



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geochemical Sampling Report on the Three Valley Gap Mineral Claims

TOTAL COST: \$6,640.66

AUTHOR(S): Tom Lewis
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): None
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5581023

YEAR OF WORK: 2015

PROPERTY NAME: Three Valley Gap

CLAIM NAMES:

Martin (1036669), Anne (1036913), & 1032904

COMMODITIES SOUGHT: Tantalum, Niobium

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Revelstoke

NTS / BCGS: 82L/16W or 082L098 & 082L099

LATITUDE: 50° 55' 45" N

LONGITUDE: 118° 23' 42" W

UTM Zone: 11 EASTING: **401967** NORTHING: **5642873**

OWNER:

Bormal Resources Inc.

MAILING ADDRESS: Suite 1328 – 855 West Georgia Street, Vancouver B.C. V6C 3E8

OPERATOR:

Bormal Resources Inc.

MAILING ADDRESS:

Suite 1328 – 855 West Georgia Street, Vancouver B.C. V6C 3E8

REPORT KEYWORDS Stream Sediments, Soil Samples, Carbonatites, Gneiss, Shushwap
Metamorphic Complex, Paleozoic, Proterozoic

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

AR 02153, 32017

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 ...)				
	25	1036669, 1032904	1036913	\$5187.68
Soil	4	1036669, 1032904	1036913	\$830.48
Silt	3	1036669, 1032904	1036913	\$622.56
Rock				
Other				
DRILLING (total metres, number of holes, size, storage location)				
Core				
Non-core				
RELATED TECHNICAL				
Sampling / Assaying				
Petrographic				
Mineralographic				
Metallurgic				
PROSPECTING (scale/area)				
PREPATORY / PHYSICAL				
Line/grid (km)				
Topo/Photogrammetric (scale, area)				
Legal Surveys (scale, area)				
Road, local access (km)/trail				
Trench (number/metres)				
Underground development (metres)				
Brushing Road				
			TOTAL COST	\$6,640.22

**GEOCHEMICAL SAMPLING REPORT
ON THE THREE VALLEY GAP MINERAL CLAIMS
Revelstoke Mining Division, B.C.
082L098 & 082L099
UTM 11U 401967E 5642873N,**

**For – Bormal Resources Inc.
1328 – 855 West Georgia St.,
Vancouver, BC**

**By - TOM LEWIS, BSc.,
Consulting Geologist**

DECEMBER 2015

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SUMMARY

The Three Valley Gap claims are situated approximately sixteen kilometers west-southwest of the City of Revelstoke in the Province of British Columbia. These claims are underlain pretty much in their entirety by predominately gneissic rocks of the Shuswap Metamorphic Assemblage. Pegmatites, and occasional carbonatites intrude these high grade metamorphic rocks locally. Aside from some government work focused on the carbonatites here, there has been a bit of base, and more recently Rare Earth Element exploration locally.

On Sept 08th & 09th, a short program of rock, soil, and stream sediment sampling was undertaken on the property. This program was designed to verify anomalous tantalum values obtained previously from a carbonatite by government geologists, and to determine if carbonatites here may have a soil or stream sed geochemical signature that may be used locally to search for buried mineralized carbonatites.

In all 25 soil, 4 stream sediment, and 3 rock samples were taken at various sites on the property. This report details the results of the work undertaken, and makes recommendations for a further work program of geology, soil geochemistry, and prospecting in the area.

INTRODUCTION

After Bormal Resources bought a 4 unit claim in the area during the spring of 2015, the author staked a further two claims for Bormal in June of 2015, and made plans to eventually visit the area in late summer of that year.

Location

The area of interest on the property is roughly centered at UTM coordinates 401967E 5642873N, or 50° 55' 45" North latitude, and 118° 23' 42" West longitude, and is approximately sixteen kilometers west-southwest of the city of



Map Center: 54.4781N 124.7082W

Figure 1 – PROPERTY LOCATION MAP

Revelstoke B.C., in the Columbia - Shushwap district of British Columbia (Figure 1). The property is located in the Monashee Range of the Selkirk Mountains, and is displayed on NTS map 82L/16W, or Trim maps 082L098, and 082L099.

Access

Access to the property is excellent, as one takes Trans Canada Hwy 1 to the west from Revelstoke, turning southward up the Victor Lake FSR, which intersects the highway approximately 1 km to the east of the 3 Valley Gap Resort. This well maintained forestry road runs through the property, with access to various points via the numerous side roads/skid trails in the area. The area of the main carbonatite showings under the powerline is approximately 8.4 road kms from the junction of highway 1.

Physiography

The property is located in steep mountainous country on a northerly spur of Mt English. The area of the work reported herein is best classified as montane forest, although the claim block does extend into sub-alpine to alpine terrain to the south. The highest elevation on the claims is in the order of 1670 m's A.S.L. in the southeast of the block, while the lowest point is in the Valley just above the Trans Canada Highway at approximately 730 m's A.S.L.

The forest cover in the claim area is predominantly coniferous with Cedar, Spruce, Hemlock, and Balsam being the most prevalent species. Alder and devils club can be quite thick locally especially in drainages.

The climate of the area is typified as being moderate with warm rainy summers and cool winters when a great deal of precipitation may occur in the form of snowfall. The property is within the Wet Interior bioclimatic zone, where winter typically extends from November into early April. The property has a

predominately northerly aspect, and would typically be snow free from late May until mid October, although this may vary depending on yearly conditions.

PROPERTY

As shown in Figure 2, the property consists of 3 claims, covering 913.27 hectares. All of the claims are presently in good standing, and the pertinent data is provided in the Table below.

**TABLE I - MINERAL CLAIMS – THREE VALLEY GAP PROPERTY
REVELSTOKE MINING DIVISION, B.C.**

CLAIM	TENURE NO.	CLAIM TYPE	NUMBER OF HECTARES	STAKING DATE	GOOD TO DATE*
Martin	1036669	Mineral	631.43	Jun 11, 2015	Oct 24, 2017
Anne	1036913	Mineral	20.36	Jun 27, 2015	Oct 24, 2017
	1032904	Mineral	81.48	Dec 24, 2014	Feb 24, 2020

*Pending acceptance of this report for assessment credit.

HISTORY

The first recorded work in the general area was performed by Versatile Mining Services for W.J. Worrall in 1970 when they performed geochemical, geological and geophysical investigations on the NIN claims, in the search for Copper/Molybdenum/Zinc mineralization.

It is unknown when carbonatites were recognized in the area, but the first mention of work on this occurrence type on the property that the author is aware of is in government literature in 1979. During the 80's & 90's Jennifer Pell visited the property, and wrote about it several times. In 2011 Aspiration Mining Ltd.

conducted a program of scintillometer prospecting, rock, and stream sediment sampling in the claim area, in the search for rare earth element mineralization. Sampling did encounter anomalous levels of REE's and the recommendation was made to return to the property to conduct further investigations.

REGIONAL GEOLOGY

The Three Valley Gap property is situated within the Omineca Crystalline Belt (Figure 3). This belt along with the Foreland Thrust Belt to the east, the Intermontane Belt immediately to the west, the Coast and Insular belts further outboard make up the five distinct morphogeological provinces which comprise the Canadian Cordillera. The Omineca Crystalline Belt is best typified as being an area of extensive tectonic uplift which is underlain by metamorphosed miogeoclinal rocks, with local rocks which were formed in island arc settings, and subsequently accreted to the margin of the ancestral North American Craton during the Jurassic era. The property is situated at the northern culmination of the Thor-Odin Gneiss dome of the Shushwap Metamorphic Complex.

PROPERTY GEOLOGY AND MINERALIZATION

The property has not been mapped in detail to date, however it appears that it is predominately underlain by higher grade metamorphic rocks of gneissic affinity – typically quartz/feldspar/biotite gneiss that occasionally include accessory minerals such as garnet, and graphite. These are occasionally cut by pegmatitic, and carbonatite dykes or lenses locally.

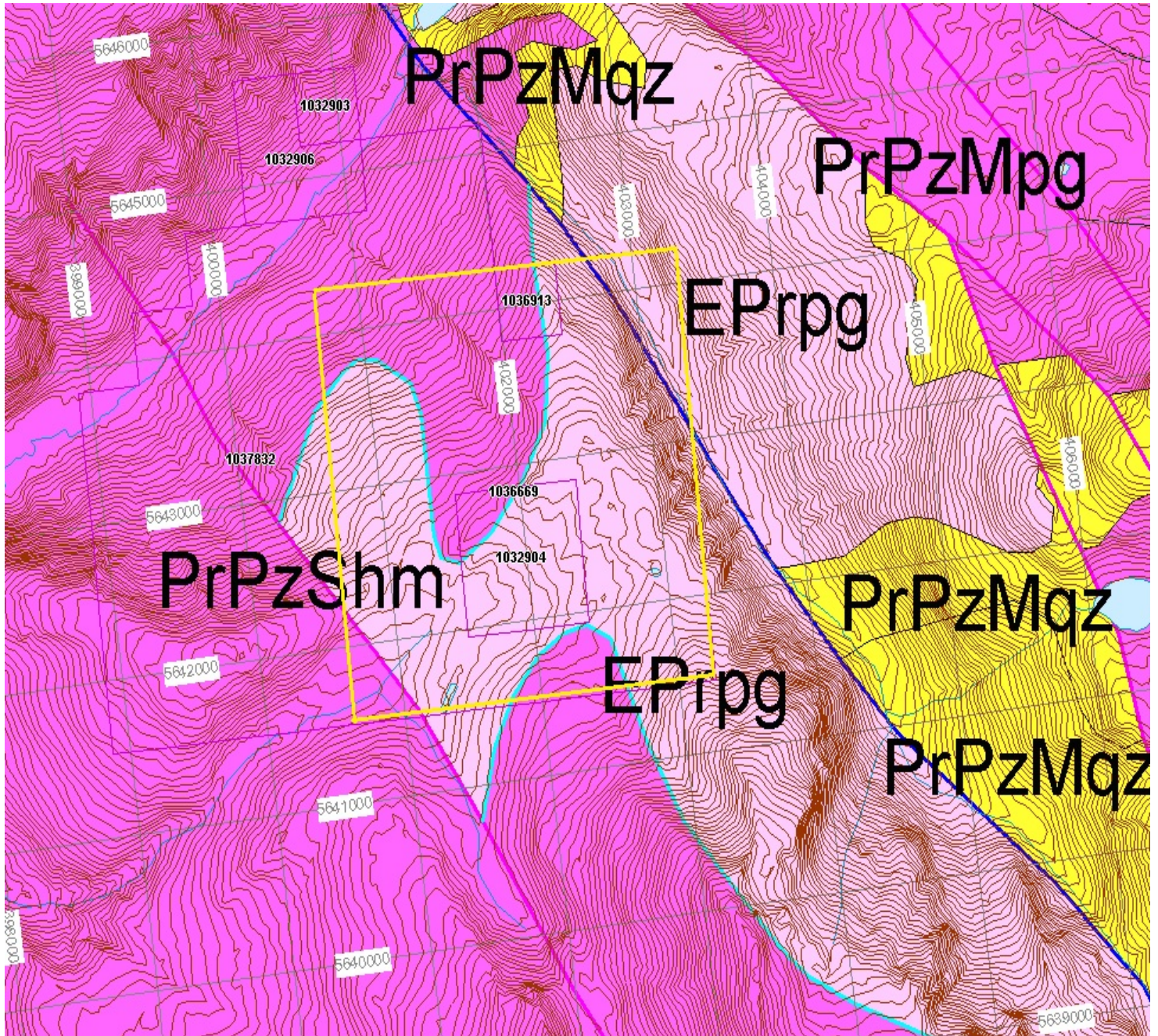


Figure 2 – CLAIMS & REGIONAL GEOLOGY

Paleozoic	PrPzMqz – Monashee Complex – quartzite, quartz arenite
	PrPzMpg – Monashee Complex - paragneiss
	PrPzShm – Shushwap Assemblage – undivided metamorphic
Proterozoic	EPrpg - undivided metamorphic

In her 1984 Report Pell wrote, "Carbonatites are found along the Victor Lake main logging road, 3 kilometres east of Three Valley Gap, between 900 and 1500 metres in elevation. Outcrop is limited to logging road cuts, therefore these carbonatites have not been mapped in detail. They occur as bedding parallel lenses in Hadrynian metasedimentary rocks. Both the carbonatites and host rocks have been metamorphosed to upper amphibolite grade (sillimanite zone) and the metasedimentary rocks have been extensively migmatized. The carbonatites are primarily composed of calcite, biotite, amphibole, and apatite. In places they contain feldspathic lenses similar to migmatitic leucosome. All display a well-defined biotite foliation. Amphibole-rich fenite, which locally contains zircons, separates the carbonatites from adjacent rocks. Coarse sphene crystals are developed in the pegmatites where they are adjacent to carbonatites."

During the course of these investigations no carbonatites were seen below 1380 meters in elevation. It may be that the road cuts have grown over, or eroded such that these are no longer as evident as they once were.

WORK PROGRAM

In September 2015 the author travelled to the claim area to conduct preliminary examinations of the area, and to determine access, and other logistics. After a half day of orientation a prospector - Ron Dennett joined in. During the course of the program 11 "B" horizon grid soil samples were taken in the area of the showings in the vicinity of the high tension power line. A further 3 orientation soils, and 11 till samples were taken within the claim block outside of the power line zone, and four stream sediment samples were taken in the claim area. Three rock samples were taken during the course of the investigation. All samples were submitted to Bureau Veritas's prep lab in Elko, Nevada and eventually analyzed at their facility in Vancouver.

DISCUSSION

In Pell's 1987 publication three samples were taken from carbonatites from this area. One of these samples came back strongly anomalous for Tantalum, returning 109 ppm Ta. Niobium was not analyzed. As this value is approaching those found in economically viable deposits it was determined that the area is a prime target for the search for economic Ta – Nb mineralization. Three samples of carbonatite, or carbonatite related mineralization were taken here, and the strongest response for Ta came from a Fenite – returning 25.8 ppm Ta, while the best response for Nb came from a carbonatite nearby – returning 237.8 ppm Nb. A number of soils, or basal till samples were taken here at varying locations that were not particularly mineralized, however their density is so sparse, and little known about local geological conditions that not much can be said about them. An eleven sample 250 meter long soil traverse was conducted – roughly centered over the single in-situ carbonatite exposure seen here. The sample immediately above the carbonatite came back with a Ta value (55.6 ppm) more than double that seen in the rock sample here, with Nb also being elevated beyond that measured in the host rock. Background was typically in the order of a couple of ppm Ta & 20 ppm Nb. Several soil samples to the east of the known carbonatite came back with elevated Ta/Nb values.

CONCLUSIONS

1. The program here did establish that carbonatites that are at least anomalous in Ta – Nb mineralization can be found locally.
2. The one carbonatite here can be detected via soil geochemistry, and several other soil geochem anomalies were noted in close proximity.

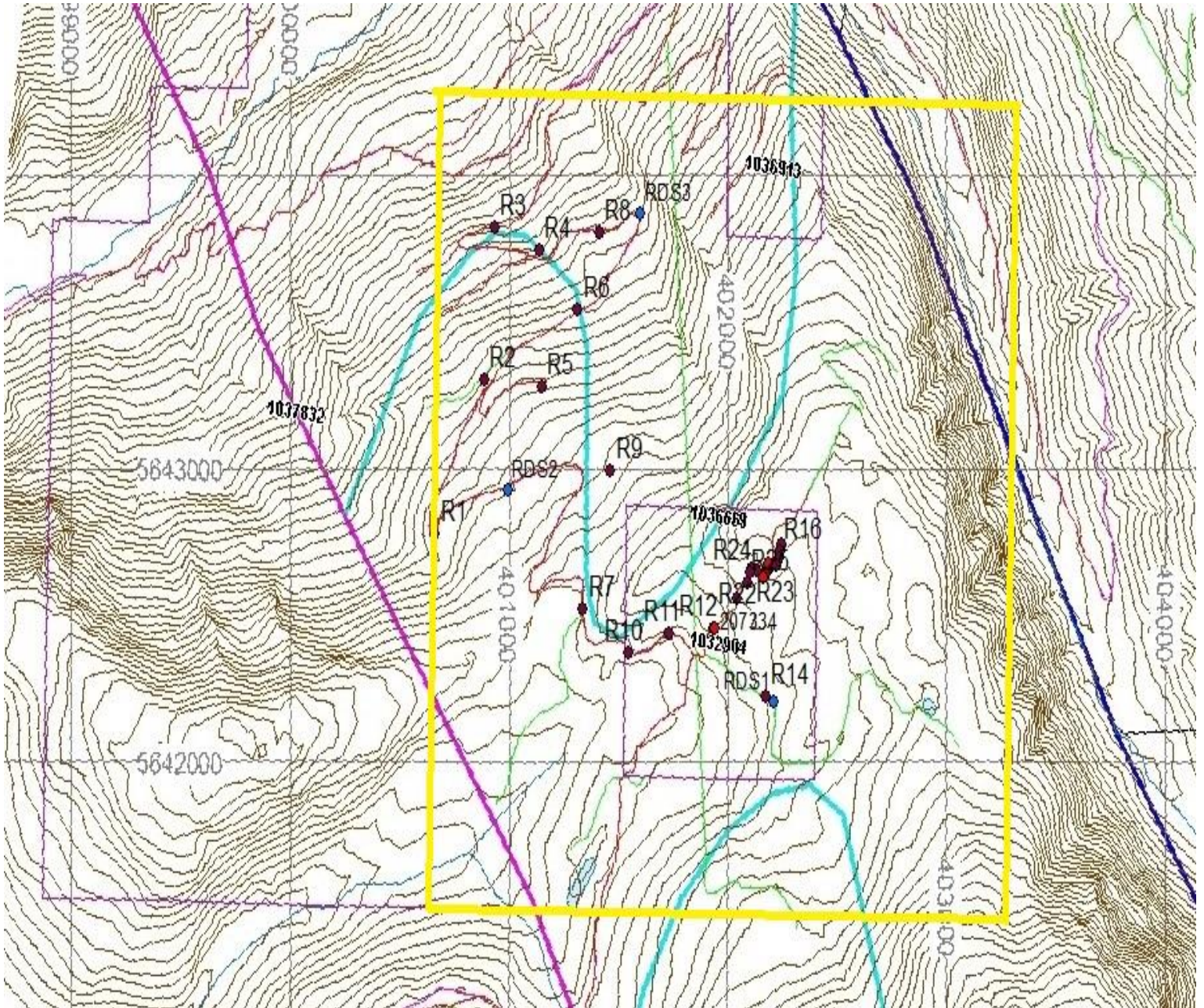
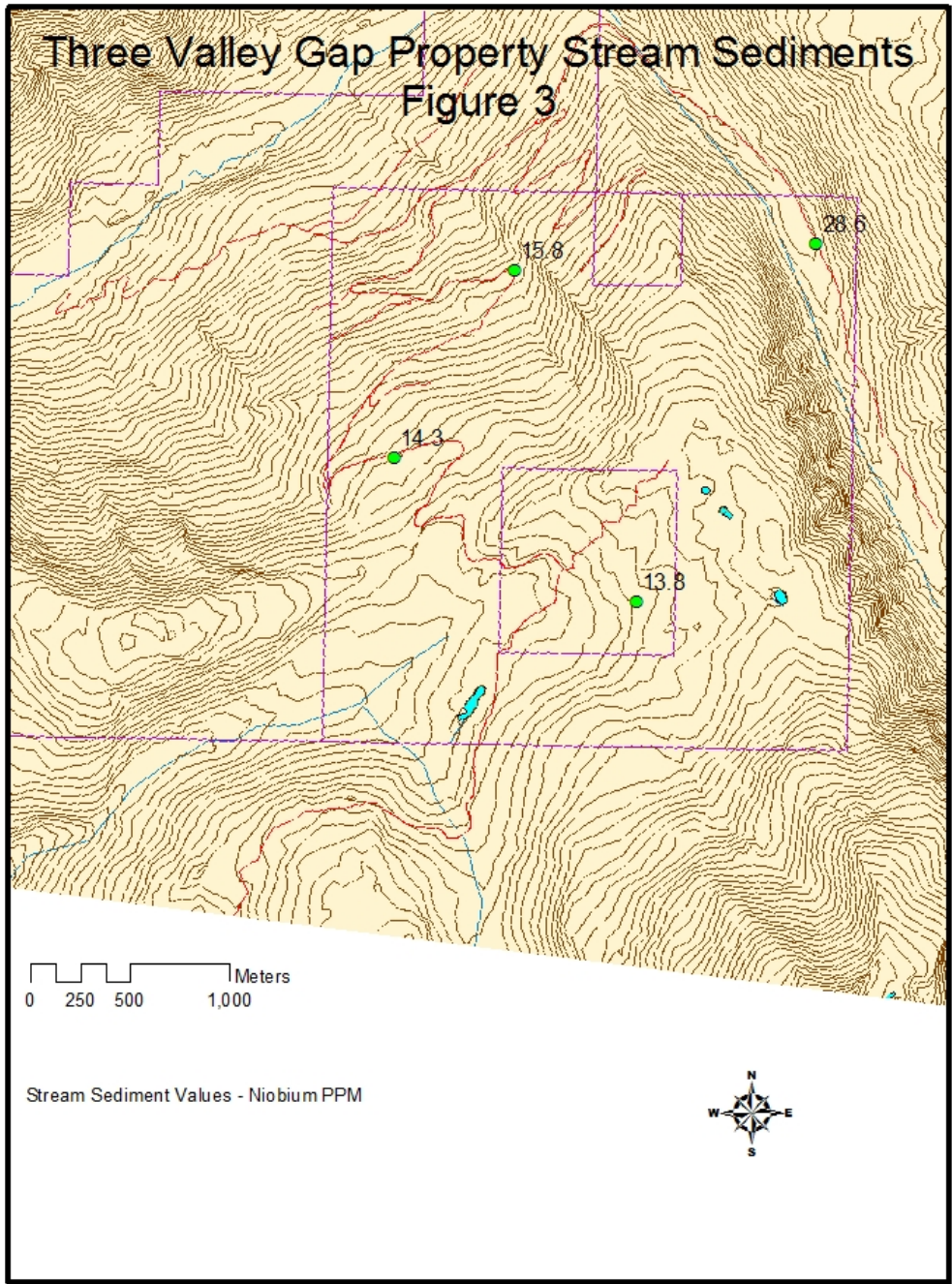
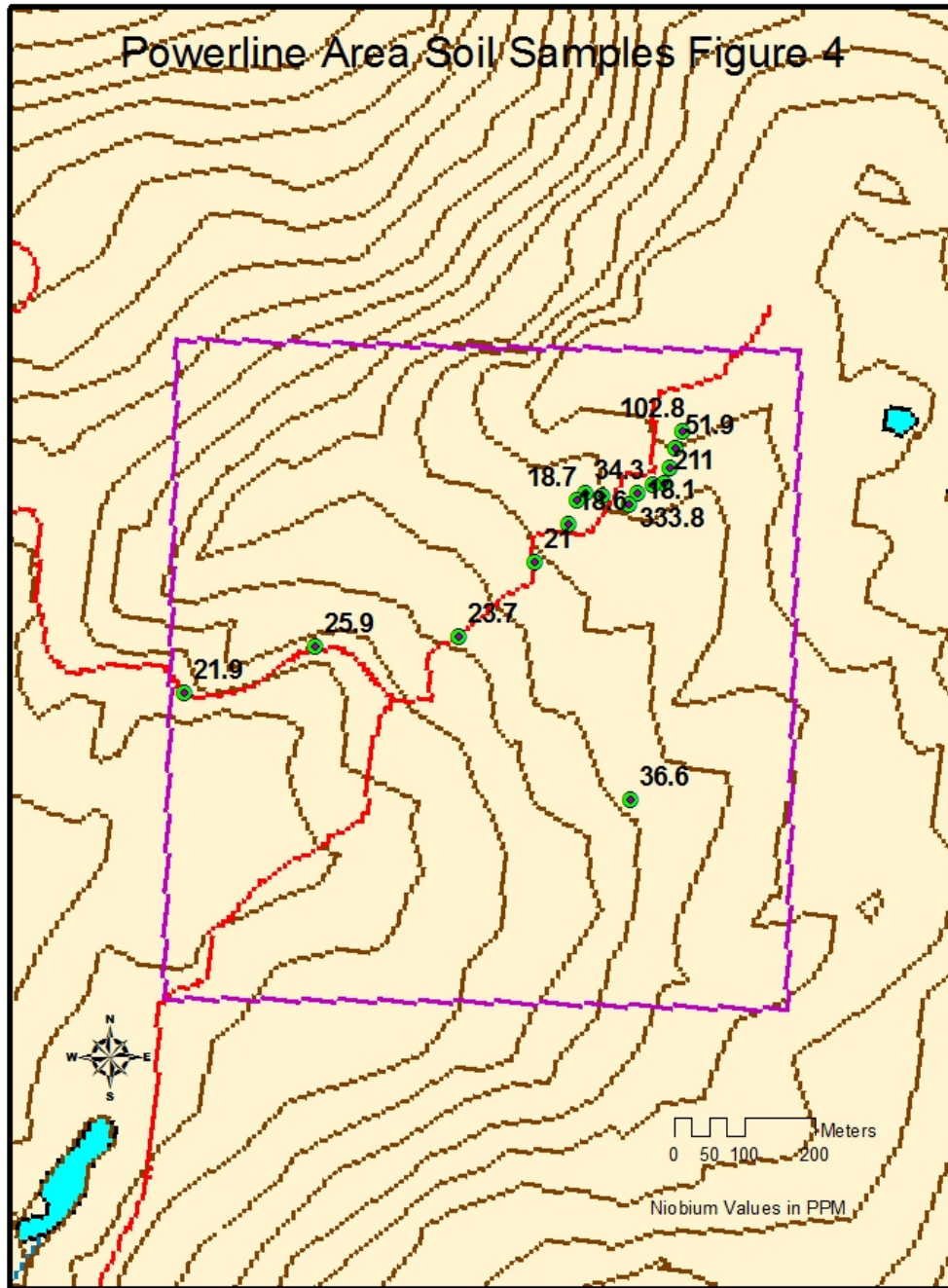
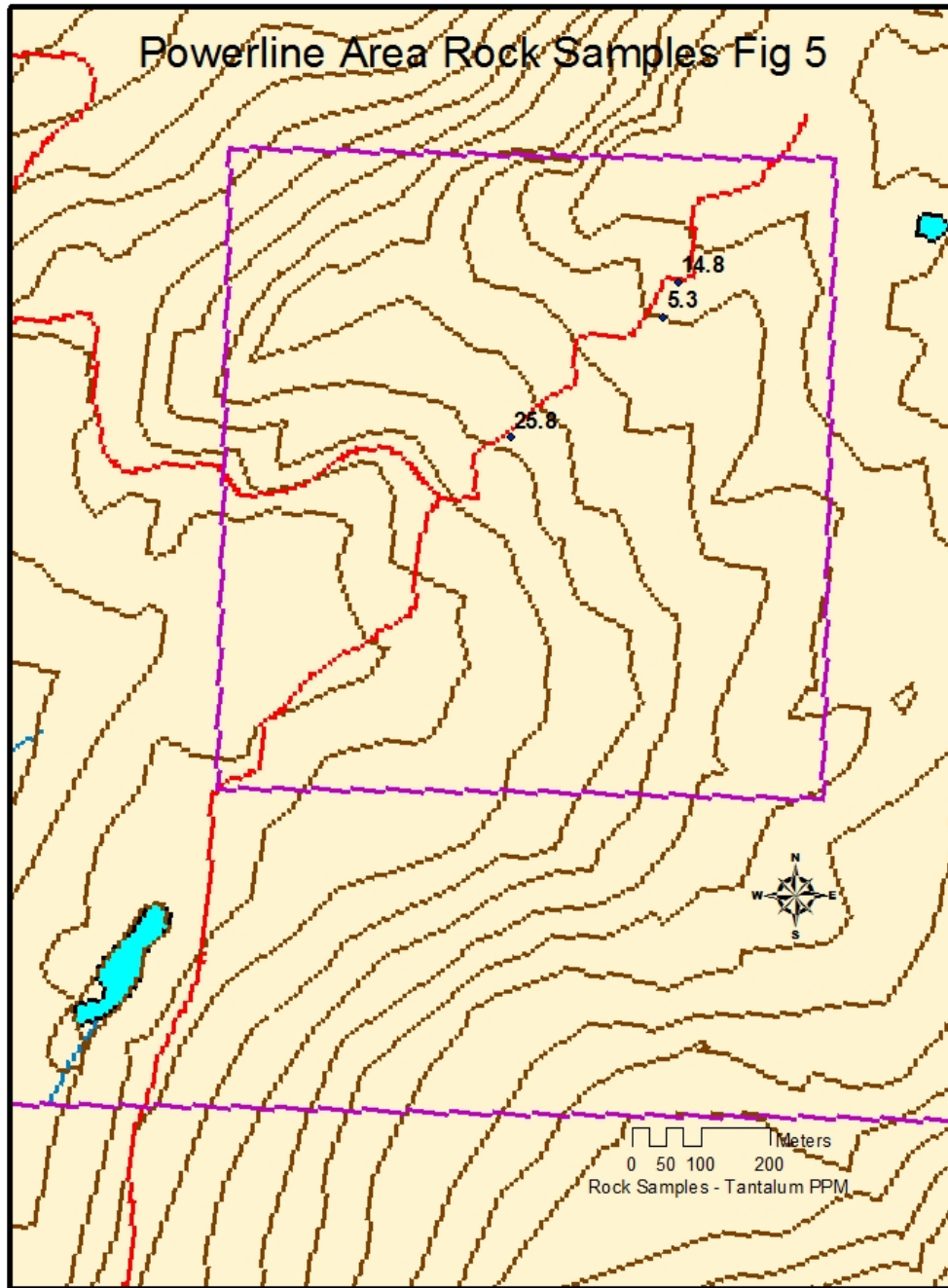


Figure 3 – SAMPLE LOCATION MAP

3. Given the above the property should have further prospecting, geochemical and geology work performed on it.







3. As these carbonatites are enriched with both Tantalum, and Niobium with concentrations of Niobium being greater than that of Tantalum, the former element appears to be the best element to key in on while doing soils, or stream sediment work.
4. Given the above the property should have further prospecting, geochemical and geology work performed on it.

RECOMMENDATIONS

An expanded program of prospecting, soil sampling, and geological mapping should be undertaken on the property specifically in the vicinity of the Powerline zone to determine it's prospectivity in regards to hosting economically significant carbonatite hosted tantalum – niobium and/or rare earth element mineralization. Soil sampling may prove to be extremely effective due to the recessive weathering nature of carbonatite, and especially as this was the tool that led to the discovery of the Upper Fir carbonatite deposit in the Blue River area of BC.

TABLE II - PROJECTED COSTS OF PROPOSED EXPLORATION

Prospector	\$6,000
Geologist (Including Mobilization)	\$8,000
200 Soil Samples @ \$25/sample	\$5,000
100 Rock Samples @ \$35/sample	\$3,500
Accommodation & Food	\$3,000
Chainsaw Rental	\$100
Transport	\$3,000
Shipping	\$300
Report Preparation & Drafting	\$1,500
Field Supplies	\$600
Contingency 10%	\$2,530
TOTAL COSTS	\$27,000

TABLE III - PROJECT COSTS

Ron Dennett – Prospector – Sept 8 th – 10 th	2 Days	\$ 300	\$600.00
Tom Lewis Geologist – Field/travel Sept 7 th – 11 th	3 1/2 Days	\$ 600	\$2100.00
Tom Lewis Geologist – Report			\$2000.00
Accommodation – Revelstoke			\$333.28
Vehicle – R Dennett – Mob/Demob - Rossland	2 Days	\$100	\$200.00
Meals			\$187.55
Gas – R Dennett			\$80.00
Field Vehicle – T Lewis Mob/Demob - Osoyoos	773 kms	\$0.25	\$193.25
Gas – T Lewis			\$224.01
Sample Shipment			\$45.38
Assays			677.19
TOTAL SAMPLING PROGRAM			\$6,640.66

REFERENCES

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White, G.P.E. (1980) Further Carbonatite Potential Localities, in British Columbia Geological Survey, Geological Fieldwork 1980, pp 111 - 112.

STATEMENT OF QUALIFICATIONS

I, Thomas M. Lewis of the City of Richland, in the State of Washington, hereby certify that:

1. I am a mineral exploration geologist engaged in all facets of mineral exploration, and geological consulting.
2. I am a graduate of Brandon University, Brandon Manitoba, with a BSc., with a major in Geology (1989), Mount Royal University, Calgary Alberta with a diploma in Petroleum & Mineral Land Management (1986), and of Fanshawe College, London Ontario, with a diploma in Social Sciences, and Humanities (1975).
3. I have worked in various capacities in the exploration field, both for hydrocarbons and mineral resources since 1975, and have been working primarily as a consulting mineral exploration geologist since graduation in 1989.
4. This report is based on actual observations I made during the course of my duties as a geological consultant while employed by Bormal Resources, or from information obtained from the references cited.
5. This report is solely intended for use in support of Bormal's Assessment Report requirements on the Three Valley Gap group of mineral claims. Use for any other purpose is prohibited without the author's written permission.

Dated at Richland, Washington on this 27th day of December, 2015.

Thomas M. Lewis, BSc.
Consulting Geologist

APPENDIX A
SAMPLE DESCRIPTIONS

Rock Sample	Easting	Northing	Description
207334	401940	5642454	Float – Weak Org/Brn – weathered/mottled – granoblastic w/bifurcating pale grn ap/fenite stringers – carb eyes – biotite clots
207335	402161	5642629	Float – Carbonatite – Black clots in wh groundmass – calcareous – wkly magnetic – Biotite – weakly foliated
207336	402183	5642679	Outcrop – Moderately weathered Carbonatite – Black clots in wh groundmass – calcareous – wkly magnetic – Biotite – weakly foliated

Soil line over Carbonatite Outcrops			Type	Depth (cm)	Horizon & Comments
R15	11 U 402246	5642744	Soil	20	B
R16	11 U 402236	5642721	Soil	15	B
R17	11 U 402229	5642694	Soil	25	B
R18	11 U 402220	5642672	Soil	25	B
R19	11 U 402204	5642670	Soil	15	B
R20	11 U 402182	5642657	Soil	15	B
R21	11 U 402171	5642642	Soil	20	B
R22	11 U 402132	5642654	Soil	20	B
R23	11 U 402109	5642658	Soil	25	B
R24	11 U 402098	5642647	Soil	10	B
R25	11 U 402086	5642614	Soil	20	B

Silt Samples

RDS1	11 U 402207	5642204	Stream	Mid Stream - active
RDS2	11 U 400992	5642931	Stream	Mid Stream - active
RDS3	11 U 401597	5643872	Stream	Mid Stream - active
RDS4	11 U 403110	5644007	Stream	Mid Stream - active

Orientation
Soil/Till Samples

R1	11 U 400662	5642781	Till	40	Sandy Till – Road Cut
R2	11 U 400884	5643306	Till	40	Sandy Till – Road Cut
R3	11 U 400933	5643826	Till	40	Sandy Till – Road Cut
R4	11 U 401137	5643747	Till	40	Sandy Till – Road Cut
R5	11 U 401149	5643283	Till	40	Sandy Till – Road Cut
R6	11 U 401314	5643542	Till	40	Sandy Till – Road Cut
R7	11 U 401337	5642522	Soil	15	B

R8	11 U 401413	5643806	Till	40	Sandy Till – Road Cut
R9	11 U 401463	5642995	Soil	20	B
R10	11 U 401543	5642375	Till	40	Sandy Till – Road Cut
R11	11 U 401728	5642441	Till	40	Sandy Till – Road Cut
R12	11 U 401930	5642456	Till	40	Sandy Till – Road Cut
R13	11 U 402038	5642561	Till	40	Sandy Till – Road Cut
R14	11 U 402173	5642226	Soil	40	B

APPENDIX B
ANALYTICAL RESULTS



BUREAU MINERAL LABORATORIES
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Client: **Bormal Resources Inc.**
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Submitted By: Tom Lewis
Receiving Lab: Canada-Vancouver
Received: September 21, 2015
Report Date: October 23, 2015
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN15002488.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 3

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	3	Crush, split and pulverize 250 g rock to 200 mesh			VAN
MA200	3	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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

Invoice To: Bormal Resources Inc.
1328 - 885 W. Georgia Street
Vancouver BC V6C 3V8
CANADA

CC: Steve Bajic



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



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Client: **Bormal Resources Inc.**
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Vancouver BC V6C 3V8 CANADA

Project: None Given
Report Date: October 23, 2015

Page: 2 of 2

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN15002488.1

Method	WGHT	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	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	
207334	Rock	1.06	0.5	50.7	24.0	148	<0.1	38.4	21.0	2021	7.59	3	14.5	27.0	1029	0.7	<0.1	0.6	179	13.30	0.846
207335	Rock	0.65	<0.1	11.2	12.8	100	<0.1	0.6	16.3	2001	6.04	2	1.0	4.9	3638	0.4	<0.1	<0.1	117	26.69	1.424
207336	Rock	1.51	0.2	12.5	19.2	198	*	4.2	22.7	2483	9.92	4	1.6	5.8	2426	0.5	<0.1	0.1	188	17.32	1.260



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Project: None Given
Report Date: October 23, 2015

Page: 2 of 2

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN15002488.1

Method	MA200	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	1	1	0.1	0.1	0.1		
207334	Rock	185.4	59	2.47	211	0.634	7.41	0.904	0.75	2.0	20.1	341	12.0	54.5	154.8	25.8	1	17	19.3	<0.1	26.2
207335	Rock	249.4	2	1.49	1314	0.447	3.19	0.432	2.16	0.1	10.8	449	1.1	70.5	109.6	5.3	<1	<1	17.7	0.2	172.9
207336	Rock	236.6	3	2.50	1409	0.791	5.29	1.068	2.12	0.5	61.9	432	4.1	58.6	237.8	14.8	<1	<1	17.8	<0.1	119.0



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Vancouver BC V6C 3V8 CANADA

Project: None Given
Report Date: October 23, 2015

Page: 2 of 2

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN15002488.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200
		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
207334	Rock	0.9	1.09	<0.005	<1	2.0	<0.5
207335	Rock	0.4	<0.05	0.008	<1	1.7	<0.5
207336	Rock	1.6	0.14	<0.005	<1	1.7	<0.5



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

Client: **Bormal Resources Inc.**
1328 - 885 W. Georgia Street
Vancouver BC V6C 3V8 CANADA

Submitted By: Tom Lewis
Receiving Lab: Canada-Vancouver
Received: September 21, 2015
Report Date: October 23, 2015
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN15002487.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 29

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Bormal Resources Inc.
1328 - 885 W. Georgia Street
Vancouver BC V6C 3V8
CANADA

CC: Steve Bajic

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	29	Dry at 60C			VAN
SS80	29	Dry at 60C sieve 100g to -80 mesh			VAN
MA200	29	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



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



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Project: None Given
Report Date: October 23, 2015

Page: 2 of 2 Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN15002487.1

Method	Analyte	MA200																			
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		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	0.1
R1	Soil	71	2.40	449	0.754	6.29	1.276	1.23	0.4	14.3	156	1.5	37.2	18.0	1.1	1	25	13.3	<0.1	45.0	0.7
R2	Soil	84	2.11	581	0.582	6.84	1.180	1.86	0.5	8.4	113	1.7	32.5	15.0	0.8	2	21	23.8	<0.1	68.2	0.3
R3	Soil	73	1.64	772	0.425	6.90	1.154	1.95	0.8	9.0	157	1.4	33.4	19.2	1.8	2	16	19.9	<0.1	68.8	0.3
R4	Soil	100	2.01	657	0.553	7.66	1.370	2.53	0.9	7.9	90	2.0	38.8	16.5	1.0	2	22	44.3	<0.1	131.1	0.3
R5	Soil	94	2.17	685	0.516	6.89	0.977	1.80	0.5	10.1	136	1.7	31.5	16.8	1.2	1	19	20.0	<0.1	72.1	0.4
R6	Soil	99	2.63	456	0.599	6.18	0.930	1.30	0.5	11.8	132	1.7	32.2	17.6	1.0	2	20	19.4	<0.1	52.9	0.5
R7	Soil	98	2.03	846	0.595	6.95	0.912	2.43	0.8	10.5	127	2.0	26.4	23.7	1.7	1	16	31.5	<0.1	90.3	0.4
R8	Soil	62	0.97	564	0.564	5.88	1.408	1.36	0.9	70.3	82	2.5	17.9	14.9	0.9	2	10	18.8	<0.1	56.8	2.0
R9	Soil	179	3.14	477	0.770	7.66	1.153	1.44	0.8	14.3	110	2.7	24.1	16.6	1.0	2	22	41.9	<0.1	41.1	0.5
R10	Soil	93	1.67	651	0.528	6.92	1.129	1.96	0.8	9.6	179	1.4	21.6	21.9	1.3	2	14	35.3	<0.1	93.5	0.3
R11	Soil	103	1.87	576	0.625	7.19	0.853	1.94	1.0	24.2	171	1.5	25.3	25.9	1.2	1	16	33.8	<0.1	107.4	0.8
R12	Soil	119	2.17	734	0.695	6.65	0.773	2.54	0.6	5.9	190	3.6	28.4	23.7	1.2	2	16	29.1	<0.1	104.4	0.2
R13	Soil	136	1.75	544	0.689	6.92	0.520	1.78	0.6	18.9	105	1.8	15.8	21.0	1.2	<1	13	28.0	<0.1	94.7	0.6
R14	Soil	100	2.00	759	0.608	7.83	1.073	2.39	4.9	5.2	191	1.8	27.5	36.6	3.3	2	16	32.0	<0.1	98.4	0.2
R15	Soil	39	1.14	703	0.751	6.70	1.457	1.54	0.8	84.6	394	2.8	24.0	102.8	8.4	1	7	26.4	<0.1	151.0	2.4
R16	Soil	63	1.10	736	0.580	6.42	1.165	1.34	0.9	58.6	158	2.6	21.1	51.9	6.0	1	9	27.3	<0.1	97.0	1.7
R17	Soil	53	0.64	455	0.455	7.08	1.258	1.11	0.8	105.6	68	2.1	13.5	23.1	2.2	1	7	31.6	<0.1	55.1	3.0
R18	Soil	82	0.89	573	0.522	6.90	1.341	1.21	1.0	92.2	190	2.3	24.9	211.0	9.8	1	8	32.8	<0.1	67.6	2.5
R19	Soil	55	0.71	570	0.586	6.50	1.725	1.41	1.0	92.8	78	2.6	14.9	16.6	1.0	2	8	24.8	<0.1	70.3	2.7
R20	Soil	66	0.89	481	0.586	6.32	1.312	1.16	0.9	73.2	58	2.5	12.3	18.1	1.0	1	9	28.5	<0.1	58.2	2.2
R21	Soil	31	1.79	727	0.809	6.10	0.857	1.17	0.8	40.0	638	2.6	66.0	333.8	55.6	2	5	23.1	<0.1	174.1	1.1
R22	Soil	43	0.54	714	0.535	5.65	1.328	1.53	1.1	54.9	103	2.6	17.0	24.4	2.3	1	9	18.5	<0.1	72.3	1.7
R23	Soil	98	1.96	574	0.578	7.33	1.020	1.31	0.9	23.6	133	2.0	24.8	34.3	2.5	2	14	44.7	<0.1	54.5	0.7
R24	Soil	78	1.22	474	0.490	6.95	0.840	1.15	0.8	52.4	116	1.6	34.3	18.7	1.5	2	12	57.5	<0.1	102.7	1.5
R25	Soil	70	1.07	522	0.493	6.87	0.966	1.24	0.8	54.1	101	1.7	19.2	18.6	1.8	1	10	30.4	<0.1	71.6	1.5
RDS1	Soil	72	1.37	584	0.468	5.21	0.903	1.34	0.5	14.9	164	2.0	31.1	13.8	0.7	1	12	19.7	<0.1	76.8	0.5
RDS2	Soil	58	1.37	746	0.402	6.03	1.023	2.12	0.7	8.1	181	1.6	29.7	14.3	1.0	1	13	20.9	<0.1	68.4	0.3
RDS3	Soil	92	1.71	483	0.468	6.59	0.542	1.64	0.3	8.5	231	1.0	42.4	15.8	0.9	<1	22	23.3	<0.1	80.4	0.3
RDS4	Soil	93	2.31	496	0.763	5.73	1.045	1.17	0.8	12.6	474	2.0	75.1	28.6	1.6	1	26	12.7	<0.1	39.3	0.6



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Project: None Given
Report Date: October 23, 2015

Page: 2 of 2

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN15002487.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
R1	Soil	0.07	<0.005	<1	<0.5	<0.5
R2	Soil	0.13	<0.005	<1	<0.5	0.6
R3	Soil	<0.05	<0.005	<1	<0.5	0.5
R4	Soil	0.11	<0.005	<1	<0.5	0.8
R5	Soil	<0.05	<0.005	<1	<0.5	<0.5
R6	Soil	<0.05	<0.005	<1	<0.5	<0.5
R7	Soil	0.07	<0.005	<1	<0.5	0.7
R8	Soil	0.07	<0.005	<1	<0.5	<0.5
R9	Soil	0.08	<0.005	<1	<0.5	<0.5
R10	Soil	0.07	<0.005	<1	<0.5	0.6
R11	Soil	0.09	<0.005	<1	<0.5	0.7
R12	Soil	0.09	<0.005	<1	<0.5	0.8
R13	Soil	0.05	<0.005	<1	<0.5	0.6
R14	Soil	0.06	<0.005	<1	<0.5	0.8
R15	Soil	0.07	<0.005	<1	<0.5	<0.5
R16	Soil	0.09	<0.005	<1	<0.5	0.8
R17	Soil	<0.05	<0.005	<1	<0.5	<0.5
R18	Soil	<0.05	<0.005	1	<0.5	0.5
R19	Soil	<0.05	<0.005	<1	<0.5	<0.5
R20	Soil	0.07	<0.005	<1	<0.5	<0.5
R21	Soil	0.10	<0.005	<1	<0.5	0.6
R22	Soil	<0.05	<0.005	<1	<0.5	<0.5
R23	Soil	0.09	<0.005	<1	<0.5	<0.5
R24	Soil	0.10	<0.005	<1	<0.5	0.6
R25	Soil	0.11	<0.005	<1	<0.5	<0.5
RDS1	Soil	<0.05	<0.005	1	<0.5	0.5
RDS2	Soil	0.05	<0.005	<1	<0.5	<0.5
RDS3	Soil	0.07	<0.005	2	<0.5	<0.5
RDS4	Soil	0.09	<0.005	<1	<0.5	<0.5