil geochemical anomalies. The Property is underlain by a sliver of undifferentiated mafic to felsic volcanic rocks belonging to the Late Triassic Nicola Group, which are intruded by the Late Triassic to Early Jurassic Guichon Creek Batholith, a major, 70-km-long intrusive complex trending north-northwest from just north of Merritt, to just south of Ashcroft, BC. The Property is situated on the eastern edge of the batholith, where three separate phases trend north-south through the claim block. From east to west, these are: the Gump Lake Phase, the Border Phase and the Highland Valley Phase. The oldest (and most mafic) phase, the Border Phase, is interpreted to have intruded first in sequence, followed progressively inwards by slightly younger and more felsic phases of the batholith. The Guichon Batholith is best known for hosting the producing Highland Valley Copper Mine, which is located approximately 8 km northwest of the Property border, within rocks of the Highland Valley Phase, Bethlehem Phase and Bethsaida Phases.

Ridgeline Exploration Services Inc. was contracted to compile and digitize historic geochemical and geophysical data contained within public assessment reports on the Property, dating from the late 1960’s to mid-1970’s. Following the data compilation, two trips were made to the Property by Ridgeline field geologists. The first trip was made in April of 2017, immediately following the Kamloops Exploration Group conference, however the trip was unsuccessful due to thick snow cover. A second visit was made to the Property on May 24, once all the snow pack had melted. Four

field geologists prospected the entire Property by road during the second visit, using a 4x4 vehicle and ATV. The crew prospected various road cuts exposed across the Property and collected a total of eight (8) rock grab samples.

Although malachite staining was observed on fracture surfaces of two of the float samples collected, only weakly anomalous concentrations of copper were returned for the rock samples collected. Strong quartz-sericite-pyrite (QSP) alteration was however observed in bedrock outcropping at the southern end of the Property, which is indicative of the late phases of hydrothermal activity associated with porphyry copper deposits. The QSP altered rocks returned only background copper concentrations.

The single day spent prospecting was useful in mapping out the various access roads and ATV trails across the Property in advance of planning a larger survey and helped to gain a better understanding of the local geology. It is recommended to conduct additional prospecting and basic mapping over the historic geochemical anomalies. Emphasis should be placed on mapping alteration zones within the anomalous areas, as porphyry copper systems have large alteration halos which can be used to vector towards the core of they system. If only mineralization is found, without significant alteration, the claims should be allowed to lapse. If significant alteration is observed, then further soil geochemical and geophysical surveys should be conducted over these areas.

## **2. INTRODUCTION**

The Gump Property is well located near road and power infrastructure in southwest British Columbia. The claims cover several historic soil geochemical anomalies. The property is 1,873 hectares in size, centred on the eastern edge of the Late Triassic to Early Jurassic Guichon Batholith, just southwest of Logan Lake, BC. Access to the Property is via the Mamit Lake Mainline FSR, which leads directly into the claims from Highway 97C.

This report documents the results of a single day reconnaissance prospecting trip made to the Property on May 24, 2017, in which the access roads and trails were mapped with a GPS tracking device and rock samples were collected along the logging roads. The goals of the program were to:

1. Map out access roads and trails in advance of organizing a larger work program, involving geochemical and/or geophysical surveying.
2. Collect rock grab samples along the roads for geochemical analysis.

3. Prospect the Property for significant alteration and mineralization which may be related to a porphyry copper system, similar to that on the neighbouring Highland Valley Copper claims, held by Teck Resources Ltd.

The Property visit was successful in mapping the various access roads and trails on the Property, which were found to provide good coverage over most of the Property. The current access situation is quite good, as well-maintained roads traverse much of the claim area, and provide access to all sections of the Property. This will allow for efficient survey work to be carried out on the claims in the future. Rock samples collected along the access roads returned only weakly anomalous copper concentrations to a maximum of 699 ppm. Strong QSP alteration was noted in the southern portion of the Property, near to the 699 ppm Cu sample, and may be related to a nearby porphyry copper system.

Given the excellent infrastructure and local resources in the nearby service center of Merritt, the Gump Property is very well located for conducting efficient mineral exploration work. The historic copper-in-soil anomalies are very significant and high tenor, reaching up to 3800 ppm Cu. Strong QSP alteration observed in the southern part of the Property suggests the presence of porphyry copper. Only a very small portion of the 1,873 hectares staked has currently been examined by geologists, and the single day of reconnaissance work this year was restricted to existing roads/trails. The close proximity and similar geology that the Gump Property has to the nearby Highland Valley Copper Mine, gives good potential for the discovery of significant copper mineralization on the claims.

### **3. LOCATION AND ACCESS**

The claims are located in the Nicola and Kamloops Mining Divisions, approximately 2.5 kilometers southwest of Logan Lake, BC and 34 kilometers north from the city of Merritt (straight-line distance) (Figure 3.1). The Property is centered at approximately 50°26'49" N latitude and 120°51'17" W longitude on NTS map sheet 92I/07.

The claims are accessed from Merritt by heading north on Highway 97C for 35 km to the Mamit Lake Mainline Forest Service Road (FSR). A left turn is made from the 97C onto the Mamit Lake Mainline, which enters the Property at approximately 5.4 kilometers from the highway. A series of ATV trails and a powerline road traverse throughout the Property, from the Mamit Lake Mainline.





# 5.1 - TENURE MAP

est. 2015

## RIDGELINE

EXPLORATION SERVICES

### GUMP PROPERTY




Drawn By: CPaul

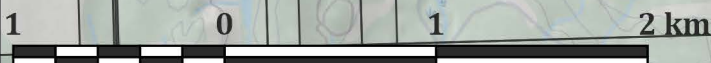
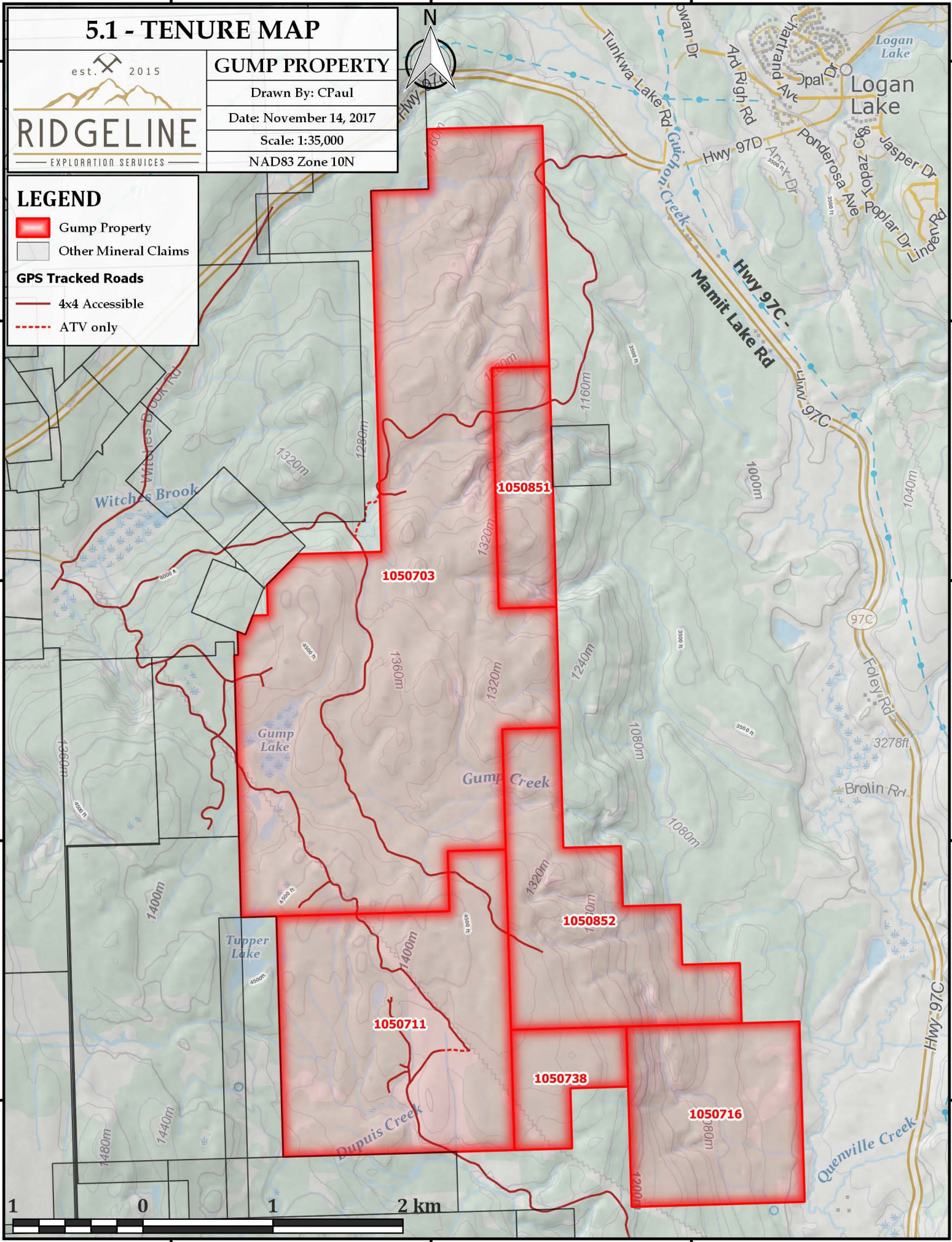
Date: November 14, 2017

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NAD83 Zone 10N

### LEGEND

-  Gump Property
-  Other Mineral Claims
- GPS Tracked Roads**
  -  4x4 Accessible
  -  ATV only



650000

652000

654000

5596000  
5594000  
5592000  
5590000  
5588000

5596000  
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## 4. PHYSIOGRAPHY AND CLIMATE

The claims cover a gentle to moderate forested area with a clear-cut central area. Relief is modest, with elevations ranging between 3,300 feet in the southeast of the Property to 4,500 feet in the center. The claims lie within the Interior Plateau area of BC, characterized by rolling hills and wide valleys with gentle gradients. Seasonal exploration surveys can commence from about mid May to late October.

The climate is characterized by warm summers with temperatures ranging up to 35° C and cold winters ranging as low as -20° C. The claims are situated within the interior rain shadow, and as such receive minimal precipitation relative to the mountainous regions flanking to the east and west.

## 5. CLAIMS

The Gump Property is comprised of 6 mineral claims covering 1,873 hectares, held by Dev Rishy-Maharaj, (33%), Christopher R. Paul (34%) and Michael A. Blady (33%). The claims are in good standing to August 28, 2019, following a statement of work filed for work documented in this report.

**Table 1 - Summary of Tenure Data**

TITLE NUMBER	CLAIM NAME	ISSUE DATE	NEW GOOD TO DATE	AREA (HA.)
1050703	GUMP2017A	2017/MAR/12	2019/AUG/28	966.9
1050711	GUMP2017B	2017/MAR/13	2019/AUG/28	349.9
1050716	GUMP2017C	2017/MAR/13	2019/AUG/28	185.3
1050738	GUMP2017D	2017/MAR/14	2019/AUG/28	61.8
1050851	GUMP2017E	2017/MAR/18	2019/AUG/28	82.3
1050852	GUMP2017F	2017/MAR/18	2019/AUG/28	226.4

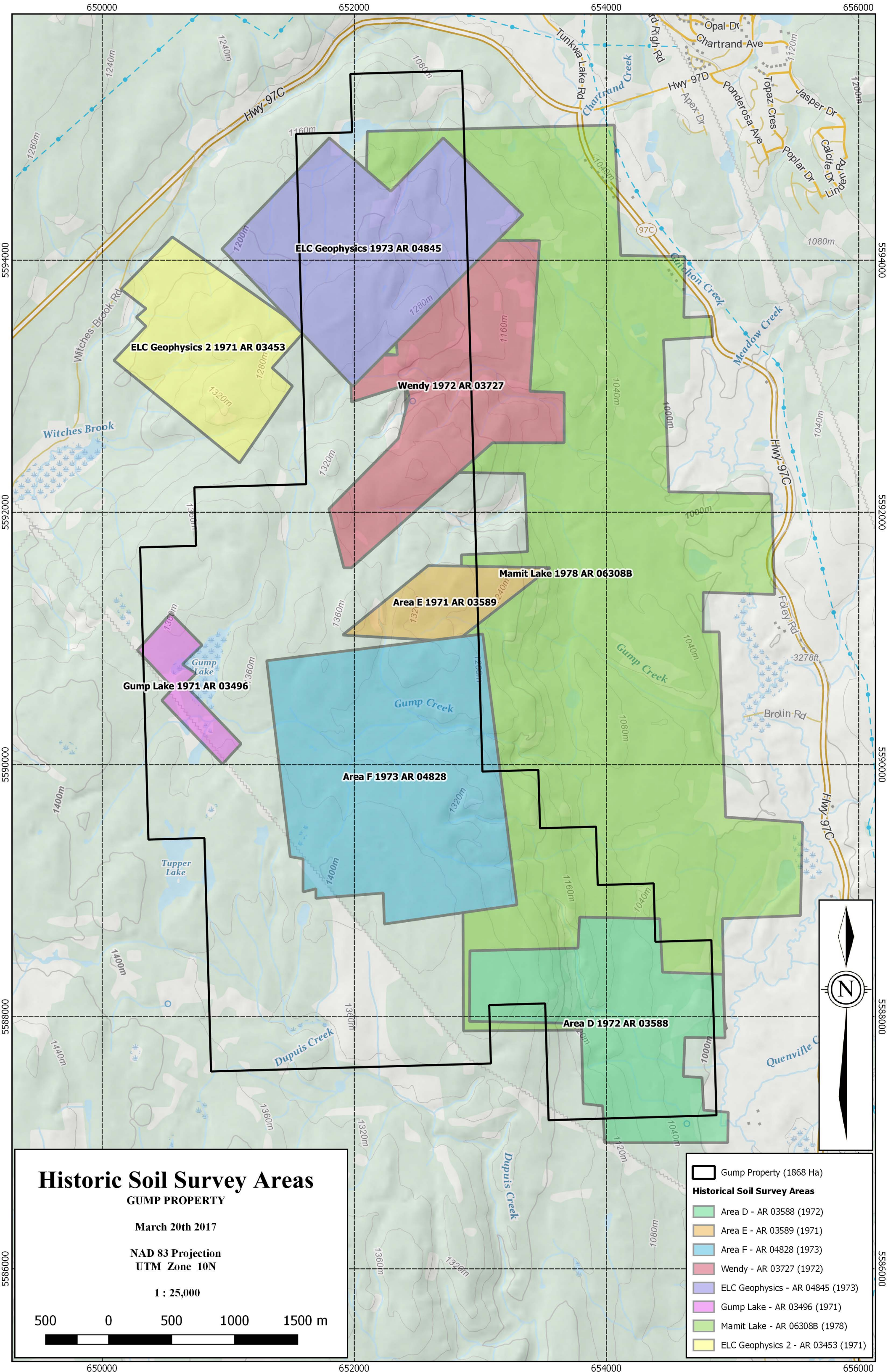
**TOTAL 1873 ha.**

## 6. EXPLORATION HISTORY

In 1967, a magnetometer survey was conducted on the WS group of claims by International Copper Corp. Ltd. (Allen, 1967, AR 00995). A southwest trending zone of low magnetic intensity was revealed by the survey, which was interpreted to be worthy of follow up work.

In 1971, ELC Geophysics Ltd. conducted several ground magnetometer and geochemical reconnaissance survey grids over the current claims area (AR's 03453, 03496, 03588 and 03589).

Northeast-southwest trending magnetic anomalies were noted as having the best correlation with high



# Historic Soil Survey Areas










GUMP PROPERTY

March 20th 2017

NAD 83 Projection  
UTM Zone 10N

1 : 25,000

500 0 500 1000 1500 m

-  Gump Property (1868 Ha)
- Historical Soil Survey Areas**
-  Area D - AR 03588 (1972)
-  Area E - AR 03589 (1971)
-  Area F - AR 04828 (1973)
-  Wendy - AR 03727 (1972)
-  ELC Geophysics - AR 04845 (1973)
-  Gump Lake - AR 03496 (1971)
-  Mamit Lake - AR 06308B (1978)
-  ELC Geophysics 2 - AR 03453 (1971)

# 6.1 - HISTORIC SOIL SAMPLES - Cu (ppm)

est. 2015

**RIDGELINE**  
EXPLORATION SERVICES

## GUMP PROPERTY

Drawn By: CPaul

Date: November 14, 2017

Scale: 1:35,000

NAD83 Zone 10N

### LEGEND

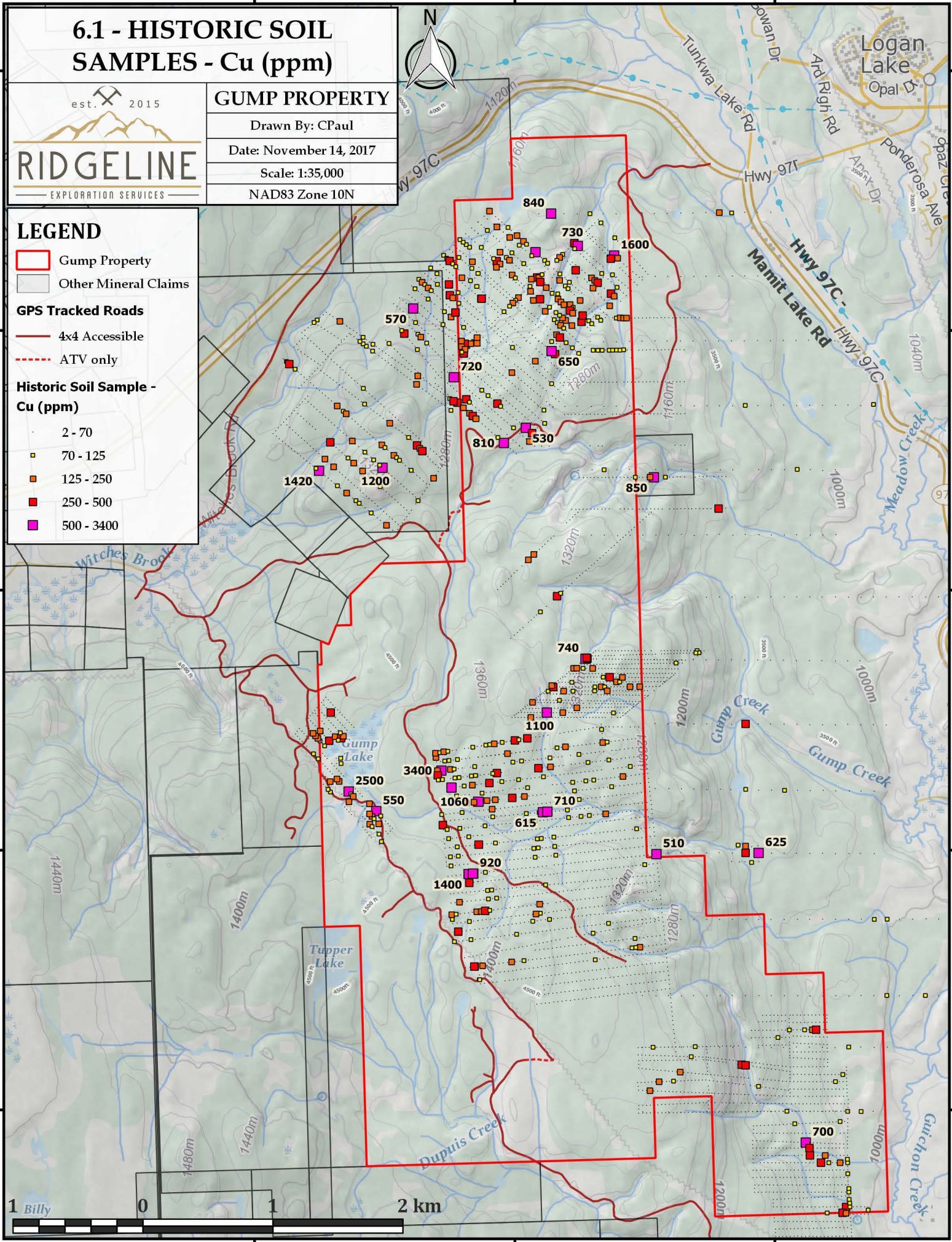
- Gump Property
- Other Mineral Claims

### GPS Tracked Roads

- 4x4 Accessible
- ATV only

### Historic Soil Sample - Cu (ppm)

- 2 - 70
- 70 - 125
- 125 - 250
- 250 - 500
- 500 - 3400



1 Billy 0 1 2 km

650000

652000

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Cu concentrations in soil samples. Recommendations were made for geologists to follow up on several magnetic anomalies which were interpreted as possibly representing faults or other conduits for hydrothermal fluids.

During May of 1972, Falaise Lake Mines Ltd., optioned the Wendy Group of claims from Mr. Richard J. Billingsley and carried out bulldozer trenching, line cutting, and geological mapping (Sadler-Brown and Chisholm, 1972, AR 03699). Geochemical results were not made available in the assessment report, however it was reported that disseminated copper mineralization and weak potassic alteration was noted in the southwestern part of the property, where two phases of granitic rocks appear to be in contact. This was followed up in July of 1972 by a geochemical soil sampling program (Sadler-Brown and Chisholm, 1972, AR 03727). The soil survey produced three small areas of anomalously high copper values. Recommendations were made to follow up with further soil sampling around these anomalies.

In 1973, ELC Geophysics Ltd. conducted ground magnetometer, EM and geochemical surveys on areas of the property which were not previously covered (Hings, 1973, AR 04828). Several convincing EM anomalies in the northwestern portion of the grid showed a strong correlation with copper-in-soil anomalies.

In 1974, ELC Geophysics Ltd., on behalf of Rocky Mountain Trench Mines, conducted further geochemical and geophysical surveys as extensions of previous surveys (Hings, 1973, AR 04845).

## **7. GEOLOGICAL SETTING**

### ***7.1 Regional Geology***

The Gump Property is located on the southern Intermontane Belt of British Columbia on the southern extent of the Quesnel Trench. The central geological features of this region are the Late Triassic island-arc volcanic rocks of the Nicola Group, and Late Triassic mudstone, siltstone and shale clastic sedimentary rocks located to the east, and intrusive granodioritic rocks of the Late Triassic to early Jurassic (Figure 7.1). The Nicola Group is a succession of Late Triassic island-arc volcanic rocks. The Nicola Group volcanic rocks form part of a 30km to 60km wide northwest-trending belt extending from southern B.C. into the southern Yukon. This belt is enclosed by older rocks and intruded by batholiths and smaller intrusive rocks. Major batholiths in the area of the Logan Copper Property include the Guichon Creek Batholith to the west, the Wild Horse Batholith to the east, and

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# 7.1 - REGIONAL GEOLOGY

est. 2015

## RIDGELINE

EXPLORATION SERVICES

### GUMP PROPERTY

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Date: November 14, 2017

Scale: 1:150,000

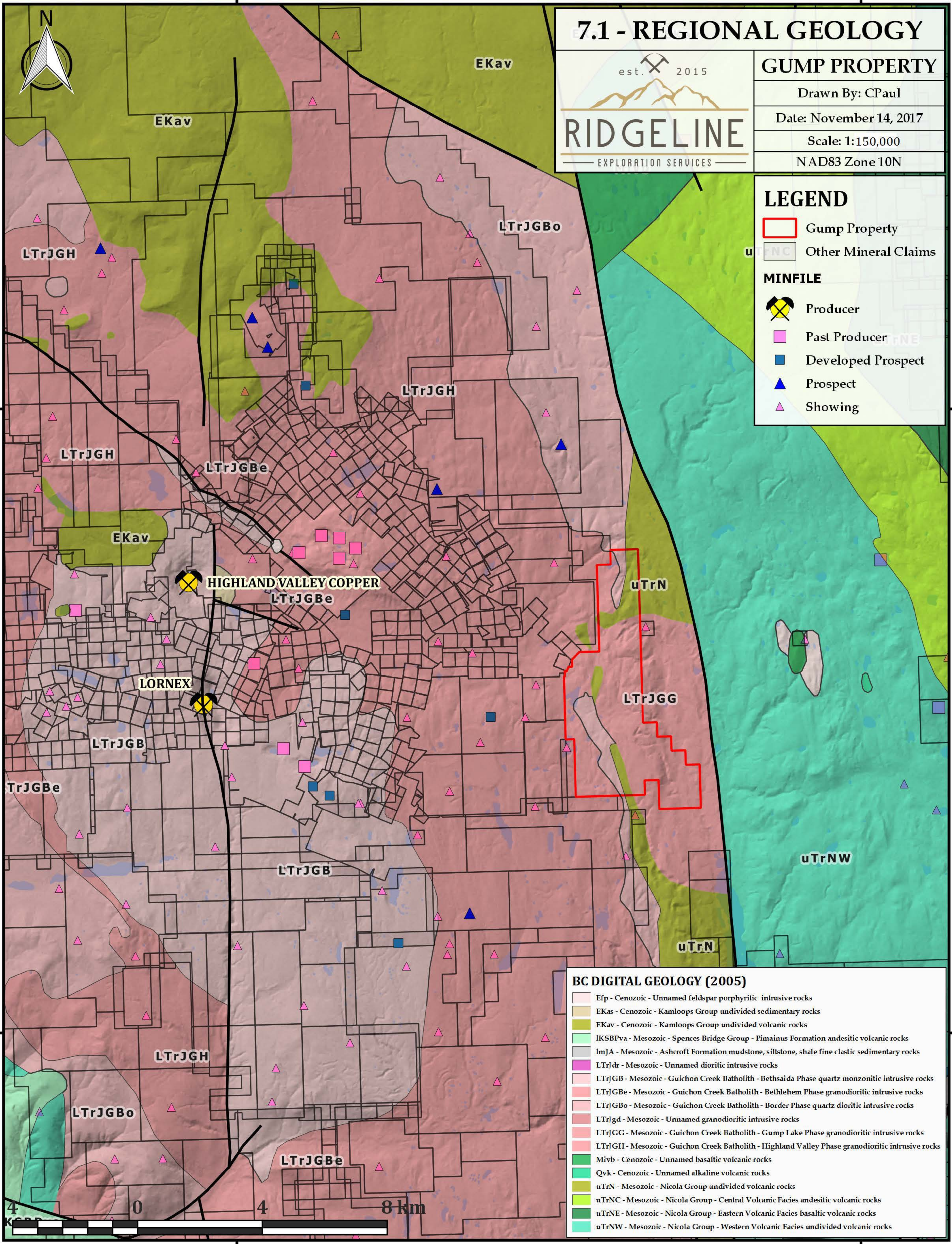
NAD83 Zone 10N

### LEGEND

- Gump Property
- Other Mineral Claims

### MINFILE

- Producer
- Past Producer
- Developed Prospect
- Prospect
- Showing



### BC DIGITAL GEOLOGY (2005)

- Efp - Cenozoic - Unnamed feldspar porphyritic intrusive rocks
- EKas - Cenozoic - Kamloops Group undivided sedimentary rocks
- EKav - Cenozoic - Kamloops Group undivided volcanic rocks
- IKSBPva - Mesozoic - Spences Bridge Group - Pimainus Formation andesitic volcanic rocks
- ImJA - Mesozoic - Ashcroft Formation mudstone, siltstone, shale fine clastic sedimentary rocks
- LTrjdr - Mesozoic - Unnamed dioritic intrusive rocks
- LTrjGB - Mesozoic - Guichon Creek Batholith - Bethsaida Phase quartz monzonitic intrusive rocks
- LTrjGBe - Mesozoic - Guichon Creek Batholith - Bethlehem Phase granodioritic intrusive rocks
- LTrjGBo - Mesozoic - Guichon Creek Batholith - Border Phase quartz dioritic intrusive rocks
- LTrjgd - Mesozoic - Unnamed granodioritic intrusive rocks
- LTrjGG - Mesozoic - Guichon Creek Batholith - Gump Lake Phase granodioritic intrusive rocks
- LTrjGH - Mesozoic - Guichon Creek Batholith - Highland Valley Phase granodioritic intrusive rocks
- Mivb - Mesozoic - Unnamed basaltic volcanic rocks
- Qvk - Cenozoic - Unnamed alkaline volcanic rocks
- uTrN - Mesozoic - Nicola Group undivided volcanic rocks
- uTrNC - Mesozoic - Nicola Group - Central Volcanic Facies andesitic volcanic rocks
- uTrNE - Mesozoic - Nicola Group - Eastern Volcanic Facies basaltic volcanic rocks
- uTrNW - Mesozoic - Nicola Group - Western Volcanic Facies undivided volcanic rocks

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the Iron Mask Batholith to the north northeast.

The Guichon Creek batholith is a large, composite intrusion with a surface area of about 1,000 square kilometers. A cluster of nine major porphyry copper deposits lie within a 15 square kilometer zone in the center of the batholith. The Gump Property is situated on the eastern contact of the Guichon Creek Batholith and the Nicola volcanics within 10 kilometres of the Highland Valley Copper Mine.

The batholith is a semi-concordant composite intrusive that is elliptical and elongated slightly west of north. A central, steeply plunging root or feeder zone is inferred under Highland Valley, and the major deposits lie around the projection of the feeder zone to the surface. The batholith has intruded and metamorphosed island-arc volcanic and associated sedimentary rocks of the Nicola Group, and a metamorphic halo up to 500 meters wide is developed adjacent to the contact. Rocks along the edge of the batholith are older and more mafic, and successive phases moving inward toward the core are younger and more felsic.

Although contacts can be sharp, they are generally gradational and chilled contacts are not common. Variations in the batholiths geochemistry indicate local areas of assimilated country rock in the border zone and roof pendants in the intrusion. Outcrop areas have inclusions of amphibolite and “granitized” metamorphic rocks and compositional variations.

Two younger volcanic-dominated successions are important in the area. First, a northwest trending belt of Cretaceous continental volcanic and sedimentary rocks of the Spences Bridge Group unconformably overlie both the Nicola Group country rock and intrusive rocks along the southwest flank of the batholith. Distribution of the Spences Bridge Group rocks was locally controlled by reactivation of older faults that were important mineralization conduits in the batholith, such as the Lornex fault. Second, continental volcanic and sedimentary rocks of the Tertiary Kamloops Group cover extensive areas of the batholith and also overlie Triassic and Jurassic rocks from north of Highland Valley to the Thompson River

## ***7.2 Property Geology***

The geology of the Gump Property is illustrated on Figure 7.2, modified after a map by William Bergey, 2017. Rock outcrops are very scarce on the Property and thick glacial deposits are present across much of the claim block. The land forms include eskers, kames and kame terraces. Volcanic and sedimentary rocks of the Late Triassic Nicola group cover just the northeastern tip of the Property. These rocks are intruded Early Jurassic granitic rocks of the Guichon Batholith to the west.

# 7.1 - LOCAL GEOLOGY (after Bergey, 2017)

est. 2015

**RIDGELINE**  
EXPLORATION SERVICES

## GUMP PROPERTY

Drawn By: CPaul

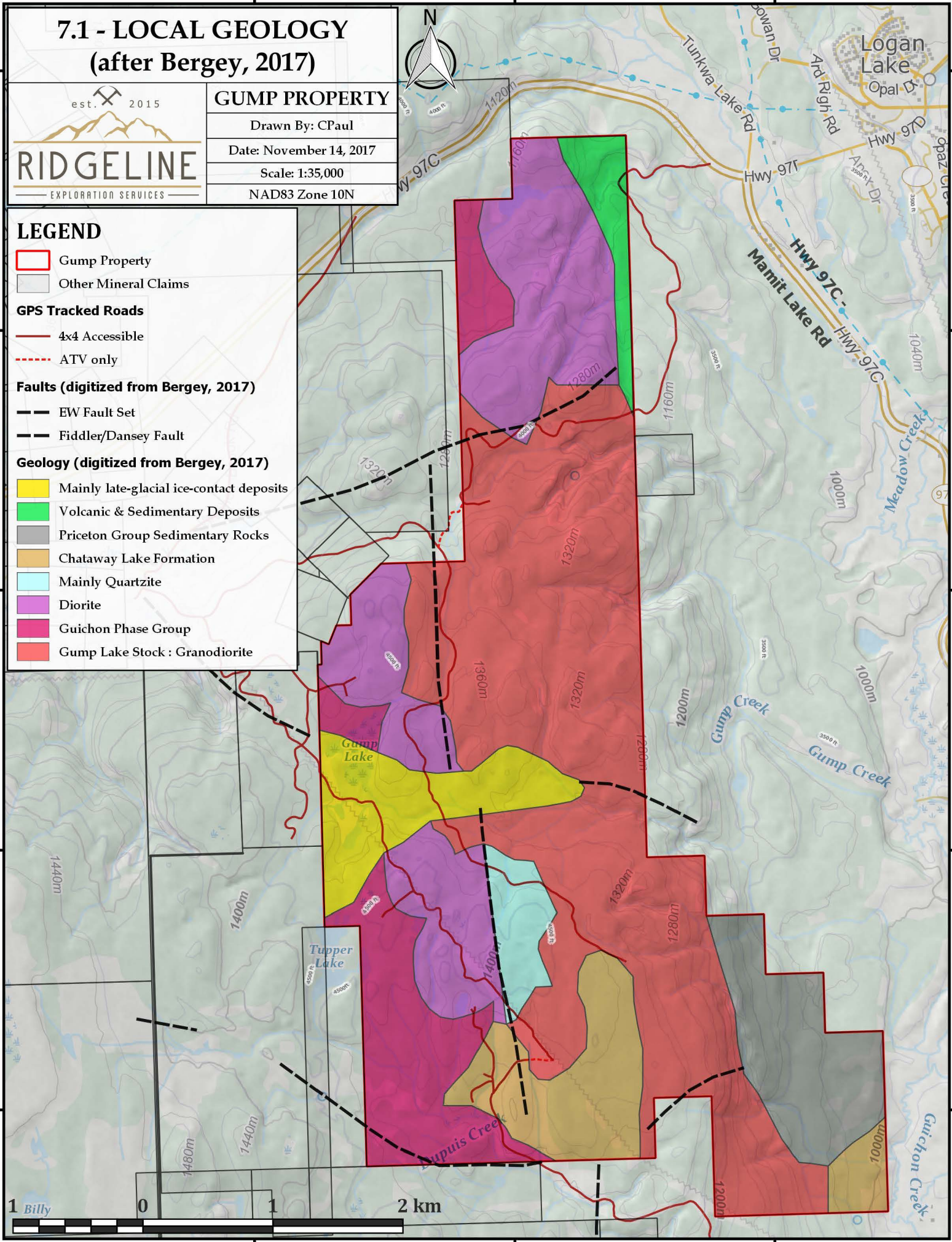
Date: November 14, 2017

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NAD83 Zone 10N

### LEGEND

- Gump Property
- Other Mineral Claims
- GPS Tracked Roads**
- 4x4 Accessible
- ATV only
- Faults (digitized from Bergey, 2017)**
- EW Fault Set
- Fiddler/Dansey Fault
- Geology (digitized from Bergey, 2017)**
- Mainly late-glacial ice-contact deposits
- Volcanic & Sedimentary Deposits
- Princeton Group Sedimentary Rocks
- Chataway Lake Formation
- Mainly Quartzite
- Diorite
- Guichon Phase Group
- Gump Lake Stock : Granodiorite





Three intrusive phases are present along the eastern margin of the batholith which covers the Property. These are diorite, quartz diorite of the Guichon Phase, and granodiorite of the Gump Phase of the batholith. Overlying the intrusive rocks are younger sedimentary units of the Princeton and Chataway Lake Formations. An east-west trending valley in the middle of the claim block is filled with mainly late glacial ice-contact deposits.

Several prominent linears have been identified on the Property, from air photo interpretation work by William Bergey (2017). An east-west set, many of which extend west toward the Highland Valley Copper Mine, and a north-south set which parallels the margin of the batholith and intersects with the east-west linears. Two major intersections of east-west and north-south linears occur under cover on the Property and may have provided an important channelway for hydrothermal fluid flow.

## 8. MINERALIZATION & ALTERATION

To date, only very weak copper mineralization has been found on the Property, consisting of malachite stained fracture surfaces on float samples located along the powerline road on the Property (Photos 1a,b). The malachite stained pieces do not contain primary hypogene mineralization, and it is interpreted that the malachite staining along fractures is exotic in nature and was transported from a mineralized bedrock source elsewhere on the Property, via groundwater solution.



**Photo 1 - a) GUM-CP-004 - Malachite stained fracture surfaces on float found along powerline road . b) GUM-OF-003 - Malachite stained fractures with weak silicified selvage in float found along powerline road.**



**Photo 2 - a-c) GUM-CP-001, GUM-CP-002, GUM-CP-003. Strong QSP altered rock samples taken from roadcut outcrop showing (d) in the southern portion of Property.**

Strong quartz-sericite-pyrite (QSP) alteration was found outcropping along a forest service road in the southern portion of the Property (Photos 2a-d). No significant concentrations of economic metals were associated with the samples taken, however the alteration is typical of porphyry copper systems, and is caused by highly acidic fluids replacing silicate minerals with sericite and adding considerable pyrite to the rock mass. In some porphyry copper deposits, QSP alteration can be grade-destructive, as the acidic fluids can dissolve and remobilize existing copper mineralization, whereas in others it can enhance the grade by depositing additional copper mineralization if the pH conditions are favourable.

## **9. CURRENT WORK PROGRAM**

Ridgeline Exploration Services Inc. was contracted by the Property owners to compile historical data from the late 1960's and 1970's in a GIS (Figure 6.1). Assessment reports from which the data was extracted are given in the references section of this report. Following the data compilation, a trip to the Property was made on May 24 by four field geologists working for Ridgeline. The purpose of the visit was to inspect the geology of the area, collect rock characterization samples and map out the various access roads and trails throughout the Property, in advance of conducting large geochemical and geophysical surveys. Unfortunately, the follow-up geochemical and geophysical surveys were not carried out in 2017.

Rock grab samples were collected of various lithology's, alteration types and mineralization styles across the Property (Figure 9.1). Field notes were recorded using Dynoform app on iOS devices, and coordinates recorded with Garmin GPS units. In total, 8 rock samples were collected and submitted to ALS Minerals for multi-element analysis.

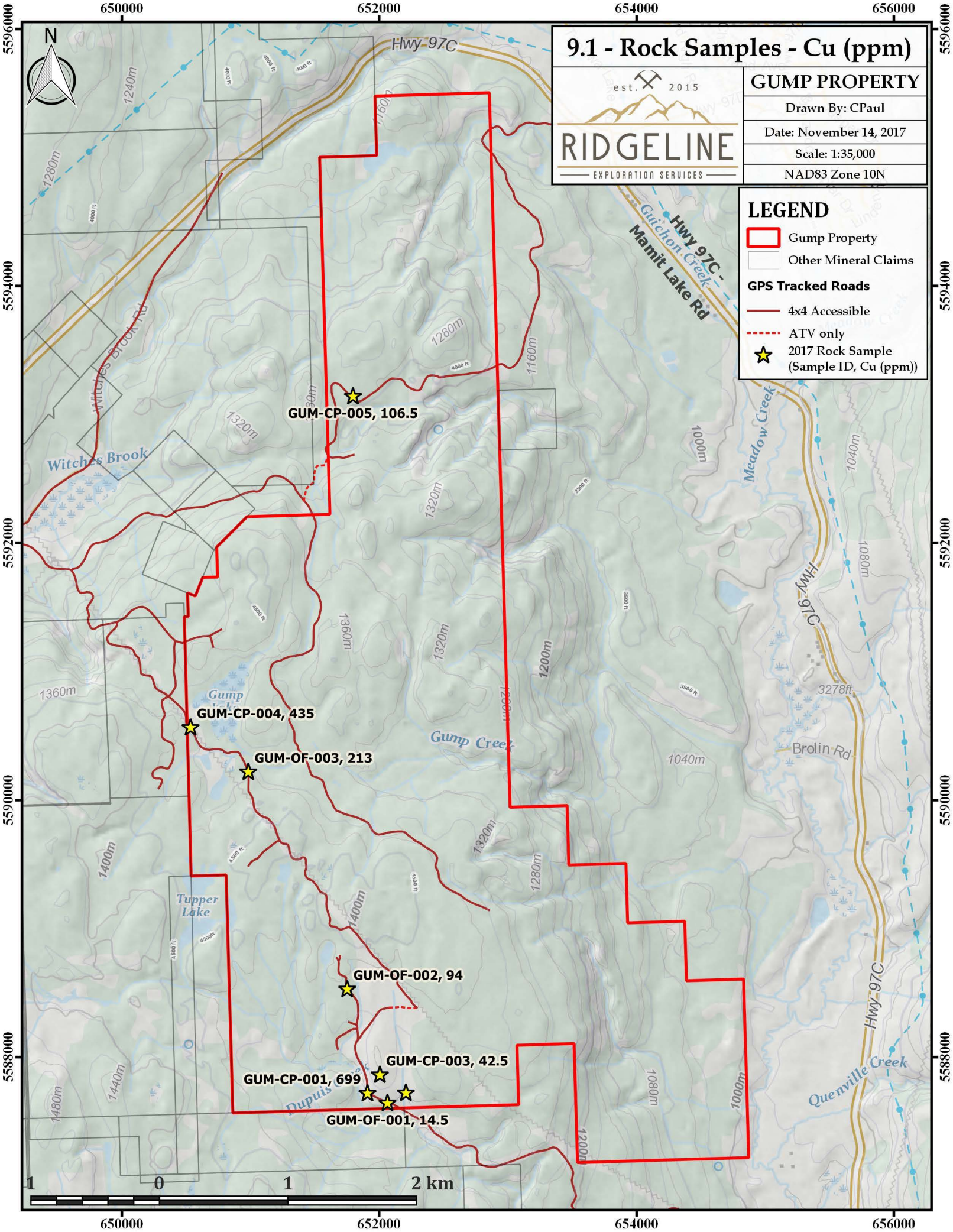
### **9.1 SAMPLE SECURITY AND ANALYSIS**

Following completion of the field work, rock samples were transported to ALS Minerals sample preparation facility in Kamloops, BC. In Kamloops, rock samples were dried and crushed to 70% passing 2mm and a 250-gram split of the crushed material was pulverized to a pulp composed of 85% passing 75µm. Following the preparation process, the sample pulps were then shipped by ALS Minerals, directly to their North Vancouver laboratory for assay. Once in the North Vancouver lab, a 0.5 gram aliquot of the pulverized material was digest in a hot 3:1 (HCl:HNO<sub>3</sub>) aqua regia bath for 1 hour. Upon completion of the digestion, the resulting solution was made up to volume with deionized water and analyzed by both ICP-AES as well as ICP-MS for ultra-trace levels.

## **10. RESULTS & INTERPRETATION**


Only weak copper mineralization was found in scattered float during the 2017 site visit. A zone of strong QSP alteration was located at the southern end of the Property, which may have implications for porphyry copper exploration. The QSP altered samples did not contain significant concentrations of economic metals, however the alteration itself may represent a distal portion of a porphyry copper system located within the Property.

The access roads mapped with the use of handheld Garmin devices demonstrate the Property has a



# 9.1 - Rock Samples - Cu (ppm)

est. 2015



## RIDGELINE

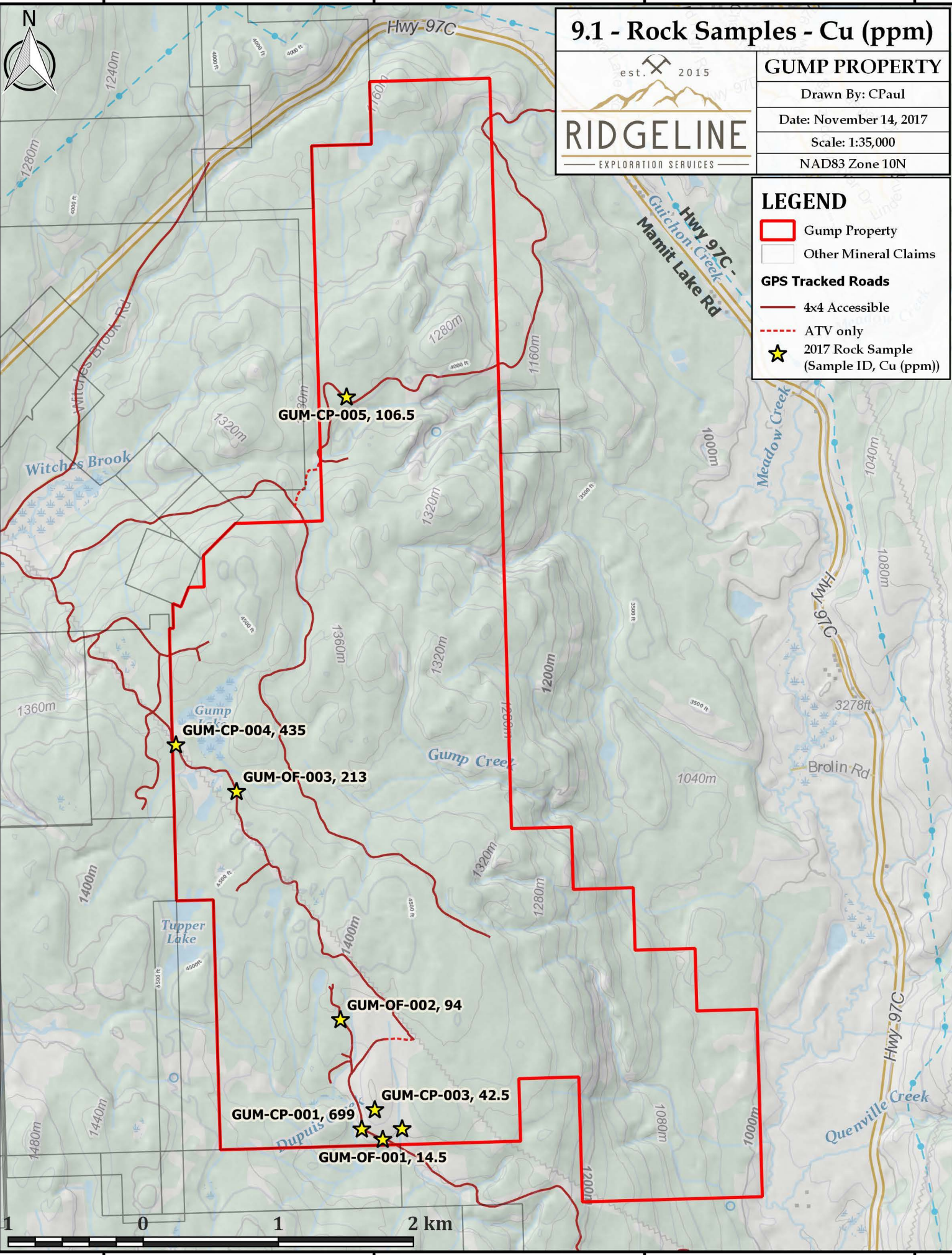
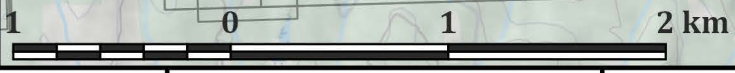
EXPLORATION SERVICES

### GUMP PROPERTY

Drawn By: CPaul
Date: November 14, 2017
Scale: 1:35,000
NAD83 Zone 10N

### LEGEND

- Gump Property
- Other Mineral Claims
- GPS Tracked Roads**
- 4x4 Accessible
- ATV only
- ★ 2017 Rock Sample (Sample ID, Cu (ppm))



very good road network and future geochemical and geophysical surveys could be accomplished quite efficiently, given the current access situation. The access roads throughout the Property connect with Highway 97C in three (3) different locations.

**Table 2 - 2017 Rock Sample Coordinates (UTM NAD83 Zone 10N) and Assays**

Sample ID	Easting	Northing	Occurrence	Lithology	Remarks	Cu (ppm)	S (%)
GUM-CP-001	652757	5587318	Float	Granodiorite	Sericite altered intrusive float cut by cpy mineralized qtz vein stockwork. Bedrock outcrop in roadcut is gossanous.	699	0.21
GUM-CP-002	652757	5587318	Subcrop	Diorite	Magnetite epidote pyrite veins with silicified halo cutting foliated diorite.	27.3	1.29
GUM-CP-003	652757	5587318	Outcrop	Diorite	Quartz sericite magnetite epidote pyrite alteration in diorite roadcut outcrop.	42.5	0.55
GUM-CP-004	650381	5590826	Float	Monzonite	Hornblend monzonite cut by copper mineralized fractures with potassic selvage. Untarnished cpy and mal.	435	0.02
GUM-CP-005	651797	5593139	Outcrop	Granite	Contact zone between coarse grained felsic granite and fg mafic microdiorite with cpy and mal.	106.5	0.03
GUM-OF-001	652757	5587318	Float	Diorite	Oxidized, sericitized diorite.	14.5	0.05
GUM-OF-002	651752	5588527	Subcrop	Fault Zone	Highly altered fault/shear zone(?) - sericite/clay.	94	<0.01
GUM-OF-003	650983	5590218	Outcrop	Monzodiorite	Hornblende-monzodiorite cut by sheeted veinlets containing copper (malachite) w/ weak potassic selvage. Malachite staining on fracture surfaces.	213	<0.01

## 11. CONCLUSIONS & RECOMMENDATIONS

Historic geochemical surveys on the Property have returned highly anomalous copper concentrations ranging up to 3400 ppm. The roads traversed via 4x4 vehicle in 2017 only partially cut the geochemically anomalous areas. Where the roads do intersect the copper-in-soil anomalies, little bedrock is exposed. Much of the Property area is relatively flat and therefore glacial deposit cover is thick in many areas. The low copper concentrations returned by the 2017 rock sampling is not interpreted as discouraging at this stage, as the majority of the Property remains to be prospected.

The single day spent so far was inadequate for evaluating the geological potential of the claims.

It is recommended to conduct additional prospecting and basic mapping over the historic geochemical anomalies. Emphasis should be placed on mapping alteration zones within the anomalous areas, as porphyry copper systems have large alteration halos which can be used to vector

towards the core of they system. If only mineralization is found, without significant alteration, the claims should be allowed to lapse. If significant alteration is observed, then further soil geochemical and geophysical surveys should be conducted over these areas.

## **12. REFERENCES**

Bergey, 2017. Discussion of the Mamit Lake Structural Zone and the Eastern Margin of the Guichon Batholith. Internal Report, prepared for Christopher R. Paul and Michael A. Blady.

Hings, D.L. 1972. ELC Geophysical Report No. M-GC-128-71 for J.L. Wilson over the NYE Claims Group, Near Witches Brook in the Guichon Creek Batholith. B.C. Ministry of Energy and Mines. Assessment Report 03453.

Hings, D.L. 1972. ELC Geophysical Report No. M-GC-129-71 for Oro Mines Ltd. over the ACB Claims Group, Gump Lake, Highland Valley Area, B.C. B.C. Ministry of Energy and Mines. Assessment Report 03496.

Hings, D.L. 1972. ELC Geophysical Report No. M-GC-133-71 for Mamit Lake Mines Ltd. over the GCM Ridge Claims Group, Highland Valley Area, B.C. B.C. Ministry of Energy and Mines. Assessment Report 03588.

Hings, D.L. 1972. ELC Geophysical Report No. M-GC-130-71 for Mamit Lake Mines Ltd. over the MLM-GCM Ridge Claims Group, Highland Valley Area, B.C. B.C. Ministry of Energy and Mines. Assessment Report 03589.

Hings, D.L. 1973. ELC Geophysical Report No. 73-310 for Mamit Lake Mines Ltd. GC and MLM Claims Group, Highland Valley Area, B.C. B.C. Ministry of Energy and Mines. Assessment Report 04828.

Hings, D.L. 1973. ELC Geophysical Report No. 73-309 NYE and RHODA Claims Group, Highland Valley Area, B.C. B.C. Ministry of Energy and Mines. Assessment Report 04845.

Sadlier-Brown, T.L. and Chisholm, E.O. 1972. A geological report on the Wendy Group, Logan Lake Area, Kamloops M.D., B.C. B.C. Ministry of Energy and Mines. Assessment Report 03699.

Sadlier-Brown, T.L. and Chisholm, E.O. 1972. A geochemical report on the Wendy Claims, Logan Lake Area, Kamloops M.D., B.C. B.C. Ministry of Energy and Mines. Assessment Report 03727.

### 13. STATEMENT OF QUALIFICATIONS

I, Chris Paul of the City of Parksville, Province of British Columbia, Canada, do hereby certify as follows:

1. I graduated with a Bachelor of Science degree in Geology from Simon Fraser University in February 2015.
2. I graduated honours with distinction in Mining & Mineral Exploration Technology from the British Columbia Institute of Technology in June 2011.
3. I am a GIT member in good standing with the Association of Professional Engineers and Geoscientist of British Columbia (APEGBC).
4. I have worked in mineral exploration since 2008, primarily in the Philippines, Yukon Territory, and British Columbia.
5. I am the author and am responsible for the preparation of the report titled “2017 Prospecting Report on the Gump Property” dated December 14, 2017.
6. I hold a 33% interest in the Gump Property.
7. To the best of my knowledge, information and belief, this report contains all the scientific and technical information that is required to be disclosed to make this report not misleading.

Dated this 14th day of December, 2017

  
Chris Paul

## 14. STATEMENT OF COSTS

FIELD WORK					
Personnel (Title)	Dates	Days	Rate	Subtotal	
Chris Paul, Geologist, Exploration Manager	May 24	1	\$600	\$600.00	
Oliver Friesen, Geologist	May 24	1	\$500	\$500.00	
Mike Blady, Geologist	May 24	1	\$500	\$500.00	
Dev Rishy-Maharaj, Geologist	May 24	1	\$500	\$500.00	
	<b>SUBTOTAL:</b>	<b>1</b>		<b>\$2,100.00</b>	
OFFICE STUDIES					
	Personnel	Hours	Rate	Subtotal	
Historical Data Compilation	Chris Paul	20	\$90	\$1,800.00	
2017 Post-field: Review data, draft maps, prepare assessment report	Chris Paul	40	\$90	\$3,600.00	
	<b>SUBTOTAL:</b>	<b>60</b>		<b>\$5,400.00</b>	
ANALYTICAL					
	Lab/Code	No.	Rate	Subtotal	
Rocks - Dry, crush to 70% passing 2mm, split, pulverize to 85% passing 75µ	ALS Minerals - PREP-31	8	\$9.90	\$79.20	
Rocks - Multi-Element, Aqua Regia, ICP-AES/MS, Ultra Trace Level	ALS Minerals - ME-MS41	8	\$23.90	\$191.20	
Freight				\$80.00	
	<b>SUBTOTAL:</b>	<b>400</b>		<b>\$350.40</b>	
TRAVEL					
	Quantity	Days	Km's	Rate	Subtotal
Fuel and mileage, West Kelowna to Property, Return	1		340	\$0.65	\$221.00
4x4 Truck rental	1	1		\$150.00	\$150.00
ATV Rental	1	1		\$100.00	\$100.00
Trailer Rental	1	2		\$20.00	\$40.00
	<b>SUBTOTAL:</b>				<b>\$511.00</b>
MEALS & ACCOMMODATION					
	Man-days			Rate	Subtotal
Meals	4			\$60.00	\$240.00
	<b>SUBTOTAL:</b>				<b>\$240.00</b>
MISCELLANEOUS					
	Man-days	Days		Rate	Subtotal
Consumables: sample bags, flagging, batteries, etc.	1			\$35.00	\$35.00
Equipment Rental: iCom radios, spot trackers, DeLorme inReach, tablets, Garmin, iForms, sampling tools etc.	1			\$60.00	\$60.00
	<b>SUBTOTAL:</b>				<b>\$95.00</b>
CORPORATE					
				Rate	Subtotal
Project Management Fee (includes insurance, liability, worksafe)				10%	\$869.64

**TOTAL**

**\$9,566.04**



# **APPENDIX**

## **2017 ANALYTICAL CERTIFICATES**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: RIDGELINE EXPLORATION SERVICES INC.  
 110-2300 CARRINGTON ROAD  
 KELOWNA BC V4T 2N6

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 26-JUN-2017  
 Account: RIDCOL

**CERTIFICATE KL17123158**

Project: Gump

This report is for 8 Rock samples submitted to our lab in Kamloops, BC, Canada on 19-JUN-2017.

The following have access to data associated with this certificate:

MIKE BLADY	CHRIS PAUL
------------	------------

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

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

To: RIDGELINE EXPLORATION SERVICES INC.  
 ATTN: CHRIS PAUL  
 110-2300 CARRINGTON ROAD  
 KELOWNA BC V4T 2N6

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RIDCOL

Project: Gump

**CERTIFICATE OF ANALYSIS KL17123158**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
GUM-CP-001		1.09	0.09	0.38	10.5	<0.02	<10	20	0.20	0.06	2.17	0.07	18.45	5.1	6	1.01
GUM-CP-002		3.28	0.05	0.45	2.9	<0.02	<10	50	0.09	0.18	0.28	0.01	24.2	2.1	3	0.31
GUM-CP-003		1.72	0.06	0.34	1.9	<0.02	<10	40	0.11	0.19	0.13	0.01	25.4	1.2	3	0.23
GUM-CP-004		2.51	0.04	0.65	1.7	<0.02	<10	130	0.24	0.01	2.76	0.07	23.9	5.5	8	1.14
GUM-CP-005		5.16	0.05	1.41	1.9	<0.02	10	60	0.17	0.06	1.40	0.09	10.20	11.0	28	0.37
GUM-OF-001		3.84	0.01	0.69	1.2	<0.02	<10	20	0.18	0.05	0.31	0.01	34.2	1.1	3	0.55
GUM-OF-002		3.55	0.01	0.75	4.3	<0.02	10	80	0.24	0.02	5.57	0.09	19.10	10.9	15	10.10
GUM-OF-003		5.00	0.08	0.99	1.2	<0.02	<10	70	0.20	0.11	0.95	0.03	17.40	7.6	12	0.81

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



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Project: Gump

**CERTIFICATE OF ANALYSIS KL17123158**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
GUM-CP-001		699	1.66	0.80	0.06	0.02	0.12	0.028	0.14	7.3	1.0	0.08	435	1.60	0.01	<0.05
GUM-CP-002		27.3	3.34	3.13	0.09	0.04	0.02	0.043	0.15	10.4	3.2	0.34	136	4.16	0.06	0.07
GUM-CP-003		42.5	3.21	2.64	0.08	0.03	0.07	0.044	0.10	14.3	1.7	0.14	82	3.53	0.06	<0.05
GUM-CP-004		435	1.95	2.57	0.07	0.08	0.04	0.022	0.11	11.0	4.0	0.58	542	1.57	0.03	0.08
GUM-CP-005		106.5	3.67	5.53	0.13	0.04	<0.01	0.020	0.14	3.9	6.1	0.54	534	1.60	0.07	0.18
GUM-OF-001		14.5	1.88	4.08	0.11	0.05	0.02	0.053	0.07	14.4	4.8	0.55	223	1.90	0.04	0.13
GUM-OF-002		94.0	2.26	2.53	0.07	0.03	0.01	0.028	0.18	8.6	6.0	0.32	670	0.69	0.01	<0.05
GUM-OF-003		213	2.44	5.26	0.11	0.13	<0.01	0.009	0.16	8.5	6.6	0.62	282	1.36	0.04	0.21

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 Account: RIDCOL

Project: Gump

**CERTIFICATE OF ANALYSIS KL17123158**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
GUM-CP-001		4.6	650	3.9	4.3	<0.001	0.21	18.35	2.8	0.9	<0.2	18.6	<0.01	0.04	13.0	<0.005
GUM-CP-002		0.5	1030	0.7	8.7	0.005	1.29	0.32	5.5	1.9	0.3	10.5	<0.01	0.16	1.3	0.054
GUM-CP-003		0.6	820	1.0	2.5	0.002	0.55	0.14	2.6	2.0	0.2	11.7	<0.01	0.26	1.1	0.012
GUM-CP-004		6.5	390	2.8	6.8	<0.001	0.02	0.14	4.3	0.5	0.2	49.8	<0.01	0.01	5.3	0.028
GUM-CP-005		5.9	660	2.7	6.2	0.001	0.03	0.13	3.6	0.5	0.5	16.5	<0.01	0.01	1.4	0.171
GUM-OF-001		0.7	990	0.3	3.6	0.001	0.05	0.15	5.7	1.3	0.4	7.8	<0.01	0.06	4.5	0.037
GUM-OF-002		13.7	460	3.5	10.9	<0.001	<0.01	0.63	8.5	0.8	0.2	42.8	<0.01	0.01	3.6	0.019
GUM-OF-003		8.8	630	1.9	11.0	<0.001	<0.01	0.13	2.1	0.2	0.2	19.9	<0.01	0.01	5.7	0.147

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



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 Account: RIDCOL

Project: Gump

**CERTIFICATE OF ANALYSIS KL17123158**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
GUM-CP-001		0.02	2.57	10	<0.05	15.30	22	0.6
GUM-CP-002		0.02	0.36	14	0.08	18.35	11	0.9
GUM-CP-003		<0.02	0.22	7	0.09	16.75	6	1.0
GUM-CP-004		0.02	1.79	45	0.22	9.10	28	1.9
GUM-CP-005		0.03	0.49	128	0.21	11.40	64	0.8
GUM-OF-001		<0.02	1.20	10	0.07	25.9	17	1.6
GUM-OF-002		0.04	1.15	86	0.33	12.30	43	0.9
GUM-OF-003		0.02	1.82	82	0.16	5.34	29	2.0



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 Total # Appendix Pages: 1  
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Project: Gump

<b>CERTIFICATE OF ANALYSIS</b>	<b>KL17123158</b>
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	<b>CERTIFICATE COMMENTS</b>										
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).            ME-MS41</p>										
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-22		PUL-31							
PUL-QC	SPL-21	WEI-21									
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.            ME-MS41</p>										