



## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

**TITLE OF REPORT: SOIL AND ROCK GEOCHEMISTRY REPORT ZINGER AND EDDY PROPERTIES**

**TOTAL COST:\$20,553.09**

AUTHOR(S):Sean Kennedy

SIGNATURE(S):

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

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S ):5116327

YEAR OF WORK:2011

PROPERTY NAME:Zinger and Eddy

CLAIM NAME(S) (on which work was done):544571, 544572, 516301, 516299, 516297

COMMODITIES SOUGHT:Gold

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN:

MINING DIVISION: Nelson/Ft. Steele

NTS / BCGS:82F 040/050/060 82G041/51

LATITUDE: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_"

LONGITUDE: \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_" (at centre of work)

UTM Zone: 11 EASTING:567250 NORTHING:5476700

OWNER(S):PJX Resources Inc,  
Spirit Gold In

### MAILING ADDRESS:

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Toronto, Ontario, M5X 1C9  
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1240-1140 Pender St W  
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V6G 4G1

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

### MAILING ADDRESS:

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) Gold mineralization is hosted within quartz veins and shears in Proterozoic Belt-Purcell Supergroup sediments. Gold is associated with pyrite, sericite, and carbonate alterations as well as hematite and magnetite breccias.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
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	353	544571	\$8825
Silt			
Rock	27	544572, 516301, 516299, 516297	\$675
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying	wages		\$7375
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)			
Other	Report writing, maps,		\$3678.10

admin, etc,		
	<b>TOTAL COST</b>	\$20,553.10

SOIL AND ROCK GEOCHEMISTRY REPORT

ZINGER AND EDDY PROPERTIES

082F 040/050/060 082G 041/051

567250E, 5476700N

BC Geological Survey  
Assessment Report  
32792

FORT STEELE MINING DIVISION

PERRY CREEK-MOYIE RIVER AREAS

SOUTHEAST BC

WORK PERFORMED SUMMER AND FALL 2011

OWNER: SPIRIT GOLD INC

OPERATOR: PJX RESOURCES,

TORONTO, ONTARIO

REPORT WRITTEN BY SEAN KENNEDY, PROSPECTOR

JANUARY 2012

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## INTRODUCTION

The Zinger and Eddy properties cover numerous gold bearing quartz veins and shear zones hosted by mid-Proterozoic Belt-Purcell Supergroup sediments. The properties comprise a larger block of contiguous claims that is under option and or owned by PJX Resources. The area is part of the much larger Kimberley Gold Trend (KAT) a geologically favourable area that is host to numerous small high-grade gold occurrences and is cored by three major gold placer producing drainages (Moyie River, Perry Creek, and Wildhorse Creek).

During the summer and fall of 2011 a program consisting of soil and rock geochemistry was conducted on the Zinger and Eddy properties in southeast BC as follow up to previous aerial geophysics (2010) and historic rock and soil sampling. The purpose of the soil program was to test areas of likely shallow overburden near Heart Lake on the Zinger property. The Heart Lake area was chosen as it hosts numerous surface showings of gold bearing quartz veins, has seen some limited diamond drilling and was flown in 2010 with aerial geophysics. Rock sampling was completed south of Heart Lake where previous soil geochemistry programs had returned anomalous values for gold. Rock sampling was also conducted on the Eddy property in the headwaters of Galway Creek where aerial geophysics flown in 2010 had highlighted a linear north-south trend of magnetic anomalies.

## LOCATION AND ACCESS

The Eddy and Zinger are part of a large contiguous block of claims in the Purcell Mountains of southeast BC. They are centered approximately 25 km west of the city of Cranbrook, BC. The property covers portions of the Moyie River, Perry Creek, Angus Creek, and Hellroaring Creek drainages.

The property is accessed by numerous Forest Service Roads including; the main Moyie River FSR at the Lumberton junctions south of Cranbrook, the main Perry Creek FSR west of Cranbrook, and the Angus and Hellroaring Creek FSRs located off of the St. Mary River road southwest of Kimberley. Logging spur roads provide numerous access points throughout the property.

## PROPERTY

The property is part of large land package that is currently under option to PJX Resources Inc from Spirit Gold Inc. More recently staked claims have been added to the property and are wholly owned by PJX Resources Inc.

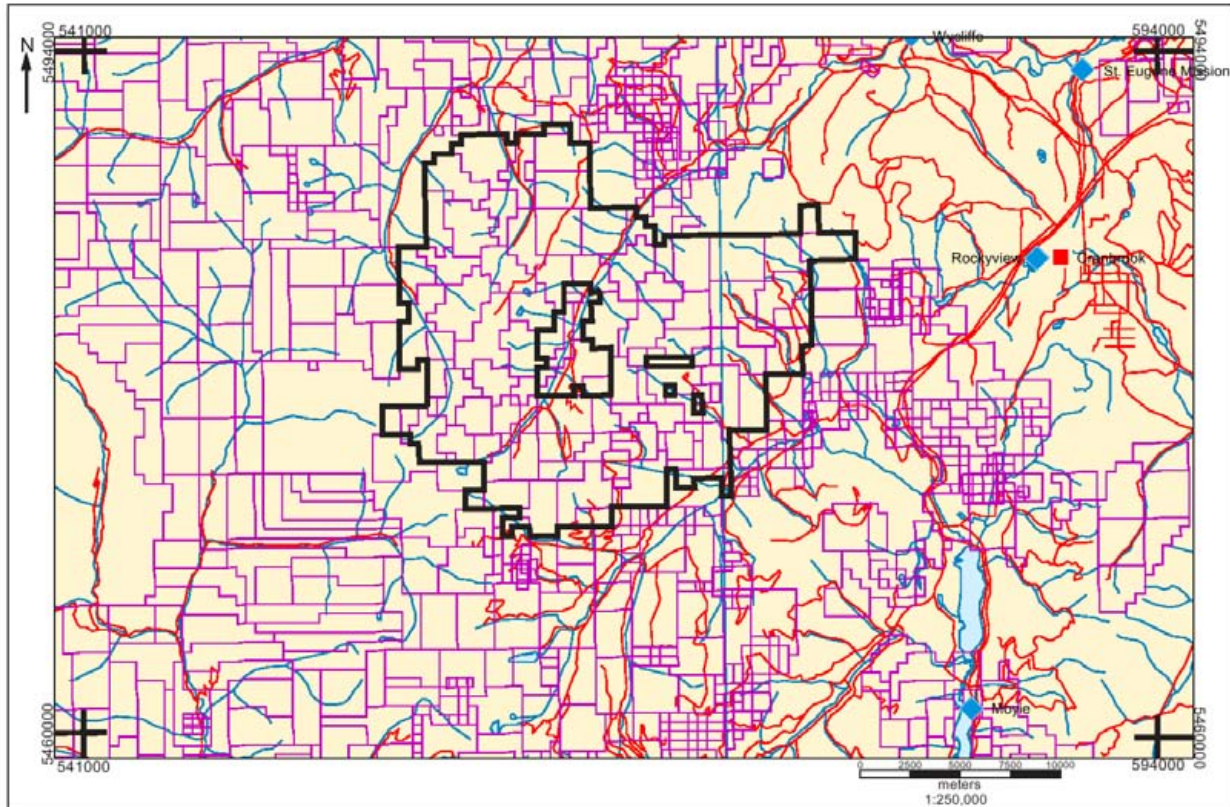


Figure 1. PJX Purcell Block; outlined in black. Red Lines are roads.

## PHYSIOGRAPHY

The majority of the property is generally snow free from late May through early October. Elevation ranges on the property from 1100 metres in the valley bottoms to nearly 2500 metres along ridge tops. Topography is generally bench-like with ridge-lines and basins composed mostly of rolling and hummocky terrain. Precipitation is generally moderate with snow accumulations at higher elevations considerable. Vegetation is comprised mostly of Lodgepole Pine stands at lower elevations and Engelman Spruce-Balsam Fir higher up. Brush is comprised mostly of kinikinik and dwarf huckleberry with rhododendron and mountain alder in higher and wetter areas. The property is all below tree-line with only the highest parts in the sub-alpine.

## HISTORY

Perry Creek and Moyie River were major placer producers in the East Kootenay in the late 1800s. The area has seen intermittent exploration and small scale development activity on numerous quartz vein systems since that time. Much of the activity in the region has been focused on Sedex potential as the world-class Sullivan Pb-Zn-Ag deposit is located just north of the property near the city of Kimberley. Limited work including; geological mapping, prospecting, rock, stream, and soil geochemistry, trenching and diamond drilling has been conducted assessing portions of the property for gold and copper potential.

## GEOLOGY

The property is underlain by sediments of the Mid-Proterozoic Belt-Purcell Supergroup, a thick accumulation of clastic sediments deposited in a rift-fill sequence. The basal unit on the property is the Middle Aldridge Fm which comprises a thick accumulation of turbidites that is overlain by generally argillaceous Upper Aldridge Fm. The Upper Aldridge is overlain by the Creston Formation. The Creston is comprised dominantly of argillaceous siltstone and clean quartzites. Mud-cracks, syneresis cracks and ripple marks are common within the Creston. The Kitchener Fm conformably overlies the Creston and is comprised dominantly of shallow water dolomitic siltstone and argillite. Precambrian gabbro-diorite sills and dykes intrude the sediments, some of which are dated as coeval with the Aldridge Formation, others are younger and are thought to possibly be related to the Nichol Creek basalts which overlie the Kitchener in other parts of the basin.

During the Cretaceous the Belt-Purcell was thrust eastward and folded into the Purcell Anticlinorium, a gently north plunging structure. During this period felsic intrusions were intruded into the package along paleo-Proterozoic faults. Felsic intrusions are exposed on the property in the area of Palmer Bar Creek and small syenite dykes are located intermittently south along this range. A suite of granodiorite intrusions occur on the western half of the property in the Hellroaring and Angus Creek drainages. The property itself straddles a structural domain located between the northeast trending St. Mary Fault to the north and the Moyie Fault to the south. The northeast trending Old Baldy Fault is a regionally significant mineralizing structure that is located within the block.

## SOIL GEOCHEMISTRY

353 soil samples were collected from the 'b' soil horizon in the area of Heart Lake on the Zinger property. Samples were shipped to Acme Labs in Vancouver and analyzed for a 36 element ICP with gold in ppb. A complete list of soil sample locations and assay certificates are located in the Appendix, a map showing soil sample locations and gold geochemistry is located at the end of the report.

Nine lines were run oriented east west and ranged from 900 metres to 1175 metres in length. The grid was established using handheld GPS units. Tin tags and flagging tape were used to mark stations in the field. Lines were spaced one hundred metres apart and samples were collected every 25 metres.

The highest value returned for gold on the grid was 750 ppb. The grid has outlined a northwest trending zone of higher values that may correspond to an underlying structural control previously defined by P. Klewchuk. The anomaly is open to the northwest and appears to be diminishing to the southeast. Additional sampling would determine if this were true. The northwest trend is broken in a number of places but appears to have little to no offset. It may be that the trend is highlighting structural intersections, perhaps where bedding parallel quartz veins/structures (cryptic faults?) are intersecting the trend or where certain lithologies in the overall package are more favourable. The southwest and northeast corners of the grid have highly anomalous gold values that remain open. A zone of anomalous gold is also developed north of the northwest trending zone, southwest of the



northeast corner of the grid, and may indicate another northwest trending zone parallel to the well defined one.

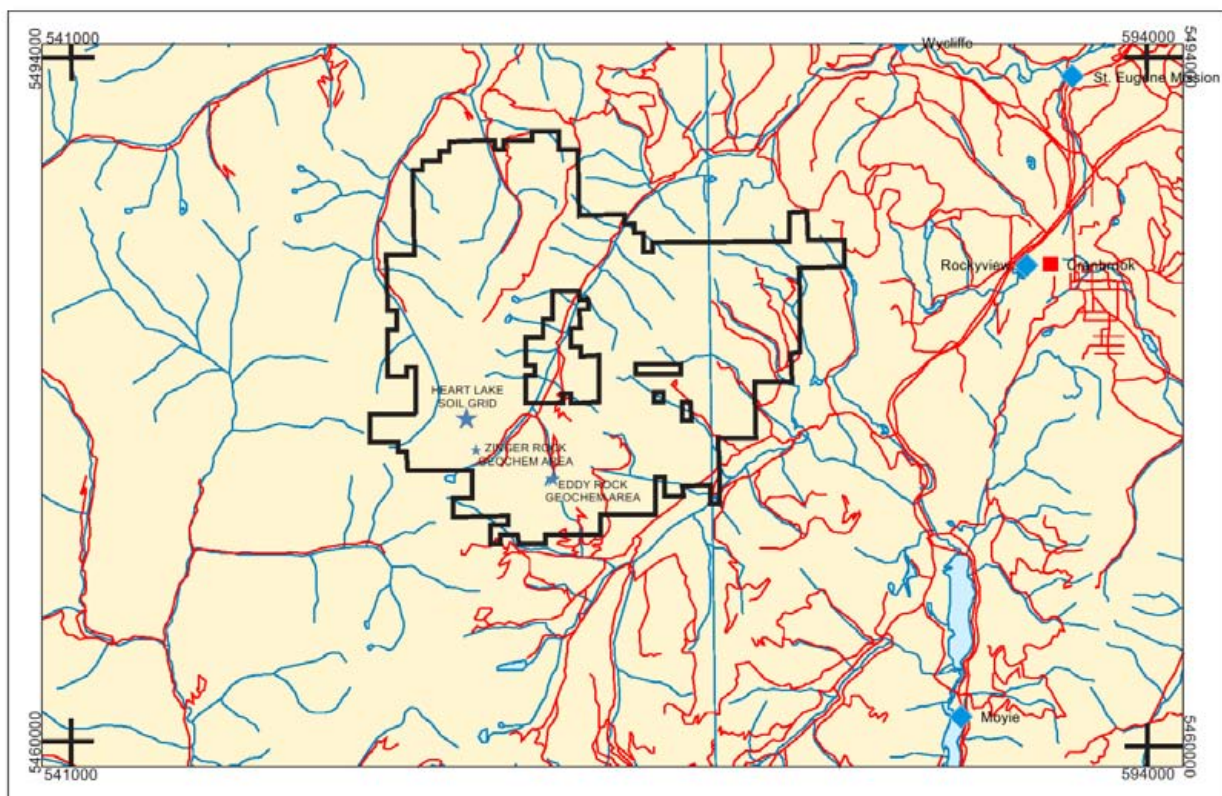


Figure 2. Map of the Purcell Block showing geochemical survey areas.

## ROCK GEOCHEMISTRY

Rock samples were collected and analyzed for a 36 element ICP plus ppb Au by Acme Labs in Vancouver. The samples were collected approximately 2 km south of the Heart Lake soil grid and southeast on the Eddy target in the headwaters of Galway Creek. Sample locations, descriptions, and results are located in the Appendix. Geochemistry maps with gold plotted in ppb are located at the end of the report.

## ZINGER ROCK GEOCHEMISTRY

At the Zinger seven samples were collected from narrow quartz veins and stockworks hosted in Creston Fm sediments. Auriferous quartz stockworks are developed sub-parallel to bedding and have associated sericite, pyrite, carbonate, and hematite alteration. Individual stockworks pinch and swell along a north-northwest trend with a series of stacked zones being developed en-echelon. This 'stacking' may be indicative of an underlying structure parallel to the trend found in soils at Heart Lake. All seven samples contained anomalous gold that ranged from 154 ppb to 2125 ppb. No other elements appear to be highly anomalous in association with the elevated gold. The zone appears to be restricted

in size; however the trend of mineralization may be important particularly where it intersects a potentially more favourable lithology and or structure.

#### EDDY ROCK GEOCHEMISTRY

Twenty rock samples were collected from the Eddy area. Multigram gold was obtained from a zone of brecciated and altered sediments in the headwaters of Galway Creek (SKPX11-213, 3.7 ppm Au). The zone is part of a north-south trending shear which is likely the extension of the Claim Creek Fault located to the south. Gold mineralization is associated with intense silicification, pyrite, magnetite, hematite, carbonate and sericite. A series of north trending magnetic anomalies located along strike of this zone may reflect magnetite breccias similar to zones developed within the shear. The width of the shear is difficult to determine as it is not well exposed, however it appears to be an anastomizing zone with total widths possibly in excess of 20 metres. Anomalous gold was returned from a number of other samples along the shear. Rock samples collected from an area at the divide between Weaver and Galway Creeks failed to provide any significant gold values although a number of high angle shear zones, similar to the Claim Creek structure were tested.

#### CONCLUSIONS AND RECOMMENDATIONS

During the summer and fall of 2011 a program consisting of soil and rock geochemistry was conducted on the Zinger and Eddy properties. The two properties are part of a larger contiguous block of claims that are situated in the Kimberley Gold Trend (KAT) and are currently owned and or optioned to PJX Resources Inc. Soil sampling on the Zinger in the area of Heart Lake provided a number of interesting gold anomalies, particularly a well defined northwest trending zone that may correspond with a previously defined structure. A number of gold anomalies remain open on the grid. Rock sampling on the Zinger identified a zone of bedding sub-parallel quartz veins and stockworks that assayed up to 2 ppm Au. The zones appear to 'stack' in a north-northwest manor, somewhat parallel to the trend of gold in soils found at Heart Lake and may be indicative of a parallel structure. The zones appear to be narrow but indicate a potentially important mineralizing system. Rock sampling at the Eddy returned gold values up to 3.7 ppm from an anastomizing north-south trending shear zone that is likely the extension of the Claim Creek Fault to the south. Magnetite rich breccias are hosted within the structure and a series of covered magnetic anomalies located along strike to the north may be indicative of the system continuing undercover.

Additional soil sampling is recommended at the Zinger to 'close' off the anomaly. Tighter soils could be used to better define zones for trenching. Prospecting and mapping should be used as follow up in the areas of higher gold, particularly with an interest in identifying northwest trending structure and favourable stratigraphy/intersecting structures. The north-northwest trend of gold in rocks identified during the program should be followed up with additional prospecting and mapping. This approach should also be conducted in other areas as it appears that a number of northwest subtle structures may be controlling surface mineralization. At the Eddy trenching and detailed sampling/mapping is warranted on the extension of the Claim Creek Fault. A series of small soil grids should be carried out over covered magnetic anomalies to the north.

STATEMENT OF COSTS

Heart Lake Soil Grid

October 5-11 2011

J. Holm, soil sampler	6.5 days at \$250/day	\$1625
R. Klewchuk, soil sampler	6.5 days at \$250/day	\$1625
S. Kennedy, grid prep/supervision	1 day at \$350/day	\$350
4x4 Vehicle	6.5 days at \$150/day	\$975
Fuel		\$170.98
353 Soil Samples	\$25/sample	\$8825

Rock Geochemistry

August 24, Sept 11, 24, 29 2011

S. Kennedy, prospector	4 days at \$500/day (includes vehicle)	\$2000
M. O' Connell	4 days at \$200/day	\$800
27 Rocks Samples	\$25/sample (includes freight)	\$675
Report, S. Kennedy	2 days at \$350/day	\$700
Drafting, map prep,		\$500
Misc		\$105

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Sub-total		\$18,350.98
12% Administration		\$2,202.12
Total		\$20,553.10

STATEMENT OF QUALIFICATIONS

I, Sean Kennedy, certify that:

1. I am an independent prospector residing at 107 6<sup>TH</sup> Ave, Kimberley, BC.
2. I have been actively prospecting in the throughout BC, Nevada, and Mexico for the past 15 years
3. I have been employed as a professional prospector by junior mineral exploration companies.
4. I own and maintain mineral claims in BC.

APPENDIX

Sample #	Property	UTM E	UTM N	Description
SKPX11-188	Eddy	565425	5473397	Light green argillaceous/silty Pc, thin bedded, wavy laminations, dessication cracks, disseminated magnetite.  Narrow high angle shear, 210/80 W, py, silicified.60 cm wide, hem stained cut by late NW vein. Beds 224/48 W.
SKPX11-189	Eddy	565473	5473412	Goe altered crackle bx in footwall of shear. PC, qtz, Mn, ser, argillic, hem veinlets, goe stain. Zone is more developed on this side of draw, non magnetic country rock. Magnetite may have altered to chlorite. Lineations 20/14. Beds 216/48 W. APC 22080 W
SKPX11-190	Eddy	565312	5473418	Same shear. Qtz w/py, hem stain
SKPX11-191	Eddy	564665	5473072	Milky qtz float in talus of argillaceous green Creston fm, goe, ser, ankerite
SKPX11-192	Eddy	564402	5472881	Silicified py/magnetite bx float, on old cat trail.
SKPX11-193	Eddy	564239	5472547	Silicified qtz bx, goe, py, carb at old cabin site
SKPX11-194	Eddy	564268	5472585	Talues of Creston Fm, green argillite, lim/hem qtz bx boulders. Argillite has hematite veins cutting it.
SKPX11-195	Eddy	564330	5472535	Qtz bx, silicified, goe, py, carb in cleaved PC1?, zone is subparallel to bedding, 330/52 E, > 2 m wide
SKPX11-196	Eddy	564305	5472410	Bedding parallel shear, albite, qtz, goe, ser, Pa3?
SKPX11-210	Eddy	564521	5475120	Intensely bullseye/mottled Pc, qtz veins w/goe, Mn, carb, strong, ser. Bedding parallel zone is >3 m wide and can be traced for over 30 meters on skid trail
SKPX11-211	Eddy	564337	5472673	Large boulder of sheared/silicified seds w/ goe, qtz, Mn, py
SKPX11-212	Eddy	564337	5472673	Intensely silicified bx, hem, py, part o shear
SKPX11-213	Eddy	564337	5472673	Same as last
SKPX11-214	Eddy	564311	5472696	Outcropping of same material. Zone is > 4 m wide, mar be part of claim creek fault. Beddin 204/60 W
SKPX11-215	Eddy	564290	5472700	5 cm wide 110/90 qtz vein w/goe and py in Pa3?, zones of silicification and seritization developed in the area
SKPX11-216	Eddy	564335	5472649	1 m wide zone of sheared qtzitic seds w/goe, carb, py, roughly bedding parallel
SKPX11-217	Eddy	564366	5472815	Sheared qtzite w/goe rich qtz veins. Different lithologies are more intensely sheared.
SKPX11-218	Eddy	564366	5472815	Sheared qtzite w/goe rich qtz veins. Different lithologies are more intensely sheared.
SKPX11-223	Zinger	560868	5474513	Thin py rich qtz veins in grey qtzite, veins are 340/50 e, 60/40 e. Jointing is related to subtle hematization of beds, qtzie is between thin bedded argillite. Beds 20052 W
SKPX11-224	Zinger	560868	5474513	Sam as last, some bedding parallel veins.
SKPX11-225	Zinger	560848	5475535	Zone of qtz veins parallel to bedding (old sample Zing 2), ser, hem alt, py, beds are 210/50 w. Zoes are sygmoideal and occur in stacked zone. Zones are silicified. Prevalent 90/90 joints, some veins are 90/60 S.
SKPX11-226	Zinger	560850	5474549	Zone of similar to last and likely are a continuation of last. Qtz veins are bedding parallel and dipslope.
SKPX11-227	Zinger	560846	5474549	Zone of qtz stockwork w/goe, ser. 30 cm wide, roughly bedding parallel
SKPX11-228	Zinger	560830	5474552	Sae as last, 45 cm wide x 3.5 m long
SKPX11-229	Zinger	560870	5474476	Angular qtzite boulder w/thin py, carb rich qtz veins. ACP 210/70 W
McpX11-75	Eddie	565479	5473445	Shear zone, qrtzite interbed
McpX11-76	Eddie	565484	5473463	Specularite, breccia hematite.
McpX11-77	Eddie	564945	5473129	Goethite, chlorite, qrtzite
McpX11-78	Eddie	564289	5472849	Thin bedded rusty argillaceous
McpX11-79	Eddie	564276	5472562	Limonite, quartzite rusty
McpX11-83	Eddie	564586	5475148	Goethite, rich les gung
McpX11-84	Eddie	564325	5472616	Goethite rich, limonite hematite
McpX11-85	Eddie	564878	5474517	Quartz vein, rotted out pyrite



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:** **PJX Resources Inc.**  
5600 - 100 King Street West  
Toronto ON M5X 1C9 Canada

Submitted By: Linda Brennan  
Receiving Lab: Canada-Vancouver  
Received: October 31, 2011  
Report Date: November 19, 2011  
Page: 1 of 7

## CERTIFICATE OF ANALYSIS

VAN11005874.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 177

### SAMPLE DISPOSAL

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

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

Invoice To: PJX Resources Inc.  
5600 - 100 King Street West  
Toronto ON M5X 1C9  
Canada

CC: John Keating  
Craig Kennedy  
Sean Kennedy

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	177	Dry at 60C			VAN
SS80	177	Dry at 60C sieve 100g to -80 mesh			VAN
1DX3	177	1:1:1 Aqua Regia digestion ICP-MS analysis	30	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. Acme 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: November 19, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR400	Soil			1.2	18.2	39.8	22	1.4	3.4	2.8	183	1.67	3.0	3.0	3.0	3	0.7	0.3	0.6	32	0.03	0.083	10
ZR401	Soil			0.9	14.3	58.9	42	0.3	5.4	3.9	204	1.99	3.9	21.5	8.6	4	0.1	0.3	0.5	37	0.03	0.054	18
ZR402	Soil			0.7	5.9	18.2	44	0.1	5.4	2.8	90	1.73	2.1	57.6	5.2	3	0.2	0.1	0.4	23	0.02	0.028	24
ZR403	Soil			0.7	6.5	30.3	31	0.3	4.6	2.6	101	1.98	2.3	6.1	4.2	4	0.2	0.2	0.4	32	0.03	0.023	17
ZR404	Soil			1.0	10.8	37.2	41	0.4	7.6	10.8	995	2.11	1.9	2.1	3.1	6	0.8	0.2	0.5	37	0.05	0.027	12
ZR405	Soil			0.6	6.7	27.3	30	<0.1	7.4	2.9	77	2.28	3.0	79.3	7.8	3	<0.1	0.3	0.5	31	0.02	0.023	26
ZR406	Soil			1.9	32.8	35.2	35	0.3	7.1	22.2	1329	1.57	2.3	18.3	0.8	4	1.0	0.3	0.4	26	0.04	0.091	10
ZR407	Soil			0.9	11.7	34.8	32	0.2	6.3	5.9	192	2.37	3.0	6.7	3.0	4	0.4	0.2	0.4	37	0.03	0.035	13
ZR408	Soil			0.7	8.2	23.8	27	<0.1	4.9	2.6	98	2.02	2.5	31.0	5.2	3	0.1	0.2	0.4	32	0.02	0.026	21
ZR409	Soil			1.1	11.2	14.3	27	0.1	4.9	2.7	85	2.44	4.5	0.6	5.9	4	0.1	0.3	0.3	39	0.03	0.049	6
ZR410	Soil			0.8	8.6	26.6	33	0.1	5.4	3.1	177	1.93	1.9	3.5	4.2	3	0.2	0.2	0.4	31	0.02	0.032	20
ZR411	Soil			0.4	3.7	7.9	17	<0.1	3.4	1.6	60	1.32	1.0	8.7	4.3	2	<0.1	0.2	0.3	24	<0.01	0.015	28
ZR412	Soil			0.6	7.0	18.9	24	<0.1	4.9	2.5	66	1.82	1.4	27.3	4.2	3	0.1	0.2	0.4	30	0.02	0.019	17
ZR413	Soil			1.3	15.2	32.3	36	0.2	6.8	7.1	291	2.70	3.6	35.1	4.6	4	0.3	0.4	0.6	44	0.04	0.055	7
ZR414	Soil			1.2	14.8	29.5	43	0.2	7.3	8.3	866	1.91	3.6	30.2	2.2	4	0.2	0.4	0.4	28	0.03	0.077	11
ZR415	Soil			1.4	15.1	40.0	65	0.2	11.0	11.4	1342	2.42	3.3	31.4	1.4	6	0.2	0.3	0.5	36	0.07	0.067	12
ZR416	Soil			0.8	9.7	24.5	52	0.2	9.3	9.1	428	2.33	2.3	5.8	1.5	10	0.2	0.2	0.5	32	0.12	0.046	14
ZR417	Soil			0.9	10.0	18.6	54	0.1	10.5	6.9	331	2.47	2.7	4.9	4.8	6	0.2	0.2	0.4	35	0.05	0.037	13
ZR418	Soil			0.5	9.9	17.9	38	<0.1	6.2	4.6	1721	1.25	3.5	30.7	0.8	8	0.3	0.4	0.5	25	0.06	0.043	19
ZR419	Soil			0.9	8.4	23.7	46	0.2	7.5	7.3	666	2.25	2.3	12.2	4.1	7	0.3	0.3	0.5	38	0.07	0.030	16
ZR420	Soil			0.8	7.3	12.7	34	<0.1	7.9	3.3	95	2.99	2.8	24.0	5.0	4	0.2	0.2	0.4	46	0.03	0.026	17
ZR421	Soil			0.7	9.5	24.2	86	0.1	12.6	9.6	3651	2.26	2.8	11.6	1.8	13	0.3	0.3	0.6	35	0.22	0.048	16
ZR422	Soil			0.8	8.2	30.0	44	0.2	7.2	8.5	756	1.93	2.1	34.6	2.3	7	0.3	0.2	0.4	32	0.06	0.036	20
ZR423	Soil			0.9	9.8	28.6	49	0.2	10.0	11.1	797	2.02	2.4	219.9	4.4	6	0.2	0.2	0.4	27	0.04	0.038	20
ZR424	Soil			0.9	7.8	21.6	46	<0.1	8.5	8.6	633	2.39	2.1	170.7	2.7	6	0.1	0.3	0.5	38	0.06	0.033	15
ZR425	Soil			0.9	12.5	24.6	55	0.2	9.4	27.3	1825	2.56	2.6	13.8	3.2	5	0.2	0.3	0.5	45	0.03	0.041	12
ZR426	Soil			1.1	11.1	15.6	40	0.2	6.3	5.2	357	2.33	3.6	1.0	3.6	5	0.2	0.4	0.6	39	0.04	0.053	5
ZR427	Soil			1.3	10.3	16.3	38	0.1	7.1	4.0	224	2.71	5.2	3.7	4.1	5	0.2	0.6	0.4	40	0.04	0.059	8
ZR428	Soil			0.8	10.3	12.1	52	<0.1	7.3	5.7	781	2.27	2.6	1.1	1.8	4	0.1	0.4	0.5	34	0.03	0.054	18
ZR429	Soil			1.2	9.5	13.0	43	<0.1	9.9	4.8	233	2.75	5.3	2.6	5.2	4	<0.1	0.4	0.4	35	0.02	0.137	17

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Project: None Given  
 Report Date: November 19, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR400	Soil			9	0.06	47	0.106	2	4.23	0.009	0.04	0.2	0.25	2.2	<0.1	0.19	10	1.5	<0.2
ZR401	Soil			9	0.11	54	0.082	1	2.97	0.007	0.06	0.4	0.11	1.9	0.1	0.08	8	0.8	<0.2
ZR402	Soil			7	0.15	68	0.025	<1	1.28	0.003	0.07	0.2	0.06	0.9	<0.1	<0.05	5	<0.5	<0.2
ZR403	Soil			7	0.13	105	0.084	<1	1.55	0.010	0.05	0.2	0.07	1.2	<0.1	0.08	10	<0.5	<0.2
ZR404	Soil			9	0.14	170	0.139	1	1.75	0.014	0.05	0.2	0.08	1.5	<0.1	<0.05	12	<0.5	<0.2
ZR405	Soil			12	0.21	50	0.033	<1	1.59	0.003	0.04	0.2	0.07	1.1	0.1	<0.05	6	<0.5	<0.2
ZR406	Soil			9	0.14	65	0.058	2	3.29	0.009	0.05	0.2	0.18	1.4	0.1	0.09	8	1.1	<0.2
ZR407	Soil			9	0.15	103	0.116	2	2.15	0.010	0.05	0.2	0.09	1.5	<0.1	<0.05	12	0.7	<0.2
ZR408	Soil			7	0.09	69	0.054	<1	2.07	0.006	0.06	0.2	0.09	1.2	<0.1	<0.05	9	<0.5	<0.2
ZR409	Soil			10	0.08	37	0.128	<1	4.92	0.010	0.04	0.2	0.20	2.0	<0.1	<0.05	12	<0.5	<0.2
ZR410	Soil			8	0.11	63	0.061	<1	2.02	0.007	0.05	0.2	0.12	1.1	<0.1	<0.05	8	0.6	<0.2
ZR411	Soil			5	0.06	44	0.040	<1	0.70	0.003	0.04	0.2	0.03	0.5	<0.1	<0.05	6	<0.5	<0.2
ZR412	Soil			6	0.10	50	0.052	<1	1.33	0.005	0.03	0.2	0.06	0.9	<0.1	<0.05	8	<0.5	<0.2
ZR413	Soil			9	0.11	69	0.149	<1	2.92	0.007	0.05	0.3	0.13	1.4	<0.1	<0.05	14	0.6	<0.2
ZR414	Soil			9	0.15	73	0.079	1	2.90	0.006	0.05	0.2	0.11	1.3	<0.1	<0.05	9	0.8	<0.2
ZR415	Soil			11	0.26	140	0.077	1	2.10	0.007	0.06	0.2	0.08	1.1	<0.1	<0.05	10	<0.5	<0.2
ZR416	Soil			9	0.22	276	0.068	<1	2.12	0.008	0.05	0.2	0.07	1.0	<0.1	<0.05	9	<0.5	<0.2
ZR417	Soil			10	0.25	130	0.110	<1	1.95	0.006	0.06	0.2	0.07	1.1	<0.1	<0.05	11	<0.5	<0.2
ZR418	Soil			7	0.10	225	0.036	1	0.79	0.004	0.05	0.1	0.07	0.6	0.1	<0.05	5	<0.5	<0.2
ZR419	Soil			10	0.20	238	0.080	<1	1.53	0.007	0.06	0.2	0.06	1.2	<0.1	<0.05	10	<0.5	<0.2
ZR420	Soil			11	0.21	105	0.091	1	1.54	0.005	0.05	0.2	0.04	1.2	<0.1	<0.05	11	<0.5	<0.2
ZR421	Soil			12	0.37	616	0.055	1	2.19	0.008	0.09	0.2	0.08	1.3	0.2	0.06	10	<0.5	<0.2
ZR422	Soil			9	0.19	372	0.045	<1	1.48	0.006	0.06	0.2	0.05	0.9	0.1	<0.05	8	<0.5	<0.2
ZR423	Soil			10	0.25	212	0.059	<1	1.89	0.006	0.07	0.2	0.06	1.3	0.1	0.05	7	<0.5	<0.2
ZR424	Soil			10	0.21	153	0.086	1	1.53	0.006	0.07	0.2	0.07	1.2	0.1	<0.05	10	<0.5	<0.2
ZR425	Soil			11	0.20	88	0.099	<1	1.52	0.005	0.07	0.2	0.08	1.2	0.1	<0.05	10	<0.5	<0.2
ZR426	Soil			8	0.10	55	0.154	1	3.47	0.011	0.05	0.3	0.08	1.3	<0.1	<0.05	13	<0.5	<0.2
ZR427	Soil			9	0.13	46	0.138	1	3.13	0.007	0.06	0.2	0.12	1.7	<0.1	<0.05	12	<0.5	<0.2
ZR428	Soil			10	0.15	81	0.061	1	1.57	0.006	0.06	0.2	0.08	1.0	<0.1	<0.05	9	<0.5	<0.2
ZR429	Soil			11	0.20	56	0.075	<1	1.86	0.005	0.05	0.2	0.11	1.2	<0.1	<0.05	9	<0.5	<0.2

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Project: None Given  
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR430	Soil			0.7	13.0	17.4	64	<0.1	13.2	8.4	1381	2.17	5.8	5.5	3.5	5	0.2	0.6	0.5	34	0.03	0.082	18	
ZR431	Soil			0.6	9.6	13.8	52	<0.1	10.4	7.1	1251	1.57	4.0	18.5	4.7	10	0.2	0.4	0.4	28	0.08	0.072	16	
ZR432	Soil			0.6	7.5	13.4	46	0.1	10.6	6.1	303	2.16	2.9	765.1	8.3	3	<0.1	0.3	0.4	24	0.02	0.042	31	
ZR433	Soil			0.8	11.6	20.6	59	0.2	9.8	11.0	3211	2.17	2.5	541.5	2.7	5	0.1	0.4	0.5	30	0.04	0.059	21	
ZR434	Soil			0.9	10.5	35.5	31	0.5	3.9	2.3	102	1.71	1.8	36.8	3.1	3	0.2	0.3	0.5	41	0.01	0.021	15	
ZR435	Soil			1.2	21.5	73.1	61	0.3	5.7	5.5	787	2.08	2.3	22.4	5.5	4	0.2	0.3	1.0	35	0.03	0.028	19	
ZR436	Soil			1.3	19.0	40.8	66	0.3	9.0	9.0	1193	2.36	4.3	7.2	4.3	5	0.3	0.4	0.6	36	0.03	0.075	10	
ZR437	Soil			1.5	23.3	41.5	58	0.3	9.4	10.7	1321	2.54	3.8	5.9	3.2	6	0.1	0.4	0.7	37	0.04	0.077	11	
ZR438	Soil			1.3	14.9	27.5	64	0.2	8.9	10.2	2642	2.36	4.2	9.7	1.5	6	0.2	0.5	0.6	34	0.03	0.103	12	
ZR439	Soil			1.3	11.4	18.7	54	0.3	7.4	4.4	517	2.86	4.4	11.1	4.0	6	0.2	0.4	0.7	34	0.03	0.116	14	
ZR440	Soil			1.8	14.2	25.5	36	0.2	8.2	5.6	336	3.44	8.5	5.2	2.5	5	0.2	0.6	0.7	54	0.02	0.058	9	
ZR441	Soil			1.3	13.2	14.3	33	0.2	6.8	2.9	153	2.49	4.0	2.2	4.7	4	0.2	0.3	0.3	33	0.03	0.063	10	
ZR442	Soil			1.6	18.1	22.3	61	0.2	10.1	4.8	560	2.37	4.9	4.5	1.7	5	0.1	0.4	0.4	35	0.03	0.119	15	
ZR443	Soil			1.7	10.2	23.9	35	0.1	5.3	4.1	491	2.06	2.3	4.8	3.3	5	0.2	0.3	0.4	32	0.03	0.028	9	
ZR444	Soil			0.9	11.2	19.3	22	0.3	4.6	2.4	135	2.09	3.4	5.0	5.9	4	0.1	0.3	0.3	28	0.03	0.062	7	
ZR445	Soil			1.6	48.0	324.8	70	2.1	7.9	4.1	329	2.79	4.0	178.7	6.5	5	0.2	0.5	0.6	40	0.03	0.040	22	
ZR446	Soil			1.0	16.2	86.8	76	0.4	8.7	4.9	491	2.13	3.5	204.6	3.6	4	<0.1	0.4	0.5	24	0.02	0.048	24	
ZR447	Soil			1.0	10.4	22.0	41	0.2	5.4	2.5	108	2.20	3.2	18.5	4.3	5	0.2	0.3	0.4	34	0.03	0.040	11	
ZR448	Soil			0.8	21.7	26.5	30	0.2	6.9	5.6	293	1.42	2.9	3.3	0.5	6	0.4	0.3	0.4	26	0.03	0.085	12	
ZR449	Soil			0.8	14.0	15.4	48	<0.1	13.4	5.1	223	2.21	4.1	6.2	1.0	6	<0.1	0.3	0.3	31	0.03	0.081	18	
ZR450	Soil			1.4	19.6	22.6	42	0.2	8.3	18.8	2008	2.05	4.2	3.0	0.5	6	0.3	0.4	0.4	31	0.03	0.147	12	
ZR451	Soil			1.6	18.5	19.2	61	0.3	10.2	17.1	4002	2.52	3.7	5.0	0.6	6	0.2	0.5	0.4	38	0.04	0.149	16	
ZR452	Soil			1.1	19.5	27.6	50	0.2	11.1	13.4	848	2.32	5.6	51.5	1.2	6	0.3	0.4	0.5	34	0.03	0.079	16	
ZR453	Soil			1.6	11.8	15.0	43	<0.1	10.9	5.1	367	2.84	6.0	63.3	2.9	5	<0.1	0.4	0.5	35	0.02	0.065	22	
ZR454	Soil			1.2	13.5	17.2	41	0.2	7.3	6.4	378	2.41	3.1	3.7	2.4	5	0.2	0.4	0.4	42	0.03	0.050	12	
ZR455	Soil			0.9	13.1	15.3	66	0.2	8.8	6.7	1780	2.87	3.5	2.5	1.6	9	0.2	0.4	0.5	44	0.07	0.107	16	
ZR456	Soil			1.1	13.0	21.0	53	0.1	9.7	6.4	434	2.31	4.1	15.9	2.6	5	<0.1	0.4	0.4	32	0.03	0.085	20	
ZR457	Soil			0.9	14.7	19.6	65	0.1	12.6	10.6	1213	1.98	4.6	5.9	0.9	6	0.2	0.4	0.4	27	0.03	0.127	18	
ZR458	Soil			1.1	12.6	14.4	77	0.1	9.4	6.9	1381	2.17	3.1	5.4	2.4	5	0.1	0.3	0.4	31	0.04	0.075	17	
ZR459	Soil			1.1	12.1	13.8	53	<0.1	11.7	4.7	151	2.83	4.4	4.4	6.0	5	0.1	0.4	0.4	37	0.03	0.044	15	

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Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR430	Soil			12	0.24	66	0.066	2	1.98	0.005	0.06	0.2	0.08	1.3	0.1	<0.05	8	0.6	<0.2
ZR431	Soil			7	0.12	109	0.058	1	1.27	0.008	0.06	0.1	0.10	1.0	0.1	<0.05	6	<0.5	<0.2
ZR432	Soil			8	0.26	73	0.036	<1	1.48	0.004	0.05	0.2	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
ZR433	Soil			9	0.18	116	0.054	2	1.60	0.004	0.08	0.2	0.07	1.1	0.1	0.05	7	<0.5	<0.2
ZR434	Soil			7	0.06	57	0.066	<1	1.17	0.006	0.04	0.2	0.05	1.0	0.1	<0.05	9	<0.5	<0.2
ZR435	Soil			6	0.12	77	0.051	1	1.15	0.005	0.07	0.3	0.04	1.2	0.1	0.05	8	<0.5	0.2
ZR436	Soil			12	0.23	59	0.085	2	2.75	0.007	0.07	0.2	0.14	1.7	0.1	0.06	10	0.6	<0.2
ZR437	Soil			12	0.23	84	0.073	1	2.04	0.006	0.06	0.2	0.13	1.4	0.1	<0.05	10	<0.5	<0.2
ZR438	Soil			12	0.22	86	0.059	1	1.85	0.006	0.06	0.1	0.11	1.1	0.1	0.07	9	<0.5	<0.2
ZR439	Soil			12	0.20	53	0.067	<1	1.59	0.005	0.06	0.2	0.10	1.2	0.1	0.05	9	<0.5	<0.2
ZR440	Soil			10	0.21	57	0.162	1	1.52	0.010	0.08	0.3	0.08	1.2	<0.1	<0.05	15	<0.5	<0.2
ZR441	Soil			11	0.17	40	0.102	<1	3.53	0.008	0.05	0.2	0.15	1.8	<0.1	<0.05	10	0.7	<0.2
ZR442	Soil			13	0.28	81	0.078	<1	2.84	0.007	0.06	0.3	0.16	1.7	0.1	<0.05	9	0.7	<0.2
ZR443	Soil			7	0.10	83	0.122	<1	2.29	0.011	0.04	0.2	0.09	1.5	<0.1	<0.05	12	<0.5	<0.2
ZR444	Soil			9	0.09	39	0.110	<1	4.64	0.010	0.03	0.2	0.16	2.0	<0.1	<0.05	10	<0.5	<0.2
ZR445	Soil			12	0.22	68	0.078	1	1.64	0.005	0.08	0.2	0.11	1.5	0.1	<0.05	10	<0.5	1.4
ZR446	Soil			10	0.24	47	0.034	<1	1.31	0.004	0.06	0.2	0.08	1.0	<0.1	<0.05	5	<0.5	0.6
ZR447	Soil			8	0.12	42	0.103	1	1.98	0.008	0.05	0.2	0.12	1.4	<0.1	<0.05	10	<0.5	<0.2
ZR448	Soil			8	0.11	70	0.054	2	1.75	0.008	0.06	0.1	0.09	0.9	0.1	<0.05	6	<0.5	<0.2
ZR449	Soil			16	0.40	55	0.042	2	2.13	0.007	0.08	<0.1	0.07	1.1	0.1	<0.05	7	<0.5	<0.2
ZR450	Soil			12	0.21	57	0.044	3	2.16	0.007	0.07	<0.1	0.11	0.8	0.1	0.07	8	<0.5	<0.2
ZR451	Soil			14	0.27	79	0.067	3	1.99	0.007	0.09	0.1	0.09	1.0	0.1	<0.05	10	<0.5	<0.2
ZR452	Soil			13	0.27	68	0.067	3	1.73	0.007	0.10	0.1	0.08	1.3	0.1	<0.05	8	<0.5	<0.2
ZR453	Soil			14	0.26	41	0.061	1	1.38	0.005	0.08	0.2	0.06	1.2	<0.1	<0.05	9	<0.5	<0.2
ZR454	Soil			11	0.17	56	0.114	2	1.95	0.009	0.07	0.2	0.09	1.4	0.1	<0.05	11	<0.5	<0.2
ZR455	Soil			13	0.22	153	0.090	1	1.50	0.008	0.09	0.1	0.09	1.3	0.1	<0.05	12	<0.5	<0.2
ZR456	Soil			12	0.24	53	0.071	2	2.52	0.006	0.07	0.2	0.08	1.5	<0.1	<0.05	8	0.7	<0.2
ZR457	Soil			12	0.27	70	0.049	3	3.29	0.007	0.08	0.1	0.10	1.2	0.1	<0.05	8	<0.5	<0.2
ZR458	Soil			10	0.19	76	0.080	1	2.28	0.006	0.07	0.2	0.15	1.2	0.1	<0.05	8	<0.5	<0.2
ZR459	Soil			14	0.23	75	0.117	2	3.26	0.009	0.07	0.2	0.11	1.9	0.1	<0.05	11	<0.5	<0.2

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Project: None Given  
 Report Date: November 19, 2011

Page: 4 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005874.1

Method Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR460	Soil		1.1	13.5	14.0	45	0.2	7.1	4.7	346	2.38	3.3	2.6	2.8	6	0.3	0.3	0.4	35	0.04	0.071	14
ZR461	Soil		1.2	13.0	13.1	45	<0.1	10.2	4.6	256	2.98	4.1	3.7	4.6	5	0.1	0.4	0.5	48	0.03	0.050	19
ZR462	Soil		1.4	14.4	15.0	47	<0.1	9.0	7.3	854	2.48	4.0	4.0	2.8	6	0.1	0.4	0.4	38	0.03	0.069	13
ZR463	Soil		1.0	9.4	8.6	28	0.1	5.5	2.9	258	2.19	4.3	1.4	3.9	4	0.2	0.3	0.2	29	0.03	0.075	7
ZR464	Soil		1.5	11.7	18.6	39	0.3	7.3	3.4	184	2.98	5.4	5.0	5.4	5	0.2	0.5	0.5	46	0.02	0.055	14
ZR465	Soil		1.3	12.6	27.6	33	0.3	5.9	3.2	164	2.71	4.9	13.2	4.3	5	0.1	0.6	0.6	53	0.02	0.040	14
ZR466	Soil		1.2	12.1	18.2	44	0.4	5.6	3.0	808	2.24	2.7	16.9	2.2	5	0.2	0.5	0.4	39	0.03	0.061	10
ZR467	Soil		1.0	11.5	13.6	53	0.2	6.6	4.6	488	2.32	2.5	17.3	3.8	5	0.1	0.3	0.4	35	0.03	0.082	8
ZR468	Soil		0.8	10.4	17.1	64	0.1	7.5	6.4	1556	2.24	3.4	38.6	4.1	7	0.1	0.3	0.4	32	0.06	0.105	17
ZR469	Soil		0.8	12.5	21.5	78	<0.1	9.9	7.0	788	2.43	3.1	199.8	3.5	5	0.1	0.5	0.5	32	0.03	0.077	30
ZR470	Soil		0.8	11.6	17.4	75	0.1	10.9	8.6	1613	2.16	3.0	44.5	3.2	4	0.2	0.4	0.4	26	0.03	0.102	35
ZR471	Soil		0.6	9.3	12.8	70	<0.1	12.5	9.7	1234	1.91	3.6	157.4	3.7	3	<0.1	0.4	0.4	20	0.03	0.084	33
ZR472	Soil		0.9	7.3	19.2	37	0.3	6.3	3.6	118	1.75	2.6	96.9	8.6	4	<0.1	0.2	0.4	28	0.02	0.041	23
ZR473	Soil		0.8	12.0	15.2	38	0.1	10.1	5.9	169	2.15	4.4	160.8	6.5	3	<0.1	0.3	0.3	20	0.02	0.088	21
ZR474	Soil		0.9	14.4	17.3	73	0.2	17.9	11.1	400	2.57	6.1	135.3	7.8	5	0.2	0.4	0.4	30	0.03	0.072	27
ZR475	Soil		0.6	12.9	11.7	42	<0.1	6.7	4.1	578	1.55	2.7	17.7	1.3	4	0.2	0.4	0.4	30	0.02	0.051	20
ZR476	Soil		1.0	18.1	18.3	48	<0.1	7.2	5.8	1420	2.23	3.7	55.5	2.1	4	0.2	0.3	0.5	36	0.02	0.100	16
ZR477	Soil		0.8	12.6	28.3	72	0.2	12.2	18.3	1534	2.73	3.0	54.8	3.5	8	0.2	0.3	0.5	39	0.05	0.047	12
ZR478	Soil		0.7	5.1	13.8	27	<0.1	4.6	2.3	69	1.77	1.7	7.6	3.4	10	0.2	0.2	0.4	39	0.11	0.016	15
ZR479	Soil		0.9	8.9	33.0	45	0.2	7.3	8.7	388	2.27	2.2	12.4	2.9	7	0.4	0.3	0.5	32	0.05	0.040	17
ZR480	Soil		0.3	4.4	8.3	23	<0.1	4.2	3.2	1393	0.91	1.3	8.7	2.0	11	0.4	0.2	0.3	22	0.11	0.022	27
ZR481	Soil		0.8	9.2	14.6	35	0.1	11.4	7.0	228	2.13	4.1	16.1	8.1	5	<0.1	0.3	0.3	32	0.03	0.052	15
ZR482	Soil		1.1	15.8	19.4	33	0.2	8.7	6.2	425	2.08	3.4	5.6	3.9	4	0.2	0.2	0.3	36	0.02	0.051	10
ZR483	Soil		1.5	19.4	18.1	39	0.3	9.8	7.7	541	2.66	5.0	28.2	4.8	4	0.3	0.5	0.4	39	0.03	0.070	14
ZR484	Soil		1.2	7.8	15.1	21	0.1	4.9	2.2	64	2.46	4.2	3.4	3.3	3	0.1	0.4	0.5	47	0.01	0.040	11
ZR485	Soil		1.3	17.1	17.7	75	0.2	12.0	10.5	2611	2.38	5.3	6.7	1.8	8	0.2	0.4	0.5	34	0.06	0.115	13
ZR486	Soil		1.6	38.2	43.8	48	0.2	9.5	20.1	2285	2.30	4.6	34.3	1.0	5	0.4	0.5	0.8	35	0.03	0.094	19
ZR487	Soil		1.5	24.2	47.4	65	0.3	11.3	15.2	2616	2.35	4.7	12.6	2.2	6	0.2	0.5	0.7	34	0.04	0.188	15
ZR488	Soil		1.2	11.0	25.2	57	0.1	9.9	7.1	1065	2.66	3.8	30.2	3.1	6	0.2	0.4	0.7	41	0.05	0.076	13
ZR489	Soil		1.0	15.6	21.2	67	0.2	10.7	13.4	2286	1.89	2.8	8.9	0.2	6	0.3	0.4	0.4	31	0.06	0.109	10

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Project: None Given  
 Report Date: November 19, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR460	Soil			10	0.14	70	0.108	2	2.66	0.010	0.07	0.2	0.10	1.5	0.1	0.05	11	<0.5	<0.2
ZR461	Soil			14	0.24	45	0.113	2	2.24	0.007	0.08	0.2	0.07	1.9	0.1	<0.05	12	<0.5	<0.2
ZR462	Soil			12	0.20	56	0.089	2	2.57	0.008	0.07	0.2	0.13	1.6	0.1	<0.05	10	0.7	<0.2
ZR463	Soil			9	0.11	37	0.126	1	4.36	0.010	0.03	0.2	0.17	1.7	<0.1	<0.05	10	<0.5	<0.2
ZR464	Soil			12	0.17	43	0.140	2	2.82	0.010	0.07	0.2	0.13	2.0	0.1	<0.05	13	<0.5	<0.2
ZR465	Soil			10	0.11	42	0.153	<1	1.58	0.009	0.06	0.1	0.09	1.4	0.1	<0.05	15	<0.5	<0.2
ZR466	Soil			9	0.12	56	0.164	2	2.30	0.011	0.06	0.2	0.10	1.5	0.1	<0.05	13	<0.5	<0.2
ZR467	Soil			9	0.12	68	0.143	2	3.88	0.011	0.05	0.2	0.11	1.7	0.1	<0.05	12	<0.5	<0.2
ZR468	Soil			9	0.14	132	0.095	2	2.55	0.008	0.07	0.2	0.12	1.3	0.1	<0.05	9	<0.5	<0.2
ZR469	Soil			11	0.21	65	0.071	1	1.94	0.007	0.09	0.1	0.07	1.3	0.1	<0.05	8	<0.5	<0.2
ZR470	Soil			10	0.26	51	0.056	2	1.58	0.005	0.09	0.1	0.04	1.2	0.1	<0.05	6	<0.5	<0.2
ZR471	Soil			10	0.25	84	0.030	1	1.76	0.003	0.06	0.1	0.06	1.0	0.1	<0.05	4	<0.5	<0.2
ZR472	Soil			9	0.12	84	0.060	<1	2.42	0.012	0.06	0.2	0.10	1.6	<0.1	<0.05	8	<0.5	<0.2
ZR473	Soil			9	0.16	63	0.040	1	2.21	0.004	0.04	0.2	0.11	1.3	<0.1	<0.05	5	0.7	<0.2
ZR474	Soil			14	0.30	90	0.054	2	2.14	0.004	0.07	0.5	0.08	1.8	0.1	<0.05	6	0.8	<0.2
ZR475	Soil			8	0.08	66	0.045	<1	0.87	0.004	0.05	0.1	0.05	0.8	<0.1	<0.05	6	0.5	<0.2
ZR476	Soil			9	0.11	97	0.076	1	1.06	0.005	0.06	0.1	0.07	1.0	0.1	<0.05	9	<0.5	<0.2
ZR477	Soil			13	0.25	314	0.119	1	2.01	0.009	0.08	0.1	0.06	1.5	0.1	<0.05	10	<0.5	<0.2
ZR478	Soil			7	0.11	360	0.102	<1	0.88	0.008	0.05	0.1	0.03	0.8	<0.1	<0.05	11	<0.5	<0.2
ZR479	Soil			10	0.17	187	0.096	4	1.70	0.009	0.07	0.2	0.10	1.3	0.1	<0.05	9	<0.5	<0.2
ZR480	Soil			5	0.07	415	0.048	<1	0.51	0.006	0.06	0.1	0.03	0.7	0.1	<0.05	4	<0.5	<0.2
ZR481	Soil			9	0.19	89	0.102	2	3.20	0.010	0.05	0.2	0.08	1.8	<0.1	<0.05	9	<0.5	<0.2
ZR482	Soil			10	0.16	72	0.119	1	2.93	0.008	0.05	0.2	0.13	1.9	0.1	<0.05	11	0.7	<0.2
ZR483	Soil			13	0.17	67	0.093	3	2.79	0.007	0.06	0.2	0.12	1.9	0.1	<0.05	10	0.6	<0.2
ZR484	Soil			10	0.09	36	0.131	<1	1.92	0.008	0.05	0.2	0.07	1.1	<0.1	<0.05	14	<0.5	<0.2
ZR485	Soil			11	0.19	135	0.108	2	2.76	0.008	0.06	0.3	0.14	1.4	0.2	<0.05	10	0.8	<0.2
ZR486	Soil			12	0.18	118	0.043	2	1.97	0.005	0.07	0.1	0.10	1.0	0.1	<0.05	8	0.6	<0.2
ZR487	Soil			12	0.22	151	0.067	2	2.82	0.006	0.08	0.2	0.13	1.4	0.1	<0.05	9	<0.5	<0.2
ZR488	Soil			11	0.18	116	0.110	2	1.46	0.006	0.07	0.2	0.11	1.2	0.1	<0.05	11	<0.5	<0.2
ZR489	Soil			11	0.23	109	0.032	2	2.36	0.006	0.07	<0.1	0.09	0.5	0.1	0.09	8	<0.5	<0.2

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Project: None Given  
 Report Date: November 19, 2011

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Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
ZR490	Soil			0.9	14.5	23.2	69	0.1	10.9	14.4	2365	2.12	3.2	5.0	0.4	7	0.2	0.4	0.4	32	0.05	0.097	12
ZR491	Soil			1.0	16.8	33.1	60	0.3	11.6	14.4	2299	2.24	5.7	10.0	0.3	7	0.5	0.6	0.6	32	0.06	0.136	12
ZR492	Soil			1.3	16.5	33.5	63	0.2	12.4	17.9	969	2.59	3.9	4.6	1.3	6	0.4	0.4	0.5	40	0.03	0.061	14
ZR493	Soil			1.2	17.4	27.5	36	0.2	7.6	13.2	404	1.99	3.3	1.9	1.5	5	0.5	0.4	0.4	35	0.03	0.059	10
ZR494	Soil			1.0	8.2	18.1	36	<0.1	6.9	3.7	212	2.34	3.4	8.6	3.8	4	0.2	0.4	0.5	49	0.03	0.030	12
ZR495	Soil			1.3	12.2	22.5	58	0.2	11.9	5.6	490	2.58	5.4	9.8	3.9	4	0.2	0.3	0.4	47	0.03	0.069	11
ZR496	Soil			1.0	11.3	15.3	52	0.1	8.8	5.5	229	2.38	3.7	2.8	4.1	4	0.1	0.3	0.4	46	0.02	0.037	7
ZR497	Soil			1.1	10.1	18.4	61	0.1	7.9	5.7	401	2.04	2.9	<0.5	3.4	5	0.2	0.2	0.4	33	0.03	0.043	7
ZR498	Soil			1.1	12.9	39.3	77	0.1	10.8	13.9	4139	2.14	3.8	6.6	0.9	8	0.4	0.3	0.5	35	0.09	0.074	12
ZR499	Soil			1.2	11.1	14.6	13	<0.1	3.3	1.3	46	1.60	2.5	1.5	0.8	5	0.2	0.1	0.3	26	0.03	0.047	8
ZR500	Soil			0.6	9.2	45.3	62	0.3	8.6	7.1	1556	1.57	4.8	2.5	0.3	21	1.3	0.2	0.5	16	0.24	0.163	7
ZR501	Soil			0.9	13.9	15.7	49	<0.1	8.6	4.2	133	1.80	4.9	4.0	6.1	5	0.1	0.3	0.3	26	0.03	0.084	15
ZR502	Soil			0.8	12.5	14.9	48	0.2	8.9	6.2	494	1.89	4.4	13.3	2.8	5	0.2	0.4	0.4	26	0.04	0.064	15
ZR503	Soil			0.9	17.5	15.5	58	0.1	9.4	8.0	766	1.88	4.6	0.6	2.5	6	0.2	0.3	0.3	27	0.04	0.135	10
ZR504	Soil			0.8	9.8	23.1	31	0.1	4.2	2.3	129	2.05	2.8	15.9	4.8	5	0.1	0.2	0.6	34	0.02	0.065	15
ZR505	Soil			1.1	15.2	19.5	62	0.1	9.0	7.7	1322	2.15	4.3	33.6	2.7	5	0.1	0.3	0.4	31	0.02	0.093	15
ZR506	Soil			1.0	13.8	15.8	19	0.2	3.1	1.3	87	2.20	3.6	3.4	3.2	3	<0.1	0.4	0.3	37	0.02	0.091	6
ZR507	Soil			1.1	13.9	10.4	20	0.2	4.0	2.8	395	1.94	4.2	<0.5	2.1	4	0.2	0.3	0.2	33	0.02	0.094	6
ZR508	Soil			1.1	9.5	14.5	13	0.2	2.3	1.0	58	2.46	4.1	1.2	2.5	3	0.4	0.5	0.4	40	0.02	0.084	5
ZR509	Soil			1.0	13.6	13.6	20	<0.1	4.8	2.5	131	2.10	6.0	25.2	3.3	4	0.3	0.6	0.5	34	0.03	0.083	6
ZR510	Soil			0.9	10.7	13.2	17	0.2	3.8	2.0	166	1.89	3.2	24.0	2.9	4	<0.1	0.2	0.3	39	0.02	0.039	5
ZR511	Soil			1.0	14.7	71.8	44	0.2	8.6	12.2	911	1.79	3.6	13.5	6.7	4	<0.1	0.4	0.9	22	0.02	0.066	20
ZR512	Soil			1.0	10.9	19.0	58	0.2	9.7	8.6	512	2.23	4.3	44.6	5.5	4	0.1	0.4	0.5	32	0.02	0.052	16
ZR513	Soil			0.6	9.9	11.6	50	0.1	11.9	6.0	166	2.04	3.7	155.6	8.1	3	0.1	0.3	0.3	21	0.02	0.033	28
ZR514	Soil			1.2	20.2	17.5	67	0.2	10.7	6.1	1199	2.41	6.0	21.9	1.6	6	0.2	0.6	0.5	41	0.03	0.116	12
ZR515	Soil			1.2	15.6	18.6	54	0.2	8.7	6.5	895	2.60	4.3	20.7	3.1	4	<0.1	0.3	0.4	42	0.02	0.083	14
ZR516	Soil			1.4	24.1	32.1	61	0.5	8.5	7.7	1464	2.34	4.7	21.3	3.2	4	0.2	0.4	0.4	37	0.02	0.124	10
ZR517	Soil			1.2	16.0	33.6	56	0.3	9.6	8.6	682	2.86	5.4	189.2	5.9	5	0.2	0.5	0.8	44	0.02	0.074	20
ZR518	Soil			1.2	11.5	19.6	52	0.3	7.1	4.4	733	2.37	3.5	203.3	2.5	5	0.1	0.3	0.5	45	0.02	0.060	17
ZR519	Soil			1.1	15.9	14.9	58	0.3	8.4	5.8	736	1.92	4.6	9.2	2.4	5	0.2	0.4	0.3	31	0.03	0.129	6

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Project: None Given  
 Report Date: November 19, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR490	Soil			12	0.27	143	0.039	2	1.84	0.006	0.08	0.1	0.08	0.7	0.1	0.08	8	<0.5	<0.2
ZR491	Soil			12	0.27	140	0.031	3	1.84	0.005	0.09	0.1	0.09	0.6	0.2	0.13	8	0.6	<0.2
ZR492	Soil			14	0.32	103	0.093	2	1.97	0.007	0.09	0.2	0.09	1.3	0.1	<0.05	9	<0.5	<0.2
ZR493	Soil			11	0.15	102	0.066	<1	2.52	0.007	0.06	0.2	0.12	1.5	0.1	<0.05	8	0.6	<0.2
ZR494	Soil			10	0.11	77	0.106	2	1.30	0.006	0.05	0.2	0.05	1.2	0.1	<0.05	11	<0.5	<0.2
ZR495	Soil			15	0.23	71	0.088	2	2.52	0.008	0.06	0.3	0.12	1.6	<0.1	<0.05	9	<0.5	<0.2
ZR496	Soil			13	0.16	61	0.098	<1	3.15	0.007	0.04	0.2	0.12	1.6	<0.1	<0.05	10	<0.5	<0.2
ZR497	Soil			10	0.15	102	0.091	<1	2.90	0.008	0.05	0.2	0.10	1.4	0.1	<0.05	10	<0.5	<0.2
ZR498	Soil			12	0.20	277	0.057	2	1.54	0.007	0.07	<0.1	0.08	0.9	0.1	<0.05	8	<0.5	<0.2
ZR499	Soil			5	0.05	39	0.141	2	2.03	0.012	0.03	0.2	0.08	1.2	<0.1	<0.05	12	<0.5	<0.2
ZR500	Soil			9	0.22	574	0.058	3	2.09	0.017	0.07	<0.1	0.08	0.8	0.1	0.06	8	0.6	<0.2
ZR501	Soil			10	0.20	53	0.089	2	2.81	0.008	0.06	0.2	0.07	2.4	0.1	<0.05	7	0.7	<0.2
ZR502	Soil			10	0.18	76	0.057	<1	1.80	0.006	0.05	0.1	0.09	1.2	0.1	<0.05	7	<0.5	<0.2
ZR503	Soil			8	0.17	85	0.113	2	5.36	0.010	0.05	0.2	0.08	2.2	0.1	<0.05	10	1.0	<0.2
ZR504	Soil			9	0.11	81	0.098	<1	1.67	0.006	0.05	0.2	0.05	1.3	0.1	<0.05	11	<0.5	<0.2
ZR505	Soil			10	0.19	82	0.077	2	3.04	0.005	0.06	0.2	0.09	1.6	0.1	<0.05	8	0.6	<0.2
ZR506	Soil			9	0.07	39	0.114	<1	3.86	0.009	0.03	0.2	0.07	2.2	<0.1	<0.05	12	0.7	<0.2
ZR507	Soil			7	0.09	39	0.113	2	4.16	0.012	0.03	0.2	0.07	2.3	0.1	<0.05	10	1.0	<0.2
ZR508	Soil			8	0.05	31	0.124	2	3.84	0.009	0.02	0.2	0.12	2.1	<0.1	<0.05	14	<0.5	<0.2
ZR509	Soil			8	0.10	28	0.107	1	3.63	0.010	0.03	0.2	0.08	2.1	<0.1	<0.05	9	0.5	<0.2
ZR510	Soil			7	0.07	31	0.126	<1	2.16	0.010	0.03	0.1	0.09	1.3	<0.1	<0.05	11	<0.5	<0.2
ZR511	Soil			7	0.13	77	0.050	<1	1.63	0.005	0.04	0.3	0.10	1.1	<0.1	<0.05	5	<0.5	<0.2
ZR512	Soil			11	0.25	52	0.072	1	2.57	0.006	0.06	0.2	0.09	1.9	0.1	<0.05	7	<0.5	<0.2
ZR513	Soil			10	0.23	58	0.032	<1	1.60	0.003	0.04	0.3	0.04	1.2	<0.1	<0.05	4	<0.5	<0.2
ZR514	Soil			15	0.29	55	0.071	2	2.65	0.007	0.08	0.2	0.10	1.7	0.2	0.06	8	0.8	<0.2
ZR515	Soil			11	0.21	60	0.100	1	2.72	0.006	0.06	0.2	0.07	1.6	0.2	<0.05	10	<0.5	<0.2
ZR516	Soil			12	0.18	72	0.093	1	4.02	0.006	0.06	0.2	0.13	2.0	0.1	0.05	9	0.8	<0.2
ZR517	Soil			13	0.22	76	0.087	<1	1.85	0.005	0.07	0.3	0.06	1.7	0.2	<0.05	10	<0.5	<0.2
ZR518	Soil			9	0.14	82	0.100	1	1.89	0.006	0.06	0.2	0.06	1.3	0.2	<0.05	11	<0.5	<0.2
ZR519	Soil			9	0.16	59	0.122	1	5.21	0.009	0.04	0.3	0.13	1.9	0.1	<0.05	10	<0.5	<0.2

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Project: None Given  
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR520	Soil			1.0	12.6	12.6	16	0.2	3.4	1.4	62	2.19	4.6	13.5	3.3	3	0.2	0.3	0.2	36	0.03	0.099	5	
ZR521	Soil			1.0	9.2	13.2	20	0.2	4.4	1.8	104	2.14	4.0	3.7	4.0	3	0.2	0.5	0.4	49	0.02	0.044	14	
ZR522	Soil			1.0	15.8	8.6	13	0.2	5.1	2.2	85	1.83	4.2	<0.5	2.8	4	0.2	0.4	0.2	30	0.03	0.080	6	
ZR523	Soil			1.2	16.8	10.1	27	0.1	5.9	3.0	116	2.29	5.1	3.4	3.8	5	0.2	0.3	0.2	39	0.03	0.087	6	
ZR524	Soil			0.6	5.8	9.0	25	<0.1	6.7	2.6	56	2.02	3.8	35.4	6.6	3	0.1	0.4	0.3	31	0.01	0.028	27	
ZR525	Soil			0.9	7.1	14.3	23	<0.1	4.2	2.1	91	1.96	2.7	5.2	4.3	3	0.2	0.4	0.5	52	0.01	0.028	15	
ZR526	Soil			1.0	10.2	18.5	23	<0.1	4.2	3.1	244	1.96	3.7	2.4	3.2	4	0.2	0.4	0.4	36	0.03	0.050	7	
ZR527	Soil			1.5	14.5	20.4	52	0.1	11.1	12.0	856	2.77	4.3	9.2	1.6	5	0.1	0.4	0.4	42	0.02	0.049	12	
ZR528	Soil			1.0	14.6	16.0	61	<0.1	17.5	9.7	608	2.79	6.4	4.6	2.4	6	0.1	0.4	0.4	41	0.03	0.061	16	
ZR529	Soil			1.8	15.2	18.8	58	<0.1	14.6	8.2	557	3.37	8.0	12.3	4.1	5	0.2	0.6	0.5	49	0.03	0.068	17	
ZR530	Soil			2.1	15.2	23.5	48	0.2	11.4	7.7	660	3.00	7.4	3.2	0.8	4	0.2	0.6	0.5	45	0.02	0.094	11	
ZR531	Soil			1.0	14.2	17.6	47	0.2	10.6	11.0	754	2.04	3.8	8.1	0.4	5	0.3	0.5	0.4	33	0.02	0.086	11	
ZR532	Soil			0.7	10.5	15.4	28	<0.1	5.4	3.2	494	1.36	2.4	111.2	1.3	4	0.2	0.3	0.4	28	0.02	0.037	18	
ZR533	Soil			1.0	11.2	17.3	34	<0.1	7.2	3.3	177	2.32	5.6	7.2	3.8	4	0.2	0.4	0.5	39	0.02	0.096	14	
ZR534	Soil			0.9	9.5	18.7	25	<0.1	4.8	3.0	166	2.13	3.0	11.5	2.8	4	0.1	0.3	0.4	49	0.02	0.049	10	
ZR535	Soil			1.2	11.1	32.6	33	0.2	7.3	5.9	395	1.70	3.3	8.2	0.4	8	0.3	0.3	0.3	25	0.07	0.081	12	
ZR536	Soil			0.9	9.6	26.5	53	0.2	6.1	4.2	814	2.06	2.8	10.7	2.8	9	0.3	0.3	0.4	37	0.13	0.047	9	
ZR537	Soil			1.4	23.2	114.2	70	0.5	8.6	4.3	215	3.07	5.7	156.6	4.2	4	0.4	0.6	0.6	50	0.02	0.049	16	
ZR538	Soil			0.9	14.6	20.2	28	0.6	5.3	3.4	428	1.56	1.9	38.8	3.8	3	<0.1	0.3	0.4	39	0.02	0.025	11	
ZR539	Soil			1.0	11.1	26.1	38	0.2	7.2	4.6	457	2.26	3.2	27.2	4.0	4	0.1	0.3	0.3	36	0.02	0.054	13	
ZR540	Soil			2.0	17.4	31.4	36	<0.1	8.6	3.8	161	3.46	6.2	5.9	3.5	4	<0.1	0.4	0.4	54	0.02	0.062	10	
ZR541	Soil			1.1	10.7	12.1	12	<0.1	4.1	1.5	26	2.07	2.4	<0.5	2.3	3	0.3	0.3	0.2	34	0.02	0.030	5	
ZR542	Soil			1.8	19.7	56.1	29	0.2	7.9	3.8	96	2.68	3.9	2.3	3.1	4	0.3	0.4	0.5	40	0.03	0.046	8	
ZR543	Soil			1.4	14.7	20.6	18	0.3	6.1	2.8	95	2.34	3.9	<0.5	4.9	4	0.2	0.3	0.3	35	0.03	0.065	7	
ZR544	Soil			1.1	12.4	12.5	25	0.1	5.2	2.4	86	2.31	4.3	3.9	3.5	4	0.2	0.4	0.5	40	0.02	0.063	9	
ZR545	Soil			1.1	11.2	23.2	31	0.1	6.1	3.6	233	2.15	4.7	2.4	3.3	5	0.3	0.5	0.6	40	0.02	0.048	18	
ZR546	Soil			1.1	10.3	18.0	31	0.1	6.6	3.5	165	2.16	3.6	3.9	2.9	5	0.2	0.3	0.5	37	0.02	0.059	18	
ZR547	Soil			0.9	12.8	9.7	30	0.1	5.0	3.0	98	1.73	2.4	1.9	4.5	3	<0.1	0.2	0.2	27	0.02	0.036	8	
ZR548	Soil			0.9	8.1	11.6	28	<0.1	4.5	2.3	111	1.84	2.1	19.5	4.4	4	<0.1	0.3	0.4	34	0.10	0.025	11	
ZR549	Soil			1.4	10.5	14.2	26	0.1	6.1	2.7	100	2.95	4.8	26.4	3.9	4	0.2	0.5	0.6	54	0.02	0.043	19	

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Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR520	Soil			9	0.07	29	0.127	<1	5.52	0.010	0.02	0.2	0.13	2.6	<0.1	<0.05	10	<0.5	<0.2
ZR521	Soil			8	0.11	36	0.095	<1	1.30	0.006	0.03	0.1	0.04	1.2	<0.1	<0.05	12	<0.5	<0.2
ZR522	Soil			7	0.10	21	0.133	<1	5.10	0.012	0.02	0.2	0.11	2.7	<0.1	<0.05	9	1.1	<0.2
ZR523	Soil			10	0.12	47	0.113	1	4.66	0.010	0.03	0.2	0.12	2.3	<0.1	<0.05	10	<0.5	<0.2
ZR524	Soil			9	0.16	26	0.048	<1	1.07	0.003	0.04	0.2	0.04	1.1	0.1	<0.05	7	<0.5	<0.2
ZR525	Soil			8	0.09	35	0.136	<1	1.13	0.007	0.04	0.1	0.06	1.0	0.1	<0.05	13	<0.5	<0.2
ZR526	Soil			7	0.08	47	0.115	<1	2.09	0.008	0.04	0.2	0.09	1.1	<0.1	<0.05	12	<0.5	<0.2
ZR527	Soil			14	0.30	72	0.089	2	1.78	0.005	0.07	0.2	0.08	1.3	0.1	<0.05	10	<0.5	<0.2
ZR528	Soil			19	0.48	59	0.054	<1	1.67	0.004	0.07	0.2	0.05	1.5	0.1	<0.05	7	<0.5	<0.2
ZR529	Soil			18	0.42	48	0.100	1	1.69	0.004	0.09	0.2	0.06	1.9	0.1	<0.05	10	<0.5	<0.2
ZR530	Soil			15	0.35	53	0.066	2	1.66	0.004	0.07	0.2	0.11	1.1	<0.1	0.08	11	<0.5	<0.2
ZR531	Soil			12	0.31	59	0.041	2	1.66	0.004	0.08	0.2	0.08	0.7	0.1	0.06	7	<0.5	<0.2
ZR532	Soil			8	0.16	48	0.059	<1	0.87	0.004	0.04	0.1	0.03	0.8	0.1	<0.05	7	<0.5	<0.2
ZR533	Soil			12	0.26	37	0.079	1	1.23	0.004	0.05	0.2	0.06	1.3	0.1	<0.05	8	<0.5	<0.2
ZR534	Soil			8	0.09	44	0.141	<1	1.44	0.005	0.04	0.3	0.07	1.1	<0.1	<0.05	12	<0.5	<0.2
ZR535	Soil			11	0.20	98	0.048	1	2.37	0.008	0.05	0.1	0.14	0.9	<0.1	0.05	9	0.5	<0.2
ZR536	Soil			8	0.12	101	0.122	1	1.08	0.007	0.06	0.2	0.08	1.0	0.1	<0.05	10	<0.5	<0.2
ZR537	Soil			10	0.16	51	0.100	<1	1.22	0.005	0.04	0.3	0.07	1.1	<0.1	<0.05	11	<0.5	0.6
ZR538	Soil			7	0.08	62	0.093	<1	1.25	0.007	0.04	0.1	0.09	1.1	0.1	<0.05	9	<0.5	<0.2
ZR539	Soil			9	0.13	60	0.084	<1	2.31	0.007	0.04	0.2	0.10	1.5	<0.1	<0.05	10	<0.5	<0.2
ZR540	Soil			14	0.25	43	0.149	2	3.13	0.007	0.06	0.3	0.12	2.3	0.1	<0.05	14	0.6	<0.2
ZR541	Soil			6	0.05	30	0.150	<1	3.39	0.008	0.02	0.2	0.13	1.4	<0.1	<0.05	13	<0.5	<0.2
ZR542	Soil			10	0.19	47	0.165	<1	2.71	0.009	0.05	0.3	0.15	1.8	0.1	<0.05	15	<0.5	<0.2
ZR543	Soil			11	0.13	31	0.146	1	5.09	0.010	0.03	0.3	0.20	2.1	<0.1	<0.05	11	<0.5	<0.2
ZR544	Soil			9	0.10	40	0.131	2	2.66	0.011	0.04	0.2	0.10	1.5	0.1	0.06	12	0.6	<0.2
ZR545	Soil			10	0.18	46	0.095	2	1.08	0.006	0.07	0.2	0.06	1.2	0.1	0.08	9	<0.5	<0.2
ZR546	Soil			12	0.24	39	0.065	1	1.48	0.005	0.06	0.2	0.07	1.3	0.1	0.08	9	<0.5	<0.2
ZR547	Soil			8	0.14	43	0.112	<1	3.81	0.010	0.03	0.3	0.12	2.0	<0.1	0.08	9	0.7	<0.2
ZR548	Soil			7	0.10	56	0.094	1	1.97	0.010	0.04	0.2	0.07	1.3	0.1	<0.05	10	<0.5	<0.2
ZR549	Soil			11	0.13	34	0.152	2	1.10	0.007	0.07	0.3	0.03	1.2	0.1	0.08	14	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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Project: None Given  
 Report Date: November 19, 2011

Page: 7 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
ZR550	Soil			1.2	13.2	26.6	34	0.2	8.3	4.8	357	2.87	4.3	13.0	3.1	5	0.1	0.4	0.6	40	0.02	0.088	19
ZR551	Soil			1.0	12.2	21.1	39	0.2	8.6	4.0	257	2.52	3.5	4.6	3.0	5	0.2	0.4	0.6	44	0.02	0.047	18
ZR552	Soil			1.5	22.7	40.7	40	0.2	8.9	54.0	2520	1.79	3.4	6.4	0.6	5	0.4	0.4	0.5	26	0.03	0.091	12
ZR553	Soil			0.7	6.5	10.9	25	<0.1	4.6	2.4	166	1.30	1.0	13.4	3.6	3	<0.1	0.3	0.4	42	0.02	0.018	14
ZR554	Soil			0.7	5.7	7.9	29	0.1	6.0	2.6	69	1.75	2.0	3.8	6.1	4	0.2	0.3	0.3	28	0.01	0.019	21
ZR555	Soil			0.9	15.9	10.9	11	0.1	4.4	1.9	52	1.99	2.8	2.5	3.5	4	<0.1	0.2	0.2	32	0.03	0.037	7
ZR556	Soil			1.1	4.6	14.0	34	<0.1	6.7	5.2	141	1.21	1.1	10.7	1.4	14	0.2	0.1	0.4	21	0.14	0.031	14
ZR557	Soil			0.9	7.6	12.6	17	<0.1	3.8	1.5	48	1.94	1.5	23.0	4.3	3	0.1	0.2	0.3	34	0.02	0.021	13
ZR558	Soil			1.2	10.5	14.9	25	0.2	7.2	3.0	68	2.34	3.6	0.7	5.9	3	0.1	0.2	0.4	32	0.02	0.033	9
ZR559	Soil			0.6	4.3	8.4	12	0.1	2.7	1.2	55	0.89	0.7	2.9	3.2	3	<0.1	0.2	0.3	24	0.01	0.016	17
ZR560	Soil			0.8	7.2	12.9	29	0.1	4.4	2.2	214	1.12	1.1	3.2	2.4	6	0.1	0.3	0.4	29	0.06	0.022	16
ZR561	Soil			1.2	9.6	83.6	55	0.1	5.9	4.2	349	2.32	1.9	32.7	2.0	5	0.3	0.3	0.6	35	0.02	0.039	15
ZR562	Soil			1.2	18.8	78.3	67	0.4	10.1	8.9	814	2.34	3.9	19.0	1.1	5	0.4	0.4	0.6	28	0.03	0.073	10
ZR563	Soil			1.2	16.9	86.0	70	0.3	11.1	7.5	834	3.00	2.9	13.8	3.1	6	0.2	0.6	0.6	44	0.03	0.048	18
ZR564	Soil			1.0	11.8	64.9	57	0.3	8.1	8.4	777	2.30	4.9	127.8	1.2	9	0.5	0.5	0.7	39	0.06	0.059	16
ZR565	Soil			1.1	13.7	35.1	34	0.3	5.9	2.6	94	2.21	4.0	14.8	4.1	5	0.2	0.4	0.4	38	0.03	0.046	8
ZR566	Soil			1.1	25.0	85.9	51	0.4	7.7	3.3	137	2.36	3.6	89.9	4.4	4	0.2	0.3	0.6	32	0.02	0.062	19
ZR567	Soil			0.9	8.9	43.5	27	0.4	4.4	2.1	102	1.87	2.5	14.0	3.4	5	0.2	0.3	0.7	42	0.03	0.033	15
ZR568	Soil			1.2	19.2	40.8	27	0.5	6.4	3.1	120	2.20	1.8	44.6	1.4	6	0.3	0.2	0.5	33	0.03	0.054	14
ZR569	Soil			0.7	11.2	21.8	31	0.3	5.0	3.1	140	1.70	2.7	22.3	2.8	5	0.2	0.4	0.6	30	0.02	0.039	18
ZR570	Soil			1.0	13.9	28.9	30	0.1	6.3	3.7	142	1.80	3.5	4.6	1.6	6	0.3	0.3	0.5	31	0.03	0.044	11
ZR571	Soil			0.8	12.5	15.8	41	0.2	6.5	3.8	752	1.86	2.6	36.1	4.1	5	0.1	0.5	0.5	38	0.03	0.045	21
ZR572	Soil			1.2	14.6	14.2	45	0.2	6.4	3.5	529	2.36	3.0	5.3	3.3	5	0.2	0.3	0.5	41	0.03	0.071	11
ZR573	Soil			0.9	9.4	13.0	44	0.1	8.1	4.2	342	2.67	3.2	9.6	3.2	5	0.1	0.4	0.5	39	0.02	0.061	19
ZR574	Soil			1.1	10.9	11.9	57	<0.1	9.3	5.1	682	2.32	4.3	46.8	4.2	5	0.1	0.4	0.4	32	0.03	0.121	20
ZR575	Soil			0.9	13.2	14.1	45	0.1	7.4	4.3	1057	2.16	3.1	80.4	3.0	5	0.1	0.4	0.4	36	0.02	0.060	20
ZR576	Soil			1.2	15.4	16.2	71	0.3	8.4	6.3	1027	2.41	4.1	66.4	4.0	6	0.1	0.4	0.4	34	0.03	0.117	15



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Project: None Given  
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005874.1

Method	Analyte	1DX30															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR550	Soil	12	0.24	49	0.073	1	1.44	0.005	0.07	0.2	0.06	1.3	0.1	0.06	9	<0.5	<0.2
ZR551	Soil	11	0.20	58	0.083	1	1.28	0.006	0.07	0.2	0.05	1.2	<0.1	0.06	10	<0.5	<0.2
ZR552	Soil	11	0.23	90	0.038	1	1.81	0.007	0.07	0.1	0.12	0.8	0.1	0.09	7	0.5	<0.2
ZR553	Soil	7	0.10	50	0.092	1	0.73	0.006	0.03	0.1	0.03	0.8	0.2	<0.05	8	<0.5	<0.2
ZR554	Soil	7	0.24	42	0.071	1	1.01	0.005	0.03	0.1	0.05	0.9	<0.1	<0.05	7	<0.5	<0.2
ZR555	Soil	7	0.08	18	0.153	<1	4.76	0.015	0.02	0.1	0.14	2.6	<0.1	<0.05	12	<0.5	<0.2
ZR556	Soil	6	0.18	301	0.044	<1	1.53	0.010	0.04	0.2	0.04	1.0	<0.1	0.06	8	<0.5	<0.2
ZR557	Soil	8	0.09	68	0.046	<1	1.78	0.007	0.03	<0.1	0.05	1.4	0.1	<0.05	9	<0.5	<0.2
ZR558	Soil	10	0.14	54	0.087	<1	3.75	0.007	0.04	0.2	0.12	2.0	<0.1	<0.05	9	0.7	<0.2
ZR559	Soil	4	0.05	59	0.057	<1	0.67	0.007	0.03	0.2	0.04	0.7	0.1	<0.05	7	<0.5	<0.2
ZR560	Soil	6	0.08	103	0.072	<1	0.76	0.006	0.05	0.2	0.04	0.8	0.1	<0.05	7	0.6	<0.2
ZR561	Soil	9	0.16	104	0.069	<1	1.25	0.007	0.06	0.2	0.04	1.0	0.1	0.05	10	<0.5	<0.2
ZR562	Soil	12	0.26	80	0.049	1	1.72	0.005	0.06	0.2	0.11	0.9	<0.1	0.08	8	0.6	<0.2
ZR563	Soil	16	0.35	94	0.116	5	1.91	0.007	0.11	0.2	0.09	1.9	0.1	<0.05	10	<0.5	<0.2
ZR564	Soil	12	0.23	167	0.055	2	1.27	0.007	0.10	0.1	0.06	1.2	0.1	0.07	8	<0.5	<0.2
ZR565	Soil	8	0.14	45	0.122	2	3.74	0.012	0.05	0.2	0.15	2.0	0.1	0.05	11	<0.5	<0.2
ZR566	Soil	11	0.25	48	0.072	2	1.76	0.005	0.06	0.2	0.11	1.4	0.1	<0.05	9	0.6	0.3
ZR567	Soil	9	0.14	56	0.095	2	1.56	0.007	0.06	0.2	0.09	1.4	0.1	<0.05	12	<0.5	<0.2
ZR568	Soil	10	0.16	78	0.106	3	1.86	0.010	0.06	0.3	0.15	1.1	<0.1	0.08	12	0.9	<0.2
ZR569	Soil	9	0.13	56	0.057	2	1.30	0.007	0.08	0.1	0.10	1.2	0.1	<0.05	7	0.7	<0.2
ZR570	Soil	9	0.18	75	0.119	2	1.67	0.013	0.07	0.2	0.07	1.6	0.1	0.06	11	<0.5	<0.2
ZR571	Soil	9	0.14	68	0.097	2	0.91	0.006	0.07	0.2	0.06	1.2	0.1	<0.05	9	<0.5	<0.2
ZR572	Soil	10	0.13	65	0.123	2	2.17	0.009	0.05	0.2	0.11	1.5	0.1	<0.05	12	0.5	<0.2
ZR573	Soil	10	0.23	46	0.095	2	1.42	0.008	0.06	0.1	0.08	1.2	0.1	<0.05	11	<0.5	<0.2
ZR574	Soil	11	0.28	53	0.092	2	2.54	0.007	0.07	0.2	0.12	1.4	0.1	0.05	9	1.0	<0.2
ZR575	Soil	10	0.23	56	0.087	2	1.57	0.007	0.06	0.1	0.06	1.4	0.1	<0.05	9	<0.5	<0.2
ZR576	Soil	11	0.20	75	0.097	3	3.36	0.008	0.07	0.2	0.12	2.0	0.2	0.06	10	1.1	<0.2



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Project: None Given

Report Date: November 19, 2011

Page: 1 of 2 Part 1

# QUALITY CONTROL REPORT

VAN11005874.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
ZR401	Soil	0.9	14.3	58.9	42	0.3	5.4	3.9	204	1.99	3.9	21.5	8.6	4	0.1	0.3	0.5	37	0.03	0.054	18
REP ZR401	QC	0.9	13.3	56.3	39	0.4	4.6	3.6	197	1.85	3.4	25.4	8.3	4	0.2	0.3	0.4	31	0.03	0.049	15
ZR435	Soil	1.2	21.5	73.1	61	0.3	5.7	5.5	787	2.08	2.3	22.4	5.5	4	0.2	0.3	1.0	35	0.03	0.028	19
REP ZR435	QC	1.1	22.9	74.8	62	0.2	5.7	5.7	822	2.05	2.6	16.7	5.5	4	0.3	0.3	1.1	37	0.03	0.031	20
ZR436	Soil	1.3	19.0	40.8	66	0.3	9.0	9.0	1193	2.36	4.3	7.2	4.3	5	0.3	0.4	0.6	36	0.03	0.075	10
REP ZR436	QC	1.4	20.0	41.5	67	0.3	9.4	9.1	1173	2.35	3.9	2.0	4.2	6	0.3	0.5	0.6	35	0.04	0.080	12
ZR471	Soil	0.6	9.3	12.8	70	<0.1	12.5	9.7	1234	1.91	3.6	157.4	3.7	3	<0.1	0.4	0.4	20	0.03	0.084	33
REP ZR471	QC	0.6	10.2	13.9	73	<0.1	13.3	10.7	1364	1.98	3.3	44.4	3.3	4	0.1	0.4	0.4	20	0.03	0.087	38
ZR482	Soil	1.1	15.8	19.4	33	0.2	8.7	6.2	425	2.08	3.4	5.6	3.9	4	0.2	0.2	0.3	36	0.02	0.051	10
REP ZR482	QC	1.3	17.2	19.5	37	0.2	9.8	6.6	427	2.18	3.8	3.8	3.8	5	0.3	0.3	0.4	38	0.03	0.058	12
ZR497	Soil	1.1	10.1	18.4	61	0.1	7.9	5.7	401	2.04	2.9	<0.5	3.4	5	0.2	0.2	0.4	33	0.03	0.043	7
REP ZR497	QC	1.1	11.1	18.4	63	0.1	8.4	6.0	409	2.12	3.0	<0.5	3.4	6	0.2	0.3	0.4	34	0.03	0.048	8
ZR512	Soil	1.0	10.9	19.0	58	0.2	9.7	8.6	512	2.23	4.3	44.6	5.5	4	0.1	0.4	0.5	32	0.02	0.052	16
REP ZR512	QC	1.0	10.1	19.4	58	0.2	9.3	8.1	503	2.08	4.3	370.3	5.6	4	0.3	0.4	0.6	32	0.02	0.051	16
ZR534	Soil	0.9	9.5	18.7	25	<0.1	4.8	3.0	166	2.13	3.0	11.5	2.8	4	0.1	0.3	0.4	49	0.02	0.049	10
REP ZR534	QC	1.0	10.1	19.2	27	0.1	5.1	3.1	173	2.17	3.2	10.9	3.1	4	0.1	0.3	0.5	49	0.02	0.053	13
ZR558	Soil	1.2	10.5	14.9	25	0.2	7.2	3.0	68	2.34	3.6	0.7	5.9	3	0.1	0.2	0.4	32	0.02	0.033	9
REP ZR558	QC	1.3	11.1	15.0	27	0.2	7.9	3.2	71	2.39	3.6	1.8	6.1	3	0.1	0.3	0.4	32	0.02	0.032	12
ZR563	Soil	1.2	16.9	86.0	70	0.3	11.1	7.5	834	3.00	2.9	13.8	3.1	6	0.2	0.6	0.6	44	0.03	0.048	18
REP ZR563	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS8	Standard	13.4	112.4	127.3	310	1.9	36.6	7.1	608	2.42	24.5	113.2	7.5	74	2.3	6.0	6.5	41	0.68	0.074	17
STD DS8	Standard	13.1	110.9	127.9	299	1.8	35.8	7.1	604	2.40	23.1	120.5	7.6	74	2.4	5.8	6.7	40	0.69	0.075	17
STD DS8	Standard	12.4	109.6	133.2	310	1.9	37.5	7.9	635	2.48	24.5	106.3	7.0	68	2.3	5.6	6.5	53	0.68	0.085	15
STD DS8	Standard	13.1	120.1	127.2	315	1.9	41.2	8.2	623	2.46	26.1	113.7	7.0	64	2.5	5.6	6.8	45	0.68	0.081	15
STD DS8	Standard	13.1	115.6	127.4	308	1.7	39.9	7.9	600	2.42	25.2	115.2	6.9	65	2.2	5.7	6.4	43	0.67	0.077	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: None Given  
 Report Date: November 19, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005874.1

Method	Analyte	Unit	MDL	1DX30 Cr ppm	1DX30 Mg %	1DX30 Ba ppm	1DX30 Ti %	1DX30 B ppm	1DX30 Al %	1DX30 Na %	1DX30 K %	1DX30 W ppm	1DX30 Hg ppm	1DX30 Sc ppm	1DX30 Ti ppm	1DX30 S %	1DX30 Ga ppm	1DX30 Se ppm	1DX30 Te ppm
Pulp Duplicates																			
ZR401	Soil			9	0.11	54	0.082	1	2.97	0.007	0.06	0.4	0.11	1.9	0.1	0.08	8	0.8	<0.2
REP ZR401	QC			8	0.10	54	0.066	1	2.75	0.007	0.05	0.3	0.11	1.5	0.1	0.10	7	<0.5	<0.2
ZR435	Soil			6	0.12	77	0.051	1	1.15	0.005	0.07	0.3	0.04	1.2	0.1	0.05	8	<0.5	0.2
REP ZR435	QC			8	0.12	78	0.062	<1	1.18	0.005	0.08	0.5	0.04	1.3	0.1	0.08	8	<0.5	<0.2
ZR436	Soil			12	0.23	59	0.085	2	2.75	0.007	0.07	0.2	0.14	1.7	0.1	0.06	10	0.6	<0.2
REP ZR436	QC			12	0.24	63	0.109	1	2.81	0.008	0.08	0.3	0.14	2.0	0.1	0.07	10	0.8	<0.2
ZR471	Soil			10	0.25	84	0.030	1	1.76	0.003	0.06	0.1	0.06	1.0	0.1	<0.05	4	<0.5	<0.2
REP ZR471	QC			11	0.25	85	0.039	<1	1.78	0.004	0.07	0.2	0.07	1.1	0.1	<0.05	5	<0.5	<0.2
ZR482	Soil			10	0.16	72	0.119	1	2.93	0.008	0.05	0.2	0.13	1.9	0.1	<0.05	11	0.7	<0.2
REP ZR482	QC			11	0.18	74	0.150	2	3.07	0.010	0.05	0.2	0.12	2.3	0.1	<0.05	11	0.9	<0.2
ZR497	Soil			10	0.15	102	0.091	<1	2.90	0.008	0.05	0.2	0.10	1.4	0.1	<0.05	10	<0.5	<0.2
REP ZR497	QC			10	0.16	102	0.114	1	2.97	0.008	0.05	0.3	0.09	1.8	0.1	<0.05	10	<0.5	<0.2
ZR512	Soil			11	0.25	52	0.072	1	2.57	0.006	0.06	0.2	0.09	1.9	0.1	<0.05	7	<0.5	<0.2
REP ZR512	QC			11	0.24	53	0.069	2	2.42	0.005	0.06	0.2	0.09	1.9	0.1	<0.05	7	0.7	<0.2
ZR534	Soil			8	0.09	44	0.141	<1	1.44	0.005	0.04	0.3	0.07	1.1	<0.1	<0.05	12	<0.5	<0.2
REP ZR534	QC			8	0.11	47	0.169	<1	1.50	0.006	0.04	0.3	0.07	1.3	0.1	<0.05	12	<0.5	<0.2
ZR558	Soil			10	0.14	54	0.087	<1	3.75	0.007	0.04	0.2	0.12	2.0	<0.1	<0.05	9	0.7	<0.2
REP ZR558	QC			11	0.15	53	0.108	<1	3.62	0.008	0.04	0.3	0.11	2.4	0.1	<0.05	9	<0.5	<0.2
ZR563	Soil			16	0.35	94	0.116	5	1.91	0.007	0.11	0.2	0.09	1.9	0.1	<0.05	10	<0.5	<0.2
REP ZR563	QC			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																			
STD DS8	Standard			113	0.59	275	0.134	3	0.89	0.092	0.41	2.9	0.19	2.3	5.1	0.13	5	4.5	4.6
STD DS8	Standard			111	0.59	260	0.126	2	0.91	0.095	0.39	2.8	0.20	2.5	5.1	0.17	5	4.6	5.8
STD DS8	Standard			123	0.62	260	0.114	2	0.93	0.092	0.39	2.8	0.22	2.3	5.6	0.26	5	5.5	4.7
STD DS8	Standard			122	0.65	277	0.122	2	0.94	0.092	0.40	3.0	0.21	2.3	5.6	0.13	5	4.7	5.0
STD DS8	Standard			119	0.60	257	0.119	3	0.91	0.096	0.42	2.9	0.20	2.5	5.4	0.14	5	4.7	4.6
STD DS8 Expected				115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: None Given

Report Date: November 19, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11005874.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: None Given

Report Date: November 19, 2011

Page: 2 of 2 Part 2

# QUALITY CONTROL REPORT

VAN11005874.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Linda Brennan
Receiving Lab: Canada-Vancouver
Received: October 31, 2011
Report Date: November 18, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN11005875.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 176

SAMPLE DISPOSAL

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

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

Invoice To: PJX Resources Inc.
5600 - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: John Keating
Craig Kennedy
Sean Kennedy

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include: Dry at 60C, SS80, 1DX3.

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. Acme 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: November 18, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR577	Soil			1.2	13.6	13.8	57	0.2	7.0	5.6	610	2.38	4.3	35.9	3.7	5	0.1	0.3	0.5	35	0.03	0.085	10	
ZR578	Soil			1.1	10.6	12.0	52	0.1	7.8	3.9	335	2.13	4.1	6.5	3.6	6	0.1	0.4	0.4	28	0.04	0.103	14	
ZR579	Soil			0.6	9.1	13.4	64	<0.1	9.3	7.9	1166	1.90	3.1	59.8	3.0	3	0.1	0.3	0.4	22	0.01	0.055	23	
ZR580	Soil			0.8	9.6	12.3	49	<0.1	9.6	4.9	402	2.08	3.9	34.7	4.9	3	0.1	0.3	0.4	27	0.02	0.058	17	
ZR581	Soil			0.9	14.5	10.3	23	0.2	3.7	2.1	114	1.66	4.8	4.4	2.8	4	0.1	0.4	0.2	23	0.03	0.096	5	
ZR582	Soil			1.2	12.8	10.2	34	0.2	5.4	3.1	191	2.12	4.5	2.8	3.5	5	<0.1	0.3	0.3	32	0.03	0.096	6	
ZR583	Soil			0.8	11.7	12.0	23	0.1	3.6	1.6	211	1.68	2.8	7.4	1.6	4	<0.1	0.3	0.4	31	0.03	0.058	10	
ZR584	Soil			1.1	10.1	13.6	34	0.1	5.7	2.8	165	2.23	6.0	12.0	3.0	6	0.3	0.5	0.4	35	0.03	0.070	6	
ZR585	Soil			0.6	8.3	16.6	31	<0.1	3.9	1.6	95	1.27	2.5	22.7	1.8	6	0.3	0.4	0.5	26	0.03	0.029	12	
ZR586	Soil			0.7	7.6	16.7	23	0.2	3.6	1.7	111	1.28	1.9	21.8	3.2	3	<0.1	0.2	0.6	29	0.01	0.025	16	
ZR587	Soil			0.7	7.4	15.0	26	0.3	4.0	2.1	127	1.64	2.1	28.7	4.0	4	<0.1	0.2	0.5	34	0.02	0.025	15	
ZR588	Soil			0.7	7.8	18.6	37	<0.1	7.4	3.7	177	1.93	3.9	57.0	4.4	3	0.2	0.4	0.5	23	0.02	0.037	24	
ZR589	Soil			0.5	8.3	12.9	34	<0.1	6.3	3.2	261	1.64	2.8	21.1	5.8	4	0.1	0.3	0.5	21	0.01	0.027	31	
ZR590	Soil			0.9	13.0	14.1	37	0.1	6.6	4.4	396	1.99	4.7	5.8	4.9	6	<0.1	0.4	0.4	29	0.04	0.102	10	
ZR591	Soil			1.1	11.7	14.5	32	<0.1	5.8	4.1	558	2.20	7.1	1.3	5.4	4	0.1	0.5	0.4	35	0.02	0.056	9	
ZR592	Soil			1.0	11.4	10.1	18	0.1	3.5	1.9	292	1.89	3.3	2.0	2.2	4	<0.1	0.2	0.3	31	0.03	0.064	4	
ZR593	Soil			0.8	10.6	13.5	26	0.1	4.1	2.0	850	1.63	2.9	2.9	2.2	4	0.2	0.3	0.4	27	0.02	0.047	6	
ZR594	Soil			0.6	5.9	18.6	14	<0.1	2.0	1.0	60	1.23	1.6	19.1	2.0	3	0.1	0.4	0.6	34	0.01	0.021	9	
ZR595	Soil			0.9	9.4	16.3	28	0.1	4.3	2.2	304	2.37	3.0	7.3	3.2	4	0.1	0.4	0.5	43	0.02	0.038	5	
ZR596	Soil			0.8	8.7	10.5	27	<0.1	4.8	2.1	103	2.01	4.4	33.1	4.0	4	0.1	0.4	0.5	31	0.02	0.050	11	
ZR597	Soil			0.4	3.0	12.2	14	<0.1	2.0	0.9	35	1.12	1.0	118.9	4.5	3	<0.1	0.2	0.5	24	<0.01	0.013	23	
ZR598	Soil			0.5	6.6	7.8	25	<0.1	6.5	2.7	158	1.72	3.8	101.4	4.8	2	0.1	0.3	0.4	21	0.01	0.029	21	
ZR599	Soil			0.5	4.5	9.3	23	<0.1	3.5	1.6	84	1.20	2.3	65.7	3.0	3	0.1	0.3	0.5	31	0.01	0.029	18	
ZR600	Soil			0.4	4.0	8.2	22	<0.1	4.9	1.7	59	1.80	2.7	33.4	5.9	3	<0.1	0.3	0.4	25	<0.01	0.025	19	
ZR601	Soil			0.9	9.0	8.6	14	0.2	3.1	1.5	499	1.68	3.5	<0.5	1.2	4	0.2	0.3	0.3	24	0.03	0.139	3	
ZR602	Soil			1.3	15.0	15.5	39	0.1	5.9	2.7	372	3.49	8.6	1.8	2.7	6	0.3	0.9	0.5	52	0.03	0.101	6	
ZR603	Soil			1.0	10.1	12.9	19	0.1	4.2	1.9	106	2.34	6.6	0.7	2.4	4	0.2	0.5	0.5	44	0.02	0.087	5	
ZR604	Soil			0.6	5.2	7.1	21	<0.1	4.9	1.8	104	2.01	3.1	72.0	4.1	3	<0.1	0.2	0.4	29	<0.01	0.036	19	
ZR605	Soil			1.3	11.4	9.8	24	0.1	4.6	1.9	158	2.25	3.6	2.4	2.8	3	<0.1	0.2	0.3	33	0.02	0.108	5	
ZR606	Soil			0.7	4.9	7.4	31	<0.1	6.7	2.2	155	1.97	2.5	83.3	3.0	3	0.2	0.3	0.3	24	0.01	0.038	24	

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.





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Project: None Given  
 Report Date: November 18, 2011

Page: 2 of 7 Part 2

CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR577	Soil			10	0.16	69	0.114	2	3.32	0.008	0.06	0.3	0.11	2.0	0.1	0.09	11	0.9	<0.2
ZR578	Soil			9	0.17	56	0.079	2	2.99	0.006	0.06	0.2	0.10	1.6	0.1	0.08	8	0.7	<0.2
ZR579	Soil			7	0.19	51	0.049	2	1.54	0.004	0.06	0.2	0.04	1.1	0.1	0.06	5	0.6	<0.2
ZR580	Soil			10	0.21	52	0.073	2	2.39	0.006	0.04	0.2	0.05	1.7	<0.1	<0.05	7	<0.5	<0.2
ZR581	Soil			7	0.07	27	0.095	1	4.45	0.009	0.03	0.3	0.13	2.4	<0.1	0.05	8	0.7	<0.2
ZR582	Soil			9	0.13	48	0.125	2	4.01	0.011	0.04	0.3	0.10	2.2	<0.1	<0.05	10	0.5	<0.2
ZR583	Soil			8	0.09	46	0.078	2	2.31	0.011	0.04	0.1	0.04	1.4	0.2	<0.05	10	<0.5	<0.2
ZR584	Soil			9	0.11	40	0.113	1	3.02	0.011	0.04	0.2	0.16	1.7	<0.1	<0.05	11	<0.5	<0.2
ZR585	Soil			6	0.07	53	0.063	1	0.73	0.007	0.05	0.1	0.04	0.8	<0.1	<0.05	8	<0.5	<0.2
ZR586	Soil			6	0.09	36	0.087	2	1.13	0.009	0.04	0.1	0.04	1.0	0.1	<0.05	11	<0.5	<0.2
ZR587	Soil			7	0.10	43	0.097	1	1.28	0.009	0.04	0.2	0.07	1.2	<0.1	<0.05	11	<0.5	<0.2
ZR588	Soil			9	0.19	53	0.045	<1	1.68	0.004	0.04	0.3	0.09	1.2	<0.1	<0.05	6	<0.5	<0.2
ZR589	Soil			8	0.19	40	0.062	1	1.07	0.007	0.05	0.1	0.03	1.1	0.1	<0.05	7	<0.5	<0.2
ZR590	Soil			9	0.17	38	0.102	2	3.48	0.012	0.05	0.2	0.10	2.0	0.1	<0.05	8	<0.5	<0.2
ZR591	Soil			10	0.18	39	0.108	2	3.08	0.009	0.04	0.2	0.11	1.9	<0.1	<0.05	10	0.9	<0.2
ZR592	Soil			7	0.07	35	0.146	2	3.50	0.014	0.03	0.2	0.09	2.2	<0.1	<0.05	11	<0.5	<0.2
ZR593	Soil			6	0.08	52	0.107	1	2.04	0.014	0.04	<0.1	0.09	1.4	<0.1	<0.05	10	<0.5	<0.2
ZR594	Soil			5	0.06	34	0.134	1	1.01	0.013	0.03	<0.1	0.03	0.9	<0.1	<0.05	14	<0.5	<0.2
ZR595	Soil			8	0.09	50	0.151	1	2.64	0.014	0.04	0.1	0.09	1.5	<0.1	<0.05	15	<0.5	<0.2
ZR596	Soil			9	0.10	37	0.079	1	2.27	0.008	0.04	0.1	0.10	1.4	<0.1	<0.05	9	<0.5	<0.2
ZR597	Soil			6	0.09	23	0.060	<1	1.00	0.005	0.03	0.1	0.03	0.8	<0.1	<0.05	9	<0.5	<0.2
ZR598	Soil			7	0.20	23	0.052	<1	0.70	0.004	0.03	0.2	0.02	0.7	<0.1	<0.05	6	<0.5	<0.2
ZR599	Soil			6	0.09	26	0.060	<1	0.66	0.004	0.04	0.1	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
ZR600	Soil			8	0.14	17	0.047	<1	0.88	0.002	0.02	0.2	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
ZR601	Soil			7	0.05	33	0.099	1	3.71	0.011	0.02	0.2	0.13	1.5	<0.1	0.06	10	0.6	<0.2
ZR602	Soil			13	0.15	51	0.123	1	2.27	0.008	0.05	0.2	0.14	1.5	0.1	<0.05	14	<0.5	<0.2
ZR603	Soil			8	0.09	25	0.146	<1	1.73	0.010	0.04	0.3	0.10	1.2	<0.1	<0.05	13	<0.5	<0.2
ZR604	Soil			7	0.10	32	0.031	<1	0.77	0.002	0.03	0.2	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
ZR605	Soil			8	0.09	31	0.129	2	4.68	0.009	0.03	0.3	0.09	2.3	<0.1	<0.05	12	0.7	<0.2
ZR606	Soil			8	0.21	47	0.045	<1	0.87	0.003	0.05	0.2	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2

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Project: None Given  
 Report Date: November 18, 2011

Page: 3 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005875.1

Method Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
ZR607	Soil		0.5	8.1	16.9	61	<0.1	9.8	7.1	2400	1.96	3.8	42.7	1.2	5	0.3	0.5	0.3	21	0.04	0.073	19
ZR608	Soil		0.5	9.8	11.3	44	<0.1	7.1	7.0	893	1.80	2.3	37.1	2.1	4	0.2	0.4	0.4	20	0.03	0.073	25
ZR609	Soil		0.4	4.9	7.8	23	<0.1	5.8	2.7	104	1.79	3.1	52.1	4.6	2	0.1	0.2	0.3	15	0.01	0.063	29
ZR610	Soil		0.9	12.6	14.3	69	0.1	7.6	6.4	1595	2.23	2.8	9.3	0.5	7	0.2	0.3	0.5	28	0.06	0.182	9
ZR611	Soil		0.5	11.3	12.3	69	0.2	10.7	9.0	2429	1.78	2.5	1.8	0.4	15	0.2	0.3	0.5	16	0.17	0.128	17
ZR612	Soil		1.0	13.3	17.3	63	0.2	11.0	9.5	3055	2.69	4.2	4.4	0.6	9	0.4	0.5	0.5	35	0.08	0.097	15
ZR613	Soil		0.7	11.7	17.4	61	0.2	9.8	12.3	2283	1.80	5.2	52.3	0.3	7	0.2	0.4	0.4	33	0.08	0.117	12
ZR614	Soil		0.8	15.2	12.5	52	0.2	11.6	12.7	958	2.05	3.9	4.9	0.4	6	0.3	0.2	0.3	26	0.06	0.083	15
ZR615	Soil		0.6	9.2	12.1	52	0.1	7.9	6.2	979	2.10	3.0	7.1	1.2	5	0.2	0.3	0.4	33	0.05	0.062	14
ZR616	Soil		1.0	10.8	13.0	71	0.1	10.6	8.8	2093	2.59	4.6	5.1	0.5	5	0.2	0.3	0.4	35	0.06	0.111	12
ZR617	Soil		1.9	8.1	14.7	46	<0.1	7.1	4.4	561	2.48	4.1	4.0	1.7	4	0.2	0.3	0.4	42	0.04	0.047	10
ZR618	Soil		1.0	8.0	14.2	54	0.1	7.6	9.6	1866	2.30	3.9	4.2	1.2	5	<0.1	0.3	0.5	40	0.04	0.059	14
ZR619	Soil		1.0	12.0	36.9	64	0.2	9.7	16.4	5161	1.71	8.1	7.6	0.2	8	0.9	0.3	0.5	31	0.09	0.120	12
ZR620	Soil		1.1	13.1	12.8	56	0.1	12.3	9.1	855	2.12	5.9	4.1	0.5	4	0.4	0.4	0.4	35	0.03	0.077	16
ZR621	Soil		1.7	6.5	30.8	35	0.2	5.9	2.6	62	0.89	2.1	7.9	0.3	9	<0.1	0.2	0.4	23	0.11	0.053	15
ZR622	Soil		1.7	14.7	45.2	56	0.3	9.0	9.2	1631	1.46	1.9	5.1	0.8	7	0.4	0.2	0.4	26	0.09	0.051	15
ZR623	Soil		1.0	12.3	48.0	59	0.2	7.5	10.5	1608	2.34	3.1	37.3	0.9	3	0.2	0.4	0.7	20	0.03	0.063	16
ZR624	Soil		1.0	11.9	24.2	58	0.3	7.9	5.0	786	2.38	4.1	15.2	3.7	4	0.2	0.4	0.6	36	0.05	0.059	11
ZR625	Soil		1.2	12.4	30.5	51	0.3	8.3	5.9	803	2.71	5.2	26.5	1.6	4	0.2	0.4	0.5	41	0.02	0.062	14
ZR626	Soil		0.7	7.6	15.5	20	0.3	4.3	2.1	48	1.43	2.2	1.3	1.5	3	0.2	0.2	0.5	39	0.02	0.037	8
ZR627	Soil		0.9	15.5	22.3	39	0.4	8.8	3.7	121	1.33	3.7	8.7	0.6	4	0.3	0.3	0.3	25	0.04	0.078	9
ZR628	Soil		1.4	11.0	19.5	48	0.2	9.6	4.0	155	2.79	7.2	67.3	3.2	5	0.1	0.5	0.6	57	0.03	0.055	14
ZR629	Soil		1.3	13.6	16.3	47	0.3	10.1	5.9	545	2.50	5.1	68.4	1.3	4	0.1	0.2	0.4	29	0.03	0.083	14
ZR630	Soil		1.1	11.8	38.4	48	0.4	6.9	12.3	2084	1.82	4.6	92.1	0.7	3	0.6	0.3	0.4	24	0.03	0.090	14
ZR631	Soil		1.2	11.5	14.2	46	0.1	9.0	4.6	272	2.73	4.8	12.3	5.0	4	<0.1	0.2	0.5	42	0.04	0.076	12
ZR632	Soil		1.0	10.5	12.7	29	0.1	6.2	2.8	83	2.29	3.4	6.1	2.1	3	0.2	0.2	0.5	42	0.02	0.036	13
ZR633	Soil		0.9	9.0	15.5	21	0.2	4.8	1.8	58	1.30	3.3	2.6	1.4	3	<0.1	0.2	0.4	26	0.02	0.039	11
ZR635	Soil		0.7	5.4	12.4	12	0.1	3.3	1.2	29	1.12	2.1	2.4	1.8	3	<0.1	0.1	0.3	24	0.02	0.028	7
ZR636	Soil		0.9	7.0	8.2	35	<0.1	4.1	3.0	425	1.56	3.5	3.6	3.9	3	0.1	0.2	0.3	30	0.02	0.038	9
ZR637	Soil		1.0	9.3	45.4	29	<0.1	6.5	2.7	69	1.30	4.0	6.3	1.9	4	0.2	0.3	0.6	31	0.02	0.043	14

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Project: None Given  
Report Date: November 18, 2011

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## CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR607	Soil			6	0.15	99	0.041	1	1.09	0.005	0.06	0.3	0.04	0.8	0.1	0.06	5	<0.5	<0.2
ZR608	Soil			7	0.15	73	0.044	2	1.25	0.005	0.07	0.2	0.03	1.0	0.1	0.06	5	0.5	<0.2
ZR609	Soil			5	0.12	34	0.028	<1	0.71	0.003	0.05	0.2	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
ZR610	Soil			8	0.15	111	0.065	2	1.65	0.009	0.08	0.1	0.05	0.7	0.1	0.10	10	<0.5	<0.2
ZR611	Soil			8	0.26	215	0.027	2	0.99	0.006	0.08	0.1	0.03	0.5	<0.1	0.10	5	<0.5	<0.2
ZR612	Soil			11	0.30	102	0.070	3	1.63	0.009	0.09	0.2	0.07	1.0	0.1	0.10	9	<0.5	<0.2
ZR613	Soil			11	0.22	140	0.036	4	1.35	0.007	0.10	0.1	0.07	0.8	0.1	0.15	7	<0.5	<0.2
ZR614	Soil			10	0.25	70	0.023	2	1.72	0.004	0.07	0.1	0.06	0.7	<0.1	0.10	5	0.6	<0.2
ZR615	Soil			9	0.17	84	0.063	1	0.98	0.003	0.08	0.1	0.06	1.0	<0.1	<0.05	7	<0.5	<0.2
ZR616	Soil			12	0.27	92	0.045	2	1.45	0.005	0.08	<0.1	0.08	0.7	0.1	0.09	9	<0.5	<0.2
ZR617	Soil			9	0.17	72	0.084	2	1.15	0.004	0.06	0.2	0.05	1.1	<0.1	0.05	10	<0.5	<0.2
ZR618	Soil			10	0.16	99	0.067	2	1.10	0.004	0.08	0.1	0.05	1.1	0.1	0.06	9	<0.5	<0.2
ZR619	Soil			10	0.22	131	0.036	4	1.51	0.005	0.07	0.1	0.08	0.9	0.3	0.17	7	0.7	<0.2
ZR620	Soil			13	0.32	53	0.043	3	1.86	0.003	0.06	0.3	0.09	1.0	<0.1	0.14	8	<0.5	0.3
ZR621	Soil			9	0.23	238	0.049	2	1.19	0.008	0.06	0.2	0.04	0.7	0.1	0.07	8	0.9	<0.2
ZR622	Soil			9	0.23	314	0.039	4	1.70	0.007	0.07	0.1	0.06	1.0	<0.1	0.05	6	<0.5	<0.2
ZR623	Soil			7	0.20	131	0.015	1	1.24	0.003	0.06	0.2	0.08	0.6	<0.1	<0.05	5	<0.5	<0.2
ZR624	Soil			9	0.12	109	0.077	1	1.94	0.006	0.06	0.2	0.13	1.3	0.1	<0.05	10	0.5	<0.2
ZR625	Soil			10	0.15	74	0.064	1	1.57	0.004	0.07	0.2	0.09	1.1	0.1	<0.05	11	<0.5	<0.2
ZR626	Soil			6	0.05	49	0.099	<1	1.05	0.006	0.03	0.1	0.04	0.9	<0.1	<0.05	11	<0.5	<0.2
ZR627	Soil			9	0.17	83	0.046	2	2.42	0.006	0.08	0.2	0.16	1.1	0.1	0.08	7	1.0	<0.2
ZR628	Soil			13	0.20	58	0.115	2	1.47	0.005	0.06	0.4	0.07	1.5	<0.1	<0.05	12	<0.5	<0.2
ZR629	Soil			12	0.23	59	0.041	1	1.98	0.003	0.06	0.2	0.12	1.1	<0.1	<0.05	7	<0.5	<0.2
ZR630	Soil			8	0.14	88	0.023	<1	1.69	0.005	0.08	0.2	0.11	0.8	0.1	<0.05	5	<0.5	<0.2
ZR631	Soil			11	0.16	126	0.073	2	2.32	0.004	0.07	0.3	0.09	1.7	0.1	<0.05	11	<0.5	<0.2
ZR632	Soil			10	0.13	53	0.057	1	1.68	0.004	0.06	0.2	0.07	1.5	0.1	<0.05	10	<0.5	<0.2
ZR633	Soil			7	0.10	56	0.087	2	1.54	0.007	0.04	0.2	0.11	1.4	<0.1	<0.05	10	<0.5	<0.2
ZR635	Soil			5	0.04	40	0.072	<1	2.27	0.009	0.02	<0.1	0.12	1.2	<0.1	<0.05	11	<0.5	<0.2
ZR636	Soil			6	0.06	48	0.076	<1	1.96	0.005	0.02	0.2	0.09	1.5	<0.1	<0.05	8	<0.5	<0.2
ZR637	Soil			9	0.15	60	0.077	<1	1.14	0.004	0.06	0.2	0.07	1.2	<0.1	<0.05	11	<0.5	<0.2



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Project: None Given  
 Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR638	Soil			1.0	13.1	17.8	52	0.2	10.3	10.4	1107	2.45	6.5	3.5	0.5	4	0.2	0.4	0.4	30	0.03	0.166	10	
ZR639	Soil			1.2	22.7	52.6	63	0.8	9.2	14.1	2471	1.88	5.7	38.3	0.8	4	0.4	0.5	0.4	27	0.03	0.109	11	
ZR640	Soil			1.1	12.1	30.5	43	0.2	7.8	5.0	215	3.00	4.6	1.6	3.0	3	<0.1	0.4	0.5	44	0.03	0.051	8	
ZR641	Soil			1.4	10.9	30.1	36	0.1	6.8	3.5	103	3.01	5.7	39.2	7.4	3	0.1	0.3	0.7	31	0.02	0.037	9	
ZR642	Soil			1.3	5.3	14.9	18	<0.1	3.0	2.4	125	1.38	3.1	26.3	3.3	5	0.2	0.2	0.4	25	0.04	0.023	17	
ZR643	Soil			0.7	18.1	18.2	22	0.2	5.7	2.1	49	0.90	2.3	10.8	0.3	6	0.3	0.1	0.4	17	0.06	0.049	13	
ZR644	Soil			1.3	12.3	20.0	40	0.3	6.1	7.5	1307	1.05	2.8	4.4	0.8	8	0.4	0.2	0.3	17	0.10	0.092	16	
ZR645	Soil			1.2	9.5	20.5	29	0.1	4.5	3.5	179	1.44	3.3	28.6	2.3	3	0.3	0.3	0.4	23	0.03	0.033	10	
ZR646	Soil			0.8	9.2	16.9	38	0.2	5.4	3.0	153	1.74	3.5	36.5	1.6	4	0.2	0.3	0.6	38	0.02	0.042	16	
ZR647	Soil			1.2	11.2	17.0	46	0.2	9.4	5.5	447	2.60	5.0	5.4	1.3	4	0.1	0.3	0.5	32	0.03	0.085	16	
ZR648	Soil			1.1	10.3	21.4	34	0.1	6.3	3.0	172	2.15	4.5	6.8	1.7	4	<0.1	0.3	0.5	34	0.03	0.047	12	
ZR649	Soil			1.1	9.2	16.5	25	0.3	4.4	2.1	149	2.39	5.8	1.8	3.3	2	0.1	0.4	0.4	35	0.02	0.057	6	
ZR650	Soil			1.2	30.7	29.9	33	0.6	7.4	3.1	127	2.28	3.2	13.4	1.2	3	0.2	0.3	0.5	40	0.02	0.062	8	
ZR651	Soil			1.1	8.3	16.5	56	0.2	6.8	3.6	476	2.34	3.2	1.7	2.8	4	0.1	0.3	0.5	45	0.03	0.031	7	
ZR652	Soil			0.6	2.8	8.9	16	<0.1	1.8	0.8	41	0.41	1.3	1.8	1.4	5	<0.1	0.1	0.2	18	0.06	0.011	11	
ZR653	Soil			2.8	7.3	43.8	47	0.2	6.1	5.3	502	1.71	3.4	5.2	1.0	18	0.4	0.2	0.4	28	0.17	0.043	12	
ZR654	Soil			0.7	5.3	10.0	23	<0.1	4.4	1.6	61	0.93	2.8	2.0	2.6	3	0.1	0.3	0.5	35	0.02	0.026	25	
ZR655	Soil			1.1	10.2	20.7	38	0.1	7.3	3.6	243	2.48	4.1	6.6	3.8	3	<0.1	0.3	0.5	41	0.02	0.043	14	
ZR656	Soil			1.1	10.9	14.9	40	0.2	8.0	10.8	1291	1.87	2.7	5.1	0.5	5	0.3	0.2	0.4	28	0.05	0.073	14	
ZR657	Soil			0.9	10.9	32.0	37	0.2	6.9	3.6	636	2.11	3.5	10.2	1.3	4	0.2	0.4	0.9	33	0.02	0.057	17	
ZR658	Soil			0.4	6.5	11.8	26	0.1	4.3	2.2	124	0.83	2.4	2.9	0.7	3	0.3	0.3	0.3	26	0.02	0.043	25	
ZR659	Soil			1.1	14.2	17.6	60	<0.1	10.8	9.4	1538	2.19	3.6	4.0	0.5	4	0.2	0.3	0.4	33	0.03	0.095	14	
ZR660	Soil			0.3	6.5	11.9	31	0.2	4.1	3.0	301	0.74	1.6	4.4	0.4	6	0.2	0.2	0.4	14	0.09	0.049	19	
ZR661	Soil			0.3	10.0	17.1	27	0.1	3.3	2.9	1078	0.81	1.6	11.4	0.5	5	0.2	0.2	0.3	14	0.07	0.043	22	
ZR662	Soil			1.1	13.1	37.1	47	0.2	10.0	5.7	408	1.58	6.5	4.9	0.3	4	0.1	0.5	0.6	29	0.03	0.116	12	
ZR663	Soil			1.1	15.9	17.1	52	0.2	9.3	8.8	1650	2.07	4.0	2.8	0.2	4	0.2	0.4	0.4	31	0.03	0.156	11	
ZR664	Soil			1.1	11.7	15.6	44	0.2	8.5	5.4	482	2.16	3.6	15.3	0.6	3	<0.1	0.3	0.4	29	0.02	0.131	11	
ZR665	Soil			1.4	21.6	30.1	34	0.3	7.5	8.0	1712	1.34	3.9	2.5	0.8	4	0.2	0.2	0.3	20	0.04	0.253	11	
ZR666	Soil			1.8	8.3	11.3	39	0.1	5.4	4.9	900	1.33	1.6	1.0	1.2	3	0.2	0.2	0.4	20	0.02	0.100	17	
ZR667	Soil			2.1	27.3	17.0	35	0.5	6.5	3.2	409	0.76	1.5	4.6	0.2	9	0.2	0.2	0.3	15	0.13	0.110	12	

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.



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Project: None Given  
 Report Date: November 18, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR638	Soil			13	0.27	53	0.024	2	1.92	0.003	0.07	0.1	0.10	0.7	<0.1	<0.05	7	<0.5	<0.2
ZR639	Soil			9	0.18	80	0.040	2	2.06	0.005	0.08	0.2	0.18	0.9	0.1	<0.05	7	0.6	<0.2
ZR640	Soil			10	0.14	66	0.104	1	2.10	0.006	0.05	0.2	0.13	1.4	<0.1	<0.05	14	<0.5	<0.2
ZR641	Soil			11	0.15	50	0.073	<1	2.97	0.004	0.04	0.3	0.14	1.7	<0.1	<0.05	8	0.8	<0.2
ZR642	Soil			5	0.09	122	0.033	<1	0.81	0.003	0.04	0.2	0.07	0.6	0.1	<0.05	6	<0.5	<0.2
ZR643	Soil			5	0.13	142	0.036	<1	1.94	0.006	0.04	0.1	0.11	1.0	0.1	<0.05	7	0.5	<0.2
ZR644	Soil			7	0.15	135	0.036	3	2.96	0.010	0.04	0.2	0.11	1.7	0.1	<0.05	5	<0.5	<0.2
ZR645	Soil			6	0.09	80	0.051	1	1.60	0.006	0.03	0.2	0.14	1.1	<0.1	<0.05	7	<0.5	<0.2
ZR646	Soil			8	0.09	56	0.056	<1	1.01	0.004	0.07	0.2	0.04	1.0	<0.1	<0.05	8	<0.5	<0.2
ZR647	Soil			12	0.25	61	0.040	1	1.32	0.003	0.08	0.2	0.10	0.9	<0.1	<0.05	7	0.7	<0.2
ZR648	Soil			9	0.15	55	0.077	2	1.65	0.006	0.07	0.2	0.10	1.3	<0.1	<0.05	10	0.6	<0.2
ZR649	Soil			7	0.07	48	0.089	<1	3.07	0.006	0.03	0.3	0.16	1.5	<0.1	<0.05	11	<0.5	<0.2
ZR650	Soil			11	0.17	58	0.089	2	2.50	0.007	0.05	0.2	0.15	1.3	<0.1	0.08	11	0.7	<0.2
ZR651	Soil			9	0.10	68	0.114	2	1.61	0.006	0.03	0.2	0.08	1.2	<0.1	<0.05	12	<0.5	<0.2
ZR652	Soil			2	0.03	61	0.016	3	0.27	0.003	0.02	0.2	0.02	0.6	<0.1	0.05	3	<0.5	<0.2
ZR653	Soil			7	0.16	285	0.079	3	1.66	0.009	0.06	0.3	0.09	1.3	0.1	0.20	10	<0.5	<0.2
ZR654	Soil			6	0.06	43	0.053	2	0.71	0.003	0.03	0.2	0.03	1.2	0.1	0.14	7	<0.5	<0.2
ZR655	Soil			12	0.21	50	0.064	2	1.57	0.004	0.06	0.2	0.07	1.5	<0.1	0.08	9	<0.5	<0.2
ZR656	Soil			8	0.19	88	0.033	2	1.28	0.004	0.07	0.1	0.06	0.7	0.1	0.16	7	<0.5	<0.2
ZR657	Soil			8	0.11	102	0.040	1	1.18	0.004	0.06	0.2	0.07	1.1	<0.1	0.11	9	<0.5	<0.2
ZR658	Soil			6	0.05	57	0.031	2	0.61	0.004	0.05	0.2	0.05	1.0	0.1	0.17	5	<0.5	<0.2
ZR659	Soil			11	0.22	66	0.029	2	1.94	0.004	0.07	<0.1	0.07	0.7	0.1	0.11	8	<0.5	<0.2
ZR660	Soil			6	0.07	247	0.023	4	0.62	0.004	0.08	0.1	0.05	0.6	0.1	0.16	3	<0.5	<0.2
ZR661	Soil			5	0.05	118	0.015	<1	0.61	0.005	0.06	<0.1	0.05	0.3	<0.1	0.07	4	<0.5	<0.2
ZR662	Soil			12	0.21	59	0.029	4	1.48	0.005	0.08	0.2	0.11	0.5	0.1	0.20	6	0.7	<0.2
ZR663	Soil			11	0.21	59	0.020	2	1.94	0.004	0.08	0.1	0.09	0.5	0.1	0.11	7	<0.5	<0.2
ZR664	Soil			10	0.20	55	0.036	2	1.76	0.003	0.07	0.2	0.09	0.8	<0.1	0.07	7	<0.5	<0.2
ZR665	Soil			9	0.13	80	0.041	2	3.30	0.006	0.04	0.1	0.16	1.0	<0.1	0.09	8	1.4	<0.2
ZR666	Soil			6	0.15	81	0.048	<1	0.96	0.004	0.06	0.1	0.06	0.8	<0.1	<0.05	7	<0.5	<0.2
ZR667	Soil			8	0.15	237	0.012	2	1.85	0.009	0.04	0.2	0.05	0.4	<0.1	0.12	7	1.0	<0.2



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 Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
ZR668	Soil	1.1	9.2	10.7	36	0.1	6.7	5.2	312	1.33	2.5	3.1	2.3	3	0.2	0.2	0.3	21	0.02	0.052	10
ZR669	Soil	1.6	12.9	15.6	57	0.1	8.3	6.6	1048	2.35	6.1	5.3	1.3	5	0.2	0.3	0.4	34	0.04	0.189	11
ZR670	Soil	1.3	10.8	14.2	42	<0.1	8.6	4.9	679	2.06	3.7	17.1	1.0	4	0.2	0.2	0.3	32	0.03	0.083	14
ZR671	Soil	1.1	9.7	12.2	33	0.1	5.9	3.0	867	2.04	2.8	11.5	1.2	4	0.2	0.3	0.4	36	0.02	0.052	10
ZR672	Soil	1.2	15.0	17.3	40	<0.1	8.8	4.1	222	2.30	5.9	15.0	0.8	4	0.1	0.4	0.5	38	0.03	0.069	14
ZR673	Soil	1.4	13.6	16.2	40	0.1	8.3	3.9	503	2.35	4.7	6.5	0.3	4	0.2	0.3	0.4	37	0.03	0.111	12
ZR674	Soil	1.2	16.1	22.7	45	0.2	10.3	14.3	2071	1.75	6.3	15.5	0.3	4	0.4	0.4	0.5	35	0.03	0.143	13
ZR675	Soil	0.9	9.9	10.4	35	<0.1	10.5	4.3	170	2.01	3.8	10.2	1.9	3	<0.1	0.3	0.3	27	0.02	0.035	28
ZR676	Soil	1.2	12.5	17.8	39	<0.1	8.7	3.8	204	2.45	5.3	8.1	1.4	4	<0.1	0.4	0.5	45	0.02	0.060	16
ZR677	Soil	0.8	7.3	12.4	26	<0.1	5.5	2.5	177	1.39	2.9	1.5	3.1	5	0.2	0.2	0.3	31	0.05	0.071	10
ZR678	Soil	1.0	10.4	14.4	34	<0.1	8.0	3.2	114	2.33	5.4	3.8	3.7	4	<0.1	0.4	0.6	46	0.02	0.038	17
ZR679	Soil	0.8	9.2	17.7	30	0.1	5.7	2.5	129	1.31	3.5	5.5	1.5	4	0.1	0.3	0.5	36	0.02	0.052	15
ZR680	Soil	0.7	9.0	11.9	47	<0.1	7.9	6.0	1766	1.78	2.3	17.7	1.0	4	0.2	0.2	0.3	27	0.04	0.061	17
ZR681	Soil	0.6	8.7	13.6	53	0.1	7.4	7.0	2551	1.64	2.0	63.3	0.9	5	0.2	0.2	0.3	20	0.05	0.059	19
ZR682	Soil	0.7	16.9	40.1	148	0.4	11.0	18.4	5724	1.03	5.3	9.8	0.5	12	1.5	0.3	0.4	17	0.17	0.211	11
ZR683	Soil	0.5	6.7	10.4	25	<0.1	3.9	2.1	309	1.14	1.9	326.6	3.0	4	0.2	0.2	0.4	30	0.04	0.030	19
ZR684	Soil	1.2	8.6	12.9	30	0.1	3.0	3.0	1402	1.82	1.7	3.1	1.1	3	0.4	0.3	0.3	26	0.03	0.059	11
ZR685	Soil	0.5	5.8	13.0	26	<0.1	4.0	1.9	145	0.78	2.7	36.9	0.7	4	0.2	0.3	0.4	23	0.03	0.040	22
ZR686	Soil	1.0	3.7	7.0	14	<0.1	2.9	1.8	96	0.93	1.2	89.9	4.8	5	<0.1	0.2	0.5	19	0.04	0.016	31
ZR687	Soil	1.4	10.8	20.8	44	0.1	7.5	4.1	174	2.93	6.6	26.8	3.1	7	0.2	0.5	0.9	58	0.06	0.049	16
ZR688	Soil	1.0	13.3	22.1	26	0.2	6.8	3.0	107	1.79	4.2	5.1	3.1	9	0.3	0.2	0.5	29	0.07	0.082	15
ZR689	Soil	0.5	12.0	17.7	65	0.2	12.1	9.9	1664	1.92	2.7	97.0	7.1	4	0.1	0.2	0.5	25	0.03	0.096	23
ZR690	Soil	0.6	11.6	16.8	49	0.3	11.5	14.8	1319	2.06	3.3	61.7	7.2	5	0.1	0.3	0.5	26	0.04	0.048	17
ZR691	Soil	1.0	10.2	11.9	40	<0.1	8.9	3.6	186	2.48	5.1	10.6	4.0	4	0.2	0.4	0.4	36	0.02	0.049	14
ZR692	Soil	0.9	11.9	13.0	44	<0.1	13.3	5.4	197	2.35	5.1	14.6	4.9	4	0.1	0.4	0.5	38	0.03	0.035	22
ZR693	Soil	1.0	11.2	17.7	35	<0.1	7.0	3.9	134	2.66	4.4	<0.5	6.3	4	0.1	0.4	0.5	47	0.03	0.036	13
ZR694	Soil	1.1	9.1	17.1	49	<0.1	12.8	11.3	169	2.64	5.2	<0.5	5.1	3	0.3	0.3	0.6	24	0.02	0.041	14
ZR695	Soil	1.5	13.2	18.8	44	0.1	10.0	4.2	154	2.97	6.9	<0.5	5.2	4	0.2	0.4	0.5	43	0.02	0.050	13
ZR696	Soil	0.6	4.9	16.6	15	<0.1	2.7	1.1	59	0.68	1.7	0.7	1.2	3	0.2	0.3	0.6	30	0.02	0.016	15
ZR697	Soil	0.7	6.9	14.5	29	0.1	6.1	3.8	142	1.94	3.0	20.2	1.1	3	0.2	0.2	0.4	21	0.02	0.055	25

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Project: None Given  
 Report Date: November 18, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR668	Soil			7	0.15	45	0.062	1	2.52	0.006	0.03	0.2	0.10	1.2	<0.1	<0.05	7	0.7	<0.2
ZR669	Soil			11	0.20	67	0.058	2	2.38	0.005	0.06	0.2	0.16	1.2	0.1	<0.05	10	<0.5	<0.2
ZR670	Soil			10	0.26	46	0.055	2	1.28	0.004	0.06	0.2	0.08	0.8	<0.1	<0.05	8	<0.5	<0.2
ZR671	Soil			7	0.13	63	0.088	2	1.37	0.005	0.04	0.2	0.09	0.9	0.1	<0.05	11	<0.5	<0.2
ZR672	Soil			13	0.26	43	0.053	2	1.91	0.005	0.08	0.2	0.10	1.3	0.1	<0.05	9	0.6	<0.2
ZR673	Soil			13	0.23	43	0.039	2	1.72	0.005	0.07	0.1	0.10	0.7	0.1	0.08	9	<0.5	<0.2
ZR674	Soil			12	0.24	58	0.041	2	1.66	0.006	0.08	0.2	0.10	0.7	0.1	0.16	7	<0.5	<0.2
ZR675	Soil			11	0.29	46	0.037	2	1.29	0.003	0.06	0.2	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
ZR676	Soil			13	0.22	41	0.078	1	1.25	0.005	0.07	0.2	0.07	1.3	0.1	0.05	11	<0.5	<0.2
ZR677	Soil			8	0.19	55	0.088	1	2.46	0.008	0.03	0.2	0.08	1.4	0.1	<0.05	10	<0.5	<0.2
ZR678	Soil			13	0.28	43	0.073	2	1.46	0.005	0.07	0.2	0.06	1.7	0.1	<0.05	11	<0.5	<0.2
ZR679	Soil			8	0.18	42	0.067	1	0.98	0.005	0.06	0.1	0.07	1.0	0.1	<0.05	8	<0.5	<0.2
ZR680	Soil			9	0.22	84	0.040	1	1.25	0.005	0.06	0.1	0.07	0.7	0.1	<0.05	7	<0.5	<0.2
ZR681	Soil			7	0.20	180	0.030	1	1.01	0.005	0.07	<0.1	0.06	0.6	0.1	<0.05	6	<0.5	<0.2
ZR682	Soil			8	0.18	280	0.014	2	2.79	0.008	0.08	<0.1	0.16	0.5	0.2	0.14	5	<0.5	<0.2
ZR683	Soil			6	0.08	59	0.068	<1	0.61	0.005	0.04	0.2	0.05	0.8	0.1	<0.05	7	<0.5	<0.2
ZR684	Soil			5	0.08	74	0.055	<1	1.48	0.007	0.03	0.1	0.18	0.7	<0.1	<0.05	10	<0.5	<0.2
ZR685	Soil			5	0.06	38	0.037	<1	0.45	0.005	0.07	0.1	0.04	0.5	0.1	<0.05	5	<0.5	<0.2
ZR686	Soil			4	0.05	124	0.023	<1	0.59	0.005	0.04	0.1	0.02	0.4	<0.1	0.07	4	<0.5	<0.2
ZR687	Soil			12	0.16	90	0.098	2	1.35	0.008	0.08	0.2	0.07	1.3	0.1	0.11	13	<0.5	<0.2
ZR688	Soil			12	0.16	224	0.085	1	3.53	0.013	0.06	0.2	0.10	2.1	0.1	<0.05	12	<0.5	<0.2
ZR689	Soil			8	0.18	132	0.056	1	1.92	0.006	0.07	0.2	0.03	1.6	0.1	<0.05	5	<0.5	<0.2
ZR690	Soil			8	0.14	115	0.066	2	2.66	0.009	0.06	0.2	0.12	2.0	0.1	<0.05	6	0.5	<0.2
ZR691	Soil			12	0.26	44	0.059	<1	1.86	0.010	0.04	0.2	0.14	1.2	<0.1	<0.05	7	0.6	<0.2
ZR692	Soil			13	0.42	45	0.058	1	1.41	0.007	0.07	0.2	0.04	1.3	0.1	<0.05	6	<0.5	<0.2
ZR693	Soil			11	0.13	61	0.122	1	2.27	0.007	0.05	0.3	0.09	1.7	<0.1	<0.05	11	<0.5	<0.2
ZR694	Soil			9	0.45	44	0.023	<1	1.87	0.005	0.06	0.2	0.07	1.0	<0.1	<0.05	6	<0.5	<0.2
ZR695	Soil			16	0.29	48	0.073	1	2.73	0.005	0.06	0.3	0.13	1.8	<0.1	<0.05	8	0.7	<0.2
ZR696	Soil			5	0.05	40	0.079	<1	0.60	0.006	0.03	<0.1	0.03	0.5	0.1	<0.05	9	<0.5	<0.2
ZR697	Soil			7	0.24	54	0.024	<1	1.02	0.005	0.07	0.1	0.05	0.5	<0.1	<0.05	5	<0.5	<0.2

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Project: None Given  
 Report Date: November 18, 2011

Page: 6 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
ZR698	Soil			1.2	15.7	22.8	50	0.2	10.7	5.1	433	2.56	4.6	33.9	0.5	5	0.2	0.5	0.6	40	0.03	0.098	15	
ZR699	Soil			0.9	9.0	14.3	35	<0.1	6.9	3.1	128	1.93	3.6	2.4	2.4	5	<0.1	0.4	0.5	46	0.03	0.041	15	
ZR700	Soil			1.2	9.2	13.0	40	<0.1	7.5	3.5	217	2.90	3.9	2.7	6.6	5	<0.1	0.5	0.5	50	0.04	0.041	11	
ZR701	Soil			1.3	16.8	17.8	46	0.2	9.8	9.5	593	1.93	3.9	<0.5	0.4	5	0.2	0.3	0.5	34	0.04	0.097	11	
ZR702	Soil			0.6	9.3	14.8	51	0.2	7.9	3.7	865	1.88	2.4	4.7	1.7	8	0.1	0.2	0.5	36	0.09	0.043	12	
ZR703	Soil			0.9	24.4	51.7	42	0.3	9.8	16.1	1364	1.76	3.4	48.0	0.3	5	0.6	0.3	0.6	23	0.03	0.118	14	
ZR704	Soil			1.3	19.8	26.2	54	0.2	10.2	9.3	2225	2.15	7.8	2.4	0.2	5	0.3	0.5	0.5	38	0.04	0.138	9	
ZR705	Soil			0.9	12.5	14.1	47	<0.1	8.9	4.2	285	2.41	5.7	9.9	1.8	5	0.2	0.7	0.6	57	0.03	0.048	15	
ZR706	Soil			1.3	11.4	15.5	43	0.2	7.3	3.4	191	2.73	4.3	8.6	4.2	5	0.2	0.3	0.4	39	0.03	0.109	10	
ZR707	Soil			1.0	14.9	35.9	44	0.4	9.4	23.5	1634	1.80	6.4	16.9	0.4	6	0.3	0.4	0.5	27	0.04	0.098	12	
ZR708	Soil			1.3	13.9	28.7	55	<0.1	11.4	8.9	1244	2.50	6.2	0.6	0.9	6	0.2	0.5	0.6	38	0.03	0.082	16	
ZR709	Soil			1.0	12.0	26.5	46	0.2	8.3	14.4	1448	2.21	7.2	1.2	1.4	5	0.2	0.5	0.8	36	0.03	0.090	19	
ZR710	Soil			0.9	11.4	25.6	68	<0.1	10.2	7.2	1687	2.15	6.8	8.2	1.1	9	0.5	0.6	0.5	34	0.07	0.065	19	
ZR711	Soil			1.0	14.2	44.3	54	0.1	11.0	8.4	2233	1.95	6.9	7.5	0.5	5	0.5	0.8	0.6	30	0.03	0.092	13	
ZR712	Soil			2.5	18.0	43.3	59	0.4	9.1	11.3	4118	1.92	4.0	3.9	0.2	15	0.5	0.4	0.4	27	0.19	0.135	14	
ZR713	Soil			2.6	17.3	43.6	58	0.4	9.3	11.2	4028	1.87	3.6	2.8	0.2	14	0.5	0.3	0.4	25	0.17	0.134	14	
ZR714	Soil			0.9	13.0	12.8	37	<0.1	8.6	4.6	746	1.94	2.9	15.8	1.7	4	<0.1	0.4	0.4	34	0.02	0.072	19	
ZR715	Soil			1.1	12.2	23.3	43	0.1	10.0	4.4	372	2.32	5.8	1.6	1.4	4	0.2	0.6	0.6	44	0.02	0.058	10	
ZR716	Soil			1.0	11.0	19.2	35	<0.1	6.6	3.9	632	1.78	4.7	6.5	1.2	4	0.3	0.5	0.5	34	0.02	0.058	15	
ZR717	Soil			0.7	13.0	13.6	55	<0.1	10.7	12.1	3334	2.69	2.6	2.5	1.0	4	0.2	0.4	0.4	31	0.02	0.097	10	
ZR718	Soil			1.0	15.6	14.6	84	0.1	12.1	10.9	2997	2.84	3.3	5.5	1.2	6	0.1	0.4	0.5	36	0.04	0.162	13	
ZR719	Soil			1.2	13.7	11.7	51	0.1	9.8	7.4	1532	2.28	3.6	6.3	3.1	4	0.1	0.3	0.3	28	0.03	0.120	9	
ZR720	Soil			0.5	4.1	6.3	25	<0.1	5.6	3.2	326	1.43	1.5	1.9	2.1	2	0.1	0.3	0.2	12	<0.01	0.046	23	
ZR721	Soil			0.5	10.3	9.7	64	<0.1	10.3	8.1	1404	1.95	1.7	2.1	3.8	3	<0.1	0.4	0.4	19	0.01	0.063	27	
ZR722	Soil			0.7	7.5	8.1	44	<0.1	8.9	5.1	450	2.07	2.5	10.7	3.0	2	0.2	0.2	0.3	19	0.02	0.073	15	
ZR723	Soil			0.6	8.3	8.8	49	<0.1	13.5	14.3	1379	2.35	2.7	8.6	1.2	3	<0.1	0.3	0.3	19	0.03	0.118	16	
ZR724	Soil			0.4	6.6	8.5	48	<0.1	9.5	5.3	399	1.77	2.3	7.0	2.1	2	0.1	0.2	0.3	15	0.01	0.049	11	
ZR725	Soil			0.8	20.2	11.7	28	0.2	4.2	3.3	279	1.32	4.7	37.1	1.7	4	0.2	0.3	0.3	31	0.02	0.065	7	
ZR726	Soil			0.7	8.5	10.8	24	0.1	7.0	3.0	76	1.28	2.9	75.2	3.1	2	0.1	0.2	0.2	15	<0.01	0.030	13	
ZR727	Soil			0.6	8.1	8.3	24	0.1	4.0	2.3	223	1.19	2.5	94.0	2.7	3	<0.1	0.2	0.3	23	0.02	0.050	14	

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Project: None Given  
 Report Date: November 18, 2011

Page: 6 of 7 Part 2

# CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ZR698	Soil			14	0.27	74	0.034	1	1.65	0.006	0.08	0.1	0.07	0.7	0.1	<0.05	9	0.7	<0.2
ZR699	Soil			10	0.16	54	0.076	<1	1.23	0.006	0.06	0.2	0.07	1.1	0.1	<0.05	10	<0.5	<0.2
ZR700	Soil			10	0.12	56	0.133	1	2.25	0.009	0.05	0.3	0.09	1.7	<0.1	<0.05	13	<0.5	<0.2
ZR701	Soil			11	0.24	60	0.039	3	2.35	0.009	0.08	0.1	0.14	0.7	0.1	0.08	8	0.9	<0.2
ZR702	Soil			8	0.13	170	0.082	1	1.18	0.008	0.06	0.2	0.07	0.8	<0.1	<0.05	9	<0.5	<0.2
ZR703	Soil			9	0.20	72	0.025	1	1.80	0.006	0.08	0.2	0.12	0.5	<0.1	<0.05	6	<0.5	<0.2
ZR704	Soil			11	0.21	70	0.053	3	1.59	0.009	0.09	0.1	0.11	0.4	0.1	<0.05	10	0.6	<0.2
ZR705	Soil			14	0.19	63	0.088	1	1.32	0.006	0.07	0.2	0.06	1.3	0.1	<0.05	11	<0.5	<0.2
ZR706	Soil			11	0.17	96	0.100	2	2.71	0.007	0.06	0.3	0.18	1.4	<0.1	<0.05	11	<0.5	<0.2
ZR707	Soil			11	0.21	82	0.040	3	2.23	0.007	0.09	0.2	0.16	0.8	0.1	0.07	7	0.7	<0.2
ZR708	Soil			13	0.28	72	0.049	2	1.63	0.006	0.09	0.1	0.10	1.0	0.1	<0.05	9	<0.5	<0.2
ZR709	Soil			10	0.12	87	0.067	<1	0.90	0.015	0.08	0.2	0.08	0.8	0.1	0.07	7	<0.5	<0.2
ZR710	Soil			12	0.29	144	0.054	2	1.34	0.007	0.08	0.1	0.09	1.0	<0.1	<0.05	8	0.6	<0.2
ZR711	Soil			11	0.24	75	0.039	2	1.41	0.007	0.10	0.1	0.10	0.8	0.1	<0.05	7	0.7	<0.2
ZR712	Soil			10	0.25	266	0.012	1	1.63	0.009	0.08	0.1	0.07	0.2	0.2	<0.05	8	0.8	<0.2
ZR713	Soil			10	0.25	257	0.012	1	1.71	0.008	0.09	0.1	0.07	0.2	0.2	<0.05	7	0.8	<0.2
ZR714	Soil			12	0.39	41	0.057	<1	1.09	0.004	0.06	0.2	0.04	0.9	0.1	<0.05	7	0.6	<0.2
ZR715	Soil			13	0.35	36	0.090	1	1.43	0.009	0.09	0.2	0.06	1.5	0.1	<0.05	10	<0.5	<0.2
ZR716	Soil			8	0.13	32	0.061	<1	0.68	0.011	0.07	0.1	0.05	0.9	0.1	<0.05	6	<0.5	<0.2
ZR717	Soil			11	0.25	77	0.045	1	1.07	0.008	0.07	0.1	0.04	1.2	0.1	<0.05	7	0.5	<0.2
ZR718	Soil			12	0.20	100	0.072	<1	1.80	0.006	0.08	0.1	0.06	1.1	0.1	<0.05	12	<0.5	<0.2
ZR719	Soil			9	0.15	81	0.084	1	3.33	0.007	0.05	0.2	0.12	1.4	<0.1	<0.05	10	0.8	<0.2
ZR720	Soil			4	0.06	29	0.021	<1	0.72	0.003	0.04	0.2	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
ZR721	Soil			7	0.15	73	0.042	<1	1.02	0.004	0.06	0.2	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
ZR722	Soil			6	0.10	65	0.040	2	1.79	0.003	0.03	0.2	0.08	1.3	<0.1	<0.05	5	0.6	<0.2
ZR723	Soil			7	0.13	92	0.039	<1	1.62	0.004	0.06	0.1	0.06	1.1	<0.1	<0.05	6	<0.5	<0.2
ZR724	Soil			6	0.20	43	0.022	<1	1.39	0.004	0.03	0.1	0.06	0.7	<0.1	<0.05	4	0.5	<0.2
ZR725	Soil			6	0.08	51	0.070	<1	2.61	0.007	0.03	0.2	0.08	2.1	0.1	<0.05	8	<0.5	<0.2
ZR726	Soil			8	0.12	34	0.032	<1	1.30	0.004	0.03	0.2	0.05	1.0	<0.1	<0.05	4	0.8	<0.2
ZR727	Soil			6	0.09	37	0.046	<1	2.00	0.008	0.03	0.2	0.04	1.7	0.1	<0.05	5	<0.5	<0.2

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Project: None Given  
 Report Date: November 18, 2011

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CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
ZR728	Soil			0.5	6.1	7.1	22	<0.1	5.8	2.4	48	1.50	2.5	373.2	5.1	2	<0.1	0.2	0.3	19	<0.01	0.024	20
ZR729	Soil			1.1	12.9	13.0	42	0.1	4.9	3.8	460	1.99	4.5	34.4	1.9	4	0.2	0.3	0.4	31	0.03	0.093	8
ZR730	Soil			1.0	8.8	11.9	41	0.1	6.4	4.5	277	2.56	4.7	17.7	3.4	3	0.2	0.3	0.4	29	0.02	0.068	13
ZR731	Soil			1.1	8.0	13.4	35	0.1	4.7	2.4	87	2.64	3.7	17.7	4.0	3	0.2	0.2	0.4	35	0.02	0.045	6
ZR732	Soil			1.0	9.7	10.8	28	0.1	4.5	3.1	350	1.95	3.8	25.2	2.7	3	0.1	0.3	0.3	25	0.02	0.060	9
ZR733	Soil			0.6	10.0	8.8	26	0.1	4.9	3.0	95	1.33	2.9	79.3	3.8	3	0.2	0.2	0.3	21	0.02	0.043	9
ZR734	Soil			0.9	8.0	11.5	28	0.1	4.6	2.6	99	2.42	3.7	45.2	3.3	3	0.1	0.2	0.3	34	0.02	0.052	8
ZR735	Soil			0.7	6.9	13.8	20	0.1	3.6	1.4	76	1.91	3.8	104.9	2.2	3	0.2	0.4	0.6	49	0.01	0.033	9
ZR736	Soil			0.9	10.6	12.2	27	0.1	4.8	3.7	432	2.31	4.5	1.1	3.5	4	0.1	0.3	0.3	37	0.03	0.080	7
ZR737	Soil			0.5	31.4	8.7	17	0.2	3.1	1.9	190	0.90	1.2	120.0	3.6	2	<0.1	0.1	0.4	17	<0.01	0.017	23
ZR738	Soil			1.1	13.0	16.0	48	0.2	7.7	3.9	223	2.13	4.8	20.8	3.1	4	0.2	0.5	0.5	34	0.03	0.070	10
ZR739	Soil			0.7	7.0	16.2	24	<0.1	3.4	1.8	83	1.20	4.1	3.5	1.8	4	0.2	0.3	0.5	36	0.01	0.036	9
ZR740	Soil			0.9	8.5	15.3	23	0.1	3.7	2.3	173	1.57	3.2	11.4	1.8	3	0.2	0.2	0.4	30	0.02	0.066	8
ZR741	Soil			0.8	10.8	9.0	13	0.2	3.1	1.8	139	1.34	3.4	<0.5	1.5	3	0.2	0.2	0.2	25	0.02	0.098	4
ZR742	Soil			0.7	8.8	9.5	12	<0.1	2.2	1.0	31	1.38	3.0	1.9	2.2	3	0.1	0.1	0.2	26	0.02	0.077	6
ZR743	Soil			0.5	6.9	9.5	10	<0.1	2.3	0.9	25	1.06	2.9	0.9	1.8	2	0.1	0.2	0.3	25	0.01	0.037	5
ZR744	Soil			1.0	12.5	9.6	14	<0.1	3.4	1.5	134	2.10	4.9	8.6	1.6	3	0.1	0.3	0.2	31	0.02	0.101	3
ZR745	Soil			0.8	11.9	7.2	10	<0.1	3.0	1.4	35	1.95	3.9	0.8	2.4	3	0.1	0.2	0.2	30	0.03	0.065	5
ZR746	Soil			0.9	9.1	12.8	16	<0.1	2.7	1.5	50	2.07	3.5	1.4	2.3	3	0.1	0.3	0.3	36	0.02	0.045	6
ZR747	Soil			0.9	12.3	8.2	17	0.1	4.1	1.8	62	1.88	4.1	0.6	1.6	3	0.1	0.3	0.2	27	0.02	0.087	5
ZR748	Soil			0.8	11.3	10.7	48	0.1	9.8	4.6	418	2.28	4.8	4.9	2.5	6	0.1	0.3	0.3	35	0.05	0.089	11
ZR749	Soil			0.6	6.5	11.7	31	<0.1	6.3	3.1	393	1.39	3.6	0.9	3.0	3	0.1	0.4	0.3	24	0.02	0.043	9
ZR750	Soil			0.9	9.4	11.0	50	<0.1	10.1	5.1	333	1.87	5.0	7.4	2.5	3	0.1	0.4	0.3	30	0.02	0.072	19
ZR751	Soil			0.8	13.2	15.0	52	<0.1	7.4	6.3	3223	2.08	3.5	0.7	1.1	4	0.2	0.3	0.4	29	0.02	0.093	14
ZR752	Soil			1.0	10.9	10.5	47	0.1	8.4	6.7	592	2.04	4.3	13.4	1.1	3	0.2	0.3	0.5	26	0.03	0.186	11
ZR753	Soil			1.2	13.8	10.4	37	0.2	5.8	4.1	527	1.30	3.9	1.0	1.1	4	0.1	0.2	0.2	21	0.03	0.141	7



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Project: None Given  
 Report Date: November 18, 2011

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# CERTIFICATE OF ANALYSIS

VAN11005875.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
ZR728	Soil	7	0.10	25	0.025	<1	0.88	0.002	0.02	0.2	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
ZR729	Soil	11	0.10	47	0.098	<1	3.63	0.007	0.03	0.3	0.20	1.4	<0.1	0.05	10	<0.5	<0.2
ZR730	Soil	11	0.13	55	0.070	<1	2.35	0.006	0.03	0.2	0.13	1.7	0.1	<0.05	9	1.2	<0.2
ZR731	Soil	9	0.09	45	0.138	1	3.41	0.007	0.03	0.2	0.15	2.0	<0.1	<0.05	13	0.5	<0.2
ZR732	Soil	8	0.09	41	0.072	<1	2.66	0.006	0.03	0.2	0.13	1.7	0.1	<0.05	9	<0.5	<0.2
ZR733	Soil	7	0.09	40	0.064	<1	2.91	0.008	0.02	0.1	0.09	2.2	<0.1	<0.05	7	<0.5	<0.2
ZR734	Soil	9	0.09	45	0.081	<1	2.96	0.007	0.02	0.1	0.10	2.2	<0.1	<0.05	10	0.7	<0.2
ZR735	Soil	7	0.07	24	0.126	<1	1.04	0.009	0.03	<0.1	0.06	1.1	<0.1	<0.05	14	<0.5	<0.2
ZR736	Soil	9	0.10	43	0.089	<1	3.23	0.027	0.03	0.2	0.13	2.4	<0.1	<0.05	9	<0.5	<0.2
ZR737	Soil	5	0.08	46	0.041	<1	0.83	0.013	0.03	0.1	0.03	0.9	0.1	<0.05	5	<0.5	<0.2
ZR738	Soil	10	0.19	46	0.090	1	1.73	0.065	0.07	0.3	0.15	1.5	0.1	<0.05	9	0.6	<0.2
ZR739	Soil	7	0.08	39	0.081	<1	0.90	0.026	0.03	0.1	0.07	1.1	<0.1	<0.05	10	<0.5	<0.2
ZR740	Soil	7	0.08	35	0.076	<1	1.21	0.026	0.03	0.1	0.12	1.0	0.1	<0.05	9	<0.5	<0.2
ZR741	Soil	6	0.06	30	0.090	<1	3.72	0.030	0.02	0.2	0.10	1.8	<0.1	<0.05	8	0.7	<0.2
ZR742	Soil	7	0.05	30	0.101	<1	4.27	0.029	0.02	0.1	0.08	2.5	<0.1	<0.05	11	1.0	<0.2
ZR743	Soil	4	0.04	20	0.085	<1	1.68	0.010	0.02	<0.1	0.06	1.4	<0.1	<0.05	10	<0.5	<0.2
ZR744	Soil	6	0.06	30	0.108	<1	2.90	0.018	0.02	0.2	0.11	2.0	<0.1	<0.05	10	0.7	<0.2
ZR745	Soil	6	0.05	20	0.124	<1	4.29	0.017	0.01	0.2	0.11	2.8	<0.1	<0.05	10	0.9	<0.2
ZR746	Soil	7	0.06	26	0.120	<1	2.45	0.010	0.03	0.1	0.06	2.0	<0.1	<0.05	13	<0.5	<0.2
ZR747	Soil	6	0.06	32	0.101	<1	4.01	0.008	0.01	0.2	0.11	1.6	<0.1	<0.05	10	0.8	<0.2
ZR748	Soil	11	0.24	71	0.096	<1	2.03	0.004	0.07	0.2	0.09	1.6	0.1	<0.05	11	0.7	<0.2
ZR749	Soil	8	0.28	45	0.046	<1	1.08	0.003	0.04	0.2	0.06	1.0	0.1	<0.05	6	<0.5	<0.2
ZR750	Soil	11	0.43	48	0.069	2	1.44	0.007	0.05	0.3	0.10	1.2	0.1	<0.05	8	0.6	<0.2
ZR751	Soil	9	0.22	111	0.052	1	1.16	0.003	0.05	0.1	0.06	0.8	0.2	<0.05	8	<0.5	<0.2
ZR752	Soil	8	0.21	57	0.060	1	2.94	0.006	0.05	0.2	0.11	1.3	<0.1	<0.05	8	0.6	<0.2
ZR753	Soil	6	0.11	33	0.073	1	4.01	0.007	0.03	0.2	0.12	1.5	<0.1	<0.05	9	0.8	<0.2



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Project: None Given

Report Date: November 18, 2011

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QUALITY CONTROL REPORT

VAN11005875.1

Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
ZR592	Soil			1.0	11.4	10.1	18	0.1	3.5	1.9	292	1.89	3.3	2.0	2.2	4	<0.1	0.2	0.3	31	0.03	0.064	4
REP ZR592	QC			0.9	11.2	10.1	18	0.2	3.3	2.0	265	1.78	3.2	0.6	2.2	4	<0.1	0.2	0.3	31	0.03	0.065	4
ZR609	Soil			0.4	4.9	7.8	23	<0.1	5.8	2.7	104	1.79	3.1	52.1	4.6	2	0.1	0.2	0.3	15	0.01	0.063	29
REP ZR609	QC			0.3	5.0	7.8	23	<0.1	5.7	2.7	108	1.81	3.2	85.6	4.6	2	<0.1	0.3	0.4	15	0.01	0.061	28
ZR620	Soil			1.1	13.1	12.8	56	0.1	12.3	9.1	855	2.12	5.9	4.1	0.5	4	0.4	0.4	0.4	35	0.03	0.077	16
REP ZR620	QC			1.0	12.6	12.7	57	0.1	11.4	9.0	818	2.46	5.0	4.0	0.5	4	0.3	0.3	0.4	31	0.03	0.076	13
ZR636	Soil			0.9	7.0	8.2	35	<0.1	4.1	3.0	425	1.56	3.5	3.6	3.9	3	0.1	0.2	0.3	30	0.02	0.038	9
REP ZR636	QC			0.8	7.3	8.0	34	<0.1	4.9	3.1	404	1.82	3.1	7.3	3.8	3	0.1	0.2	0.3	30	0.01	0.036	9
ZR655	Soil			1.1	10.2	20.7	38	0.1	7.3	3.6	243	2.48	4.1	6.6	3.8	3	<0.1	0.3	0.5	41	0.02	0.043	14
REP ZR655	QC			1.0	10.2	21.7	38	0.1	7.8	4.0	254	2.60	3.4	5.5	3.7	3	0.2	0.3	0.5	40	0.02	0.042	14
ZR678	Soil			1.0	10.4	14.4	34	<0.1	8.0	3.2	114	2.33	5.4	3.8	3.7	4	<0.1	0.4	0.6	46	0.02	0.038	17
REP ZR678	QC			0.9	9.3	13.3	31	<0.1	6.9	2.9	107	2.12	4.7	8.2	3.4	3	<0.1	0.4	0.5	42	0.02	0.035	14
ZR689	Soil			0.5	12.0	17.7	65	0.2	12.1	9.9	1664	1.92	2.7	97.0	7.1	4	0.1	0.2	0.5	25	0.03	0.096	23
REP ZR689	QC			0.6	11.8	17.4	64	0.2	11.6	10.0	1698	1.87	2.6	271.6	7.3	5	0.2	0.2	0.4	24	0.03	0.101	23
ZR714	Soil			0.9	13.0	12.8	37	<0.1	8.6	4.6	746	1.94	2.9	15.8	1.7	4	<0.1	0.4	0.4	34	0.02	0.072	19
REP ZR714	QC			1.0	12.7	13.1	35	<0.1	8.1	4.3	752	1.90	3.1	13.3	1.7	4	<0.1	0.4	0.4	35	0.02	0.072	18
ZR729	Soil			1.1	12.9	13.0	42	0.1	4.9	3.8	460	1.99	4.5	34.4	1.9	4	0.2	0.3	0.4	31	0.03	0.093	8
REP ZR729	QC			0.9	12.5	12.9	40	0.1	5.1	4.0	541	2.30	4.4	3.5	2.0	4	0.3	0.3	0.3	29	0.03	0.091	7
ZR750	Soil			0.9	9.4	11.0	50	<0.1	10.1	5.1	333	1.87	5.0	7.4	2.5	3	0.1	0.4	0.3	30	0.02	0.072	19
REP ZR750	QC			0.9	9.4	11.0	47	<0.1	8.8	4.7	385	2.19	4.6	4.3	2.1	3	0.1	0.3	0.3	28	0.02	0.069	16
Reference Materials																							
STD DS8	Standard			13.2	102.7	116.7	299	1.9	36.4	7.0	589	2.37	24.0	105.3	6.0	61	2.5	4.1	6.2	41	0.66	0.072	14
STD DS8	Standard			11.6	95.0	117.2	284	1.8	34.0	6.5	541	2.33	23.0	106.4	5.7	55	2.2	4.1	6.1	38	0.63	0.074	14
STD DS8	Standard			12.8	102.9	119.1	297	1.9	35.6	7.2	578	2.36	24.1	116.8	6.0	60	2.2	4.8	6.1	40	0.67	0.077	14
STD DS8	Standard			12.8	108.2	129.9	310	1.9	37.3	7.5	612	2.45	24.1	109.9	7.0	74	2.1	5.9	7.4	41	0.69	0.081	14
STD DS8	Standard			13.3	117.4	131.5	320	1.8	40.6	7.7	618	2.44	24.9	107.9	6.9	70	2.3	5.6	6.6	47	0.69	0.076	16
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Project: None Given  
 Report Date: November 18, 2011

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QUALITY CONTROL REPORT

VAN11005875.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
ZR592	Soil	7	0.07	35	0.146	2	3.50	0.014	0.03	0.2	0.09	2.2	<0.1	<0.05	11	<0.5	<0.2
REP ZR592	QC	7	0.07	35	0.131	2	3.62	0.014	0.03	0.2	0.09	1.9	<0.1	<0.05	11	<0.5	<0.2
ZR609	Soil	5	0.12	34	0.028	<1	0.71	0.003	0.05	0.2	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
REP ZR609	QC	6	0.12	33	0.027	<1	0.74	0.003	0.04	0.2	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
ZR620	Soil	13	0.32	53	0.043	3	1.86	0.003	0.06	0.3	0.09	1.0	<0.1	0.14	8	<0.5	0.3
REP ZR620	QC	13	0.29	52	0.032	2	1.73	0.003	0.07	0.2	0.09	0.8	<0.1	0.07	7	<0.5	<0.2
ZR636	Soil	6	0.06	48	0.076	<1	1.96	0.005	0.02	0.2	0.09	1.5	<0.1	<0.05	8	<0.5	<0.2
REP ZR636	QC	6	0.06	47	0.073	<1	1.96	0.005	0.02	0.3	0.08	1.3	<0.1	<0.05	8	<0.5	<0.2
ZR655	Soil	12	0.21	50	0.064	2	1.57	0.004	0.06	0.2	0.07	1.5	<0.1	0.08	9	<0.5	<0.2
REP ZR655	QC	12	0.21	51	0.067	1	1.56	0.004	0.07	0.2	0.07	1.3	0.1	0.05	9	<0.5	<0.2
ZR678	Soil	13	0.28	43	0.073	2	1.46	0.005	0.07	0.2	0.06	1.7	0.1	<0.05	11	<0.5	<0.2
REP ZR678	QC	12	0.23	39	0.061	1	1.29	0.004	0.06	0.2	0.05	1.4	0.1	<0.05	9	<0.5	<0.2
ZR689	Soil	8	0.18	132	0.056	1	1.92	0.006	0.07	0.2	0.03	1.6	0.1	<0.05	5	<0.5	<0.2
REP ZR689	QC	8	0.18	136	0.056	2	1.92	0.006	0.07	0.2	0.03	1.6	0.1	<0.05	6	<0.5	<0.2
ZR714	Soil	12	0.39	41	0.057	<1	1.09	0.004	0.06	0.2	0.04	0.9	0.1	<0.05	7	0.6	<0.2
REP ZR714	QC	11	0.36	41	0.052	1	1.03	0.004	0.06	0.1	0.05	1.0	0.1	<0.05	7	0.7	<0.2
ZR729	Soil	11	0.10	47	0.098	<1	3.63	0.007	0.03	0.3	0.20	1.4	<0.1	0.05	10	<0.5	<0.2
REP ZR729	QC	10	0.10	46	0.080	<1	3.59	0.007	0.03	0.2	0.21	2.1	<0.1	<0.05	10	1.2	<0.2
ZR750	Soil	11	0.43	48	0.069	2	1.44	0.007	0.05	0.3	0.10	1.2	0.1	<0.05	8	0.6	<0.2
REP ZR750	QC	10	0.38	48	0.056	1	1.39	0.007	0.06	0.2	0.09	1.0	0.1	<0.05	8	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	110	0.52	269	0.107	2	0.89	0.102	0.43	2.8	0.21	3.1	5.5	0.14	4	4.6	4.8
STD DS8	Standard	102	0.48	278	0.101	2	0.85	0.099	0.43	2.8	0.20	3.1	5.2	0.08	4	4.4	4.8
STD DS8	Standard	108	0.55	270	0.109	2	0.92	0.100	0.43	2.8	0.21	2.8	5.7	0.12	5	4.4	4.6
STD DS8	Standard	116	0.62	282	0.122	3	0.96	0.109	0.43	3.1	0.20	3.1	5.6	0.16	5	5.0	5.0
STD DS8	Standard	119	0.60	275	0.121	3	0.89	0.086	0.41	3.0	0.20	2.2	5.4	0.12	4	4.8	5.2
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: None Given

Report Date: November 18, 2011

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QUALITY CONTROL REPORT

VAN11005875.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Client: **PJX Resources Inc.**  
 5600 - 100 King Street West  
 Toronto ON M5X 1C9 Canada

Project: None Given

Report Date: November 18, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005875.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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5600 - 100 King Street West  
Toronto ON M5X 1C9 Canada

Submitted By: Linda Brennan  
Receiving Lab: Canada-Vancouver  
Received: November 03, 2011  
Report Date: November 28, 2011  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN11006160.1

### CLIENT JOB INFORMATION

Project: ZINGER  
Shipment ID:  
P.O. Number  
Number of Samples: 11

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	11	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX3	11	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

### SAMPLE DISPOSAL

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

### ADDITIONAL COMMENTS

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

Invoice To: PJX Resources Inc.  
5600 - 100 King Street West  
Toronto ON M5X 1C9  
Canada

CC: John Keating  
Sean Kennedy



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. Acme 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: ZINGER  
 Report Date: November 28, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11006160.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
SKPX11-223	Rock	0.63	0.2	35.4	4.1	7	<0.1	1.5	0.8	148	0.50	0.8	153.6	3.6	2	<0.1	0.1	<0.1	2	<0.01	0.007
SKPX11-224	Rock	0.57	0.3	29.6	35.2	21	0.8	3.7	2.2	123	1.19	14.1	892.2	5.2	3	<0.1	0.1	0.8	<2	<0.01	0.012
SKPX11-225	Rock	0.68	0.2	4.7	11.2	9	0.3	3.5	2.8	97	1.42	16.5	1569	11.4	28	<0.1	0.2	0.3	2	0.01	0.029
SKPX11-226	Rock	0.52	0.6	9.3	29.4	13	0.3	6.1	3.8	254	1.89	26.1	2126	7.8	8	<0.1	0.1	0.3	<2	<0.01	0.018
SKPX11-227	Rock	0.64	0.6	7.3	22.2	4	0.1	2.2	1.5	66	0.95	6.3	179.6	3.4	2	<0.1	<0.1	0.3	<2	<0.01	0.010
SKPX11-228	Rock	0.68	0.4	4.9	14.4	4	0.1	3.8	1.8	120	0.87	12.9	154.6	5.6	1	<0.1	<0.1	<0.1	<2	<0.01	0.008
SKPX11-229	Rock	0.49	1.2	32.0	294.8	28	2.5	9.5	8.9	263	2.12	27.7	450.1	18.8	18	<0.1	0.2	6.2	4	0.24	0.125
SKPX11-230	Rock	0.59	0.5	3.9	5.6	13	<0.1	5.1	2.6	151	1.00	4.5	214.1	2.6	<1	<0.1	0.3	0.2	3	<0.01	0.009
SKPX11-231	Rock	0.65	0.4	9.3	32.6	3	0.2	5.9	20.7	134	0.78	1.1	19.9	0.3	2	<0.1	<0.1	0.2	3	<0.01	0.002
SKPX11-232	Rock	0.67	0.6	620.3	2574	4	5.0	38.0	6.4	152	2.18	5.4	24566	0.2	<1	<0.1	0.8	27.6	136	<0.01	0.027
SKPX11-233	Rock	1.45	0.6	56.3	12.8	37	<0.1	83.0	31.3	2099	5.07	11.2	30.6	2.4	11	<0.1	0.3	0.2	73	0.08	0.049



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 Toronto ON M5X 1C9 Canada

Project: ZINGER  
 Report Date: November 28, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11006160.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SKPX11-223	Rock	19	4	<0.01	25	0.002	<1	0.18	0.046	0.05	0.2	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-224	Rock	27	3	0.01	29	<0.001	<1	0.22	0.021	0.13	7.4	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-225	Rock	39	3	0.02	57	0.001	<1	0.34	0.010	0.23	0.4	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-226	Rock	21	4	0.02	34	0.001	<1	0.24	0.006	0.17	0.3	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-227	Rock	14	3	0.01	15	<0.001	<1	0.17	0.004	0.12	0.2	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-228	Rock	20	4	0.01	25	<0.001	<1	0.19	0.004	0.15	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-229	Rock	30	4	0.04	82	0.002	1	0.38	0.015	0.24	0.5	<0.01	1.5	<0.1	0.13	<1	<0.5	0.2
SKPX11-230	Rock	5	7	0.02	13	<0.001	<1	0.14	0.003	0.06	3.8	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-231	Rock	1	12	0.04	10	<0.001	1	0.07	0.004	0.01	0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-232	Rock	<1	69	0.04	5	<0.001	<1	0.09	0.001	0.01	0.3	<0.01	0.9	<0.1	<0.05	<1	<0.5	3.4
SKPX11-233	Rock	7	90	0.68	123	0.002	<1	1.50	0.018	0.03	0.2	<0.01	11.6	<0.1	<0.05	4	<0.5	<0.2



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Project: ZINGER

Report Date: November 28, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11006160.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
SKPX11-232	Rock	0.67	0.6	620.3	2574	4	5.0	38.0	6.4	152	2.18	5.4	24566	0.2	<1	<0.1	0.8	27.6	136	<0.01	0.027
REP SKPX11-232	QC		0.6	609.6	2536	4	4.6	37.8	6.3	148	2.15	5.8	26939	0.2	<1	<0.1	0.8	28.1	134	<0.01	0.026
Core Reject Duplicates																					
SKPX11-230	Rock	0.59	0.5	3.9	5.6	13	<0.1	5.1	2.6	151	1.00	4.5	214.1	2.6	<1	<0.1	0.3	0.2	3	<0.01	0.009
DUP SKPX11-230	QC		0.2	2.9	5.0	12	<0.1	3.9	2.3	123	0.84	4.1	202.8	2.3	<1	<0.1	0.3	0.1	3	<0.01	0.008
Reference Materials																					
STD DS8	Standard		12.8	107.5	130.5	311	1.8	37.5	7.5	612	2.42	24.4	108.9	6.6	71	2.3	5.8	7.2	41	0.68	0.077
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	3.2	3.4	47	<0.1	2.9	4.2	571	2.01	0.6	<0.5	6.3	65	<0.1	0.1	<0.1	36	0.47	0.072
G1	Prep Blank	<0.01	0.3	3.6	4.8	43	<0.1	3.5	4.1	540	1.93	0.6	<0.5	5.9	55	<0.1	<0.1	<0.1	35	0.41	0.066



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**Project:** ZINGER

**Report Date:** November 28, 2011

**Page:** 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11006160.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
SKPX11-232	Rock	<1	69	0.04	5	<0.001	<1	0.09	0.001	0.01	0.3	<0.01	0.9	<0.1	<0.05	<1	<0.5	3.4
REP SKPX11-232	QC	<1	67	0.04	5	<0.001	<1	0.09	0.001	0.01	0.4	<0.01	0.8	<0.1	<0.05	<1	<0.5	3.0
Core Reject Duplicates																		
SKPX11-230	Rock	5	7	0.02	13	<0.001	<1	0.14	0.003	0.06	3.8	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
DUP SKPX11-230	QC	5	5	0.02	13	<0.001	<1	0.14	0.003	0.06	3.2	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	116	0.60	258	0.119	3	0.87	0.081	0.40	2.8	0.20	2.2	5.4	0.17	5	4.9	5.0
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	13	6	0.53	171	0.126	<1	0.95	0.090	0.51	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	12	7	0.50	151	0.118	<1	0.88	0.075	0.47	<0.1	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2



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Submitted By: Linda Brennan
Receiving Lab: Canada-Vancouver
Received: November 03, 2011
Report Date: November 23, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11006159.1

CLIENT JOB INFORMATION

Project: EDDY
Shipment ID:
P.O. Number
Number of Samples: 26

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains two rows of sample preparation and analysis data.

SAMPLE DISPOSAL

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

ADDITIONAL COMMENTS

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

Invoice To: PJX Resources Inc.
5600 - 100 King Street West
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CC: John Keating
Sean Kennedy



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. Acme 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: EDDY  
 Report Date: November 23, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11006159.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
SKPX11-188	Rock	0.48	0.3	2.3	238.2	60	1.6	9.1	6.9	145	2.05	11.2	9.3	4.1	10	<0.1	0.2	5.7	6	0.05	0.036
SKPX11-189	Rock	0.45	0.5	9.2	45.1	10	0.2	1.1	2.0	139	3.32	100.5	6.8	3.7	8	0.1	1.0	8.2	5	<0.01	0.023
SKPX11-190	Rock	0.41	0.9	3.7	34.6	10	<0.1	2.1	3.2	43	13.63	615.5	36.5	1.1	1	<0.1	0.3	4.7	43	<0.01	0.054
SKPX11-191	Rock	0.56	1.5	2.6	3.4	156	<0.1	29.8	15.3	2029	8.19	5.4	0.5	0.4	5	<0.1	0.1	0.1	3	<0.01	0.006
SKPX11-192	Rock	0.55	1.2	6.9	4.3	13	<0.1	32.2	30.0	137	3.83	15.7	76.7	14.9	12	<0.1	0.5	1.0	37	0.21	0.092
SKPX11-193	Rock	0.46	0.3	4.5	1.5	11	<0.1	13.1	10.2	185	4.22	2.2	4.7	7.6	6	<0.1	0.4	0.2	17	0.05	0.029
SKPX11-194	Rock	0.63	0.2	2.9	2.7	13	<0.1	4.0	3.9	123	2.97	6.9	147.9	11.4	2	<0.1	<0.1	0.2	4	<0.01	0.021
SKPX11-195	Rock	0.58	0.3	3.3	3.7	20	<0.1	11.6	10.3	238	2.85	7.1	193.0	8.7	4	<0.1	0.1	0.4	3	0.01	0.020
SKPX11-196	Rock	0.55	0.6	4.7	9.9	7	<0.1	3.3	2.9	44	2.12	7.2	7.2	6.4	1	<0.1	0.3	2.1	12	<0.01	0.016
SKPX11-210	Rock	0.52	0.3	9.8	3.7	35	<0.1	11.2	10.4	346	2.39	3.1	<0.5	10.6	4	<0.1	0.2	0.1	4	0.01	0.019
SKPX11-211	Rock	0.72	0.2	2.0	2.9	16	<0.1	10.2	7.0	94	3.28	5.5	12.9	10.1	2	<0.1	0.2	0.4	4	0.02	0.016
SKPX11-212	Rock	0.54	0.5	4.7	2.3	3	<0.1	6.8	6.3	28	3.13	2.1	9.6	10.0	3	<0.1	0.4	0.4	42	0.04	0.019
SKPX11-213	Rock	0.66	0.7	1.7	10.2	14	0.3	9.7	5.9	125	3.17	4.6	3701	4.3	5	<0.1	0.2	1.3	3	<0.01	0.029
SKPX11-214	Rock	0.54	3.8	15.0	26.2	4	0.1	4.4	3.8	29	1.39	13.8	52.4	5.4	2	<0.1	1.2	0.4	2	<0.01	0.004
SKPX11-215	Rock	0.46	0.4	32.9	663.5	1660	1.6	20.2	12.4	1877	13.54	41.9	50.6	4.4	2	0.9	0.4	9.2	8	<0.01	0.025
SKPX11-216	Rock	0.58	0.2	2.4	6.7	32	<0.1	6.4	5.8	511	1.98	1.3	1.7	7.8	3	<0.1	<0.1	0.2	<2	0.01	0.010
SKPX11-217	Rock	0.48	0.7	2.6	13.8	35	<0.1	15.8	10.2	168	3.90	16.6	271.6	9.1	4	<0.1	0.2	0.5	2	0.03	0.035
SKPX11-218	Rock	0.60	2.3	2.7	11.5	18	0.2	7.4	5.3	143	2.28	8.8	305.4	7.8	20	<0.1	0.2	0.7	<2	0.14	0.085
MCPX11-83	Rock	0.82	<0.1	4.7	4.3	15	<0.1	5.5	3.6	92	0.81	0.9	5.1	7.0	3	<0.1	<0.1	0.2	3	<0.01	0.006
MCPX11-84	Rock	0.28	0.6	1.8	26.2	5	<0.1	2.9	3.9	51	9.39	2.2	10.7	5.0	2	<0.1	2.2	6.6	65	<0.01	0.009
MCPX11-85	Rock	0.96	<0.1	1.6	2.0	37	<0.1	10.2	7.2	314	1.13	1.0	<0.5	4.2	2	<0.1	<0.1	<0.1	4	0.01	0.017
MCPX11-75	Rock	0.29	0.3	3.4	4.3	15	<0.1	3.1	3.9	94	1.02	1.8	<0.5	1.8	4	<0.1	<0.1	0.2	2	0.02	0.013
MCPX11-76	Rock	0.38	0.6	1.6	6.2	5	<0.1	3.2	2.2	35	2.14	3.9	1.1	9.7	6	<0.1	0.1	1.1	29	0.10	0.066
MCPX11-77	Rock	0.67	2.1	5.9	3.6	3	<0.1	5.0	7.8	28	0.78	2.8	<0.5	4.1	2	<0.1	0.3	0.5	3	<0.01	0.008
MCPX11-78	Rock	0.56	0.4	30.3	34.4	88	<0.1	26.0	14.5	411	3.57	12.1	0.9	14.1	5	0.1	0.3	0.8	14	0.06	0.027
MCPX11-79	Rock	0.71	0.1	8.4	2.4	10	<0.1	2.6	3.7	100	3.14	11.6	117.6	11.8	2	<0.1	<0.1	0.2	3	<0.01	0.008



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Project: EDDY  
 Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11006159.1

Method	Analyte	1DX30																
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
SKPX11-188	Rock	16	7	1.72	18	0.001	<1	1.32	0.003	0.07	<0.1	<0.01	0.9	<0.1	0.14	3	<0.5	<0.2
SKPX11-189	Rock	19	4	0.02	27	0.002	<1	0.26	0.060	0.08	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-190	Rock	5	5	0.02	14	0.004	<1	0.32	0.004	0.13	<0.1	<0.01	1.2	<0.1	<0.05	2	0.7	<0.2
SKPX11-191	Rock	<1	3	0.04	8	<0.001	<1	0.03	0.007	0.01	<0.1	<0.01	3.4	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-192	Rock	6	11	0.06	4	0.003	<1	0.12	0.101	<0.01	0.1	<0.01	2.6	<0.1	2.09	<1	<0.5	0.2
SKPX11-193	Rock	11	7	0.02	19	0.007	<1	0.14	0.093	0.02	<0.1	<0.01	3.5	<0.1	0.24	<1	<0.5	<0.2
SKPX11-194	Rock	16	4	0.01	19	<0.001	1	0.21	0.054	0.07	<0.1	0.11	1.7	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-195	Rock	19	4	0.02	13	<0.001	<1	0.18	0.061	0.03	<0.1	0.01	2.6	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-196	Rock	19	17	0.08	5	0.001	<1	0.30	0.101	0.02	<0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2
SKPX11-210	Rock	36	4	0.04	89	<0.001	<1	0.44	0.024	0.20	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-211	Rock	18	5	0.02	6	0.001	<1	0.12	0.089	0.01	<0.1	0.08	2.8	<0.1	0.43	<1	<0.5	<0.2
SKPX11-212	Rock	3	22	<0.01	4	0.036	<1	0.10	0.093	<0.01	1.1	<0.01	1.4	<0.1	0.41	<1	<0.5	<0.2
SKPX11-213	Rock	2	6	0.03	5	<0.001	<1	0.09	0.077	0.01	<0.1	0.01	2.4	<0.1	0.22	<1	<0.5	0.6
SKPX11-214	Rock	2	6	<0.01	6	0.001	<1	0.10	0.103	0.02	0.1	<0.01	0.4	<0.1	0.40	<1	<0.5	<0.2
SKPX11-215	Rock	14	4	<0.01	5	0.001	<1	0.11	0.004	<0.01	0.1	0.16	7.5	<0.1	0.18	<1	0.7	0.3
SKPX11-216	Rock	21	5	0.03	35	<0.001	<1	0.18	0.055	0.08	<0.1	<0.01	2.0	<0.1	<0.05	<1	<0.5	<0.2
SKPX11-217	Rock	8	4	0.04	17	<0.001	<1	0.13	0.069	0.01	0.1	<0.01	3.0	<0.1	0.34	<1	<0.5	0.5
SKPX11-218	Rock	9	5	0.01	28	0.001	<1	0.15	0.083	0.04	<0.1	<0.01	2.1	<0.1	0.21	<1	<0.5	0.7
MCPX11-83	Rock	21	5	0.05	45	<0.001	<1	0.35	0.033	0.15	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
MCPX11-84	Rock	10	13	<0.01	11	0.091	<1	0.10	0.085	0.03	0.9	<0.01	2.0	<0.1	0.09	1	<0.5	<0.2
MCPX11-85	Rock	16	7	0.41	23	<0.001	<1	0.49	0.040	0.07	<0.1	<0.01	1.0	<0.1	<0.05	1	<0.5	<0.2
MCPX11-75	Rock	23	5	0.56	11	<0.001	<1	0.39	0.006	0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
MCPX11-76	Rock	72	21	0.04	7	0.030	<1	0.21	0.075	0.02	0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
MCPX11-77	Rock	12	10	0.07	3	<0.001	<1	0.20	0.086	<0.01	<0.1	<0.01	0.7	<0.1	0.07	<1	<0.5	<0.2
MCPX11-78	Rock	16	17	0.74	56	0.003	1	1.86	0.033	0.27	0.1	<0.01	1.5	<0.1	0.32	5	<0.5	<0.2
MCPX11-79	Rock	40	4	0.02	16	<0.001	<1	0.22	0.090	0.03	<0.1	0.31	1.0	<0.1	<0.05	<1	<0.5	<0.2



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# QUALITY CONTROL REPORT

VAN11006159.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
SKPX11-195	Rock	0.58	0.3	3.3	3.7	20	<0.1	11.6	10.3	238	2.85	7.1	193.0	8.7	4	<0.1	0.1	0.4	3	0.01	0.020
REP SKPX11-195	QC		0.5	3.6	3.8	19	<0.1	11.6	10.4	232	2.88	7.0	208.8	8.6	4	<0.1	0.1	0.3	3	0.01	0.018
MCPX11-76	Rock	0.38	0.6	1.6	6.2	5	<0.1	3.2	2.2	35	2.14	3.9	1.1	9.7	6	<0.1	0.1	1.1	29	0.10	0.066
REP MCPX11-76	QC		0.7	1.5	5.8	4	<0.1	2.9	2.2	33	2.02	3.3	1.6	9.3	6	<0.1	0.1	1.1	27	0.09	0.059
Reference Materials																					
STD DS8	Standard		13.2	113.5	121.8	307	1.7	38.6	7.7	600	2.49	24.1	111.4	7.8	74	2.2	6.1	7.2	42	0.72	0.073
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	0.1	2.4	38.6	67	0.4	2.6	3.8	560	1.87	23.5	3.3	6.0	71	0.3	1.3	0.1	35	0.49	0.062
G1	Prep Blank	<0.01	0.1	9.3	17.4	63	0.1	2.2	3.8	536	1.82	23.5	0.8	6.4	69	0.3	0.3	<0.1	34	0.47	0.065





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Project: EDDY

Report Date: November 23, 2011

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# QUALITY CONTROL REPORT

VAN11006159.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
SKPX11-195	Rock	19	4	0.02	13	<0.001	<1	0.18	0.061	0.03	<0.1	0.01	2.6	<0.1	<0.05	<1	<0.5	<0.2
REP SKPX11-195	QC	19	4	0.02	13	<0.001	<1	0.17	0.060	0.03	<0.1	0.01	2.6	<0.1	<0.05	<1	<0.5	<0.2
MCPX11-76	Rock	72	21	0.04	7	0.030	<1	0.21	0.075	0.02	0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
REP MCPX11-76	QC	64	20	0.04	7	0.027	<1	0.19	0.072	0.02	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	121	0.63	260	0.134	3	0.96	0.089	0.42	2.9	0.19	2.0	5.2	0.16	4	5.3	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	14	6	0.49	162	0.126	2	0.95	0.098	0.47	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	14	6	0.47	154	0.124	<1	0.91	0.094	0.46	<0.1	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2

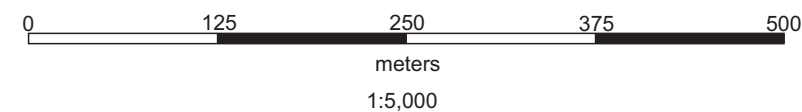
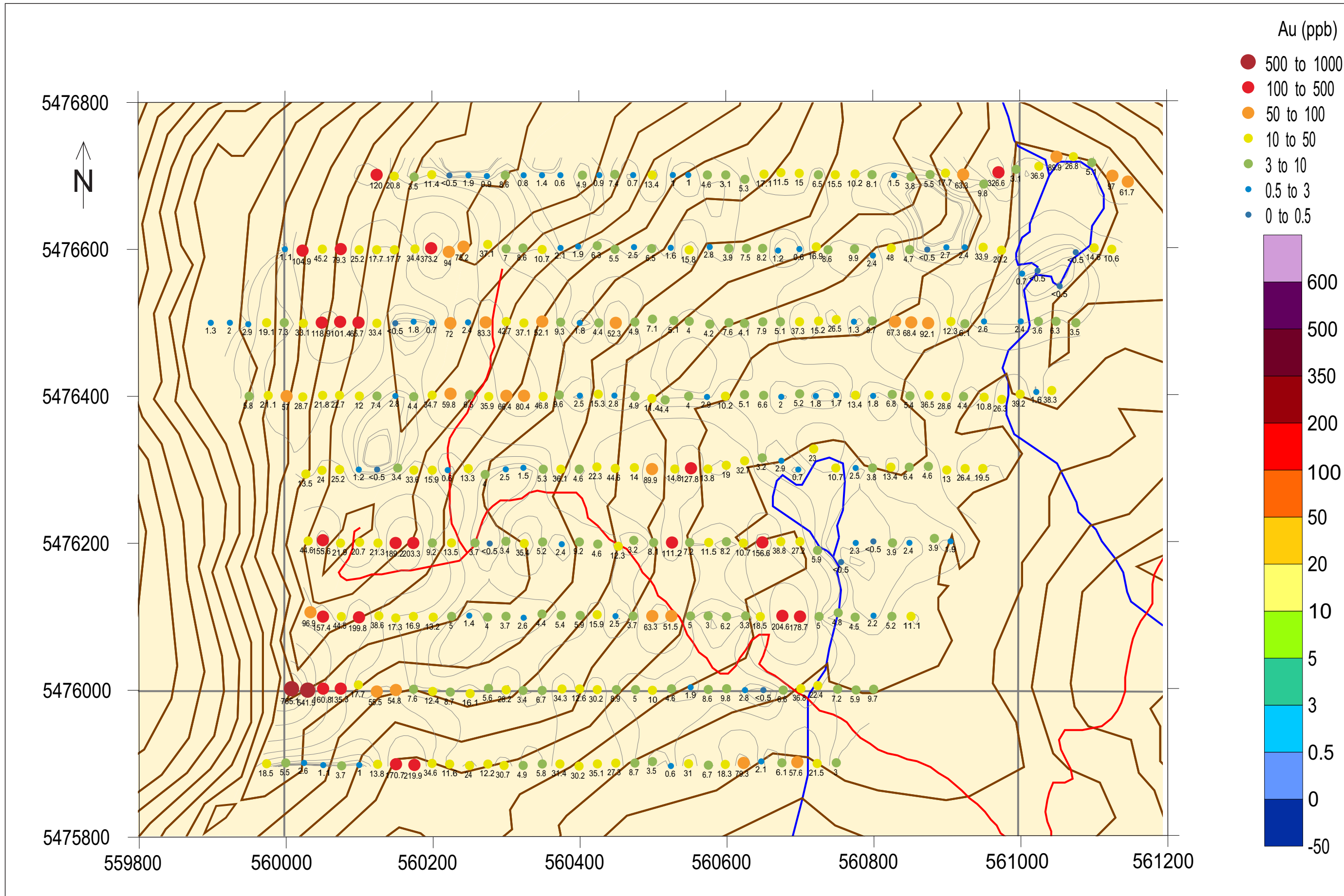


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SOIL GEOCHEMISTRY  
GOLD IN PPB



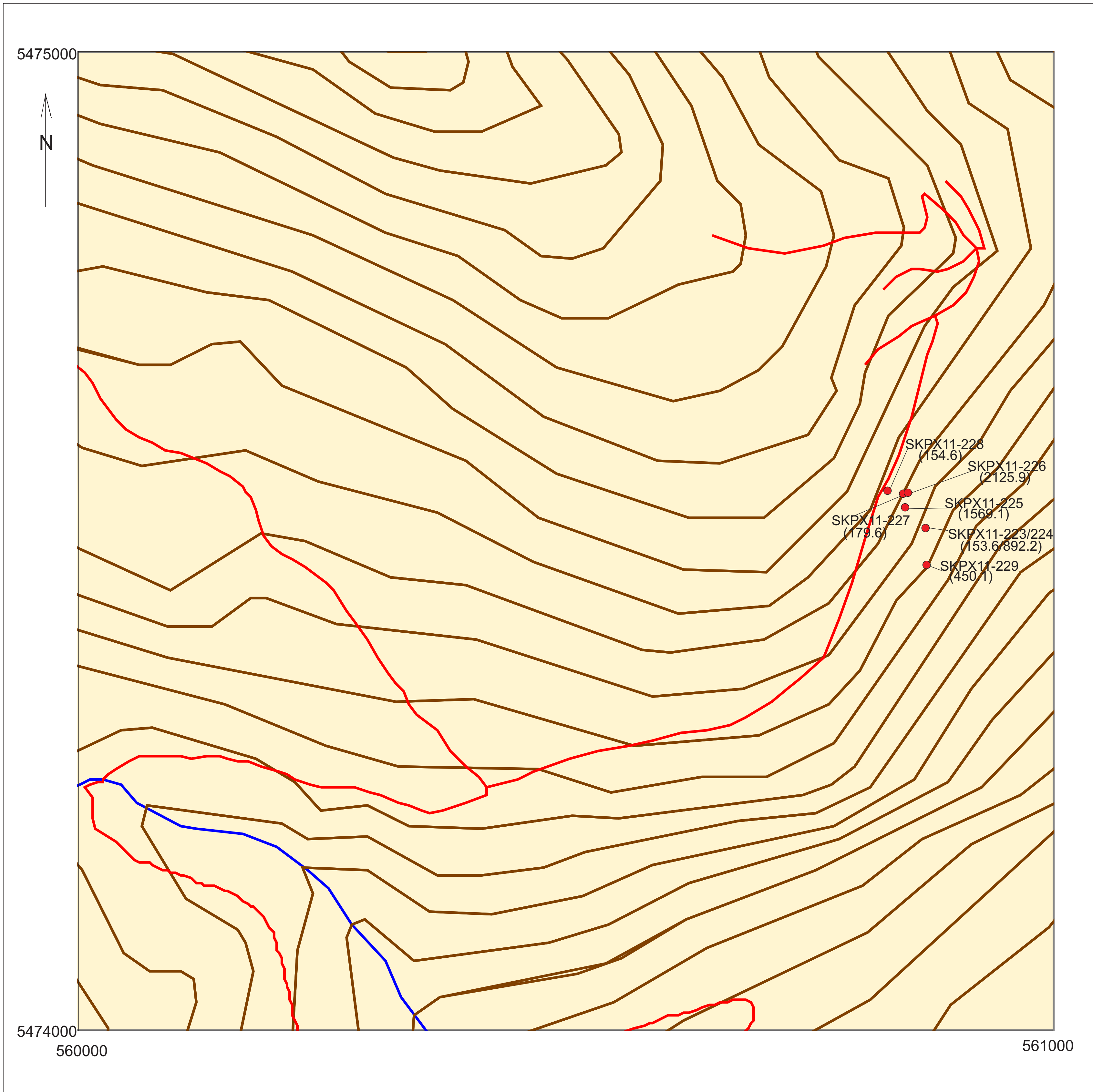


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SOUTH EAST BRITISH COLUMBIA



## ROCK GEOCHEMISTRY GOLD IN PPB





EDDY PROPERTY  
FORT STEELE AND NELSON MINING DIVISIONS  
KOOTENAY DISTRICT

SOUTH EAST BRITISH COLUMBIA



# ROCK GEOCHEMISTRY GOLD IN PPB

