BC Geological Survey
Assessment Report
38599

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)]: Geochemical

TOTAL COST: $14,352.57

AUTHOR(S): John A. McClintock P.Eng **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): na **YEAR OF WORK:** 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5755580

PROPERTY NAME: Watson Bar

CLAIM NAME(S) (on which the work was done): 516,647, 516726, 208304, 208239

COMMODITIES SOUGHT: Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Clinton **NTS/BCGS:** 92O 010

LATITUDE: 51 ° 03 ' 09 " **LONGITUDE:** 122 ° 04 ' 30 " **(at centre of work)**

OWNER(S):

1) Rudolf M. Durfeld 2)

MAILING ADDRESS:

2029 S Lake Side Drive
Williams Lake, BC V2G 5G1

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

1) R Durfeld, J. McClintock. 2)

MAILING ADDRESS:

as above

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

Cretaceous Age jackass Mountain clastic sedimentary rocks, Spences Bridge intermediate volcanic and volcanoclastic rocks, Slot Creek fault, late Cretaceous granodiorite intrusions. Low sulphidization gold mineralization and alteration.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 10,381, 17473, 19,774, 22,497, 24,676 27,541, 28,073, 28,628

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	4 samples	516647, 208304, 208239	$1,000.00
Silt			
Rock	20 samples	516647, 516726, 208304, 208239	$5,800.00
Other	TerraSpec spectral analyses 23 samples	516647, 516726, 208304, 208239	$7,552.57
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$14,352.57

2019 TECHNICAL ASSESSMENT REPORT on SPECTRAL ANALYSIS and GEOCHEMICAL SAMPLING at the WATSON BAR PROPERTY

Clinton Mining Division
British Columbia

NTS: 092O.010
Latitude 51°04'20" N Longitude 122°03'30"W
(UTM NAD 83 565700mE. 5656600mN)

Event # 5755580

Tenure #'s:
516647, 516726, 208304, 208239

Prepared for:
Rudolf M. Durfeld PGeo

Prepared by:
John McClintock, P.Eng,

November 2019
Revised 6 Feb. 2020

Tables

Figures

Appendices

1.0 SUMMARY

A four day field program was carried out on the Watson Bar Property. The program had three main objectives: to categorize the nature of alteration and its related metal content; confirm the presence of a historically reported copper-in-soil anomaly; and to investigate a single station gold-in-soil anomaly with the end of determining if thick ash was the cause of subdued gold levels in the surrounding soil samples. A total of 23 rock samples were collected for TerraSpec analysis, 20 rock samples and 4 soil samples for gold and multi element analysis.

TerraSpec analyses in combination with rock sample results show anomalous pathfinder elements are associated with those rocks with dominant kaolinite alteration with or without silicification. The presence of highly crystalline kaolinite lacking illite is indicative of epithermal alteration developed at 200^{o} C hence below the 250^{o} C temperature where gold is typically deposited. If an epithermal gold deposit is present on the property, it will lie at depth beneath the kaolinized and silicified outcrops sampled in this year's program.
The single gold-in-soil sample located west of the MAD adit, documented in previous reports (Durfeld, 2006) could not be verified by the four samples collected this year. A number of possible reasons for the discrepancy are the erratic nature of gold in soil (nugget effect), analytical error or a plotting mix up in the original report.

The area of anomalous copper in soil located west of Zone V reported previously (Durfeld, 2006) could not be verified by this year's soil and rock sampling. It is most likely the earlier reported analyses were an analytical error.

2.0 INTRODUCTION AND TERMS OF REFERENCE

The writer, ably assisted by R. M. Durfeld, P.Geo, carried out a four day sampling program on the Watson Bar Property from 29 July to 1 August, 2019. The work program had 3 objectives:

- Characterize the alteration assemblage within the broad areas of alteration on the property and determine the pathfinder metal signatures associated with the key alteration minerals;
- Confirm a highly anomalous copper-in-soil anomaly lying to the west of Zone V gold occurrence;
- Verify a single point gold – in – soil anomaly to the west of the MAD adit and see if thick ash in the area was masking a more widespread anomaly.

This report discusses the work program, results and the conclusions gathered from the program.

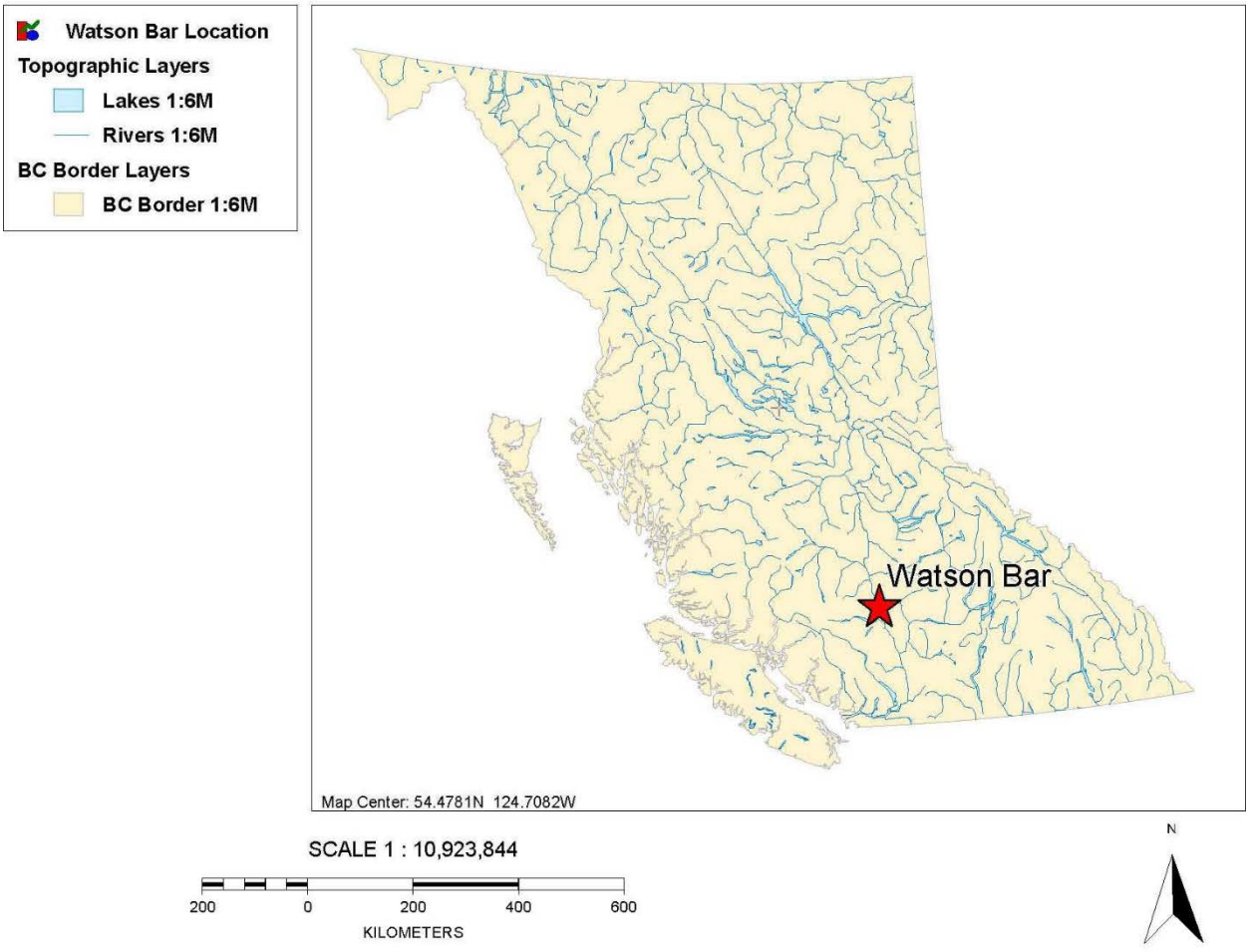
3.0 PROPERTY DESCRIPTION AND LOCATION

3.1 LOCATION AND ACCESS

The Watson Bar Property is located in the Clinton Mining Division of British Columbia, approximately 33 kilometres west of Clinton and 7 kilometres west of the Fraser River (Figure 1). The property consists of 2 contiguous mineral tenures covering 2, 7.11 hectares, which are shown in Figure 2.

Access to the property is from the town of Lillooet, north on highway 40.6 kilometres and across the Bridge River. Just beyond the bridge, the all-weather West Pavilion/Slok Creek logging road leads to the Watson Bar Property. Camp is located on the south side of the West Pavilion road at kilometre 69.5. The West Pavilion and Second Creek logging roads in conjunction with secondary cat trails provide good access to much of the property. Late in 2007 the local logging contractor extended the logging road up Watson Bar Creek to the western property boundary. This improved access to all the western anomalies.

Watson Bar Location Map

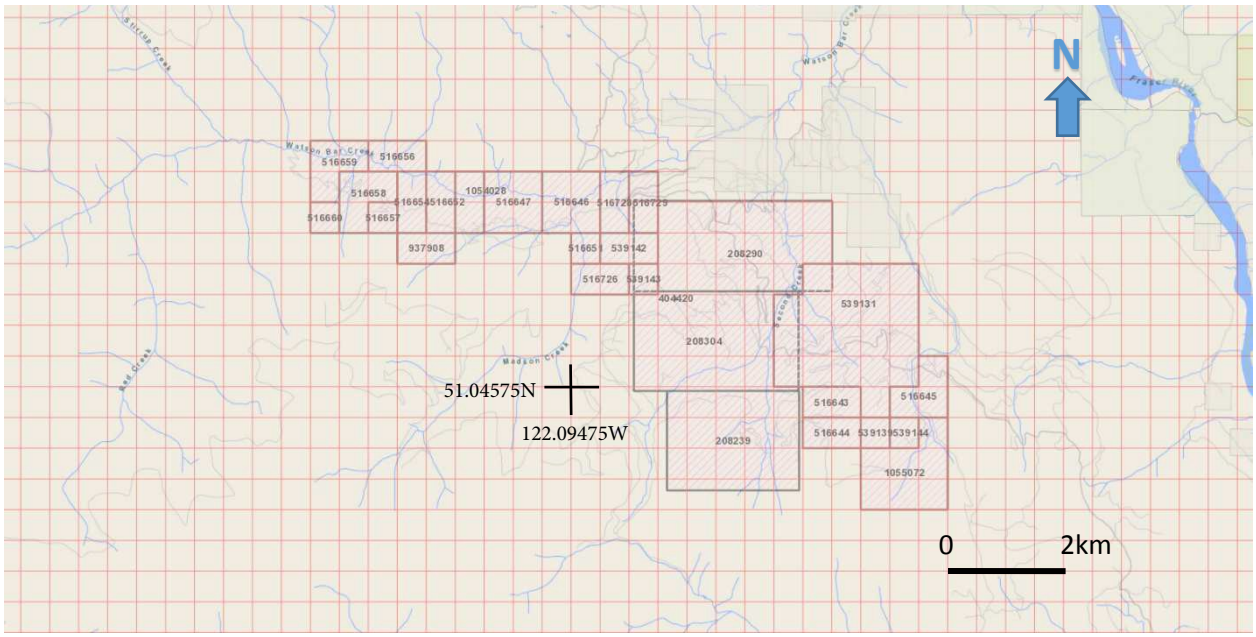


3.2 MINERAL TENURE INFORMATION

Table 1: Mineral Tenures

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
208239	SECOND 2	107306 (100%)	Mineral	Claim	092O	1986/SEP/19	2022/MAY/19	GOOD	300
208290	SECOND 5	107306 (100%)	Mineral	Claim	092O	1987/JUN/29	2023/JUN/29	GOOD	450
208304	ULCER	107306 (100%)	Mineral	Claim	092O	1987/AUG/12	2023/AUG/12	GOOD	375
516643		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	40.634
516644		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	40.638
516645		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	60.948
516646		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	81.226
516647		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	81.226
516652		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	40.614
516654		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	40.614
516656		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	40.608
516657		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	20.308
516658		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	60.92
516659		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	60.915
516660		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/NOV/11	GOOD	20.308
516726		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2024/SEP/19	GOOD	40.622
516728		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2025/AUG/13	GOOD	40.613
516729		107306 (100%)	Mineral	Claim	092O	2005/JUL/11	2025/AUG/13	GOOD	40.613
539131		107306 (100%)	Mineral	Claim	092O	2006/AUG/11	2024/SEP/16	GOOD	406.257
539139		107306 (100%)	Mineral	Claim	092O	2006/AUG/11	2024/SEP/19	GOOD	20.3185
539142		107306 (100%)	Mineral	Claim	092O	2006/AUG/11	2024/DEC/25	GOOD	40.6185
539143		107306 (100%)	Mineral	Claim	092O	2006/AUG/11	2025/DEC/25	GOOD	20.311
539144		107306 (100%)	Mineral	Claim	092O	2006/AUG/11	2024/DEC/25	GOOD	20.3184
937908	WB11	107306 (100%)	Mineral	Claim	092O	2011/DEC/19	2022/MAY/19	GOOD	40.6189
1054028	WB BRIDGE	107306 (100%)	Mineral	Claim	092O	2017/AUG/14	2022/MAY/19	GOOD	40.6133
1055072	TR	107306 (100%)	Mineral	Claim	092O	2017/SEP/20	2022/MAY/20	GOOD	142.2439
								Total	2567.1065

The claims are registered in the name of Rudolf Mateo Durfeld.



Claim Map Watson Bar Property, Fig. 2

3.3 PHYSIOGRAPHY AND CLIMATE

The Watson Bar property lies on the western edge of the Fraser Basin in the south central B.C. interior. This region is characterized by the broad Fraser River valley cut by steep westerly valleys. The elevation ranges from 400 metres in Watson Bar Creek to 1,600 metres at the summits in the south.

Vegetation is characterized by open forests of mature fir and pine, with undergrowth of grasses that are typical of the dry climate (mean annual precipitation of less than 30 centimetres) in this area. In the lower elevations toward Watson Bar Creek the trees give way to sage brush, tumbleweed and grasses. Locally, in areas of recent forest fires, the forest cover consists of closely spaced immature fir and pine.

4.0 HISTORY

The earliest work in the vicinity of the property was during the Fraser River Gold Rush when placer miners worked bars in the Fraser River. Subsequently, placer mining for gold occurred in Watson Bar Creek during the period 1860 to 1900. The Adit and open cut at the junctions of Madsen and Watson Bar creeks date from this period. In June 1980, E and B Explorations Inc staked much of what is now the Watson Bar Property as the Carolyn 1 to 8 mineral claims to acquire several large alteration zones hosted by Jackass Mountain Group sedimentary rocks. E and B Exploration prospected the property and carried out contour soil and rock sampling. Dome Mines acquired the southern portion of what is now the Watson Bar Property in 1980 and subsequently prospected and soil sampled its claims.

E and B Exploration allowed their claims to lapse in 1986 and the Watson Bar Property was staked by Durfeld-McClintock in 1986 and 1987. Cyprus optioned the property in late 1987 and from 1987 to 1992 conducted soil and rock sampling, Induced Polarization surveying, trenching and diamond drilling. Cyprus terminated its option in 1992 and in 1996, Stirrup Creek Gold Ltd acquired an option on the Watson Bar Property. Stirrup Creek carried out further trenching and diamond drilling before terminating the option in mid-1999. Since 1999 little work has been carried out on the property.

Over the past several years, the property has been expanded to include the area that had been held by Utah as the MAD property since the early 80's. The data bases have been expanded to include all the geochemical (soil, silt, rock and drill) and geophysical (IP and magnetic) data.

5.0 REGIONAL GEOLOGY

The vicinity of the Watson Bar Property was mapped by H. W. Tipper (1978), Duffell and McTaggart (1952), Read (1987) and Hickson et al (1994). These workers show the area to be underlain by a Cretaceous to Tertiary sequence of sedimentary and volcanic rocks locally intruded by Lower Cretaceous to Upper Tertiary dykes and small stocks of granodiorite (Fig 3).

The Cretaceous Age sedimentary and volcanic rocks are divisible into two main groups: the Early Cretaceous Age Jackass Mountain Group sedimentary rocks and the Middle Cretaceous Age Spences Bridge Group volcanic rocks. In the area of the Watson Bar Property the two units are separated by the north northwesterly trending Slok Creek Fault, part of the Fraser River Fault system.

The Jackass Mountain Group lies to the southwest of the Slok Creek Fault. Duffell & McTaggart divide the Jackass Mountain Group into 3 distinct units consisting of a lower unit A comprised of up to 600 metres of non-marine arkose, greywacke and lesser conglomerate and shale; a middle unit B consisting of up to 500 metres of coarse conglomerate with minor beds of greywacke and argillite; and an upper unit C of greywacke with thinly interbedded conglomerate and argillite that is at least 1,500 metres thick. Unit A and the massive conglomerate of unit B are interpreted to have accumulated in subaerial conditions as fluvial deposits that were at times inundated by the sea.

Strata of Unit C locally contain marine fossils and are for the most part of marine origin. The strata of the Jackass Mountain Group have shallow to moderate dips. Folding is minor and generally inconspicuous, with the dominant structures being normal faults.

The Spences Bridge Group lies to the northeast of the Slok Creek Fault and consists of andesitic and dacitic tuffs, agglomerates and breccias with minor intercalated conglomerate and sandstone.

The youngest rocks in the property area are Eocene Age dacitic and occasional rhyolitic tuffs, breccias, agglomerates and flows.

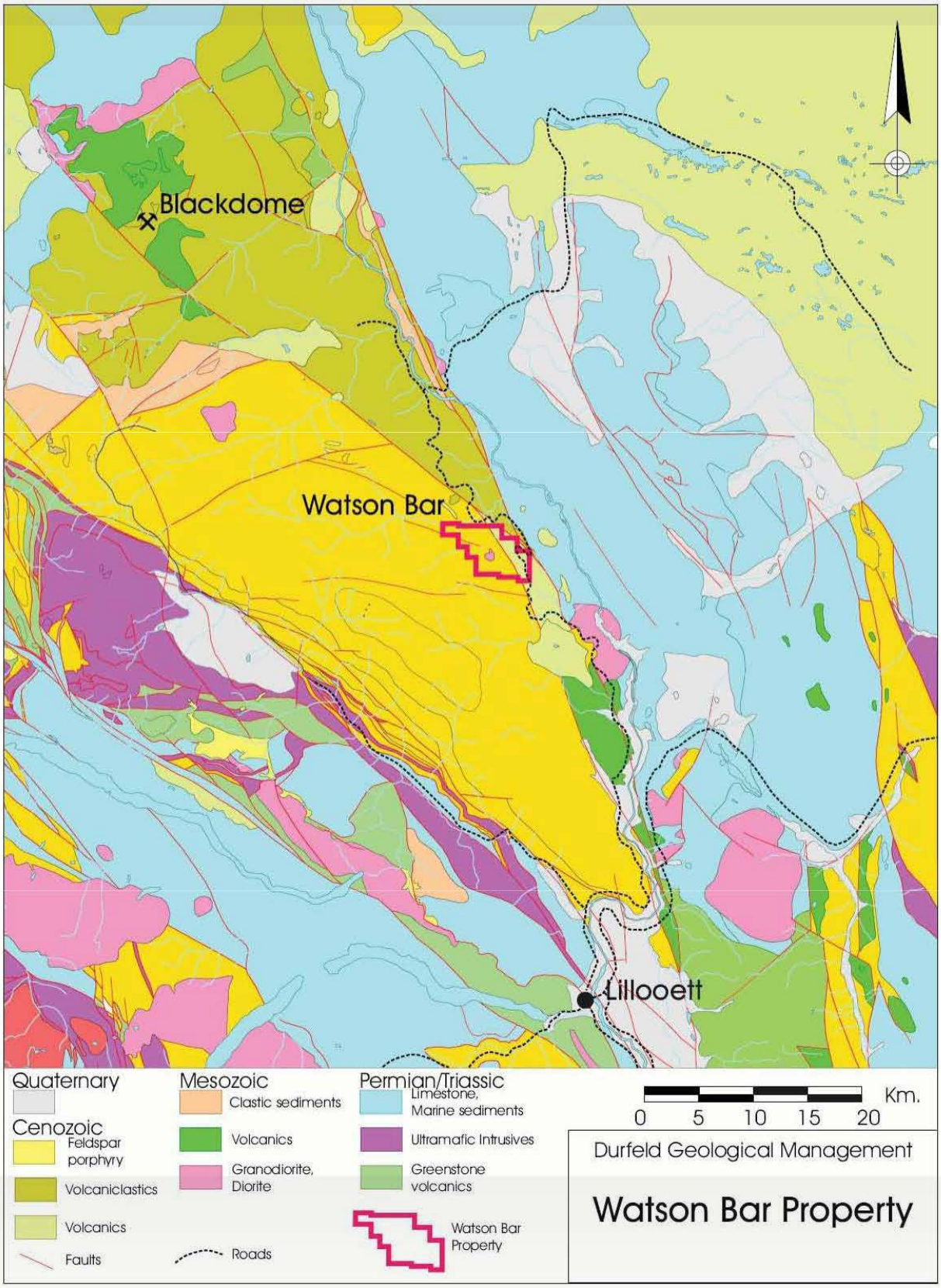


Figure 3; Regional Geology

6.0 TERRASPEC SURVEY

6.1 SURVEY

To assist with characterization of rock and alteration types on the property, 23 rock samples were selected from outcrops for TerraSpec spectral analysis. The Samples were chosen by using a hand lens to select samples most typical of the outcrop. Figures 4 shows the site location of TerraSpec samples. The geographic co-ordinates of the site locations of the TerraSpec samples are in Appendix II. A report by K Heberlein, P. Geo describing the analytical method used, instrumentation, quality control and results of the spectral analysis is provided in Appendix I.

Rock samples for the spectral analysis were collected from outcrops using a geological hammer. Specimens were trimmed using the hammer to ensure at least two clean faces were exposed. The sample was then placed into a cloth bag, numbered with a felt marker pen and the location of the sample measured with a handheld GPS unit.

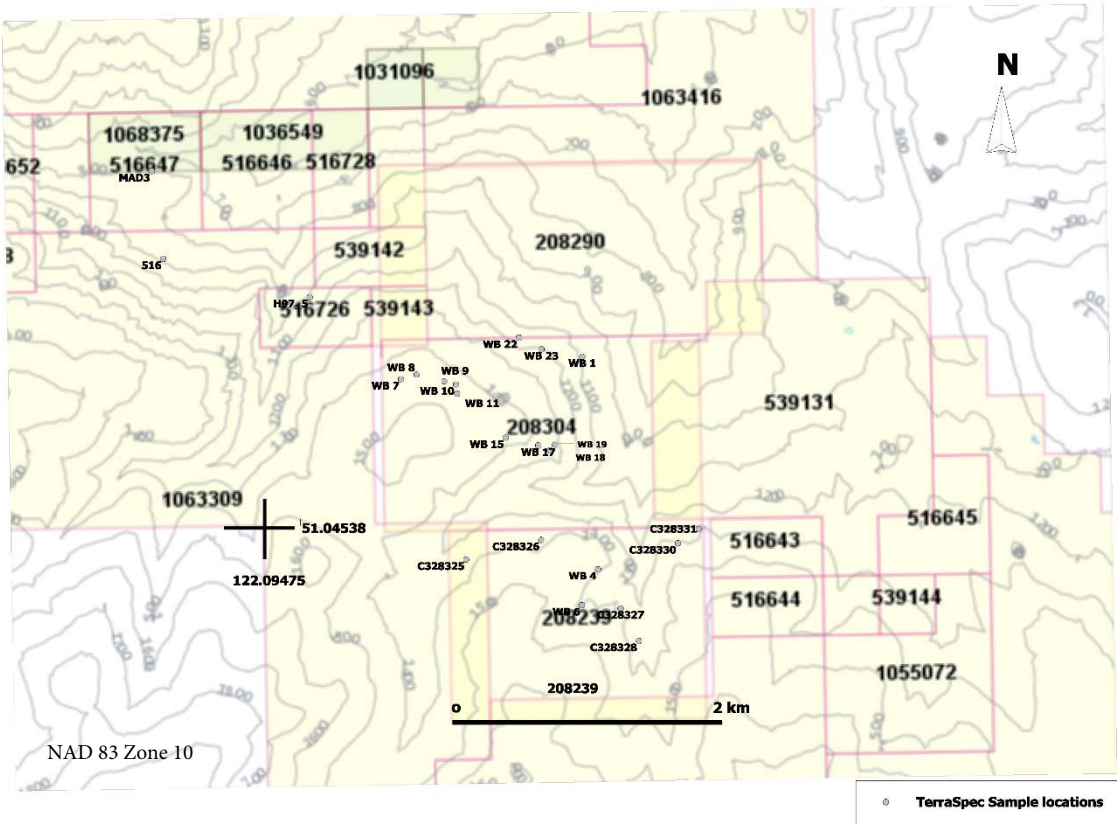


Figure 4: TerraSpec Sample Locations

6.2 RESULTS

The results of the TerraSpec analyses were grouped by mineralogical suites into categories summarized in Table 2 and shown in Figure 5.

Table 2 Alteration Classification

Alteration Type	Diagnostic Minerals
Kaolinite - silica	Kaolinite with silicification
Kaolinite	Dominantly kaolinite
Carbonate	Iron carbonate dominate, kaolinite
Chlorite	Chlorite, smectite, kaolinite

The predominant alteration mineral is high crystallinity kaolinite, which is present in all but one sample. The high crystallinity of the kaolinite indicates it is a high temperature variety suggesting temperatures in the 200 degree range. The absence of illite in most of the samples suggest sub 250^{o} C degree temperature of alteration. Many of the samples with kaolinite are also associated with pervasive silicification and lesser drusy quartz veining.

The next most common mineral are the carbonate minerals ankerite and calcite. Rocks with carbonate alteration generally lacked accompanying silicification.

Chlorite occurs in some samples collected in areas lacking strong kaolinization and silicification Carbonate alteration is associated with the chlorite alteration.

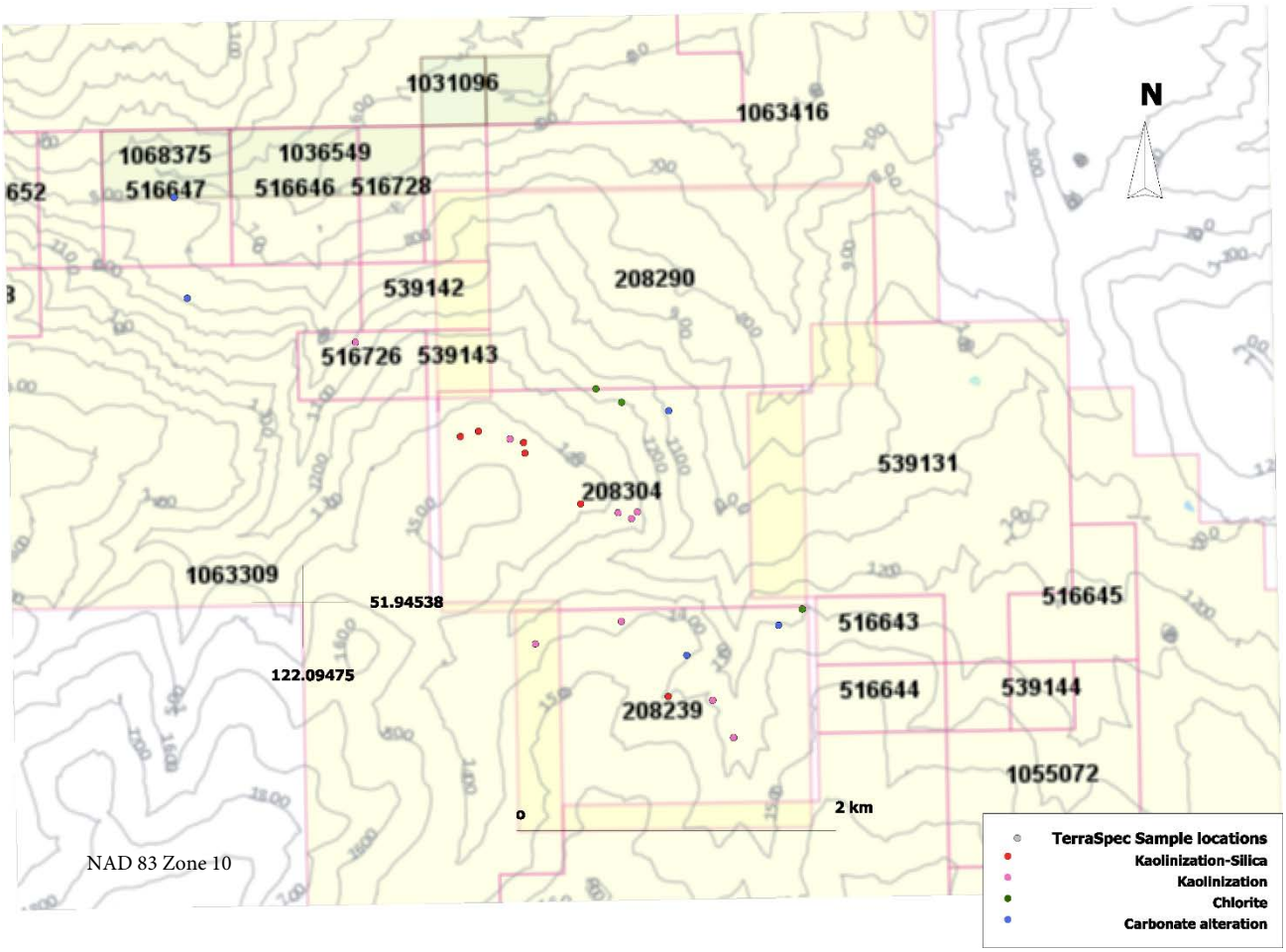


Fig. 5: Terra Spec Results

7.0 GEOCHEMISTRY

Soil sampling and rock sampling were carried out during the program. The purpose of the soil sampling was threefold: to confirm earlier reported results showing anomalous gold values south of the Mad adit; verify unusually high copper values in previously collected soil samples west of Zone V; and a single sample collected in an areas of silicified and kaolinized rocks. The soil samples were collected using a maddock, placed in kraft paper envelopes that were labeled with a felt pen. Descriptions and geographical locations of the soil samples are are available in Appendix II. The location of the soil samples are shown in figure 6. Maps showing the analytical results of the samples are provided in Appendix V. The Analytical method and results for the soil and rock samples are provided in Appendix III and IV, respectively. Rock sampling was done mainly in conjunction with the TerraSpec sampling to give an insight of the metal content associated with the various alteration types. Details on rock sample collection methods are described in Section 7.2.

7.1 SOIL RESULTS

To investigate the possibility of thick volcanic ash being the cause of low gold values in the area surrounding a single point anomalous gold value found in previous grid soil sampling, two sites were selected to carryout deeper sampling. Sample Mad 1 and 1b is at the site of the reported anomalous sample, while Mad 2 and 2b were collected approximately 50 metres to the northeast. At each location two samples were collected using a maddock: one at a depth of 10cm in the ash layer with a second sample gathered at 30 cm below the first sample. All 4 samples were placed in kraft paper bags numbered with a felt marker pen and the location of the sample measured with a handheld GPS unit. Analytical methods used are detailed in Appendix III. No standards or blanks were inserted into the sample stream. Quality control consisted of BVL labs own internal insertion of blanks and reanalysis of pulps, which can be reviewed on the certificate of analysis

The results of this year's sampling found gold and all other analysed metals to be at background levels for all four samples. The failure to repeat the earlier gold results at Mad 1 may have a number of reasons including; analytical error, plotting error or inherent "nugget effect" caused by coarse gold in the soil. The results for gold, arsenic, antimony and copper can be found on map entitled MAD Adit in Appendix V.

A single soil sample adjacent to TerraSpec sample site WB 10 was collected using a maddock from below the ash layer at a depth of 20 cm. The collected sample was then placed into a kraft bag, numbered with a felt marker pen and the location of the sample measured with a handheld GPS unit. The purpose of collecting the sample was to determine if anomalous gold or other elements occurred with the nearby silicified and kaolinized rock. The results show only arsenic to have elevated levels at 92ppm. The results for gold, arsenic, antimony and copper are plotted on a map entitled Sample Results WB 10-1 located in Appendix V.

Soil sampling carried out in the 1990s identified an area of very high copper values to the west of Zone V (Durfeld, 2006). Three samples were collected in the vicinity of the reported high copper values. All 3 samples were collected using a maddock from a depth of 20 to 30cm and below the ash layer then placed in kraft paper bags marked with the sample number with the location measured by a hand held GPS unit. This year's sample results for copper are an order of magnitude lower than the results reported earlier. The results from this year suggest that the earlier reported results were either an analytical error or possibly a plotting error during compiling results of the earlier survey. The results for copper, gold, arsenic and antimony are plotted on a map entitled Soil Sample Results WB20 to WB23, which can be found in Appendix V.

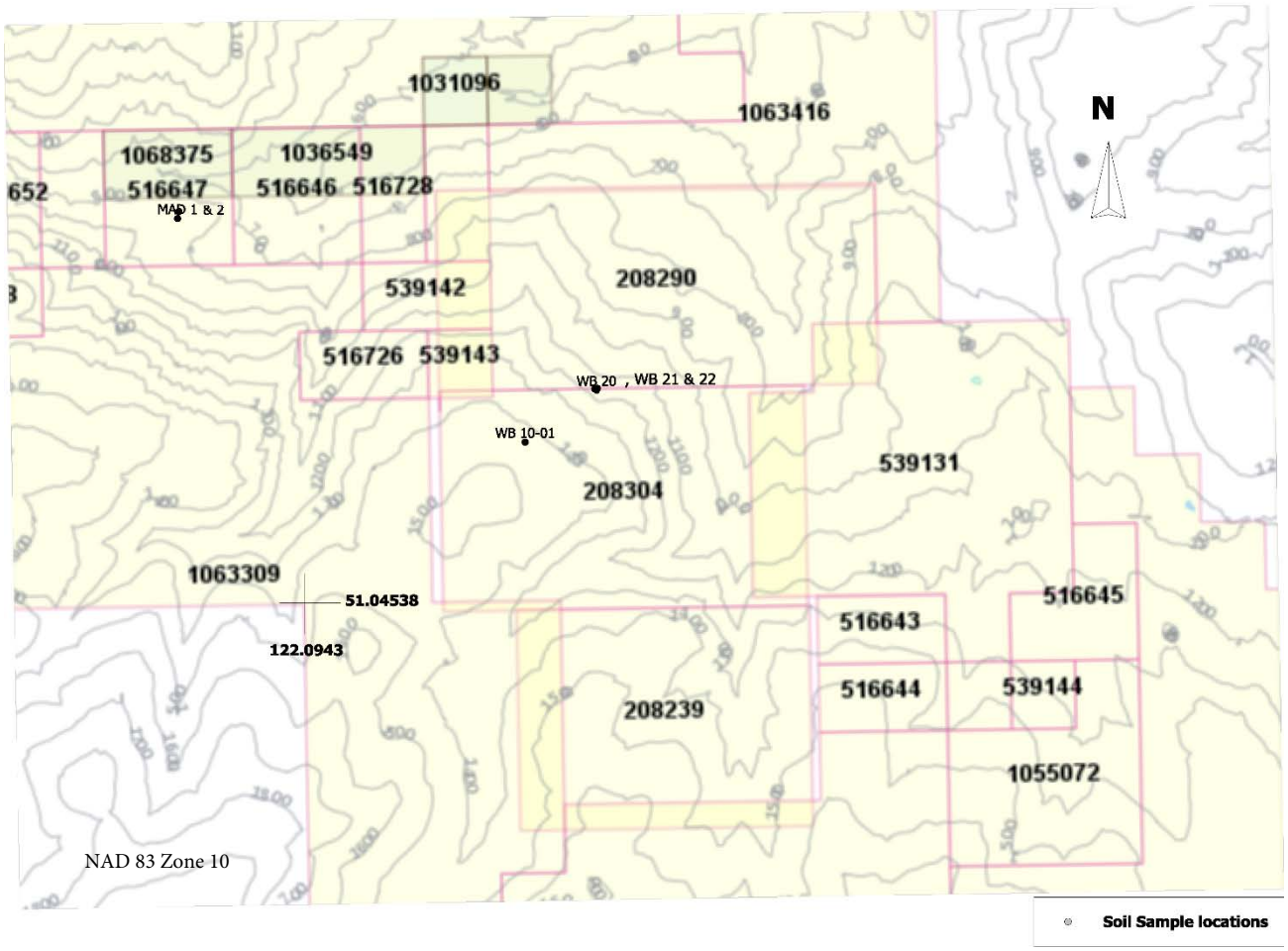


Figure 6: Location of Soils Samples

7.2 ROCK SAMPLING

A total of 19 rock samples collected in the same areas as the TerraSpec samples. The purpose of the sampling was to see if gold or any of the path finder elements were associated with the alteration types identified by the TerraSpec survey. The 20th sample was collected from rock float nearby soil sample WB 23 to determine the level of copper in the rock within the area of the previously reported anomalous copper in soils. The rock samples were all grab – type collected from outcrop or subcrop using a geological hammer and placed into plastic bags marked with the sample number on the bag using a felt marker. The location of the samples, measured in the field with a hand held GPS unit, is shown in the Figure 7 and sample descriptions are listed in Appendix IV. The analytical method and results are available in Appendix III in the certificate of analysis. The sample descriptions are listed in Appendix IV. No standards or blanks were inserted into the sample stream. Quality control consisted of BVL labs own internal insertion of blanks and reanalysis of pulps, which can be reviews on the certificate of analysis.

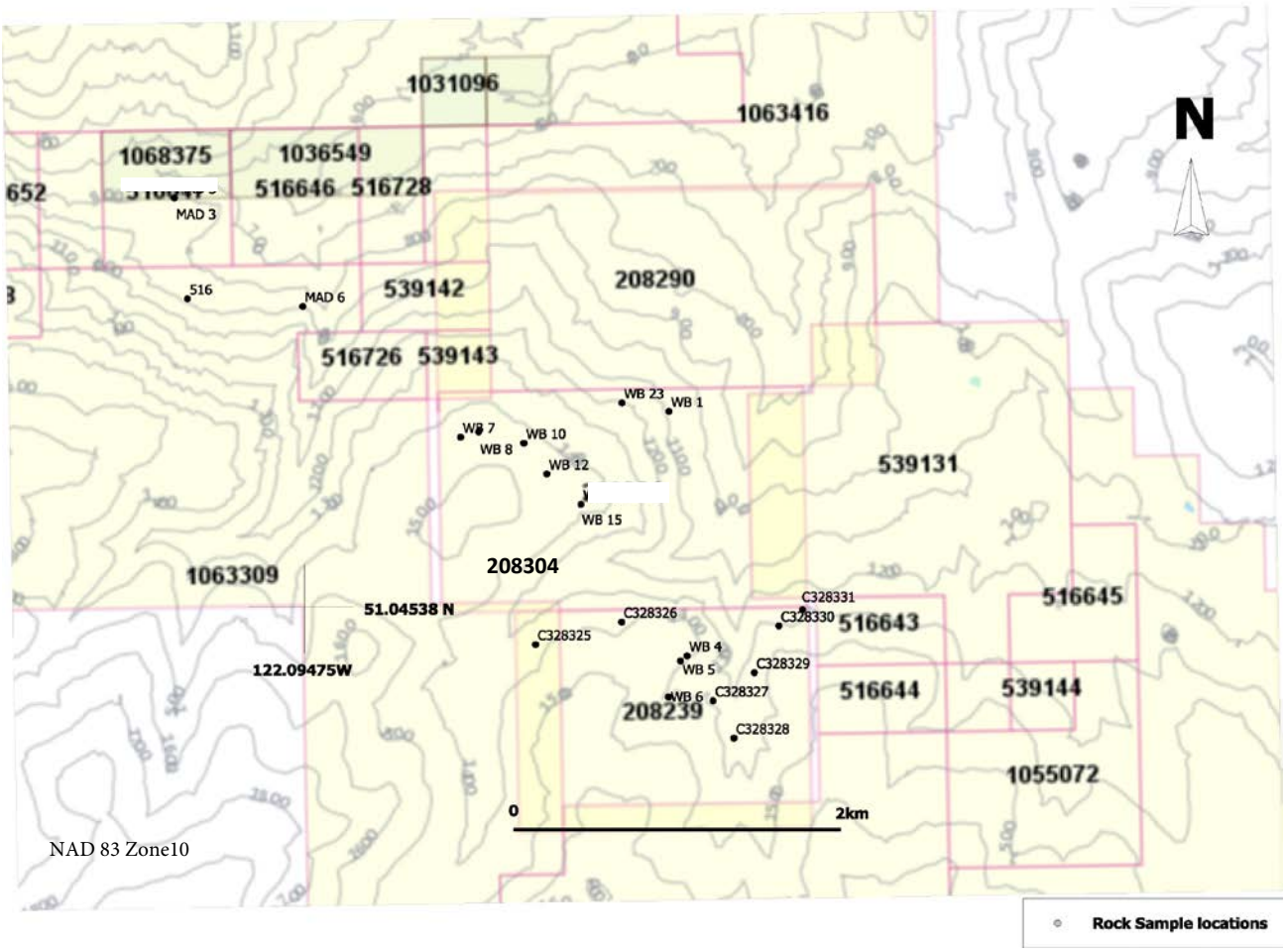


Figure 7: Rock Sample Locations

7.3 ROCK SAMPLING RESULTS

Given the limited number of samples collected, no standard or blank samples were inserted into the sample stream by the author. Anomalous levels were based on those previously reported as this year's sample size was only 20 samples making statistical analysis of questionable value. As gold and the pathfinder elements arsenic and antimony are consider the only metals of importance in the search for a gold deposit on the property, the results for samples with anomalous levels in these metals are tabulated in the table below. Arsenic is the key pathfinder element, the location of the anomalous arsenic samples are shown on figure 8. The results for gold, antimony are plotted om maps available in Appendix VI.

Table 3 Anomalous Pathfinder Metals

Sample No.	Gold ppb	Arsenic ppm	Antimony ppm		
WB15	3	**216**	**17.1**		
C328325	5	**353**	3.9		
C328326	9	**142**	**9.7**		
C328328	3	**745**	**280.1**		
WB 5	**24**	7	0.9		
WB 7	**18**	**1671**	**256.2**		
WB 8	6	**76**	**11.3**		

Highlighted numbers indicate anomalous levels of metal

All of the samples with anomalous levels of gold, arsenic and antimony were collected from rocks with kaolinite-silica or kaolinite dominant alteration noted in the TerraSpec analyses. The high levels of these metals in rocks along with alteration temperatures below 250° C suggests potential for higher gold grades to be found at depth beneath the surface exposures.

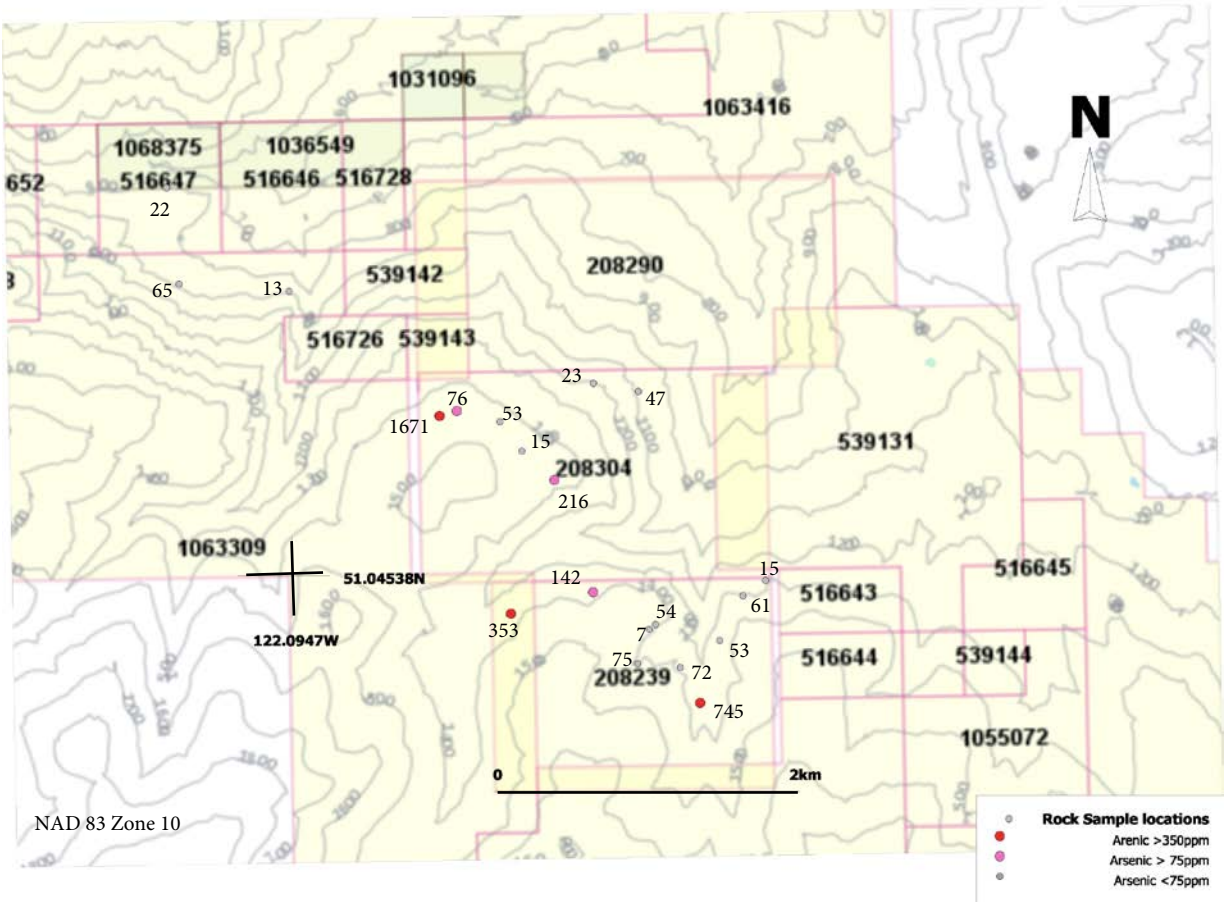


Figure 8: Arsenic Results in Rock Samples

As in ppm is listed adjacent to each colour coded sample site

8.0 CONCLUSIONS

TerraSpec analyses in combination with rock sample results show anomalous pathfinder elements are associated with those rocks with dominant kaolinite with or without silicification. The presence of highly crystalline kaolinite lacking illite is indicative of epithermal alteration developed at 200^{o} C hence below 250^{o} C where gold is typically deposited. If an epithermal gold deposit is present on the property, it will lie at depth beneath the kaolinized and silicified outcrops sampled in this year's program.

The single gold-in-soil sample located west of the MAD adit, documented in previous reports could not be verified by the four samples collected this year. A number of possible reasons for the discrepancy are the erratic nature of gold in soil (nugget effect), analytical error or a plotting mix up.

The area of anomalous copper in soil located west of Zone V reported previously could not be verified by this year's soil and rock sampling. It is most likely the earlier reported analyses were an analytical error.

9.0 RECOMMENDATIONS

TerraSpec sampling should be expanded to cover all of the known areas of alteration and mineralization on the property to develop an alteration zoning map of the property. The alteration map will greatly assist with developing drill targets by identifying areas of higher temperature. In conjunction with rock sampling specific areas would be identified with potential for an epithermal gold deposit at depth.

No additional work is recommended for the area of the historically documented copper – in – soil anomaly or the single station gold – in – soil anomaly.

10.0 STATEMENT OF COSTS

Preparatory Work

27 July 2019
R Durfeld: Planning / Maps / Supplies hrs@ $100/ hr **$ 400.00**

Field Related

John McClintock P. Eng: Sampling and travel		
28 July through 2 August: 40hrs @ $100 / hr	$4, 00.00	
R. Durfeld P.Geo: Sampling and travel		
28 July through 2 August: 40hrs @ $100 / hr	$4 00.00	
Groceries and meals	$240.00	
Truck and fuel, days @ $100 per day	$ 00.00	
TerraSpec Spectral Analysis K Heberlein P.Geo	$845.25	
BVL Laboratories Chemical analysis 20 rocks & 8soils	$1,367.32	
		$ 12,552.57
Report Preparation		
J. McClintock P.Eng 14 May, hrs@$100/hr	$ 00.00	
		$ 600.00
Total Expenditures		**$ 14,352.57**

11.0 REFERENCES

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12.0 CERTIFICATION

I, John McClintock, residing at 902 – 1470 Pennyfarthing Drive, Vancouver, British Columbia, do hereby certify that:

1. I am a consulting Geologist;
2. I obtained a BSc (Hons) from the University of British Columbia in 1973 and an MBA from Simon Fraser University in 1989;
3. I have continually practised my profession as a geologist since 1973;
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia registration number 12078;
5. I visited the property from 29 July to 1 August 2019 and am responsible for the work carried out on the property;
6. I have a 25% interest in the Watson bar Property.

Dated and sealed at Vancouver, British Columbia, 23 November, 2019

Appendix I

Report by K. Heberlein P.Geo

Kim Heberlein
21146 Stonehouse Avenue
Maple Ridge, B.C.
Canada V2X 8L9
Cell: 778-228-5231
Tel: 604-466-2087

6th September 2019

MGM
902 – 1470 Pennyfarthing Drive
Vancouver, BC
Canada V6J 4Y2

Attn: Jack McClintock
Re: TerraSpec spectral analysis (KH262/Watson Bar)

TerraSpec spectral analysis was run on 23 grab samples from the Watson Bar low sulphidation epithermal prospect. At least 2 readings were taken from each sample. Spectral quality is mostly excellent with only a couple of noisy spectra, likely due to dark samples. The results are on the attached Excel sheet.

Minerals identified include kaolinite, illite, smectite, chlorite, carbonate, Fe oxy/hydroxides, probable dickite, possible epidote, and silica. Kaolinite is the dominant mineralogy.

Kaolinite is present in all samples but one (WB-22) and is almost entirely highly crystalline. One sample also likely contains minor dickite (WB-7).

Minor smectite is present with the kaolinite and is likely montmorillonite.

Illite is rare. Composition is not discernible except in WB-22 where it appears to be normal muscovitic to high aluminum (paragonitic) composition and highly crystalline. It occurs with chlorite. This sample gave the weakest and noisiest spectra, likely due to the darkness of the sample. Chlorite in WB-22 and WB-23 is Fe>Mg to Fe rich composition.

Epidote is possibly present in WB23.

Carbonates include calcite and Fe carbonate. There is likely more carbonate present than noted as carbonate has a lower absorption coefficient than kaolinite.

Fe oxy/hydroxides are common and are mainly goethite and minor hematite.

Silica is not infrared active but is suggested by the presence of large water features in the spectra.

A number of spectral parameters were considered (see Excel sheet).

The 2200nm AlOH composition feature appears to be of minimal use due to the presence of ubiquitous kaolinite overlap. However, the single sample where it was able to be determined does indicate normal to high Al content for illite (WB-22).

The 2250nm FeOH feature is sufficient to show chlorite composition.

The 2300nm MgOH/Carbonate feature overlaps with several other features and so does not give a clear indication of carbonate composition.

The Fe2+ slope is a better indicator of carbonate composition as it does show the presence of Fe carbonate. However, the common presence of Fe oxy/hydroxides likely will interfere with using this to map out Fe carbonates.

White mica crystallinity is also of minimal usefulness due to interference from kaolinite.

The kaolinite crystallinity indicates a generally high order of crystallization (>1) for most samples. There is some minor variation to lower numbers which may reflect the greater abundance of smectite in those samples.

If you have any questions regarding this analysis, please don't hesitate to contact me.

Best Regards

Kim Heberlein, P.Geo.
kimheberlein@telus.net

TSP SPECTRAL ANALYSIS
KH262/Watson Bar

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	SAMPLE ID	DEPTH FROM	Mineral ID_1	Mineral ID_2	Mineral ID_3	2200 WAVE	2250 WAVE	2300 WAVE	Fe E WAVE	White Mica XLN	White mica:Chl-Ca	Kaol XLN	Fe2+ slope	DIK	KAO	HiX ILL	ILL	SMEC	CHL	EPID	CAR	GOE	HEM	SIL	COMMENTS
2	516.000		Kaolinite	Fe Carbonate		2210	2261	2358	NULL	NULL	3.326	1.034	1.207		X		q				x				gy hard f xln. Good kaolinite
3	516.001		Kaolinite	Fe Carbonate		2210	2257	2358	NULL	NULL	2.462	1.029	1.559		X		q				X				lt gy area. Good kaolinite
4	MAD3.000		Kaolinite	Fe Carbonate	Illite	2210	NULL	2356	759	NULL	3.269	1	1.435		X						X	x			lt gy/bn, bn splotches hard. Moderately good kaolinite
5	MAD3.001		Kaolinite	Montmorillonite	Fe Carbonate?	2210	NULL	NULL	783	NULL	3.819	1.038	1.288		X						p	x			wh area. Good xln kaolinite
6	MAD3.002		Kaolinite	Illite		2210	NULL	2356	765	NULL	3.783	0.988	1.138		X		x				q	x			Moderately good kaolinite
7	H97_5.000	201.5	Kaolinite		Fe Carbonate?	2210	NULL	NULL	786	NULL	3.94	1.028	1.147		X						p	x		q	redbn mod hard hem
8	H97_5.001		Kaolinite		Fe Carbonate?	2210	NULL	2326	799	NULL	2.198	1.051	1.166		X						p			q	wh fract coat
9	C328325.000		Kaolinite	Montmorillonite		2210	NULL	NULL	772	NULL	6.012	1.037	1.046		X			x				x			wh variably hard clay mx
10	C328325.001		Kaolinite	Montmorillonite		2210	2241	NULL	771	NULL	5.804	1.041	1.049		X			x				x			lim
11	C328326.000		Kaolinite	Montmorillonite		2210	2245	NULL	761	NULL	3.943	1.101	1.144		X			x				x			bn lim throut hard,wh splotchy altn
12	C328326.001		Kaolinite	Montmorillonite		2210	2247	NULL	761	NULL	3.894	1.101	1.165		X			x				x			strong lim frac
13	C328327.000		Kaolinite	Montmorillonite		2210	NULL	NULL	764	NULL	2.998	1.03	1.066		X			x				x			redgybn hard
14	C328327.001		Kaolinite	Montmorillonite		2210	NULL	NULL	771	NULL	4.645	1.028	1.124		X			x				x			
15	C328328.000		Kaolinite	Illite	Fe Carbonate	2208	NULL	2337	702	0.889	3.126	0.967	1.080		x		x				x	x		x	gy qz gn areas/lim fract. Weak kaolinite
16	C328328.001		Fe Carbonate	Kaolinite	Silica?	2208	NULL	2334	813	NULL	NULL	0.998	1.045		x						X			x	lim/wh fract
17	C328330.000		Kaolinite	Montmorillonite		2210	NULL	NULL	781	NULL	4.788	1.049	1.130		X			x				x			offwh hard qzy
18	C328330.001		Kaolinite	Montmorillonite		2210	2245	NULL	783	NULL	3.536	1.052	1.174		X			x				x			lim fract
19	C328331.000		Kaolinite	FeMg Chlorite		2210	2255	2353	NULL	NULL	1.846	1.039	1.413		X				X						med gngy fg hard
20	C328331.001		Kaolinite	FeMg Chlorite	Fe Carbonate?	2210	2255	2355	772	NULL	2.352	1.019	1.144		X				X		x				dusty fract coat
21	WB_1.000		Kaolinite	Fe Carbonate		2210	NULL	NULL	758	NULL	4.259	1.034	1.471		X						X				lt bngy hard
22	WB_1.001		Kaolinite	Fe Carbonate	Montmorillonite	2210	NULL	NULL	752	NULL	4.362	1.02	1.312		X			x			X	x	x		fract
23	WB_4.000		Kaolinite			2210	NULL	NULL	773	NULL	4.158	1.02	1.016		X						q	x		q	gybn patchy sil/lim altn hard
24	WB_4.001		Calcite	Kaolinite		2210	NULL	2337	761	NULL	0.327	1.021	1.048		x						X	x		q	fract
25	WB_6.000		Silica?	Kaolinite	Calcite	2208	NULL	2344	760	NULL	0.958	0.992	0.999		x			x			x	x		X	bn/wh qz strong lim fract
26	WB_6.001		Kaolinite	Montmorillonite		2208	NULL	NULL	763	NULL	3.529	1.014	1.060		X			X			q	x			
27	WB_7.000		Kaolinite		Silica?	2210	NULL	NULL	753	NULL	3.423	1.035	1.035		X							x	x	x	gy banded qzy strong lim. Noisy upper waves
28	WB_7.001		Kaolinite		Dickite?	2210	NULL	NULL	767	NULL	4.545	1.158	1.158	p	X							x			
29	WB_8.000		Kaolinite		Fe Carbonate?	2210	NULL	2326	765	NULL	2.319	1.03	1.201		X						p	x		q	bn patchy variably lim throut hard
30	WB_8.001		Kaolinite	Montmorillonite		2210	NULL	NULL	767	NULL	3.976	1.052	1.229		X			x			q	x			
31	WB_9.000		Kaolinite	Montmorillonite		2210	2247	NULL	766	NULL	3.54	1.085	1.213		X			x				x			gybn hard silic wh fs lim frac
32	WB_9.001		Kaolinite	Montmorillonite		2210	2241	NULL	771	NULL	3.312	1.12	1.283		X			x							
33	WB_10.000		Kaolinite	Montmorillonite		2210	2247	NULL	767	NULL	5.484	1.043	1.098		X			x							wh soft altn, strong lim fract/wash
34	WB_10.001		Kaolinite	Montmorillonite		2210	2247	NULL	773	NULL	8.307	1.011	1.036		X			x				x			
35	WB_11.000		Kaolinite	Montmorillonite		2208	2247	NULL	765	NULL	5.025	1.032	1.080		X			x				x			gy/bn qzy strong lim
36	WB_11.001		Kaolinite	Montmorillonite		2208	2241	NULL	765	NULL	5.199	1.033	1.075		X			x				x			
37	WB_15.000		Kaolinite	Montmorillonite		2208	2247	NULL	782	NULL	5.004	1.028	1.114		X			x				x			gy/bn qzy strong lim
38	WB_15.001		Kaolinite	Montmorillonite		2208	NULL	NULL	765	NULL	5.317	0.985	1.054		X			x				x			

X=major spectral component;x=minor component;Tr=Trace;p=probable;q=questionable

K. Heberlein

TSP SPECTRAL ANALYSIS
KH262/Watson Bar

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	**SAMPLE ID**	**DEPTH FROM**	**Mineral ID_1**	**Mineral ID_2**	**Mineral ID_3**	**2200 WAVE**	**2250 WAVE**	**2300 WAVE**	**Fe E WAVE**	**White Mica XLN**	**White mica:Chl-Ca**	**Kaol XLN**	**Fe2+ slope**	**DIK**	**KAO**	**HiX ILL**	**ILL**	**SMEC**	**CHL**	**EPID**	**CAR**	**GOE**	**HEM**	**SIL**	**COMMENTS**
39	WB_17.000		Kaolinite		Silica?	2210	NULL	NULL	761	NULL	3.495	1.09	1.115		X							x		q	offwh/strong lim speckled/wash throut
40	WB_17.001		Kaolinite		Silica?	2210	NULL	2328	772	NULL	2.703	1.043	1.132		X						p	x		q	
41	WB_18.000		Kaolinite	Montmorillonite		2208	2245	NULL	764	NULL	3.143	1.108	1.368		X			x				x			gy qzy strong bn lim speckled/splotchy altn
42	WB_18.001		Kaolinite		Silica?	2210	2245	NULL	770	NULL	3.831	1.083	1.235		X			q				x		p	
43	WB_19.000		Kaolinite		Silica?	2210	NULL	NULL	786	NULL	3.037	1.053	1.227		X							x		p	gybn hard lim patchy
44	WB_19.001		Kaolinite			2210	NULL	NULL	783	NULL	4.046	1.04	1.094		X							x		q	
45	WB_22.000		Fe Chlorite	Illite		2203	2257	2356	702	1.658	0.599	NULL	0.995		q	x			X						dk gy mod soft massive. Weak noisy spectrum
46	WB_22.001		FeMg Chlorite	Illite_Hi Al		2196	2255	2349	NULL	1.096	0.525	NULL	1.015			X			X						HF
47	WB_23.000		Kaolinite	FeMg Chlorite		2210	2255	2336	717	NULL	1.322	1.031	1.264		X		p		X	q	q				bngy hard wk mafic specks
48	WB_23.001		Kaolinite	Fe Chlorite	Fe Carbonate?	2210	2257	2336	731	NULL	1.021	1.018	1.130		X		p		X	q	x				wh fract

X=major spectral component;x=minor component;Tr=Trace;p=probable;q=questionable

K. Heberlein

Appendix II
Geographical Co-ordinates of TerraSpec and Geochemical Samples

Soil Sample Locations

Sample	EastUTM	NorthUTM	Elev m	Description
MAD 1	562601	5657904	845	Ash layer, gritty; grey colour; 10 cm depth
MAD 1B	562601	5657904	845	B horizon, clay rich; colour brown; 35cm depth
MAD 2	562610	5657952	862	Ash layer gritty; colour grey; depth 10 cm
MAD 2B	562610	5657952	862	B horizon, clay rich; colour brown; 30 cm depth
WB 10-01	564977	5656375	1436	B horizon, mixed silt and clay sized; greyish brown; 20 cm depth
WB 20	565465	5656730	1043	B horizon, sandy clay; grey-brown; 20cm depth
WB 21	565453	5656738	1187	B horizon, sandy clay; grey-brown; 25cm depth
WB 22	565471	5656742	1171	B horizon, sandy clay; grey brown; 30cm depth

NAD 83, Zone 10

Terra Spec Sample Locations

Name	Easting	Northing	Elevation	Alteration
WB 4	566092	5654922		Carb
WB 7	564545	5656416	1453	Kaol_sil
WB 8	564668	5656452	1459	Kaol_sil
WB 10	564977	5656375	1436	Kaol_sil
WB 11	564986	5656302	1461	Kaol_sil
WB 15	565367	5655957	1406	Kaol_sil
WB 22	565471	5656742	1171	Chlorite
WB 17	565623	5655895	1359	Kaol
WB 18	565714	5655856	1335	Kaol
WB 19	565754	5655901	1312	Kaol
WB 6	565965	5654641	1414	Kaol_sil
WB 23	565647	5656650	1211	Chlorite
MAD3	562589	5658050	834	Carb
H97_5	563829	5657060	1120	Kaol
516	562679	5657361	881	Carb
C328325	565057	5654999	1378	Kaol
C328326	565645	5655153	1397	Kaol
C328327	566269	5654615	1380	Kaol
C328328	566412	5654360	1354	Kaol
C328330	566719	5655127	1311	Carb
C328331	566881	5655238	1281	Chlorite
WB 1	565968	5656592	1120	Carb
WB 9	564884	5656399	1420	Kaol

NAD 83, Zone 10

Rock Sample Locations

Name	Easting	Northing	Elevation
516	562679	5657361	881
C328325	565057	5654999	1378
C328326	565645	5655153	1397
C328327	566269	5654615	1380
C328328	566412	5654360	1354
C328329	566552	5654807	1366
C328330	566719	5655127	1311
C328331	566881	5655238	1281
MAD 6	563467	5657309	896
MAD3	562589	5658050	834
WB 1	565968	5656592	
WB 10	564977	5656375	1436
WB 12	565134	5656165	1441
WB 15	565367	5655957	1406
WB 23	565647	5656650	1211
WB 4	566092	5654922	1120
WB 5	566047	5654887	1381
WB 6	565965	5654641	1414
WB 7	564545	5656416	1453
WB 8	564668	5656452	1459

NAD 83, Zone 10

Appendix III
Geochemical Analytical Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

Client: **John McClintock**
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 14, 2019
Report Date: September 12, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN19002234.1

CLIENT JOB INFORMATION

Project: Watson Bar
Shipment ID:
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT Dispose of Reject After 60 days

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

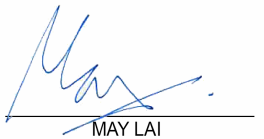
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	8	Dry at 60C			VAN
SS80	8	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	8	Save all or part of Soil Reject			VAN
AQ130	8	Acid digest, Au by ICP-MS analysis	30	Completed	VAN
MA200	8	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	8	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: John McClintock
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2
Canada

CC:



MAY LAI
Data Validation Specialist

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **John McClintock**
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002234.1

	Method	AQ130	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.5	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001
MAD 1	Soil	2.4	1.1	23.6	10.5	88	<0.1	32.9	14.4	931	3.45	11	1.1	3.4	395	0.1	0.6	0.1	90	1.92	0.021
MAD 1B	Soil	2.8	0.8	44.1	8.4	86	<0.1	53.8	17.8	612	4.52	19	1.0	3.5	361	0.1	1.0	0.1	119	1.99	0.023
MAD 2	Soil	2.8	0.8	34.3	8.4	90	<0.1	49.5	18.4	946	4.22	15	1.0	2.8	393	0.1	0.8	0.1	127	2.23	0.025
MAD 2B	Soil	3.8	0.8	48.2	7.4	88	<0.1	62.6	18.8	590	5.01	19	0.9	3.3	335	0.1	1.0	<0.1	138	2.20	0.023
WB 10-01	Soil	4.5	2.1	60.8	9.3	84	<0.1	32.1	15.4	594	4.46	92	1.0	2.9	272	0.1	1.4	0.1	134	1.25	0.047
WB 20	Soil	2.7	0.4	130.2	7.2	85	<0.1	30.9	23.2	622	4.29	23	0.5	1.2	669	<0.1	1.1	<0.1	177	1.92	0.031
WB 21	Soil	1.8	1.0	54.5	9.6	88	<0.1	27.6	20.0	883	3.30	12	1.0	2.5	397	0.2	0.7	<0.1	108	2.02	0.112
WB 22	Soil	1.4	0.6	64.2	7.2	93	<0.1	49.6	25.7	546	4.97	22	0.5	1.6	494	<0.1	1.5	<0.1	215	1.28	0.035

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **John McClintock**
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002234.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb
Unit		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
MDL		0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1
MAD 1	Soil	15.5	56	0.97	663	0.437	7.95	2.379	1.51	0.5	73.9	35	0.9	12.3	6.9	0.5	1	11	17.8	<0.1	38.1
MAD 1B	Soil	16.9	94	1.00	575	0.525	8.14	1.836	1.30	0.5	77.8	36	1.0	16.1	7.4	0.5	1	14	18.2	<0.1	43.6
MAD 2	Soil	15.2	101	1.27	602	0.561	8.13	2.103	1.34	0.5	63.8	33	0.9	14.4	6.9	0.5	1	14	17.8	<0.1	41.2
MAD 2B	Soil	15.6	118	1.30	573	0.559	8.01	1.719	1.22	0.5	74.8	33	1.0	14.7	7.4	0.5	1	15	17.4	<0.1	39.1
WB 10-01	Soil	17.0	61	1.04	637	0.449	8.32	1.685	1.28	0.6	43.4	38	0.8	15.0	4.4	0.3	1	15	21.7	<0.1	39.7
WB 20	Soil	10.6	35	1.32	810	0.482	11.09	1.892	0.89	0.3	27.5	22	0.6	11.5	2.4	0.1	<1	17	39.4	<0.1	21.4
WB 21	Soil	13.3	39	0.99	665	0.386	8.74	2.040	1.43	0.4	58.4	30	0.7	10.5	4.9	0.4	1	12	28.4	<0.1	31.3
WB 22	Soil	13.3	71	1.18	662	0.546	11.00	1.494	1.03	0.5	32.5	31	0.7	13.0	3.2	0.2	<1	22	45.9	<0.1	33.5

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **John McClintock**
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002234.1

Method		MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.05	0.005	1	0.5	0.5
MAD 1	Soil	2.1	<0.05	<0.005	<1	<0.5	<0.5
MAD 1B	Soil	2.2	0.05	<0.005	<1	<0.5	<0.5
MAD 2	Soil	1.9	<0.05	<0.005	<1	<0.5	<0.5
MAD 2B	Soil	2.1	0.05	<0.005	<1	<0.5	<0.5
WB 10-01	Soil	1.4	<0.05	<0.005	<1	<0.5	<0.5
WB 20	Soil	1.0	0.05	<0.005	<1	<0.5	<0.5
WB 21	Soil	1.7	<0.05	<0.005	<1	<0.5	<0.5
WB 22	Soil	1.0	0.06	<0.005	<1	<0.5	<0.5

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Report Date: September 12, 2019

QUALITY CONTROL REPORT VAN19002234.1

	Method	AQ130	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.5	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001
Pulp Duplicates																					
WB 21	Soil	1.8	1.0	54.5	9.6	88	<0.1	27.6	20.0	883	3.30	12	1.0	2.5	397	0.2	0.7	<0.1	108	2.02	0.112
REP WB 21	QC	1.3																			
WB 22	Soil	1.4	0.6	64.2	7.2	93	<0.1	49.6	25.7	546	4.97	22	0.5	1.6	494	<0.1	1.5	<0.1	215	1.28	0.035
REP WB 22	QC		0.6	65.8	6.9	94	<0.1	50.9	26.3	558	5.02	22	0.5	1.4	502	<0.1	1.5	<0.1	220	1.30	0.036
Reference Materials																					
STD OREAS25A-4A	Standard		2.2	28.6	22.4	40	<0.1	44.7	7.0	473	6.39	9	2.4	13.6	45	<0.1	0.5	0.3	145	0.29	0.043
STD OREAS45E	Standard		2.1	724.4	15.7	40	0.2	448.4	54.7	517	23.18	13	2.1	11.0	14	<0.1	0.8	0.2	314	0.06	0.029
STD OREAS901	Standard	330.8																			
STD OREAS901 Expected		363																			
STD OREAS25A-4A Expected			2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034
BLK	Blank	<0.5																			
BLK	Blank		<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001

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Project: Watson Bar
Report Date: September 12, 2019

QUALITY CONTROL REPORT VAN19002234.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	MDL	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1
Pulp Duplicates																					
WB 21	Soil	13.3	39	0.99	665	0.386	8.74	2.040	1.43	0.4	58.4	30	0.7	10.5	4.9	0.4	1	12	28.4	<0.1	31.3
REP WB 21	QC																				
WB 22	Soil	13.3	71	1.18	662	0.546	11.00	1.494	1.03	0.5	32.5	31	0.7	13.0	3.2	0.2	<1	22	45.9	<0.1	33.5
REP WB 22	QC	12.5	74	1.21	675	0.560	11.43	1.522	1.04	0.5	32.9	29	0.8	13.1	3.3	0.2	<1	22	47.3	<0.1	34.5
Reference Materials																					
STD OREAS25A-4A	Standard	20.7	110	0.32	133	0.907	9.20	0.129	0.46	1.7	145.6	47	3.4	9.1	18.1	1.3	<1	12	32.4	<0.1	59.8
STD OREAS45E	Standard	9.7	982	0.15	230	0.495	6.65	0.056	0.31	0.9	88.4	21	1.1	6.7	5.7	0.5	<1	84	5.5	<0.1	19.1
STD OREAS901	Standard																				
STD OREAS901 Expected																					
STD OREAS25A-4A Expected		21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61
STD OREAS45E Expected		11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2
BLK	Blank																				
BLK	Blank	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1

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Vancouver British Columbia V6J 4Y2 Canada

Project: Watson Bar
Report Date: September 12, 2019

QUALITY CONTROL REPORT VAN19002234.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates							
WB 21	Soil	1.7	<0.05	<0.005	<1	<0.5	<0.5
REP WB 21	QC						
WB 22	Soil	1.0	0.06	<0.005	<1	<0.5	<0.5
REP WB 22	QC	1.0	0.05	<0.005	<1	<0.5	<0.5
Reference Materials							
STD OREAS25A-4A	Standard	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	2.6	0.09	<0.005	2	<0.5	<0.5
STD OREAS901	Standard						
STD OREAS901 Expected							
STD OREAS25A-4A Expected		4.14	0.09		2.4		0.35
STD OREAS45E Expected		3.11	0.099		2.97	0.1	0.15
BLK	Blank						
BLK	Blank	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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Client: **John McClintock**
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 14, 2019
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002235.1

CLIENT JOB INFORMATION

Project: Watson Bar
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT Dispose of Reject After 60 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	20	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA330	20	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	20	Environmental disposal charge-Fire assay lead waste			VAN
MA200	20	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	20	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: John McClintock
902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2
Canada

CC:

MAY LAI
Data Validation Specialist

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Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002235.1

Method		WGHT	FA330	FA330	FA330	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
Unit		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1
C328325	Rock	1.83	5	<3	6	1.0	30.5	8.7	74	<0.1	21.0	15.7	770	4.09	353	0.8	2.7	276	0.1	3.9	<0.1
C328326	Rock	1.37	9	<3	11	24.4	162.0	1.4	15	<0.1	14.3	11.7	696	4.11	142	0.2	0.4	145	<0.1	9.7	<0.1
C328327	Rock	0.64	5	<3	13	0.8	56.5	6.6	78	<0.1	18.7	14.2	793	3.53	72	0.8	2.2	444	<0.1	3.3	<0.1
C328328	Rock	1.38	3	<3	7	1.6	19.4	13.1	104	<0.1	6.4	11.3	395	1.71	745	0.8	1.7	310	0.2	280.1	<0.1
C328329	Rock	0.84	3	<3	5	0.2	2.4	3.9	13	<0.1	<0.1	0.6	194	0.75	53	0.9	3.3	214	<0.1	4.0	<0.1
C328330	Rock	0.68	4	<3	4	0.8	20.2	7.2	24	<0.1	0.7	0.7	284	0.76	61	1.2	3.7	283	<0.1	5.7	<0.1
C328331	Rock	0.93	5	<3	6	0.5	63.2	3.6	83	<0.1	26.8	18.9	645	4.95	15	0.1	0.6	1212	<0.1	0.9	<0.1
WB 1	Rock	0.80	3	<3	4	0.7	44.4	5.3	79	<0.1	30.7	21.8	655	4.67	47	0.4	0.9	747	<0.1	0.6	<0.1
WB 4	Rock	0.86	6	<3	5	0.6	43.9	3.1	72	<0.1	23.9	13.6	812	4.13	54	0.9	2.2	315	<0.1	1.8	<0.1
WB 5	Rock	1.17	24	<3	11	11.0	249.7	1.9	26	<0.1	15.0	11.3	359	4.41	7	1.0	2.7	727	<0.1	0.9	<0.1
WB 6	Rock	1.52	4	<3	10	4.6	75.2	4.9	52	<0.1	21.1	13.1	668	3.03	75	0.5	1.0	893	<0.1	15.4	<0.1
WB 7	Rock	0.82	18	<3	2	1.9	68.3	60.2	14	0.1	2.9	2.0	35	1.22	1671	1.3	1.7	1504	<0.1	256.2	<0.1
WB 8	Rock	0.91	6	<3	5	13.9	101.6	3.9	60	<0.1	24.2	14.2	717	4.32	76	0.9	2.4	341	<0.1	11.3	<0.1
WB 10	Rock	0.83	4	<3	4	0.8	20.4	3.3	18	<0.1	15.8	10.5	651	2.08	53	1.8	4.0	317	<0.1	3.2	<0.1
WB 12	Rock	1.19	2	<3	<2	2.0	31.8	7.4	19	0.4	2.5	1.7	382	1.06	15	0.5	0.5	132	<0.1	76.3	<0.1
WB 15	Rock	0.72	3	<3	2	0.8	11.2	20.8	14	<0.1	3.1	2.4	947	1.10	216	0.6	2.3	365	<0.1	17.1	<0.1
516	Rock	0.81	4	<3	3	0.2	48.3	4.2	71	<0.1	18.2	20.2	1230	4.84	65	0.5	1.3	610	<0.1	4.7	<0.1
MAD 3	Rock	0.48	3	<3	4	<0.1	5.3	6.8	38	<0.1	4.1	6.2	492	2.12	22	1.1	2.3	549	<0.1	0.7	<0.1
MAD 6	Rock	1.00	5	<3	<2	0.1	39.4	2.7	68	<0.1	30.2	26.4	1361	5.44	13	0.2	0.4	902	<0.1	0.7	<0.1
WB 23	Rock	0.30	3	<3	<2	0.1	29.0	2.1	25	<0.1	50.0	14.3	2457	3.57	23	<0.1	0.2	1194	<0.1	0.9	<0.1

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Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002235.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	1	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1
C328325	Rock	146	0.35	0.067	14.1	43	0.06	535	0.434	7.87	1.643	1.10	0.8	15.2	28	0.9	14.8	3.5	0.2	<1	16
C328326	Rock	159	11.18	0.038	5.6	19	0.23	1078	0.339	6.84	0.143	0.20	2.0	3.8	11	0.2	8.5	1.1	<0.1	<1	14
C328327	Rock	114	4.30	0.087	10.8	26	0.39	278	0.358	7.68	2.372	0.17	1.1	15.2	25	0.6	12.7	3.3	0.2	1	13
C328328	Rock	91	2.37	0.047	10.2	10	0.60	47	0.272	5.68	0.028	0.30	21.2	31.4	21	0.3	8.0	1.9	0.1	1	10
C328329	Rock	4	1.28	0.019	12.4	2	0.11	244	0.043	6.46	1.561	1.14	0.5	21.2	24	0.2	4.8	2.2	0.2	<1	1
C328330	Rock	5	0.40	0.020	14.4	2	0.07	904	0.056	7.01	1.547	1.06	1.0	21.5	27	0.3	4.9	2.5	0.2	<1	1
C328331	Rock	173	3.64	0.086	6.8	43	1.47	293	0.466	9.05	2.786	0.19	0.7	3.2	17	0.2	9.2	2.2	0.1	1	15
WB 1	Rock	169	2.15	0.102	11.9	34	1.07	216	0.469	8.78	3.870	0.31	0.2	26.9	24	0.5	8.7	2.2	0.1	1	16
WB 4	Rock	134	3.90	0.067	10.1	38	1.26	365	0.364	7.40	0.359	1.01	0.5	17.4	21	0.7	15.9	2.8	0.2	1	15
WB 5	Rock	135	2.33	0.083	7.6	35	0.99	685	0.293	8.21	2.886	0.99	2.4	28.3	16	0.4	8.8	2.2	0.1	2	12
WB 6	Rock	109	5.33	0.065	9.0	24	1.35	390	0.301	7.51	1.489	0.48	0.8	6.9	18	0.2	9.7	1.6	0.1	<1	12
WB 7	Rock	90	0.07	0.093	12.4	25	0.04	71	0.291	5.57	0.045	0.28	11.4	8.9	25	0.2	6.7	2.0	0.1	<1	8
WB 8	Rock	148	1.65	0.076	10.6	39	0.55	106	0.379	8.22	0.036	0.32	1.0	11.2	23	0.4	13.2	2.7	0.2	<1	18
WB 10	Rock	83	0.59	0.078	12.2	31	0.05	879	0.299	8.25	1.823	1.60	2.1	12.5	30	0.3	6.6	3.1	0.2	<1	8
WB 12	Rock	25	2.04	0.015	3.8	5	0.53	93	0.041	1.92	0.031	0.49	3.5	5.2	7	<0.1	2.6	0.3	<0.1	<1	2
WB 15	Rock	7	0.38	0.033	8.0	3	0.06	306	0.034	4.54	0.043	0.87	0.8	13.3	16	<0.1	3.3	1.3	0.1	<1	<1
516	Rock	164	4.98	0.085	11.6	19	2.12	86	0.424	8.24	1.542	0.22	0.3	26.4	24	0.6	12.4	2.1	0.1	<1	17
MAD 3	Rock	51	2.66	0.051	8.9	9	1.03	685	0.184	7.59	2.311	1.12	0.2	32.8	18	0.2	6.9	2.1	0.2	2	5
MAD 6	Rock	180	9.67	0.070	8.6	30	2.62	248	0.403	7.00	1.161	0.25	0.2	17.1	19	0.3	11.9	1.1	<0.1	<1	19
WB 23	Rock	99	24.05	0.029	5.5	88	3.11	760	0.212	2.82	0.706	0.02	0.2	9.7	12	<0.1	16.1	0.4	<0.1	1	12

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902 - 1470 Pennyfarthing Dr.
Vancouver British Columbia V6J 4Y2 Canada

Project: Watson Bar
Report Date: September 12, 2019

CERTIFICATE OF ANALYSIS VAN19002235.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Li	S	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.1	0.1	0.05	0.005	1	0.5	0.5
C328325	Rock	17.5	<0.1	23.1	0.7	0.07	<0.005	<1	<0.5	0.5
C328326	Rock	26.6	<0.1	9.4	0.2	<0.05	<0.005	<1	0.7	<0.5
C328327	Rock	19.2	0.1	4.8	0.6	0.07	<0.005	<1	<0.5	<0.5
C328328	Rock	197.5	0.2	9.3	0.8	0.05	<0.005	<1	<0.5	<0.5
C328329	Rock	17.9	<0.1	35.2	1.0	<0.05	<0.005	<1	<0.5	<0.5
C328330	Rock	30.6	<0.1	36.1	1.1	<0.05	<0.005	<1	<0.5	<0.5
C328331	Rock	12.2	<0.1	2.5	0.1	<0.05	<0.005	<1	<0.5	<0.5
WB 1	Rock	18.9	<0.1	5.3	1.0	0.07	<0.005	<1	<0.5	<0.5
WB 4	Rock	19.1	<0.1	27.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
WB 5	Rock	14.2	<0.1	37.8	1.1	<0.05	<0.005	<1	<0.5	<0.5
WB 6	Rock	26.7	<0.1	13.2	0.2	<0.05	<0.005	<1	0.6	<0.5
WB 7	Rock	86.5	<0.1	8.9	0.3	<0.05	<0.005	<1	<0.5	23.6
WB 8	Rock	31.9	<0.1	11.5	0.5	<0.05	<0.005	<1	<0.5	<0.5
WB 10	Rock	12.7	<0.1	34.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
WB 12	Rock	37.6	<0.1	14.9	0.1	<0.05	<0.005	<1	<0.5	<0.5
WB 15	Rock	29.8	<0.1	24.2	0.6	<0.05	<0.005	<1	<0.5	<0.5
516	Rock	39.7	<0.1	4.7	1.1	0.06	<0.005	<1	<0.5	<0.5
MAD 3	Rock	16.4	<0.1	31.9	1.1	<0.05	<0.005	<1	<0.5	<0.5
MAD 6	Rock	22.6	<0.1	7.8	0.8	<0.05	0.008	<1	0.8	<0.5
WB 23	Rock	15.5	<0.1	0.4	0.4	<0.05	<0.005	<1	2.9	<0.5

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Project: Watson Bar
Report Date: September 12, 2019

QUALITY CONTROL REPORT VAN19002235.1

	Method	WGHT	FA330	FA330	FA330	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1
Pulp Duplicates																					
516	Rock	0.81	4	<3	3	0.2	48.3	4.2	71	<0.1	18.2	20.2	1230	4.84	65	0.5	1.3	610	<0.1	4.7	<0.1
REP 516	QC					0.2	50.1	4.3	78	<0.1	18.5	20.2	1240	4.92	70	0.5	1.3	611	<0.1	4.7	<0.1
WB 23	Rock	0.30	3	<3	<2	0.1	29.0	2.1	25	<0.1	50.0	14.3	2457	3.57	23	<0.1	0.2	1194	<0.1	0.9	<0.1
REP WB 23	QC		3	<3	<2																
Core Reject Duplicates																					
WB 5	Rock	1.17	24	<3	11	11.0	249.7	1.9	26	<0.1	15.0	11.3	359	4.41	7	1.0	2.7	727	<0.1	0.9	<0.1
DUP WB 5	QC		24	<3	4	11.2	240.5	1.8	21	<0.1	15.6	10.5	354	4.42	8	1.0	3.0	724	<0.1	0.9	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard					2.4	31.9	24.1	42	<0.1	44.8	7.7	464	6.26	9	2.8	15.5	44	<0.1	0.6	0.3
STD OREAS45E	Standard					2.4	781.2	18.8	47	0.3	465.6	60.2	553	24.30	17	2.5	13.9	17	0.1	1.1	0.2
STD PD05	Standard		532	433	616																
STD PG04	Standard		1023	921	1243																
STD PD05 Expected			519	430	596																
STD PG04 Expected			996	910	1210																
STD OREAS25A-4A Expected						2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37
STD OREAS45E Expected						2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28
BLK	Blank		3	<3	5																
BLK	Blank					<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank		3	<3	5	1.0	3.8	3.6	38	<0.1	1.6	4.2	681	2.11	<1	1.3	3.3	199	<0.1	0.3	<0.1
ROCK-VAN	Prep Blank		4	<3	7	1.1	2.8	5.2	34	<0.1	1.8	3.8	630	2.01	1	1.3	3.1	194	<0.1	0.3	<0.1

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Project: Watson Bar
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QUALITY CONTROL REPORT VAN19002235.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc
	Unit	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	1	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1
Pulp Duplicates																					
516	Rock	164	4.98	0.085	11.6	19	2.12	86	0.424	8.24	1.542	0.22	0.3	26.4	24	0.6	12.4	2.1	0.1	<1	17
REP 516	QC	169	5.06	0.082	11.8	20	2.17	94	0.447	8.47	1.554	0.22	0.4	25.2	26	0.4	13.3	2.1	0.1	<1	18
WB 23	Rock	99	24.05	0.029	5.5	88	3.11	760	0.212	2.82	0.706	0.02	0.2	9.7	12	<0.1	16.1	0.4	<0.1	1	12
REP WB 23	QC																				
Core Reject Duplicates																					
WB 5	Rock	135	2.33	0.083	7.6	35	0.99	685	0.293	8.21	2.886	0.99	2.4	28.3	16	0.4	8.8	2.2	0.1	2	12
DUP WB 5	QC	133	2.28	0.081	8.6	33	0.98	703	0.284	7.88	2.778	0.97	2.4	28.7	17	0.3	9.1	1.9	0.1	1	12
Reference Materials																					
STD OREAS25A-4A	Standard	150	0.27	0.047	18.9	108	0.31	137	0.909	8.65	0.114	0.43	2.3	144.4	43	3.6	9.8	20.0	1.3	1	11
STD OREAS45E	Standard	332	0.06	0.032	11.5	983	0.17	252	0.549	7.07	0.059	0.32	1.0	96.8	24	1.2	8.3	6.3	0.5	1	88
STD PD05	Standard																				
STD PG04	Standard																				
STD PD05 Expected																					
STD PG04 Expected																					
STD OREAS25A-4A Expected		157	0.301	0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7
STD OREAS45E Expected		322	0.065	0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93
BLK	Blank																				
BLK	Blank	<1	<0.01	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.3	<1	<0.1	<0.1	<0.1	<0.1	<1	<1
Prep Wash																					
ROCK-VAN	Prep Blank	35	1.56	0.039	13.2	4	0.53	787	0.210	7.05	3.410	1.64	0.3	53.7	24	0.8	16.6	5.7	0.4	<1	7
ROCK-VAN	Prep Blank	31	1.47	0.036	12.6	4	0.50	718	0.198	6.66	3.245	1.50	0.2	52.7	24	0.7	16.7	5.5	0.4	1	6

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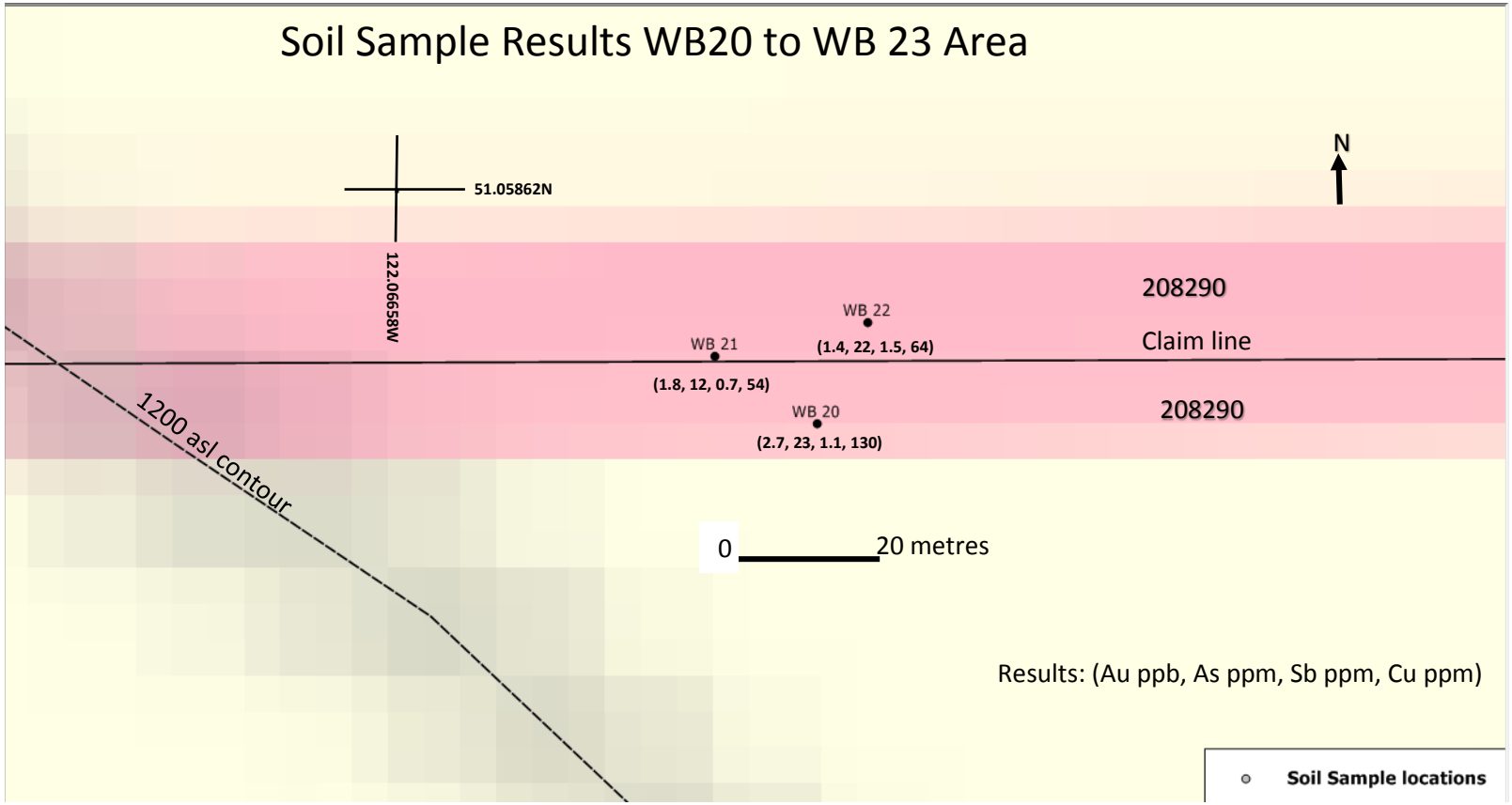
	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Li	S	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates										
516	Rock	39.7	<0.1	4.7	1.1	0.06	<0.005	<1	<0.5	<0.5
REP 516	QC	36.3	<0.1	5.3	1.0	<0.05	<0.005	<1	1.1	<0.5
WB 23	Rock	15.5	<0.1	0.4	0.4	<0.05	<0.005	<1	2.9	<0.5
REP WB 23	QC									
Core Reject Duplicates										
WB 5	Rock	14.2	<0.1	37.8	1.1	<0.05	<0.005	<1	<0.5	<0.5
DUP WB 5	QC	13.6	<0.1	41.1	1.0	<0.05	<0.005	<1	<0.5	0.5
Reference Materials										
STD OREAS25A-4A	Standard	34.9	<0.1	55.9	4.0	0.13	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	7.5	<0.1	21.8	2.7	0.13	<0.005	3	<0.5	<0.5
STD PD05	Standard									
STD PG04	Standard									
STD PD05 Expected										
STD PG04 Expected										
STD OREAS25A-4A Expected		36.7	0.047	61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		6.58	0.046	21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank									
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash										
ROCK-VAN	Prep Blank	3.8	<0.1	35.1	1.8	0.08	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	3.4	<0.1	31.9	1.6	<0.05	<0.005	<1	<0.5	<0.5

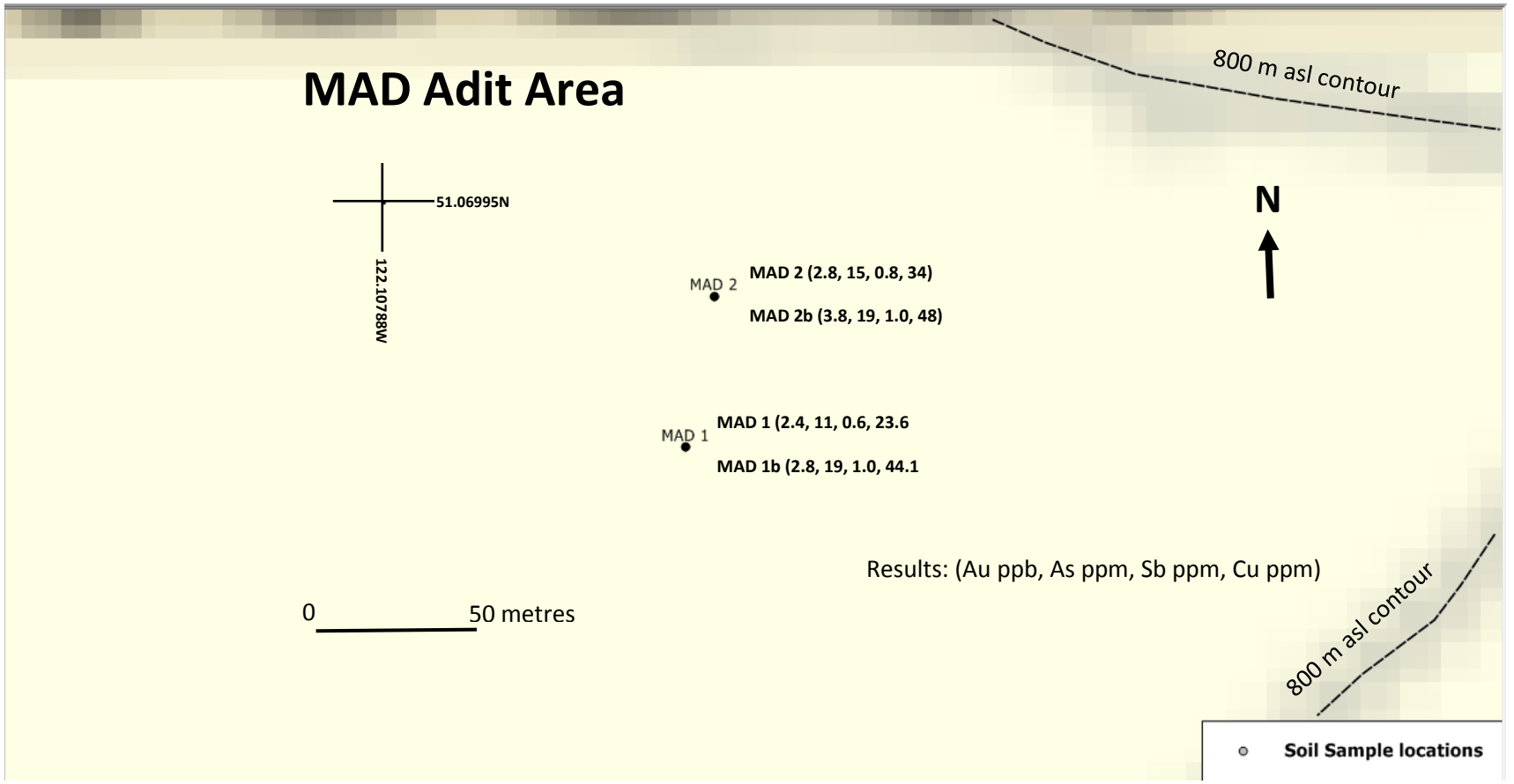
Appendix IV
Rock Sample Descriptions

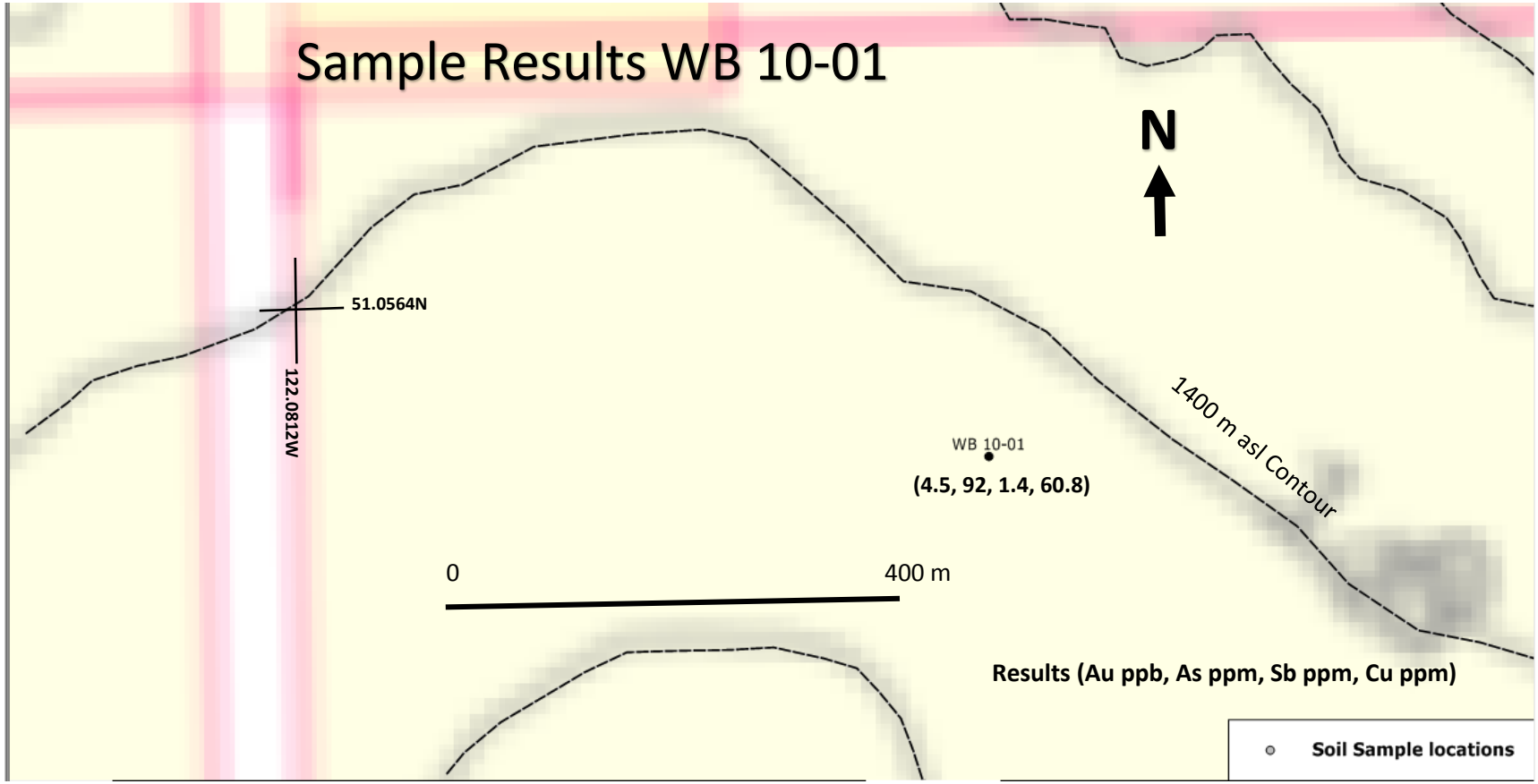
Sample ID	East	North	Elevation	Sample Descriptions
C328325	565057	5654999	1378	Clay altered conglomerate with quartz and blue mineral in matrix, bdg 230/70 SE, fault 28
C328326	565645	5655153	1397	Rubble of Clay altered gossanous conglomerate
C328327	566269	5654615	1380	Hornfels fine clastic, silicious, note very fine quartz stockwork. Fine metallic blue mineral
C328328	566412	5654360	1354	Qtz vein and vein breccia, note cinnibar, py,cpy, asp in chalcedonic qtz. Fault 260/70S
C328329	566552	5654807	1366	quartz carbonate banded sill like body 135/40NE
C328330	566719	5655127	1311	quartz porphyry, minor sulphide
C328331	566881	5655238	1281	Silicified fine clastic, minor quartz vein. What is dark mineral.
MAD 6	563467	5657309	896	Arkose cut by calcite and ankerite veining. Minor quetz veins in some calcite veins
WB 7	564545	5656416	1453	Arkose cut by quartz vein with arsenopyrite
WB 8	564668	5656452	1459	Arkose silicified and carb altered and veined.
WB 10	564977	5656375	1436	QFP cut by stockwork of glassy qtz veins
WB 12	565134	5656165	1441	Banded quartz vein cutting pervassively silicified sandstone.
WB 15	565367	5655957	1406	Banded quartz vein
WB 23	565647	5656650	1211	Orange weathering sandstone. Carbonate veining, minor dis pyrite
WB 6	565965	5654641	1414	QFP carb altered cut by late glassy to chalcedonic quartz veins
WB 5	566047	5654887	1381	Granodiorite cut by pyrite stringers
WB 4	566092	5654922	1120	Arkose / siltstone early chalcedonic and grey qtz veining, later carb veins
WB 1	565968	5656592		Fine grained arkose, bleached with orange fracture surfaces
516	562679	5657361	881	Pale grey green siltstone. Very finely disseminated black mineral
MAD3	562589	5658050	834	Quartz feldspar porphyry. Minor hornblende crystals, unaltered

Appendix V

Soil Sample Results Maps

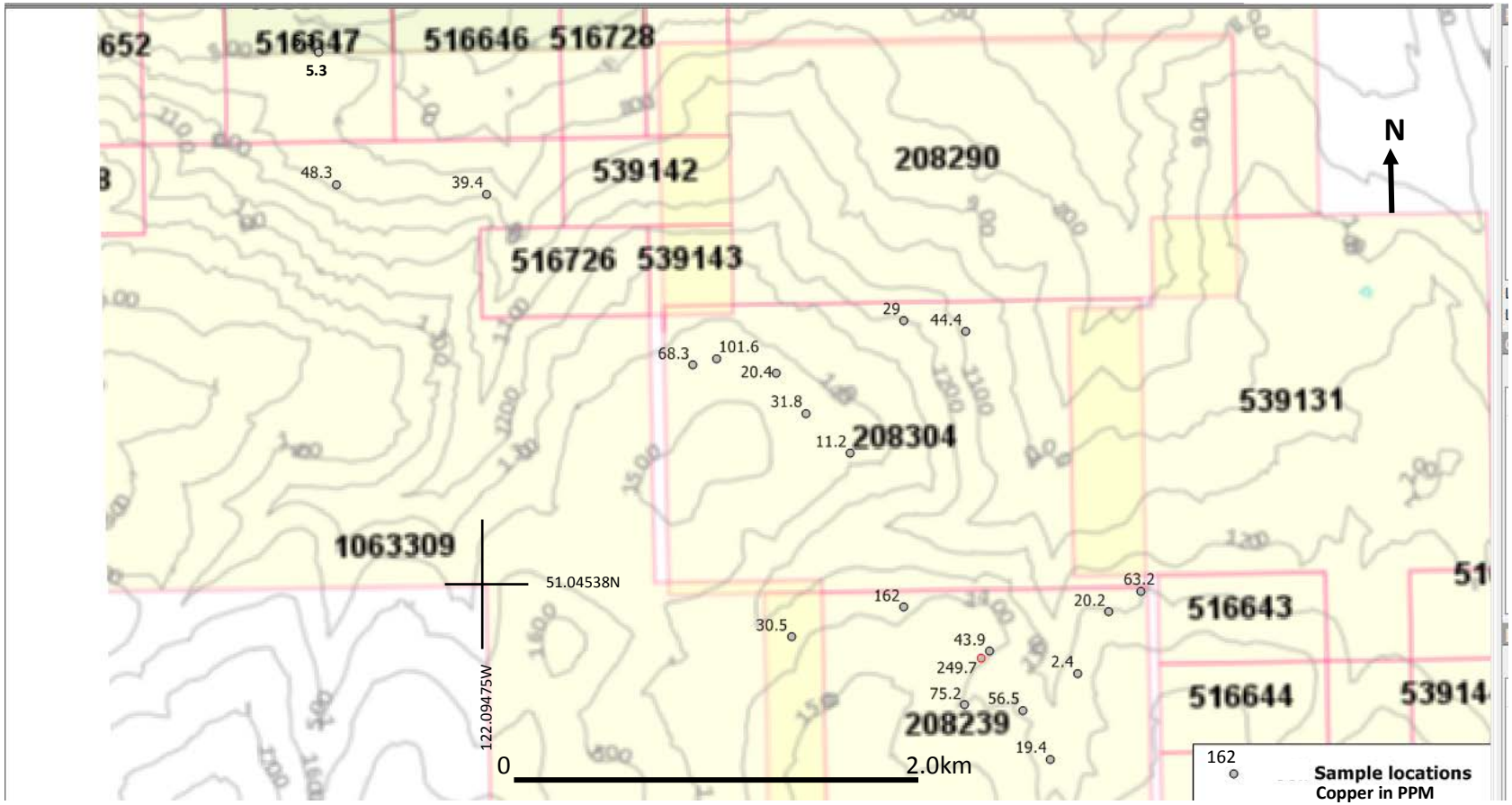

Soil Sample Results WB20 to WB 23 Area
51.05862N
122.06658W
N
208290
WB 22
(1.4, 22, 1.5, 64)
WB 21
(1.8, 12, 0.7, 54)
Claim line
WB 20
(2.7, 23, 1.1, 130)
208290
1200 asl contour
0
20 metres
Results: (Au ppb, As ppm, Sb ppm, Cu ppm)
Soil Sample locations


MAD Adit Area
800 m asl contour
51.06995N
122.10788W
N
MAD 2
MAD 2 (2.8, 15, 0.8, 34)
MAD 2b (3.8, 19, 1.0, 48)
MAD 1
MAD 1 (2.4, 11, 0.6, 23.6
MAD 1b (2.8, 19, 1.0, 44.1
Results: (Au ppb, As ppm, Sb ppm, Cu ppm)
0
50 metres
800 m asl contour
Soil Sample locations

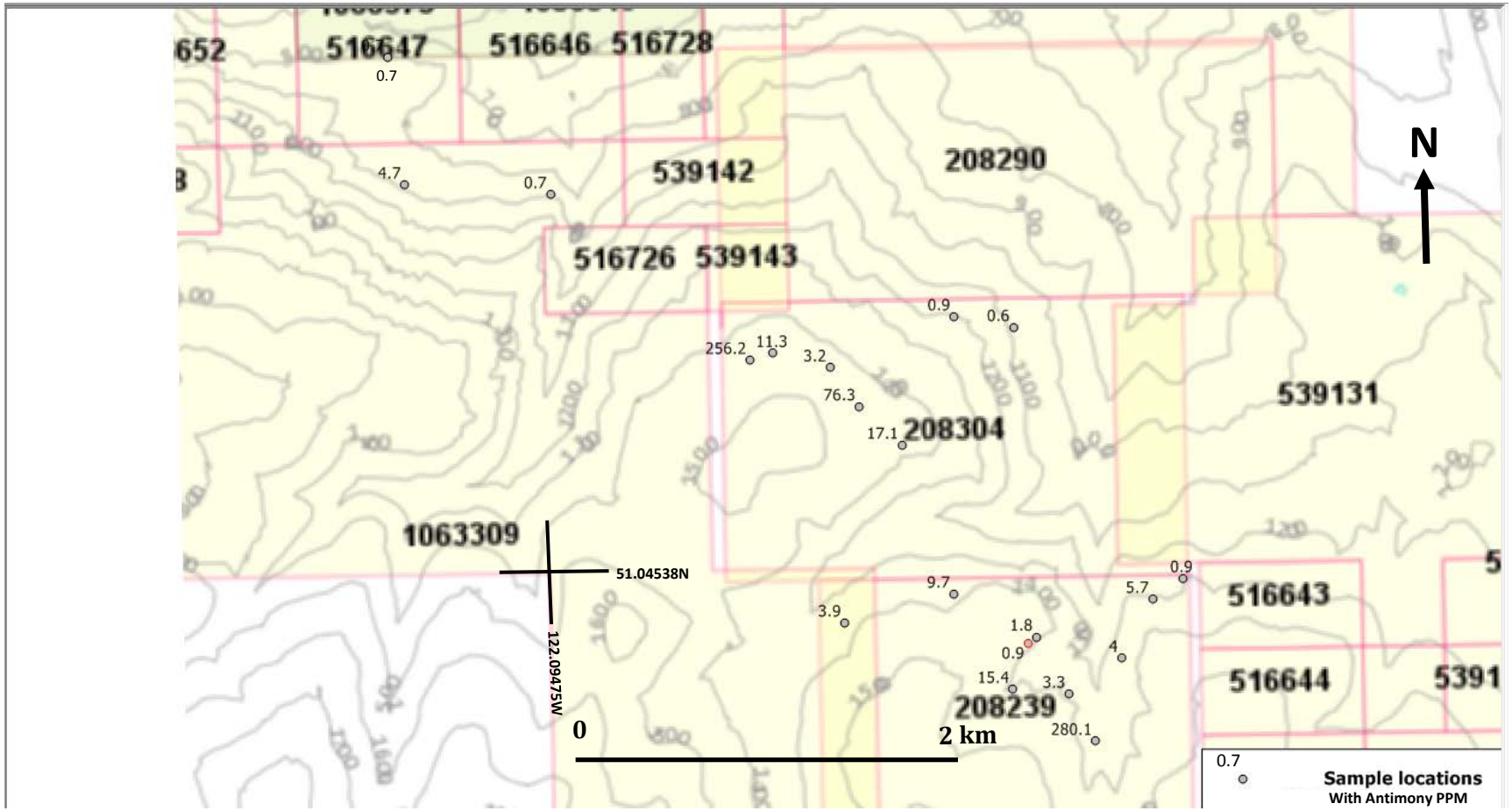

Sample Results WB 10-01
N
51.0564N
122.0812W
WB 10-01
(4.5, 92, 1.4, 60.8)
1400 m asl Contour
0
400 m
Results (Au ppb, As ppm, Sb ppm, Cu ppm)
Soil Sample locations

Appendix VI

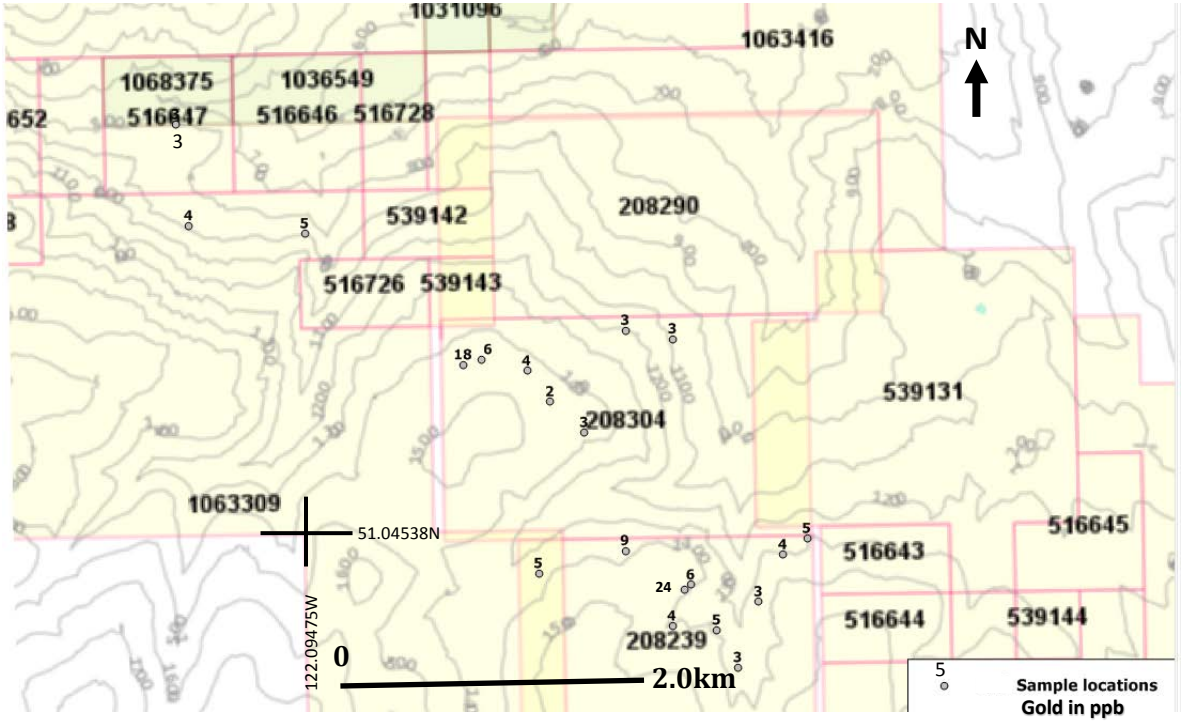
Rock Sample Results Maps



Rock Sample Results Copper



Rock Sample Results Antimony



Pmai Q_knjc Pcqsjrq Emjb