



BC Geological Survey  
Assessment Report  
32804a

Aztec File #1201-GN-WGM

**SOIL GEOCHEMICAL SURVEY REPORT**  
**GOOSENECK CU PROPERTY**  
**NANAIMO MINING DIVISION, BC**  
**NTS 092F/13E**  
**LATITUDE 49° 55'16"N / LONGITUDE 125° 32'13"W**

**Prepared for:**

**Western Gateway Minerals Inc.**  
**Vancouver, B.C.**

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**February 2012**

## Executive Summary

The Gooseneck Cu Property is situated on Central Vancouver Island on the south side of Highway 28 approximately 21km southwest of Campbell River, a resource/industrial centre of approximately 30,000 population. The property is in low relief topography east of the Vancouver Island Mountain Ranges. It is transected by numerous forestry roads. The property is in its infancy, being discovered by local prospectors while driving new logging roads in the area in 2006.

The property lies in the centre of a large intrusive complex which is surrounded by numerous regionally significant magnetite  $\pm$  copper-cobalt-gold skarn deposits in peripheral contact areas, including the former Argonaut Mine (Iron Hill) and developed tonnage at Iron River. The claims are anomalous in their Cu porphyry potential for the region (fracture, veinlet and disseminated mineralization and favourable characteristic zones of alteration).

The 2011 soil geochemical survey over the GooseNeck Property showed generally low values of all elements, but by applying 95 and 75 percentile thresholds, the results defined an area of anomalous Cu values in soils on a south-facing ridge side north of Gooseneck Creek. This is an area with known disseminated veinlet and fracture chalcopyrite and malachite found in altered granodiorite along upper road cuts and in scattered outcrops along the ridge side (~120m long x 100m wide zone). The geochemical anomaly did succeed in extending this area further to the east where outcrops are few. In addition, low geochemical Cu signature obtained in this soil survey provides a base for anticipated background thresholds over the prospective porphyry targets on the property.

The soil sampling program on the GooseNeck Property requires expansion to the south. In addition, Induced Polarization surveys are recommended along the road systems on the property to better determine target areas. These two surveys should be in combination with "alteration mapping" and determination of intrusive phases and mineral zone definition in the area.

## Table of Contents

1.0	Introduction .....	4
1.1	Terms of Reference / Objectives.....	4
1.2	Location, Access and Facilities .....	4
1.3	Legal Property Description & Ownership.....	6
1.4	Physiography.....	6
1.5	Climate and Vegetation.....	6
1.6	Acknowledgements .....	8
1.6	Property History .....	8
2.0	Regional Geology & Mineralization .....	8
3.0	Property Geology & Mineralization.....	10
4.0	2011 Soil Geochemical Survey .....	11
5.0	Results & Recommendations .....	13

## Maps

- 1) FIGURE 1: LOCATION MAP
- 2) FIGURE 2: GOOGLE EARTH™ IMAGERY
- 3) FIGURE 3: REGIONAL GEOLOGY; 2011 SOIL GEOCHEM LINE & SHOWING LOCATIONS MAP 1:50,000
- 4) FIGURE 4: REGIONAL AEROMAG
- 5) FIGURE 5: SOIL HORIZONS
- 6) FIGURE 6: STATISTICAL ANALYSIS SPREAD SHEET
- 7) FIGURE 7: CU-FE SOIL ANOMALY MAP 1:5000

## Appendices

- 1) STATEMENT OF QUALIFICATIONS
- 2) STATEMENT OF COSTS
- 3) REFERENCE MATERIAL
- 4) ACME LABS CERTIFICATE OF ANALYSIS

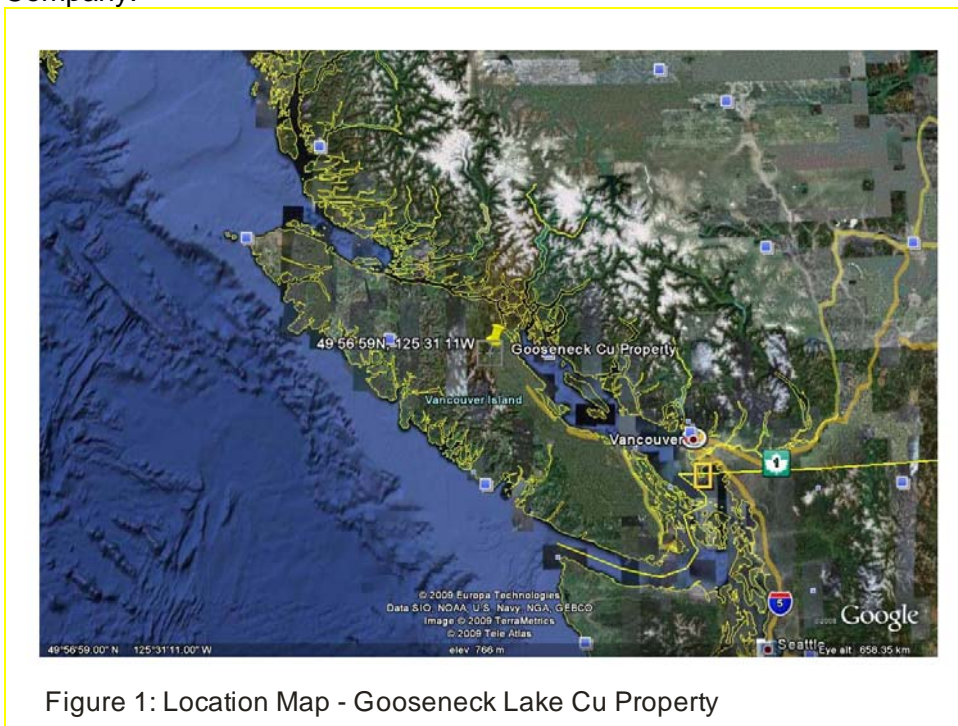
## 1.0 Introduction

### 1.1 Terms of Reference / Objectives

This is a technical report on the 2011 Soil Geochemical Survey carried out for Western Gateway Minerals Inc. on their GooseNeck Property approximately 21km southwest of Campbell River, BC, from August 23 to 31, 2011. The objective of this survey is to identify and document soil geochemical anomalies to further validate exploration targets on the property.

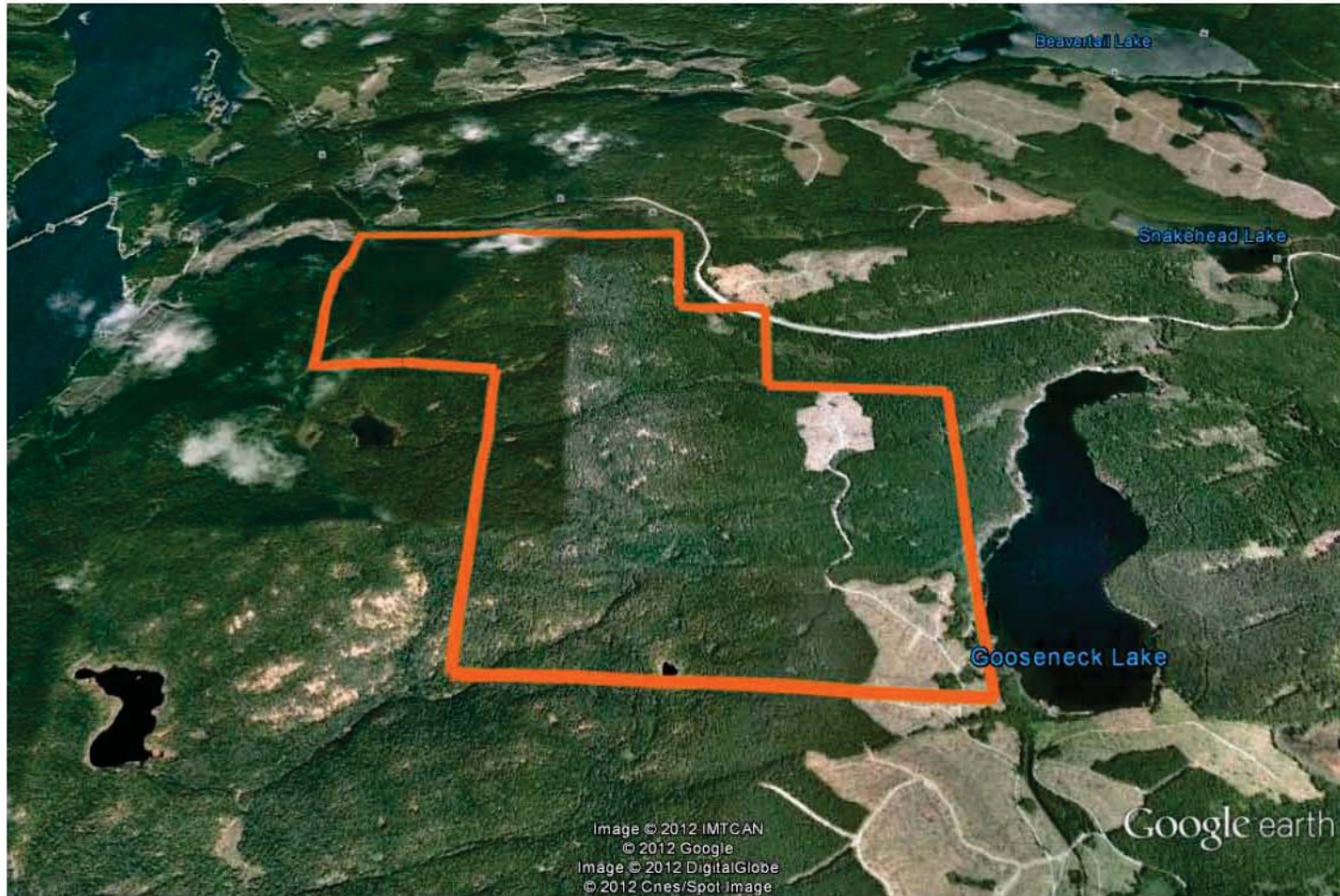
### 1.2 Location, Access and Facilities

The property is centred west of Gooseneck Lake, on the south side of Highway 28, approximately 21km southwest of Campbell River, Latitude 49°55'16"N, Longitude 125°32'13". This area is on the central eastern region of Vancouver Island, in the southwest corner of British Columbia, Canada. The claims are accessed off Highway 28 (Gold River Highway) via several forestry roads belonging to TimberWest Forest Company.



Campbell River has a good infrastructure of housing, industrial and servicing facilities required by a mining operation and is home to miners of Nyrstar Myra Falls operation and the nearby Quinsam Coal operation. Concentrate from Myra Falls and Quinsam operations are shipped via trucks to Campbell River terminals. BC Hydro's double 138,000 volt transmission line to Gold River passes a short distance north of the GooseNeck Property.





Google earth



FIGURE 2: Outline of Gooseneck Cu Property

### 1.3 Legal Property Description & Ownership

The claims are on private lands held by TimberWest Forest Company. The Mineral Tenure (Table 1) held by Western Gateway Minerals covers an area 498.88ha (1,232 acres) bounded by Upper Campbell Lake to the west, Highway 28 to the north and Gooseneck Lake on the east. Quinsam Coal company owns operational area to east of property. The tenures overlap areas which may have aboriginal interests by the Wei Wai Kum First Nation, Laich-kwil-tach Treaty Society and the K'omoks First Nation. The mineral title holder must maintain a road use and access agreement with TimberWest.

**Table 1 - GooseNeck Cu Property Claims List as of February 10, 2011**

Tenure #	Ownership	Hectares	Expiry Date
558981	Western Gateway Minerals	498.88	Nov. 15, 2012

Western Gateway Minerals Inc. is a BC corporation the major shareholders whom are David Fawcett and Joseph Paquet.

### 1.4 Physiography

The study area is in the eastern foothills of the Vancouver Island Range Mountains. Elevations of this rolling landscape range from 300m (in the eastern end of the claims) to 600m above sea level, on the ridge top in the southwest corner of the claims. The area is covered dominantly by regenerating second growth (post-fire) stands of Douglas Fir and Western Hemlock much of which has been recently logged. An extensive road network exists over the claim area, and access structures are generally drivable. Bedrock outcrops are intermittent and the surficial mantle of glacial origin is commonly thick except in the higher ridge side elevations on the western side of the area.

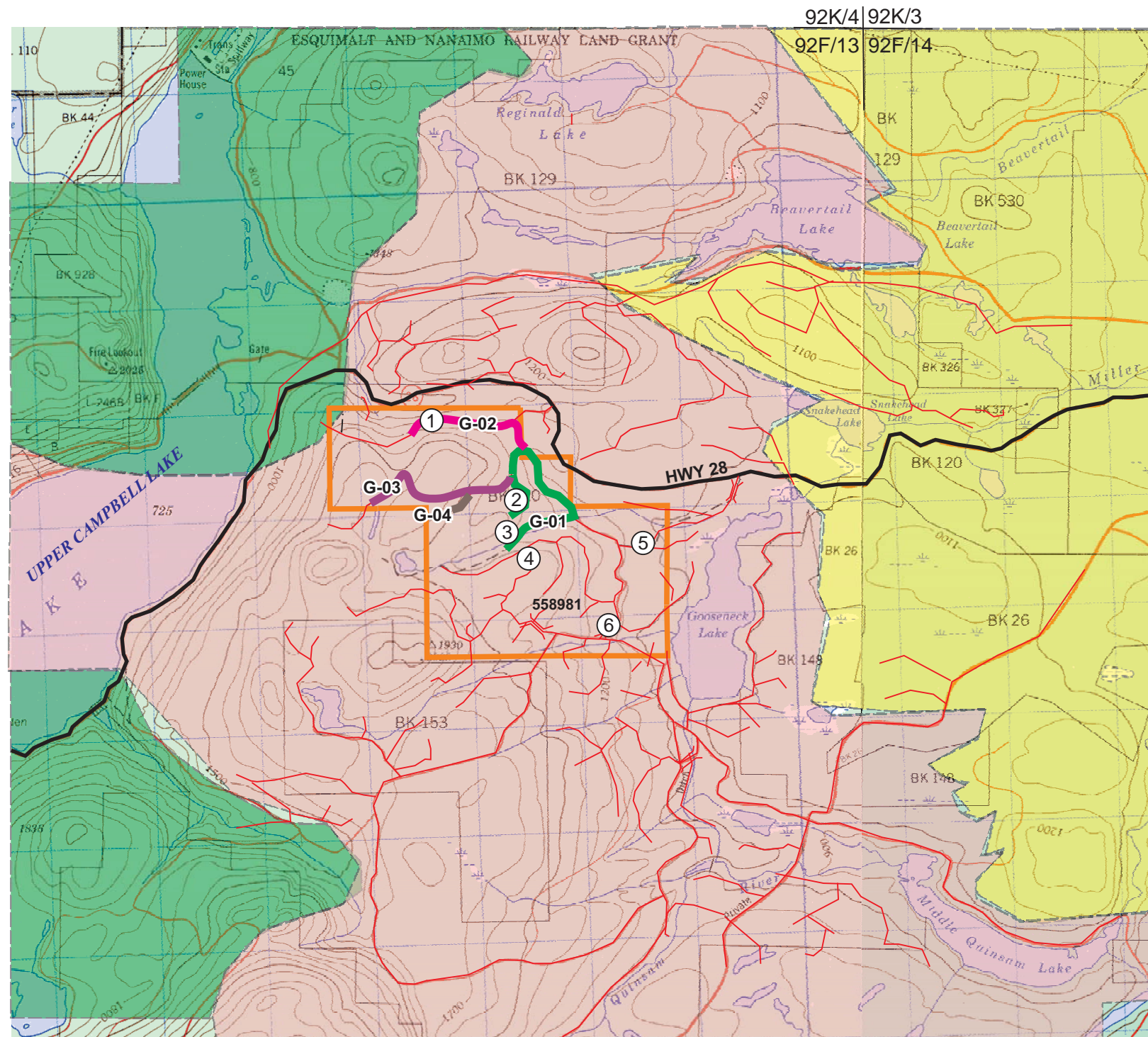
### 1.5 Climate and Vegetation

The area is covered by second growth fir and hemlock forests of the Coastal Western Hemlock Biogeoclimatic Zone in various stages of regeneration. The climate is dry maritime, with an annual precipitation of 1451mm mostly in the form of rainfall, (Environment Canada Climate Normals, 1971-2000 – Campbell River A ~21km NE). Seasonal precipitation patterns are typical of coastal British Columbia. Precipitation occurs mainly as rain, but transient snow accumulations may also occur down to sea-level, mainly between November and March.










Gooseneck Cu Property

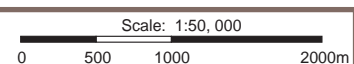


**LEGEND**

-  Early to Mid Jurassic Island Plutonic Suite granodioritic intrusive rocks
-  Upper Cretaceous Nanaimo Group sedimentary rocks
-  Lower Jurassic Bonanza Group calc-alkaline volcanic rocks
-  showings
-  Soil Line

February 10, 2012

FIGURE 3: 2011 SOIL GEOCHEM LINE and SHOWING LOCATIONS



## 1.6 Acknowledgements

The author would like to acknowledge the work of Joseph and Claude Paquet in conducting an effective survey and providing Western Gateway Minerals Inc. with supporting documentation on the survey, including GPS locations for all samples.

## 1.6 Property History

The GooseNeck Cu Property was discovered by local prospectors while driving new logging roads in the area in 2006. Grab Samples were sent in for assay by the owner-pro prospector in 2007, resulting in several Cu anomalies. The area was first visited by the author on April 21, 2009 when he became quite interested in the Cu porphyry potential for the area (fracture, veinlet and disseminated mineralization and favourable characteristic zones of alteration). Numerous prospecting visits have been undertaken over recent years, exposing several showings of interest.

## 2.0 Regional Geology & Mineralization

The regional 2005 BCGS mapping of this area (Figure 3) indicates that the GooseNeck Property lies near the centre of an Early to Middle Jurassic (200 to 170 mya) Island Intrusive Complex (EMJlgd) granodiorite-diorite body which extends over an area of approximately 15km by 10km. The intrusive complex hosts porphyry copper deposit-type mineralization. The intrusive body is associated with a "Mag High" (Figure 4).

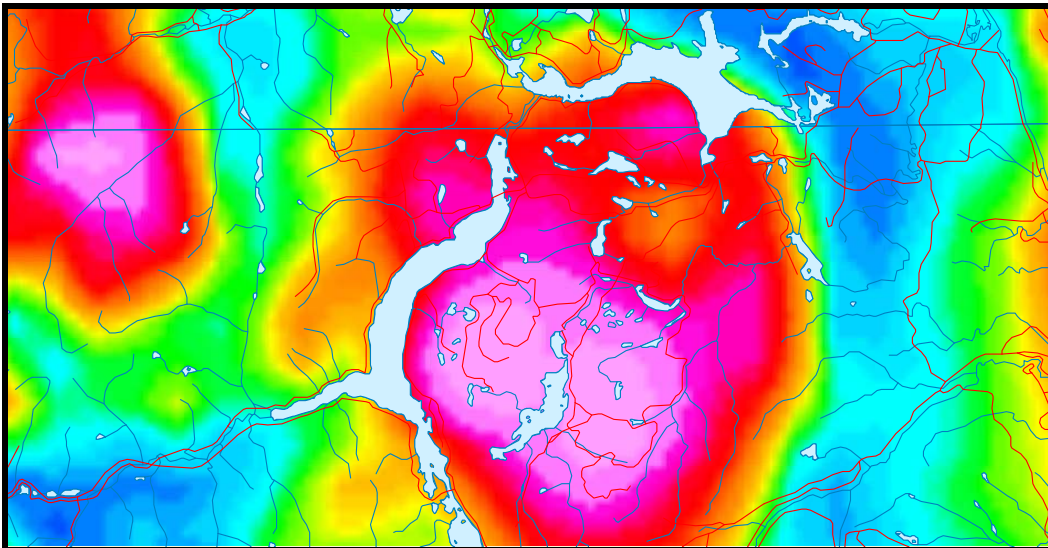


Figure 4: GooseNeck Cu Property on north side of Regional AeroMag High



The property encroaches upon Lower Jurassic (210 to 190 mya) Bonanza Group (JBca) of calc-alkaline volcanics and associated metasedimentary rocks (limestone, argillite, siltstone etc.) along its western edge, even though regional mapping indicates the property to be fully within intrusive rocks. Upper Cretaceous Nanaimo Group sedimentary rocks outcrop approximately 1km east of the claims.

Area mineral occurrences/showings/prospects surrounding the GooseNeck Claims include:

The **Bacon Lake Property** is situated west of the GooseNeck Property, on the northwest side of Upper Campbell Lake. The magnetite, gold and cobalt ± pyrite-chalcopyrite mineralization is associated with skarn lenses in Quatsino Limestone and Karmutsen volcanics west of the intrusive contact. (FJ Bakker, P.Geo., 2008). Recent discoveries of disseminated and veinlet chalcopyrite-malachite were made on the south and eastern portions of the Bacon Lake property within the intrusive.

The **Argonaut Mine** is a skarn deposit, mined for its magnetite content, but is notable for the abundance of andradite garnet crystals in the orebodies. Also of note is the occurrence of several narrow cobaltite/erythrite-bearing zones within the skarned rocks, although these are probably related to a Tertiary mineralizing event superimposed on the older Mid-Jurassic iron deposits. Significant gold values occur in the cobaltite. The open pit iron mine, which was in production from 1951 to 1957, is a few kilometers south of Gooseneck Cu Property.

The **Iron River** deposit lies SE of the GooseNeck Cu Property. Magnetite and chalcopyrite mineralization is concentrated at the north end of a northeast trending skarn zone adjacent to the quartz diorite. Normal faults offset the ore into east and west orebodies. Skarn mineralization consists of garnet, diopside, calcite, epidote, pyrite, actinolite and hematite. A grab sample from a pyrite lense with magnetite and chalcopyrite adjacent to a shear assayed 9.85 per cent copper, 750 grams per tonne silver and 47.8 per cent iron (Assessment Report 13574).

To the immediate southwest of the GooseNeck Property is **Camp Lake**, a copper-gold-magnetite mineral discovery made in 2003. Recent exploration has shown several exposures of replacement style mineralization in Triassic Karmutsen volcanics, Triassic Quatsino limestones and Jurassic Bonanza volcanics. The best drill intercept to date showed 14.6 metres of 0.057% copper, 0.015 g/t gold, and 4.74% iron. Several other similar, low grade intercepts were obtained in other holes.

The **Blue Grouse Claim** lies north of the GooseNeck Cu Property, south of Lower Campbell Lake. The geology consists of intrusives cutting through faulted segments of Bonanza and Karmutsen andesitic to basaltic volcanic rocks with much of the chalcopyrite-magnetite mineralization being in Bonanza-age (Quatsino) limestone/skarn. Humus geochemical sampling and diamond drilling (2 holes - 2002) outlined a steeply dipping skarn zone with significant copper mineralization. Induced polarization surveys were recommended to test the porphyry copper potential of the property. (CC Rennie, P.Eng. 2000, 2002)

### 3.0 Property Geology & Mineralization

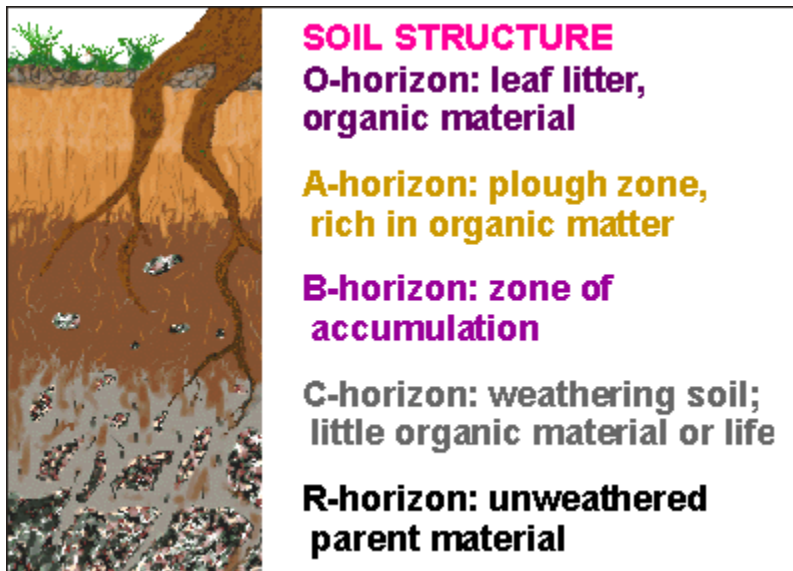
No mapping has been conducted on the property, but exposures observed to date indicate a medium crystalline granodiorite over much of the area (Figure 3). Several phases of intrusive are likely and several areas of alteration have associated Cu values of interest:

- 1) Shear zone on logging road south of Hwy. 28 in potassic altered granodiorite; chalcopryrite-malachite fracture coatings (soil line G-02).
- 2) Zone of chalcopryrite-malachite fracture coatings in altered granodiorite; on south side of ridge from showing #1 and altered zone trends 143° towards showing #4.
- 3) Zone of scattered outcrops with fracture and disseminated chalcopryrite on low side of ridge adjacent to small stream.
- 4) Andesite-basalt dyke (~10m) cuts 064° through altered granodiorite. Strongly mineralized hangingwall(?) with siliceous-calcareous bands with chalcopryrite, malachite and azurite on ridge south of stream adjacent to showing #3.
- 5) >10m wide zone of argillic alteration with minor disseminated chalcopryrite in borrow pit strikes 064° northwest of Gooseneck Lake; ridge of strong disseminated pyrite between here and lake.
- 6) Shearzone (striking 037°) west of Gooseneck Lake close to stream with anomalous regional geochemical stream Au,Cu values.

## 4.0 2011 Soil Geochemical Survey

From August 23<sup>rd</sup> to 31<sup>st</sup>, a roadside soil sampling program was conducted over Western Gateway Mineral's GooseNeck Property. The field crew consisted of Joe Paquet and Claude Paquet. 120 samples were collected at 50m spacing on the upside of selected roads within the main Gooseneck Claim. Samples were collected from the "B" Horizon where possible to attempt to maintain quality consistency of soil characteristics. All samples were taken along roads in the northern portion of the claims over areas underlain by Island Plutonic intrusive rocks and therefore will have similar threshold element backgrounds.

**Figure 5:** Soil Samples obtained from B-horizon where possible.



Soils were dried and shipped to Acme Labs in Vancouver. At the labs, samples were again dried at 60°C, sieved to a -80mesh (100g) and processed through a 1:1:1 Aqua Regia digestion ICP-ES analysis. The 32 elements analyzed for were Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, S, Sc, and Ga. The certificate of analysis was provided by Acme Labs (Appendix IV).

### Data Analysis

Of the 32 elements analyzed, 14 were found to be moderately anomalous in soils collected (Cu, Pb, Zn, Mn, Fe, Sr, V, Ca, P, Cr, Mg, Ba, Ti, and Al), so that comparisons could be made. Average values of these elements are as follows:

Cu ppm	Pb ppm	Zn ppm	Mn ppm	Fe %	Sr ppm	V ppm	Ca %	P %	Cr ppm	Mg %	Ba ppm	Ti %	Al %
11.1	9.9	49.4	1510	0.84	45.7	28.6	0.93	.06	6	0.12	155	.05	.63

Using basic statistics, 95 percentile values were determined as being "highly anomalous" relative to background and 75 percentile values were determined as being "moderately anomalous". Resultant values were determined as follows:

ELEMENT	Highly Anomalous Values 95 Percentile	Moderately Anomalous Values 75 Percentile
Cu	≥20ppm	≥14ppm
Pb	≥30ppm	≥12ppm
Zn	≥89ppm	≥61ppm
Mn	≥4907ppm	≥1761ppm
Fe	≥1.76%	≥1.29%
Sr	≥83ppm	≥54ppm
V	≥66ppm	≥43ppm
Ca	≥1.5%	≥1.15%
P	≥.095%	≥.077%
Cr	≥14ppm	≥9ppm
Mg	≥.25%	≥.15%
Ba	≥345ppm	≥195ppm
Ti	≥.121%	≥.083%
Al	≥1.37%	≥0.94%

### Element Associations

No single Cu element association trend can be singled out from the sample population. The strongest anomalous element association trend is Cu-Fe-V-Cr-Mg-Ti, with other elements creeping in and out of this association. A secondary element association is Pb-Zn-Ba, which is not consistent throughout.

### Results

Line G-01 (2.8km) consists of 56 samples along roads GRH731 and GRH700 which accesses areas of known Cu mineralization (showings 2 and 3) on the north side of N. Gooseneck Creek. As anticipated much of this line has anomalous Cu values. From 50 to 150m there are two elevated Cu-Pb-Zn-Mn-Sr-Ba samples. From 800 to 1050m moderately anomalous Cu values occur with elevated Fe-V-Cr-Mg-Ti values. The interval from 1250 to 2650m has sporadic moderate to high anomalous Cu values associated with elevated Fe-Sr-V-Cr-Mg-Ti-Al±Ba values.

Line G-02 (1.4km) consists of 29 samples taken along road GRH710 along the north claim boundary. Along this road chalcopyrite and malachite are associated with shear zones in granodiorite (showing 1). No anomalous Cu values were found in soils along this line. From 50 to 300m moderate to high anomalous Fe values were found in association with V-Cr-Mg-Ti-Al. From 750 to 1300m short intervals of moderate to highly anomalous Fe values were found in association with V-Cr-Ti ±Pb anomalies.

Line G-03 (1.45km) consists of 30 samples taken along road GRH130 across the top of a ridge. Few anomalous Cu values were encountered. From 0 to 150m high anomalous Pb-Mn values were encountered in association with elevated Zn-Ba values. From 600 to 800m moderate to high anomalies of Zn-Mn-Ba ±Pb again showed up. Moderately anomalous values of Cu occur from 1000 to 1250m in association with Zn-Mn-Fe-V-P-Cr. Another single anomalous Cu value exists at the end of the line in association with Pb-Fe-V-Cr-Ti-Al.

Line G-04 (200m) consists of 5 samples taken along GRH 732 in a ridge top area off Line G-03. One moderately anomalous Cu value was found in association with anomalous Pb-Fe-Sr-V-Cr-Mg-Ba-Ti-Al.



## 5.0 Results & Recommendations

### Discussion of Results

The 2011 soil geochemical survey over the GooseNeck Property showed generally low values of all elements, but by applying 95 and 75 percentile thresholds, the results did define an area of anomalous Cu values in soils on a south-facing ridge side north of Gooseneck Creek. This is an area with known disseminated veinlet and fracture chalcopyrite and malachite found in altered granodiorite along upper road cuts and in scattered outcrops along the ridge side (~120m long x 100m wide zone). The geochemical anomaly did succeed in extending this area further to the east where outcrops are few.

The low geochemical Cu signature over the property provides a base for anticipated background thresholds over the prospective porphyry targets on the property. No other significant results were obtained on the property through the limited 2011 soil geochemical survey.

### Recommendations

The soil sampling program on the GooseNeck Property requires expansion to the south. In addition, Induced Polarization surveys are recommended along the road systems on the property to better determine target areas. These two surveys should be in combination with "alteration mapping" and determination of intrusive phases and mineral zone definition in the area.

The purpose of near-term field exploration programs is to search for coinciding geochemical and geophysical anomalies supported by the available bedrock geology and mineralogy. Should programs be successful, subsequent exploration years would focus on diamond drilling operations. Porphyry copper deposits are generally capital intensive projects due their larger size potential vis-à-vis most mineral deposit types. As such, the GooseNeck Cu Property needs a good kick-start to promote its potential. The location of this property has inherent assets from the get-go, including proximity to an existing port (Campbell River), existing infrastructure (logging roads and highway 28), local mining operations (Nyrstar Myra Falls and Quinsam Coal) and associated transport and docking facilities.

Respectfully submitted,

**AZTEC GEOSCIENCE INC.**

Del W. Ferguson, P.Geo.

February 27, 2012

FIGURE 6: GooseNeck 2011 Soils Statistical Analysis Spreadsheet

	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Fe %	Sr PPM	V PPM	Ca %	P %	Cr PPM	Mg %	Ba PPM	Ti %	Al %
G-01-01	6	10	62	7376	0.26	27	10	0.95	0.09	2	0.06	122	0.013	0.26
G-02-01	16	12	80	4907	0.52	70	17	1.17	0.087	2	0.12	535	0.021	0.55
G-03-01	11	48	87	7376	0.41	54	17	0.97	0.091	3	0.08	395	0.02	0.39
G-04-01	22	19	91	6968	0.37	60	13	1.12	0.1	2	0.11	475	0.017	0.35
G-05-01	9	5	91	3973	0.08	58	3	1.59	0.103	0	0.11	300	0.004	0.15
G-06-01	11	25	104	3906	0.26	54	9	1.5	0.08	1	0.09	345	0.014	0.29
G-07-01	7	16	49	1761	0.32	39	14	0.94	0.066	2	0.06	193	0.02	0.24
G-08-01	6	9	26	234	0.65	23	22	0.42	0.049	3	0.05	66	0.031	0.45
G-09-01	12	12	89	2534	1.08	49	38	1.15	0.089	7	0.13	268	0.06	0.88
G-10-01	5	5	22	112	0.1	37	3	0.54	0.037	0	0.03	108	0.006	0.09
G-11-01	12	36	121	4488	0.94	72	33	1.31	0.089	7	0.13	280	0.049	0.77
G-12-01	8	12	60	3239	0.23	97	8	1.28	0.068	2	0.07	139	0.012	0.19
G-13-01	10	37	88	4735	0.35	121	12	1.5	0.08	3	0.08	292	0.017	0.33
G-14-01	10	34	74	5824	0.61	97	23	1.48	0.076	4	0.11	374	0.033	0.48
G-15-01	13	23	50	2931	1.21	83	38	1.62	0.068	9	0.1	254	0.061	0.95
G-16-01	8	6	36	610	1.36	39	50	0.7	0.06	10	0.11	94	0.092	0.99
G-17-01	15	10	62	1957	1.29	43	47	0.91	0.091	11	0.18	132	0.086	1.04
G-18-01	16	7	48	1591	1.19	47	44	0.8	0.088	10	0.18	151	0.08	0.99
G-19-01	19	11	76	1074	1.03	86	36	1.41	0.093	8	0.17	214	0.071	0.88
G-20-01	19	9	46	231	1.1	71	37	1.19	0.061	9	0.27	52	0.068	0.81
G-21-01	11	3	58	1222	0.51	43	21	1.12	0.08	5	0.11	55	0.034	0.41
G-22-01	18	2	35	438	1.39	28	52	0.63	0.055	12	0.24	33	0.104	0.86
G-23-01	8	10	35	435	1.11	47	48	0.75	0.058	7	0.1	72	0.078	0.48
G-24-01	7	6	30	298	1.61	39	71	0.7	0.041	13	0.11	50	0.117	0.67
G-25-01	12	16	53	274	0.82	59	27	0.81	0.064	8	0.09	97	0.051	0.46
G-26-01	25	3	30	286	1.91	35	74	0.79	0.062	15	0.29	42	0.143	1.08
G-27-01	29	6	55	871	1.68	45	62	1.13	0.082	14	0.29	130	0.12	1.29
G-28-01	12	6	58	864	0.41	79	15	2.04	0.102	7	0.19	248	0.021	0.4
G-29-01	22	6	46	602	1.31	45	43	0.96	0.063	12	0.26	172	0.077	1.06
G-30-01	19	4	36	624	1.71	57	66	0.98	0.059	12	0.25	116	0.115	1.2
G-31-01	17	6	57	771	1.27	42	44	0.91	0.084	10	0.19	98	0.086	1.02
G-32-01	9	2	42	511	0.51	42	20	0.78	0.06	3	0.06	115	0.036	0.35
G-33-01	14	10	66	1636	0.57	61	19	1.2	0.074	4	0.11	191	0.032	0.56
G-34-01	9	2	44	1392	0.61	54	20	0.98	0.068	4	0.08	169	0.035	0.42
G-35-01	18	6	40	712	1.57	37	54	0.75	0.067	11	0.21	82	0.093	1.35
G-36-01	9	3	41	563	0.61	32	25	0.66	0.077	6	0.07	109	0.039	0.37
G-37-01	9	2	39	723	0.69	37	26	0.73	0.061	5	0.08	100	0.046	0.38
G-38-01	14	4	34	588	1.6	47	60	0.84	0.088	12	0.17	98	0.093	1.39
G-39-01	9	2	54	1352	0.31	86	12	1.74	0.094	3	0.1	236	0.018	0.3
G-40-01	19	4	42	454	1.98	31	71	0.7	0.055	15	0.24	92	0.121	1.72
G-41-01	20	2	34	357	2.04	26	75	0.66	0.053	15	0.23	84	0.139	1.78
G-42-01	22	2	41	658	1.35	49	46	0.74	0.054	9	0.28	134	0.089	1.37
G-43-01	19	2	53	476	0.41	41	12	0.79	0.059	2	0.11	169	0.026	0.5
G-44-01	16	2	25	318	1.05	49	25	0.76	0.048	5	0.27	167	0.058	1.03
G-45-01	10	3	41	502	0.18	35	6	0.65	0.061	2	0.04	174	0.01	0.15
G-46-01	60	5	78	421	1	40	33	0.9	0.064	6	0.21	117	0.06	0.98
G-47-01	3	2	15	187	0.07	21	2	0.44	0.028	0	0.03	94	0.003	0.06

	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Fe %	Sr PPM	V PPM	Ca %	P %	Cr PPM	Mg %	Ba PPM	Ti %	Al %
G-48-01	15	15	85	1473	0.43	58	15	1.43	0.103	3	0.11	339	0.022	0.46
G-49-01	16	11	51	1241	1.39	58	54	1.42	0.053	9	0.16	236	0.098	1.01
G-50-01	16	9	61	1339	1.76	51	71	1.18	0.06	13	0.2	232	0.121	1.26
G-51-01	20	7	41	762	1.32	56	51	1.42	0.061	11	0.18	174	0.093	1.2
G-52-01	10	9	41	1991	0.3	45	12	1.4	0.077	3	0.09	159	0.022	0.32
G-53-01	16	13	79	2184	1.33	65	39	1.48	0.061	9	0.24	368	0.086	1.08
G-54-01	18	8	46	1043	1.28	30	39	0.75	0.053	8	0.11	195	0.038	0.74
G-55-01	7	4	63	1579	0.29	48	8	1.34	0.082	2	0.09	298	0.013	0.34
G-56-01	6	5	69	988	0.05	60	2	1.47	0.091	1	0.07	247	0.002	0.08

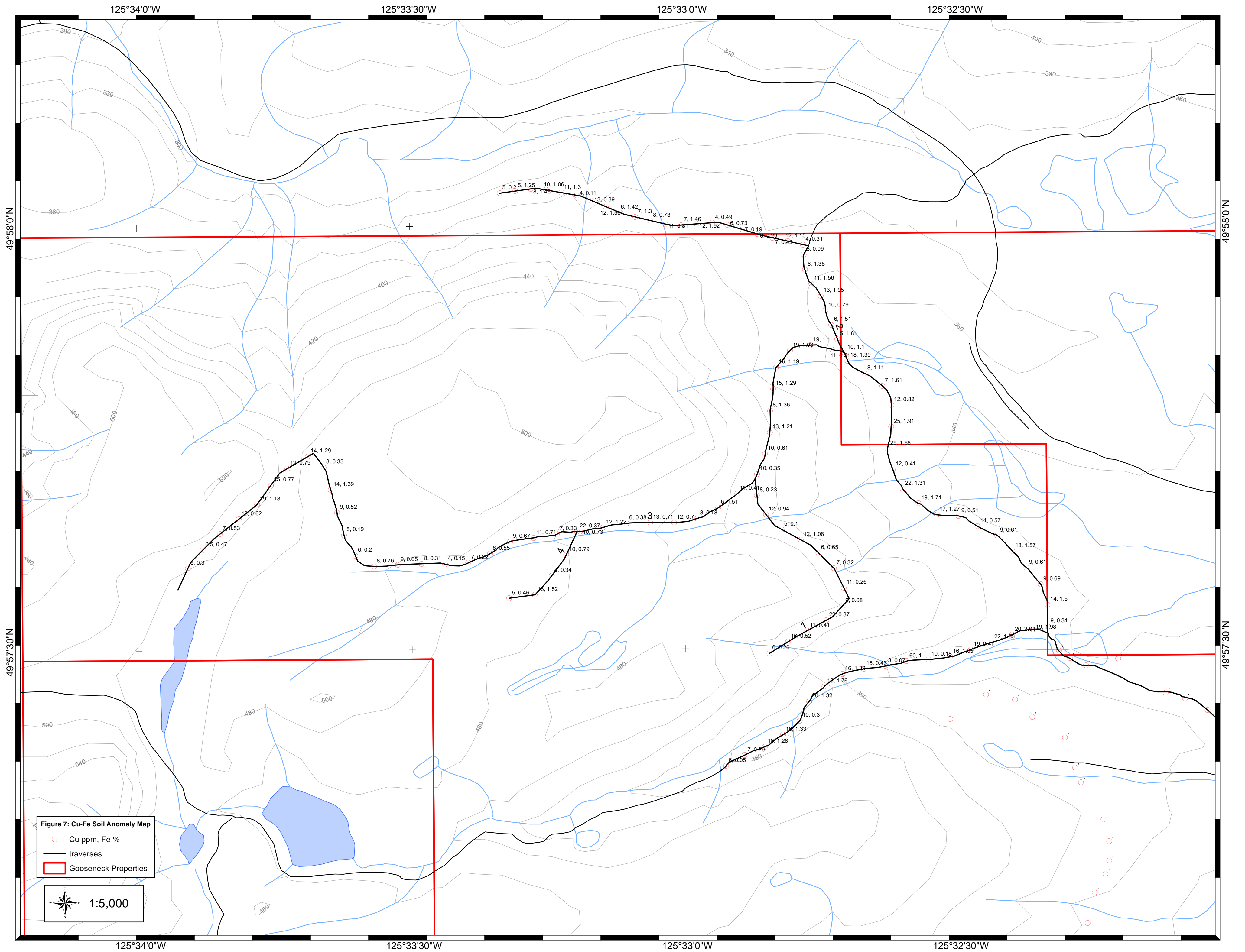
	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Fe %	Sr PPM	V PPM	Ca %	P %	Cr PPM	Mg %	Ba PPM	Ti %	Al %
G-01-02	10	5	29	427	1.1	43	34	0.84	0.06	8	0.17	64	0.079	0.94
G-02-02	5	7	17	233	1.81	25	78	0.48	0.024	10	0.08	30	0.147	0.6
G-03-02	6	7	18	461	1.51	32	58	0.55	0.027	9	0.09	50	0.111	0.62
G-04-02	10	12	60	840	0.79	60	26	1	0.061	6	0.13	204	0.055	0.67
G-05-02	13	4	24	399	1.95	30	63	0.64	0.049	14	0.22	57	0.149	1.6
G-06-02	11	13	55	1191	1.56	56	51	1.08	0.064	11	0.15	188	0.118	1.17
G-07-02	6	5	55	460	1.38	36	57	0.7	0.036	9	0.1	57	0.147	0.76
G-08-02	3	9	24	147	0.09	38	3	0.66	0.03	1	0.03	80	0.005	0.08
G-09-02	4	4	13	115	0.31	19	10	0.31	0.023	2	0.03	55	0.022	0.21
G-10-02	12	6	30	262	1.15	48	32	0.89	0.046	7	0.25	62	0.059	1.06
G-11-02	7	15	25	203	0.43	42	14	0.61	0.031	3	0.04	101	0.024	0.22
G-12-02	6	4	44	1011	0.29	53	11	1.19	0.083	3	0.08	101	0.019	0.29
G-13-02	7	25	36	134	0.19	36	7	0.71	0.061	1	0.03	95	0.018	0.13
G-14-02	6	19	36	1189	0.73	43	20	0.85	0.046	4	0.06	157	0.053	0.36
G-15-02	4	12	21	374	0.49	29	16	0.58	0.021	3	0.05	71	0.034	0.25
G-16-02	12	16	61	1161	1.92	38	52	0.9	0.065	11	0.19	133	0.119	1.45
G-17-02	7	12	46	966	1.46	53	46	0.98	0.052	6	0.13	167	0.096	0.89
G-18-02	11	23	62	1607	0.81	67	24	1.37	0.053	4	0.09	314	0.041	0.55
G-19-02	8	7	42	640	0.73	42	21	0.86	0.056	4	0.11	151	0.046	0.57
G-20-02	7	6	22	513	1.3	37	39	0.87	0.042	8	0.13	106	0.097	0.72
G-21-02	6	8	40	757	1.42	43	45	0.95	0.033	6	0.11	146	0.105	0.71
G-22-02	12	30	39	669	1.56	44	41	0.63	0.078	8	0.13	175	0.101	1.15
G-23-02	13	30	45	561	0.89	47	23	0.95	0.044	5	0.07	200	0.051	0.65
G-24-02	4	16	43	196	0.11	48	4	0.81	0.033	1	0.04	140	0.009	0.1
G-25-02	11	12	29	393	1.3	39	40	0.72	0.034	9	0.14	95	0.097	1
G-26-02	10	5	40	1238	1.06	76	34	1.22	0.069	8	0.15	132	0.071	0.72
G-27-02	8	7	39	1620	1.46	32	43	0.65	0.053	9	0.13	95	0.102	1
G-28-02	5	7	39	502	1.25	47	42	0.85	0.044	7	0.08	63	0.09	0.52
G-29-02	5	12	25	274	0.2	64	6	0.72	0.037	2	0.05	64	0.014	0.14

	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Fe %	Sr PPM	V PPM	Ca %	P %	Cr PPM	Mg %	Ba PPM	Ti %	Al %
G-03-01	5	17	46	5238	0.25	45	7	0.85	0.048	2	0.06	94	0.015	0.23
G-03-02	8	40	65	6184	0.71	65	21	1.24	0.059	4	0.09	278	0.046	0.47
G-03-03	3	6	14	596	0.18	19	5	0.34	0.021	2	0.03	43	0.013	0.13
G-03-04	12	36	85	2290	0.7	57	25	1.26	0.057	4	0.1	651	0.04	0.65
G-03-05	13	3	58	1146	0.71	47	24	0.91	0.069	29	0.11	150	0.039	0.63
G-03-06	6	4	45	1440	0.38	28	12	0.69	0.05	3	0.05	98	0.021	0.26
G-03-07	12	6	47	713	1.22	30	43	0.64	0.055	9	0.14	98	0.071	0.88
G-03-08	10	19	57	1346	0.73	30	25	0.83	0.06	5	0.09	106	0.037	0.69
G-03-09	7	6	38	1026	0.33	52	11	1.22	0.07	2	0.09	182	0.017	0.27
G-03-10	11	16	59	3065	0.71	42	21	0.88	0.078	4	0.09	256	0.032	0.43
G-03-11	9	2	51	1867	0.67	34	23	0.89	0.086	5	0.09	151	0.036	0.53
G-03-12	8	11	53	2385	0.55	36	20	0.98	0.062	3	0.07	228	0.027	0.28
G-03-13	7	5	76	3395	0.22	40	6	1.13	0.085	1	0.08	306	0.008	0.21
G-03-14	4	3	29	472	0.15	23	4	0.37	0.028	0	0.05	74	0.006	0.14
G-03-15	8	9	92	4234	0.31	41	11	1.01	0.075	2	0.09	251	0.015	0.22
G-03-16	9	18	75	2061	0.65	38	24	1.06	0.067	4	0.08	148	0.036	0.4
G-03-17	8	10	61	2765	0.76	34	25	0.83	0.058	5	0.07	214	0.039	0.49
G-03-18	6	4	20	347	0.2	21	5	0.43	0.029	0	0.05	33	0.006	0.24
G-03-19	5	5	57	3899	0.19	30	5	0.7	0.056	1	0.04	194	0.008	0.17
G-03-20	9	8	67	2978	0.52	46	17	1.03	0.111	3	0.11	210	0.021	0.46
G-03-21	14	12	49	1556	1.39	51	52	1.35	0.077	11	0.16	162	0.082	1.36
G-03-22	8	3	34	679	0.33	30	12	0.59	0.065	2	0.04	102	0.021	0.2
G-03-23	14	2	53	2432	1.29	36	43	0.93	0.095	10	0.14	102	0.08	1.13
G-03-24	12	3	120	1232	0.79	92	11	1.53	0.075	3	0.2	40	0.017	0.37
G-03-25	15	2	60	2007	0.77	33	21	1.2	0.109	6	0.11	69	0.037	0.55
G-03-26	19	9	74	2091	1.18	44	36	0.95	0.074	9	0.1	125	0.064	0.87
G-03-27	13	6	64	1748	0.62	44	20	0.9	0.071	5	0.09	69	0.029	0.39
G-03-28	7	5	42	1068	0.53	29	12	0.66	0.052	3	0.06	60	0.02	0.35
G-03-29	0.5	2	11	1354	0.47	21	2	0.48	0.002	0	0.04	30	0.025	0.33
G-03-30	6	6	47	1444	0.3	38	11	0.69	0.047	2	0.05	58	0.015	0.17
G-04-01	8	3	26	441	0.56	26	20	0.62	0.035	5	0.08	64	0.034	0.52
G-04-02	5	3	27	1115	0.8	28	40	0.54	0.042	9	0.09	60	0.059	0.46
G-04-03	4	2	29	518	0.34	33	13	0.55	0.04	3	0.05	84	0.019	0.25
G-04-04	18	14	33	1167	1.52	29	54	0.7	0.077	14	0.2	85	0.083	1.95
G-04-05	5	2	25	369	0.46	21	18	0.37	0.031	3	0.05	67	0.025	0.3

**GooseNeck Soil Statistics Summary**

	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Fe %	Sr PPM	V PPM	Ca %	P %	Cr PPM	Mg %	Ba PPM	Ti %	Al %
SUM	1337	1188	5928	181173	101	5485	3433	112	7	723	14	18576	6	75
AVG	11.14	9.90	49.40	1509.78	0.84	45.71	28.61	0.93	0.06	6.03	0.12	154.80	0.05	0.63
25%	7	4	34	461	0.35	33	12	0.7	0.048	3	0.07	80	0.02	0.29
50%	10	7	46	1011	0.71	43	23	0.88	0.061	5	0.1	125	0.039	0.5
75%	14	12	61	1761	1.29	54	43	1.15	0.077	9	0.15	195	0.083	0.94
95%	20	30	89	4907	1.76	83	66	1.5	0.095	14	0.25	345	0.121	1.37





5, 0.2 5, 1.25 10, 1.06 11, 1.3 4, 0.11 8, 1.36 13, 0.89 6, 1.42 7, 1.3 8, 0.73 7, 1.46 4, 0.49 14, 0.61 12, 1.92 6, 0.73 7, 0.19 6, 0.29 12, 1.19 0.31 7, 0.48 3, 0.09 6, 1.38 11, 1.56 13, 1.95 10, 0.79 6, 1.51 5, 1.81 19, 1.1 19, 1.09 10, 1.1 11, 1.3 118, 1.39 8, 1.11 7, 1.61 12, 0.82 25, 1.91 29, 1.68 12, 0.41 22, 1.31 19, 1.71 17, 1.27 9, 0.51 14, 0.57 9, 0.61 18, 1.57 9, 0.61 9, 0.69 14, 1.6 9, 0.31 9, 0.19 9, 98

14, 1.29 12, 0.79 8, 0.33 5, 0.77 14, 1.39 19, 1.18 9, 0.52 12, 0.62 7, 0.53 7, 0.47 5, 0.3 5, 0.3 8, 0.76 9, 0.65 8, 0.31 4, 0.15 7, 0.22 8, 0.55 10, 0.79 10, 0.71 7, 0.33 22, 0.37 12, 1.22 6, 0.38 13, 0.71 12, 0.7 3, 0.18 6, 1.51 11, 0.4 18, 0.23 12, 0.94 5, 0.1 12, 1.08 6, 0.65 7, 0.32 11, 0.26 2, 0.08 22, 0.37 11, 0.41 6, 0.26 16, 0.52 16, 1.30 15, 0.43 3, 0.07 60, 1 10, 0.18 16, 1.05 18, 1.76 50, 1.32 10, 0.3 16, 1.33 16, 1.28 7, 0.29 6, 0.05 18, 1.28

19, 1.1 11, 1.3 118, 1.39 8, 1.11 7, 1.61 12, 0.82 25, 1.91 29, 1.68 12, 0.41 22, 1.31 19, 1.71 17, 1.27 9, 0.51 14, 0.57 9, 0.61 18, 1.57 9, 0.61 9, 0.69 14, 1.6 9, 0.31 9, 0.19 9, 98

## APPENDIX I STATEMENT OF QUALIFICATIONS

I, Delbert Wells Ferguson, of Comox, Province of British Columbia, do hereby state that:

I am a practicing Geoscientist.

I have practiced my profession for over 33years throughout Canada and mostly in British Columbia.

I am a Fellow Member of the Geological Association of Canada (GAC).

I am a Professional Geoscientist, registered with the Association of Engineers and Geoscientists of British Columbia.

I received an Honours B.Sc. Degree in Geology from the University of Western Ontario, London, Ontario, Canada in 1979.

This report was prepared by myself, based on property visits, prospecting and researched historical data on the area surrounding the Gooseneck Property and mapping and statistical analysis of 2011 soil Geochemical results.

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Delbert Wells Ferguson, P.Geo., FGAC

Dated: February 17, 2012

## APPENDIX II: STATEMENT OF COSTS

### GOOSENECK LAKE SOIL SAMPLING PROJECT - 2011

<u>Field Sampling</u>	Personnel	Rate	Days	Total
	2	300	3	1,800.00
Sample drying, packaging, shipping	1	400	1	400.00
<u>Expenses</u>				469.58
Bags, Ribbon, Tags, Mileage Charge, Shipping Charge				
<u>Analysis</u>	Soil Samples	Cost/sample		
Acme Labs	120	11.58		1,389.60
<u>Reporting &amp; Mapping</u>	Geologist	Days	Assistant	Days
	500	3	400	1
				1,900.00
<b>Total</b>				<b>5,959.18</b>

## APPENDIX III Reference Material

### Local Prospecting

- Prospecting Report-Mid-Island Copper Claims, Twin Lake Resources, June 2010

### Regional Showings, Prospects, Mines

- Iron Hill/Argonaut Mine: Minfile # 092F 075
- Bold: Minfile #092F 234; ARIS Reports 13003, 13722
- Jentin: Minfile #092F 194; ARIS Reports 10866, 12637
- Sihun Creek: Minfile 092F 198; ARIS Report 18870
- Iron River: Minfile 092F 076; ARIS Reports 05300, 13574, 24089, 24440
- East Gorge/Upper Oyster: Minfile # 092F 197; ARIS Reports 11199, 11461, 13602
- Camp Lake Property – Technical Report – 2004 Field Exploration & 2005 Airborne Geophysical, for Bluerock Resources, Gilson and Houle, August 18, 2005 Revision; Minfile #092F 571; ARIS Reports 27717A, 27717B



**APPENDIX IV  
ACME LABS CERTIFICATE OF ANALYSIS**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Western Gateway Minerals

Suite 47 - 1160 Shellbourne Blvd.
Campbell River BC V9W 5G5 Canada

Submitted By: Joseph L Paquet
Receiving Lab: Canada-Vancouver
Received: September 02, 2011
Report Date: October 25, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN11004800.1

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: Western Gateway Minerals Inc.
6286 McCleery St.
Vancouver BC V6N 1G4
Canada

CC:

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, 1D01.

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.



Acme Analytical Laboratories (Vancouver) Ltd.  
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Client: **Western Gateway Minerals**  
 Suite 47 - 1160 Shellbourne Blvd.  
 Campbell River BC V9W 5G5 Canada

Project: None Given  
 Report Date: October 25, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
B-01-7	Soil			<1	6	8	66	<0.3	4	2	7561	0.32	<2	<2	<2	43	<0.5	<3	<3	10	0.97	0.091	<1
B-02-7	Soil			<1	9	34	89	<0.3	7	5	>10000	1.07	<2	<2	<2	40	<0.5	<3	<3	31	0.88	0.103	1
B-03-7	Soil			<1	10	25	103	<0.3	5	4	>10000	0.68	<2	<2	<2	54	<0.5	<3	<3	21	1.00	0.093	1
B-04-7	Soil			<1	11	22	235	<0.3	5	3	8557	0.67	<2	<2	<2	51	1.3	<3	<3	20	1.46	0.082	<1
B-01-8	Soil			<1	10	7	60	<0.3	5	3	2480	0.82	2	<2	<2	102	<0.5	<3	<3	28	1.67	0.063	<1
B-02-8	Soil			<1	11	15	54	<0.3	6	5	3710	1.08	2	<2	<2	72	<0.5	<3	<3	34	1.25	0.055	1
B-03-8	Soil			<1	6	4	57	<0.3	2	1	1976	0.19	3	<2	<2	40	<0.5	<3	<3	6	0.93	0.098	<1
B-04-8	Soil			<1	10	8	60	<0.3	4	3	2980	0.68	6	<2	<2	112	<0.5	<3	<3	21	1.37	0.091	<1
B-05-8	Soil			<1	17	4	44	<0.3	6	6	760	1.64	9	<2	<2	50	<0.5	<3	<3	54	0.94	0.062	1
B-06-8	Soil			1	8	<3	103	<0.3	3	2	901	0.43	5	<2	<2	80	2.1	<3	<3	15	2.68	0.086	<1
B-07-8	Soil			<1	7	4	64	<0.3	2	1	2918	0.21	3	<2	<2	119	<0.5	<3	<3	6	1.67	0.064	<1
B-08-8	Soil			<1	8	9	33	<0.3	3	1	3014	0.31	3	<2	<2	83	<0.5	<3	<3	10	1.29	0.053	<1
B-01-9	Soil			<1	20	26	183	<0.3	8	6	2132	1.09	<2	<2	<2	69	1.8	<3	<3	28	2.46	0.070	1
B-02-9	Soil			<1	9	13	122	<0.3	3	2	3141	0.32	<2	<2	<2	89	1.3	<3	<3	9	2.02	0.086	<1
B-03-9	Soil			<1	13	17	102	<0.3	4	3	2879	0.76	<2	<2	<2	99	0.9	<3	<3	16	1.96	0.064	<1
B-04-9	Soil			<1	14	13	271	<0.3	5	5	3608	0.88	<2	<2	<2	133	2.1	<3	<3	22	2.91	0.080	<1
B-05-9	Soil			<1	9	10	334	<0.3	4	3	4050	0.59	<2	<2	<2	119	1.0	<3	<3	14	1.86	0.098	<1
B-06-9	Soil			<1	14	10	193	<0.3	6	6	2656	1.51	<2	<2	<2	151	<0.5	<3	<3	37	2.16	0.075	1
B-07-9	Soil			<1	14	14	134	<0.3	4	4	1567	0.84	<2	<2	<2	86	<0.5	<3	<3	20	1.42	0.051	1
B-08-9	Soil			<1	6	8	35	<0.3	2	2	1396	0.53	<2	<2	<2	65	<0.5	<3	<3	13	0.81	0.026	<1
B-09-9	Soil			<1	8	8	36	<0.3	4	3	1996	1.08	<2	<2	<2	83	<0.5	<3	<3	27	1.23	0.058	2
B-10-9	Soil			<1	62	5	233	<0.3	12	10	823	2.53	6	<2	<2	81	0.9	<3	<3	94	2.15	0.036	2
B-11-9	Soil			<1	7	<3	63	<0.3	3	2	3337	0.61	<2	<2	<2	148	<0.5	<3	<3	17	2.23	0.089	<1
B-12-9	Soil			<1	4	<3	26	<0.3	<1	<1	1569	0.12	<2	<2	<2	55	<0.5	<3	<3	3	0.96	0.039	<1
B-13-9	Soil			<1	25	4	21	<0.3	6	4	1598	0.90	2	<2	<2	58	<0.5	<3	<3	34	1.74	0.032	<1
B-14-9	Soil			<1	7	15	41	<0.3	3	<1	1872	0.27	<2	<2	<2	64	<0.5	<3	<3	9	1.53	0.077	1
B-15-9	Soil			1	11	5	30	<0.3	3	3	1358	0.68	<2	<2	<2	59	<0.5	<3	<3	23	1.17	0.037	<1
B-16-9	Soil			<1	20	22	176	<0.3	12	8	6172	1.65	6	<2	<2	156	0.9	<3	<3	49	2.29	0.115	2
B-17-9	Soil			1	20	29	304	<0.3	11	7	4096	1.59	18	<2	<2	126	1.9	<3	<3	31	3.54	0.107	4
B-18-9	Soil			<1	16	5	84	<0.3	4	4	396	0.83	5	<2	<2	98	1.1	<3	<3	26	2.58	0.063	<1

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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**Client:** Western Gateway Minerals  
 Suite 47 - 1160 Shellbourne Blvd.  
 Campbell River BC V9W 5G5 Canada

**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 2 of 7 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S	1D Sc	1D Ga
				ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
B-01-7	Soil			3	0.08	191	0.017	<20	0.24	<0.01	0.08	<2	0.09	<5	<5
B-02-7	Soil			7	0.12	242	0.063	<20	0.73	0.01	0.08	<2	0.09	<5	<5
B-03-7	Soil			5	0.11	354	0.048	<20	0.57	0.01	0.08	<2	0.10	<5	<5
B-04-7	Soil			5	0.12	244	0.046	<20	0.51	0.01	0.08	<2	0.09	<5	<5
B-01-8	Soil			7	0.16	138	0.063	<20	0.58	<0.01	0.06	<2	0.10	<5	<5
B-02-8	Soil			7	0.19	186	0.079	<20	0.76	0.01	0.05	<2	0.06	<5	<5
B-03-8	Soil			2	0.07	67	0.009	<20	0.17	<0.01	0.08	<2	0.10	<5	<5
B-04-8	Soil			4	0.15	140	0.037	<20	0.64	0.01	0.11	<2	0.10	<5	<5
B-05-8	Soil			10	0.26	42	0.123	<20	1.30	0.01	0.09	<2	0.07	<5	<5
B-06-8	Soil			3	0.17	52	0.037	<20	0.35	<0.01	0.09	<2	0.13	<5	<5
B-07-8	Soil			1	0.10	167	0.011	<20	0.23	<0.01	0.06	<2	0.10	<5	<5
B-08-8	Soil			2	0.09	117	0.018	<20	0.25	<0.01	0.05	<2	0.08	<5	<5
B-01-9	Soil			10	0.29	74	0.070	<20	0.74	0.02	0.05	<2	0.13	<5	<5
B-02-9	Soil			2	0.14	88	0.018	<20	0.26	<0.01	0.07	<2	0.13	<5	<5
B-03-9	Soil			4	0.20	132	0.036	<20	0.45	<0.01	0.06	<2	0.09	<5	<5
B-04-9	Soil			5	0.20	173	0.052	<20	0.55	<0.01	0.07	<2	0.09	<5	<5
B-05-9	Soil			3	0.18	160	0.037	<20	0.43	<0.01	0.08	<2	0.11	<5	<5
B-06-9	Soil			8	0.25	163	0.105	<20	0.87	<0.01	0.04	<2	0.07	<5	<5
B-07-9	Soil			4	0.13	109	0.062	<20	0.49	<0.01	0.06	<2	0.08	<5	<5
B-08-9	Soil			3	0.08	64	0.044	<20	0.37	<0.01	0.02	<2	<0.05	<5	<5
B-09-9	Soil			6	0.19	89	0.080	<20	0.65	<0.01	0.04	<2	0.08	<5	<5
B-10-9	Soil			16	0.58	41	0.211	<20	2.21	0.03	0.03	<2	0.05	7	<5
B-11-9	Soil			3	0.15	176	0.040	<20	0.42	<0.01	0.09	<2	0.11	<5	<5
B-12-9	Soil			<1	0.08	52	0.008	<20	0.10	<0.01	0.03	<2	0.08	<5	<5
B-13-9	Soil			7	0.14	40	0.093	<20	0.95	<0.01	0.02	<2	<0.05	<5	<5
B-14-9	Soil			2	0.09	40	0.018	<20	0.20	<0.01	0.07	<2	0.10	<5	27
B-15-9	Soil			5	0.13	29	0.077	<20	0.62	<0.01	0.03	<2	0.05	<5	<5
B-16-9	Soil			14	0.32	175	0.110	<20	1.14	0.01	0.07	2	0.08	<5	<5
B-17-9	Soil			8	0.35	84	0.074	<20	1.46	0.01	0.09	<2	0.09	<5	<5
B-18-9	Soil			6	0.21	20	0.049	<20	0.60	0.01	0.04	<2	0.11	<5	<5

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Project: None Given  
 Report Date: October 25, 2011

Page: 3 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
B-01-10	Soil			<1	10	6	65	<0.3	4	2	2133	0.50	<2	<2	<2	84	<0.5	<3	<3	20	1.57	0.075	<1
B-02-10	Soil			<1	13	5	66	<0.3	6	4	2258	0.78	<2	<2	<2	88	<0.5	<3	<3	29	1.55	0.072	<1
B-03-10	Soil			<1	22	5	24	<0.3	7	6	1710	0.94	<2	<2	<2	62	<0.5	<3	<3	42	1.32	0.067	2
B-04-10	Soil			<1	15	<3	63	<0.3	6	5	794	0.73	<2	<2	<2	46	<0.5	<3	<3	27	1.56	0.058	<1
B-05-10	Soil			<1	4	5	20	<0.3	2	<1	442	0.13	<2	<2	<2	6	<0.5	<3	<3	5	0.31	0.057	<1
B-06-10	Soil			<1	21	<3	54	<0.3	7	6	711	1.20	<2	<2	<2	87	<0.5	<3	<3	39	1.34	0.076	1
B-07-10	Soil			<1	12	<3	57	<0.3	4	1	2383	0.18	<2	<2	<2	54	<0.5	<3	<3	7	1.48	0.110	<1
B-08-10	Soil			<1	33	5	69	<0.3	16	7	2017	2.85	<2	<2	<2	44	<0.5	<3	<3	127	1.62	0.102	1
B-09-10	Soil			<1	24	4	43	<0.3	11	6	1189	1.42	<2	<2	<2	34	<0.5	<3	<3	64	1.28	0.105	1
B-10-10	Soil			<1	11	4	50	<0.3	7	2	5543	0.53	<2	<2	<2	24	<0.5	<3	<3	24	1.88	0.099	1
B-11-10	Soil			<1	17	5	49	<0.3	9	4	1738	1.35	<2	<2	<2	34	<0.5	<3	<3	63	1.68	0.095	<1
B-12-10	Soil			<1	10	8	59	<0.3	5	2	3123	0.91	3	<2	<2	53	<0.5	<3	<3	47	1.75	0.076	<1
B-13-10	Soil			<1	9	7	39	<0.3	4	<1	1616	0.30	<2	<2	<2	34	<0.5	<3	<3	13	1.17	0.075	<1
B-01-11	Soil			<1	9	3	45	<0.3	4	2	4260	0.28	<2	<2	<2	20	<0.5	<3	<3	11	0.89	0.088	<1
B-02-11	Soil			<1	7	5	36	<0.3	3	2	4014	0.36	<2	<2	<2	22	<0.5	<3	<3	16	0.71	0.092	<1
B-03-11	Soil			<1	8	<3	27	<0.3	2	<1	591	0.10	<2	<2	<2	15	<0.5	<3	<3	4	0.64	0.074	<1
B-04-11	Soil			<1	8	7	53	<0.3	3	2	3123	0.40	<2	<2	<2	26	<0.5	<3	<3	16	0.60	0.106	<1
B-05-11	Soil			<1	8	4	50	<0.3	3	2	1522	0.29	<2	<2	<2	24	<0.5	<3	<3	12	0.94	0.055	<1
B-06-11	Soil			<1	14	4	299	<0.3	4	7	1172	0.43	<2	<2	<2	72	0.5	<3	<3	17	2.37	0.074	<1
B-07-11	Soil			<1	10	6	33	<0.3	5	3	1268	0.70	<2	<2	<2	35	<0.5	<3	<3	30	0.80	0.087	<1
B-08-11	Soil			<1	12	3	45	<0.3	5	4	1667	0.68	<2	<2	<2	84	<0.5	<3	<3	31	1.57	0.105	<1
B-09-11	Soil			<1	21	12	40	<0.3	8	6	1384	1.84	5	<2	<2	97	<0.5	<3	<3	77	1.27	0.051	2
B-10-11	Soil			<1	18	<3	70	<0.3	6	4	1680	0.91	5	<2	<2	105	<0.5	<3	<3	36	1.56	0.100	1
B-11-11	Soil			<1	18	6	97	<0.3	9	7	1747	1.26	3	<2	<2	91	<0.5	<3	<3	52	1.30	0.071	2
B-12-11	Soil			<1	6	<3	38	<0.3	5	1	3430	0.20	<2	<2	<2	33	<0.5	<3	<3	8	1.99	0.081	<1
B-13-11	Soil			<1	13	6	32	<0.3	7	3	1059	1.43	<2	<2	<2	19	<0.5	<3	<3	72	1.02	0.064	<1
G-01-01	Soil			<1	6	10	62	<0.3	3	1	7376	0.26	2	<2	<2	27	0.6	<3	<3	10	0.95	0.090	<1
G-02-01	Soil			<1	16	12	80	<0.3	3	2	4907	0.52	3	<2	<2	70	<0.5	<3	<3	17	1.17	0.087	1
G-03-01	Soil			<1	11	48	87	<0.3	4	2	7376	0.41	5	<2	<2	54	<0.5	<3	<3	17	0.97	0.091	1
G-04-01	Soil			<1	22	19	91	<0.3	4	1	6968	0.37	<2	<2	<2	60	<0.5	<3	<3	13	1.12	0.100	1

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**Project:** None Given  
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**Page:** 3 of 7 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S	1D Sc	1D Ga
				ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
B-01-10	Soil			3	0.14	70	0.040	<20	0.34	<0.01	0.05	<2	0.11	<5	<5
B-02-10	Soil			6	0.21	94	0.066	<20	0.58	<0.01	0.04	<2	0.12	<5	<5
B-03-10	Soil			6	0.23	116	0.116	<20	0.64	<0.01	0.05	<2	0.11	<5	<5
B-04-10	Soil			5	0.20	29	0.077	<20	0.55	<0.01	0.06	<2	0.13	<5	<5
B-05-10	Soil			1	0.03	7	0.012	<20	0.12	<0.01	0.06	<2	0.11	<5	<5
B-06-10	Soil			8	0.25	46	0.097	<20	0.97	<0.01	0.07	4	0.10	<5	<5
B-07-10	Soil			1	0.14	93	0.014	<20	0.14	<0.01	0.11	<2	0.10	<5	<5
B-08-10	Soil			39	0.27	67	0.281	<20	1.83	<0.01	0.08	<2	0.08	<5	6
B-09-10	Soil			13	0.21	40	0.147	<20	1.09	<0.01	0.06	<2	0.11	<5	<5
B-10-10	Soil			5	0.21	47	0.054	<20	0.38	<0.01	0.10	<2	0.12	<5	<5
B-11-10	Soil			14	0.19	56	0.149	<20	0.77	<0.01	0.13	<2	0.10	<5	<5
B-12-10	Soil			9	0.14	60	0.097	<20	0.41	<0.01	0.06	<2	0.11	<5	<5
B-13-10	Soil			3	0.11	52	0.023	<20	0.22	<0.01	0.06	<2	0.15	<5	<5
B-01-11	Soil			2	0.10	22	0.014	<20	0.22	<0.01	0.08	<2	0.13	<5	<5
B-02-11	Soil			3	0.13	17	0.021	<20	0.25	<0.01	0.09	<2	0.11	<5	<5
B-03-11	Soil			<1	0.05	9	0.006	<20	0.07	<0.01	0.08	<2	0.12	<5	<5
B-04-11	Soil			2	0.07	37	0.018	<20	0.28	<0.01	0.10	<2	0.13	<5	<5
B-05-11	Soil			3	0.08	20	0.020	<20	0.21	<0.01	0.03	<2	0.10	<5	<5
B-06-11	Soil			2	0.31	26	0.021	<20	0.33	<0.01	0.07	<2	0.16	<5	<5
B-07-11	Soil			5	0.11	27	0.048	<20	0.45	<0.01	0.08	<2	0.13	<5	<5
B-08-11	Soil			5	0.16	60	0.043	<20	0.55	<0.01	0.10	<2	0.12	<5	<5
B-09-11	Soil			14	0.35	48	0.128	<20	1.32	0.02	0.08	<2	0.07	<5	<5
B-10-11	Soil			6	0.28	67	0.056	<20	0.75	<0.01	0.11	<2	0.11	<5	<5
B-11-11	Soil			8	0.30	80	0.066	<20	1.04	0.02	0.07	<2	0.11	<5	<5
B-12-11	Soil			<1	0.10	21	0.010	<20	0.17	0.01	0.06	<2	0.11	<5	<5
B-13-11	Soil			16	0.14	14	0.151	<20	0.65	<0.01	0.06	<2	0.10	<5	<5
G-01-01	Soil			2	0.06	122	0.013	<20	0.26	<0.01	0.07	<2	0.12	<5	<5
G-02-01	Soil			2	0.12	535	0.021	<20	0.55	<0.01	0.10	<2	0.11	<5	<5
G-03-01	Soil			3	0.08	395	0.020	<20	0.39	0.01	0.09	<2	0.12	<5	<5
G-04-01	Soil			2	0.11	475	0.017	<20	0.35	<0.01	0.08	<2	0.12	<5	<5

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Project: None Given  
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Page: 4 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
G-05-01	Soil			<1	9	5	91	<0.3	3	<1	3973	0.08	<2	<2	<2	58	<0.5	<3	<3	3	1.59	0.103	<1
G-06-01	Soil			<1	11	25	104	<0.3	3	1	3906	0.26	3	<2	<2	54	<0.5	<3	<3	9	1.50	0.080	<1
G-07-01	Soil			<1	7	16	49	<0.3	2	<1	1761	0.32	2	<2	<2	39	<0.5	<3	<3	14	0.94	0.066	<1
G-08-01	Soil			<1	6	9	26	<0.3	3	1	234	0.65	3	<2	<2	23	<0.5	<3	<3	22	0.42	0.049	<1
G-09-01	Soil			<1	12	12	89	<0.3	5	3	2534	1.08	4	<2	<2	49	0.8	<3	<3	38	1.15	0.089	1
G-10-01	Soil			<1	5	5	22	<0.3	1	<1	112	0.10	<2	<2	<2	37	<0.5	<3	<3	3	0.54	0.037	<1
G-11-01	Soil			<1	12	36	121	<0.3	7	4	4488	0.94	7	<2	<2	72	<0.5	<3	<3	33	1.31	0.089	1
G-12-01	Soil			<1	8	12	60	<0.3	2	1	3239	0.23	<2	<2	<2	97	<0.5	<3	<3	8	1.28	0.068	<1
G-13-01	Soil			<1	10	37	88	<0.3	3	2	4735	0.35	5	<2	<2	121	<0.5	<3	<3	12	1.50	0.080	1
G-14-01	Soil			<1	10	34	74	<0.3	5	3	5824	0.61	3	<2	<2	97	<0.5	<3	<3	23	1.48	0.076	1
G-15-01	Soil			1	13	23	50	<0.3	6	4	2931	1.21	4	<2	<2	83	<0.5	<3	<3	38	1.62	0.068	2
G-16-01	Soil			<1	8	6	36	<0.3	4	3	610	1.36	2	<2	<2	39	<0.5	<3	<3	50	0.70	0.060	2
G-17-01	Soil			<1	15	10	62	<0.3	7	4	1957	1.29	3	<2	<2	43	<0.5	<3	<3	47	0.91	0.091	1
G-18-01	Soil			<1	16	7	48	<0.3	8	4	1591	1.19	<2	<2	<2	47	<0.5	<3	<3	44	0.80	0.088	2
G-19-01	Soil			<1	19	11	76	<0.3	6	3	1074	1.03	3	<2	<2	86	<0.5	<3	<3	36	1.41	0.093	1
G-20-01	Soil			<1	19	9	46	<0.3	6	5	231	1.10	3	<2	<2	71	<0.5	<3	<3	37	1.19	0.061	2
G-21-01	Soil			2	11	3	58	<0.3	3	2	1222	0.51	<2	<2	<2	43	<0.5	<3	<3	21	1.12	0.080	<1
G-22-01	Soil			<1	18	<3	35	<0.3	8	5	438	1.39	<2	<2	<2	28	<0.5	<3	<3	52	0.63	0.055	2
G-23-01	Soil			<1	8	10	35	<0.3	4	2	435	1.11	<2	<2	<2	47	<0.5	<3	<3	48	0.75	0.058	1
G-24-01	Soil			<1	7	6	30	<0.3	4	2	298	1.61	<2	<2	<2	39	<0.5	<3	<3	71	0.70	0.041	1
G-25-01	Soil			<1	12	16	53	<0.3	6	3	274	0.82	<2	<2	<2	59	<0.5	<3	<3	27	0.81	0.064	1
G-26-01	Soil			<1	25	3	30	<0.3	9	6	286	1.91	5	<2	<2	35	<0.5	<3	<3	74	0.79	0.062	3
G-27-01	Soil			1	29	6	55	<0.3	10	6	871	1.68	5	<2	<2	45	<0.5	<3	<3	62	1.13	0.082	3
G-28-01	Soil			2	12	6	58	<0.3	5	2	864	0.41	2	<2	<2	79	<0.5	<3	<3	15	2.04	0.102	<1
G-29-01	Soil			2	22	6	46	<0.3	7	5	602	1.31	6	<2	<2	45	<0.5	<3	<3	43	0.96	0.063	2
G-30-01	Soil			<1	19	4	36	<0.3	9	6	624	1.71	2	<2	<2	57	<0.5	<3	<3	66	0.98	0.059	8
G-31-01	Soil			<1	17	6	57	<0.3	7	4	771	1.27	2	<2	<2	42	<0.5	<3	<3	44	0.91	0.084	2
G-32-01	Soil			<1	9	<3	42	<0.3	3	1	511	0.51	<2	<2	<2	42	<0.5	<3	<3	20	0.78	0.060	<1
G-33-01	Soil			<1	14	10	66	<0.3	4	2	1636	0.57	3	<2	<2	61	<0.5	<3	<3	19	1.20	0.074	<1
G-34-01	Soil			<1	9	<3	44	<0.3	3	1	1392	0.61	<2	<2	<2	54	<0.5	<3	<3	20	0.98	0.068	<1

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**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 4 of 7 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S	1D Sc	1D Ga
				ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
G-05-01	Soil			<1	0.11	300	0.004	<20	0.15	<0.01	0.06	<2	0.13	<5	<5
G-06-01	Soil			1	0.09	345	0.014	<20	0.29	<0.01	0.06	<2	0.13	<5	<5
G-07-01	Soil			2	0.06	193	0.020	<20	0.24	<0.01	0.05	<2	0.10	<5	<5
G-08-01	Soil			3	0.05	66	0.031	<20	0.45	<0.01	0.04	<2	0.07	<5	<5
G-09-01	Soil			7	0.13	268	0.060	<20	0.88	<0.01	0.07	<2	0.09	<5	<5
G-10-01	Soil			<1	0.03	108	0.006	<20	0.09	<0.01	0.03	<2	0.07	<5	<5
G-11-01	Soil			7	0.13	280	0.049	<20	0.77	<0.01	0.06	<2	0.09	<5	<5
G-12-01	Soil			2	0.07	139	0.012	<20	0.19	<0.01	0.05	<2	0.11	<5	<5
G-13-01	Soil			3	0.08	292	0.017	<20	0.33	<0.01	0.06	<2	0.12	<5	<5
G-14-01	Soil			4	0.11	374	0.033	<20	0.48	<0.01	0.05	<2	0.11	<5	<5
G-15-01	Soil			9	0.10	254	0.061	<20	0.95	<0.01	0.05	<2	0.07	<5	<5
G-16-01	Soil			10	0.11	94	0.092	<20	0.99	<0.01	0.03	<2	<0.05	<5	<5
G-17-01	Soil			11	0.18	132	0.086	<20	1.04	<0.01	0.03	<2	0.06	<5	<5
G-18-01	Soil			10	0.18	151	0.080	<20	0.99	<0.01	0.04	<2	0.08	<5	<5
G-19-01	Soil			8	0.17	214	0.071	<20	0.88	<0.01	0.04	<2	0.10	<5	<5
G-20-01	Soil			9	0.27	52	0.068	<20	0.81	<0.01	0.05	<2	0.13	<5	<5
G-21-01	Soil			5	0.11	55	0.034	<20	0.41	<0.01	0.04	<2	0.11	<5	<5
G-22-01	Soil			12	0.24	33	0.104	<20	0.86	<0.01	0.05	<2	0.07	<5	<5
G-23-01	Soil			7	0.10	72	0.078	<20	0.48	<0.01	0.04	<2	0.08	<5	<5
G-24-01	Soil			13	0.11	50	0.117	<20	0.67	<0.01	0.07	<2	<0.05	<5	<5
G-25-01	Soil			8	0.09	97	0.051	<20	0.46	<0.01	0.04	<2	0.09	<5	<5
G-26-01	Soil			15	0.29	42	0.143	<20	1.08	0.02	0.04	<2	<0.05	<5	<5
G-27-01	Soil			14	0.29	130	0.120	<20	1.29	0.01	0.05	<2	0.06	<5	<5
G-28-01	Soil			7	0.19	248	0.021	<20	0.40	0.01	0.18	<2	0.13	<5	<5
G-29-01	Soil			12	0.26	172	0.077	<20	1.06	<0.01	0.08	<2	0.07	<5	<5
G-30-01	Soil			12	0.25	116	0.115	<20	1.20	0.01	0.04	<2	0.06	<5	<5
G-31-01	Soil			10	0.19	98	0.086	<20	1.02	<0.01	0.07	<2	0.07	<5	<5
G-32-01	Soil			3	0.06	115	0.036	<20	0.35	<0.01	0.05	<2	0.07	<5	<5
G-33-01	Soil			4	0.11	191	0.032	<20	0.56	<0.01	0.07	<2	0.09	<5	<5
G-34-01	Soil			4	0.08	169	0.035	<20	0.42	<0.01	0.05	<2	0.08	<5	<5

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Project: None Given  
 Report Date: October 25, 2011

Page: 5 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
G-35-01	Soil			<1	18	6	40	<0.3	6	4	712	1.57	6	<2	<2	37	<0.5	<3	<3	54	0.75	0.067	2
G-36-01	Soil			<1	9	3	41	<0.3	3	1	563	0.61	<2	<2	<2	32	<0.5	<3	<3	25	0.66	0.077	<1
G-37-01	Soil			<1	9	<3	39	<0.3	3	1	723	0.69	<2	<2	<2	37	<0.5	<3	<3	26	0.73	0.061	<1
G-38-01	Soil			1	14	4	34	<0.3	6	5	588	1.60	4	<2	<2	47	<0.5	<3	<3	60	0.84	0.088	3
G-39-01	Soil			<1	9	<3	54	<0.3	3	1	1352	0.31	<2	<2	<2	86	<0.5	<3	<3	12	1.74	0.094	<1
G-40-01	Soil			1	19	4	42	<0.3	8	5	454	1.98	4	<2	<2	31	<0.5	<3	<3	71	0.70	0.055	3
G-41-01	Soil			<1	20	<3	34	<0.3	8	5	357	2.04	2	<2	<2	26	<0.5	<3	<3	75	0.66	0.053	3
G-42-01	Soil			1	22	<3	41	<0.3	8	7	658	1.35	4	<2	<2	49	<0.5	<3	<3	46	0.74	0.054	7
G-43-01	Soil			<1	19	<3	53	<0.3	3	2	476	0.41	<2	<2	<2	41	<0.5	<3	<3	12	0.79	0.059	<1
G-44-01	Soil			<1	16	<3	25	<0.3	4	2	318	1.05	<2	<2	<2	49	<0.5	<3	<3	25	0.76	0.048	3
G-45-01	Soil			<1	10	3	41	<0.3	4	<1	502	0.18	<2	<2	<2	35	<0.5	<3	<3	6	0.65	0.061	<1
G-46-01	Soil			2	60	5	78	<0.3	5	3	421	1.00	2	<2	<2	40	<0.5	<3	<3	33	0.90	0.064	3
G-47-01	Soil			<1	3	<3	15	<0.3	<1	<1	187	0.07	<2	<2	<2	21	<0.5	<3	<3	2	0.44	0.028	<1
G-48-01	Soil			1	15	15	85	<0.3	5	2	1473	0.43	4	<2	<2	58	<0.5	<3	<3	15	1.43	0.103	<1
G-49-01	Soil			2	16	11	51	<0.3	8	5	1241	1.39	3	<2	<2	58	<0.5	<3	<3	54	1.42	0.053	3
G-50-01	Soil			<1	16	9	61	<0.3	9	5	1339	1.76	4	<2	<2	51	<0.5	<3	<3	71	1.18	0.060	2
G-51-01	Soil			3	20	7	41	<0.3	8	4	762	1.32	5	<2	<2	56	<0.5	<3	<3	51	1.42	0.061	1
G-52-01	Soil			1	10	9	41	<0.3	4	2	1991	0.30	3	<2	<2	45	<0.5	<3	<3	12	1.40	0.077	<1
G-53-01	Soil			<1	16	13	79	<0.3	6	5	2184	1.33	2	<2	<2	65	<0.5	<3	<3	39	1.48	0.061	2
G-54-01	Soil			2	18	8	46	<0.3	3	3	1043	1.28	3	<2	<2	30	<0.5	<3	<3	39	0.75	0.053	1
G-55-01	Soil			<1	7	4	63	<0.3	2	1	1579	0.29	<2	<2	<2	48	<0.5	<3	<3	8	1.34	0.082	<1
G-56-01	Soil			<1	6	5	69	<0.3	<1	<1	988	0.05	<2	<2	<2	60	<0.5	<3	<3	2	1.47	0.091	<1
G-01-02	Soil			<1	10	5	29	<0.3	5	4	427	1.10	<2	<2	<2	43	<0.5	<3	<3	34	0.84	0.060	1
G-02-02	Soil			<1	5	7	17	<0.3	3	4	233	1.81	<2	<2	<2	25	<0.5	<3	<3	78	0.48	0.024	2
G-03-02	Soil			<1	6	7	18	<0.3	3	3	461	1.51	<2	<2	<2	32	<0.5	<3	<3	58	0.55	0.027	1
G-04-02	Soil			<1	10	12	60	<0.3	4	3	840	0.79	2	<2	<2	60	<0.5	<3	<3	26	1.00	0.061	<1
G-05-02	Soil			<1	13	4	24	<0.3	7	6	399	1.95	<2	<2	<2	30	<0.5	<3	<3	63	0.64	0.049	2
G-06-02	Soil			<1	11	13	55	<0.3	5	4	1191	1.56	<2	<2	<2	56	<0.5	<3	<3	51	1.08	0.064	2
G-07-02	Soil			<1	6	5	55	<0.3	3	4	460	1.38	<2	<2	<2	36	<0.5	<3	<3	57	0.70	0.036	2
G-08-02	Soil			<1	3	9	24	<0.3	1	<1	147	0.09	<2	<2	<2	38	<0.5	<3	<3	3	0.66	0.030	<1

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**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 5 of 7 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S	1D Sc	1D Ga
				ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
G-35-01	Soil			11	0.21	82	0.093	<20	1.35	<0.01	0.05	<2	<0.05	<5	<5
G-36-01	Soil			6	0.07	109	0.039	<20	0.37	<0.01	0.09	<2	0.09	<5	<5
G-37-01	Soil			5	0.08	100	0.046	<20	0.38	<0.01	0.03	<2	0.08	<5	<5
G-38-01	Soil			12	0.17	98	0.093	<20	1.39	<0.01	0.06	<2	0.06	<5	<5
G-39-01	Soil			3	0.10	236	0.018	<20	0.30	<0.01	0.08	<2	0.12	<5	<5
G-40-01	Soil			15	0.24	92	0.121	<20	1.72	<0.01	0.06	<2	<0.05	<5	<5
G-41-01	Soil			15	0.23	84	0.139	<20	1.78	<0.01	0.03	<2	<0.05	<5	<5
G-42-01	Soil			9	0.28	134	0.089	<20	1.37	0.01	0.04	<2	0.07	<5	<5
G-43-01	Soil			2	0.11	169	0.026	<20	0.50	<0.01	0.08	<2	0.07	<5	<5
G-44-01	Soil			5	0.27	167	0.058	<20	1.03	<0.01	0.12	<2	0.06	<5	<5
G-45-01	Soil			2	0.04	174	0.010	<20	0.15	<0.01	0.17	<2	0.09	<5	<5
G-46-01	Soil			6	0.21	117	0.060	<20	0.98	0.01	0.07	<2	0.06	<5	<5
G-47-01	Soil			<1	0.03	94	0.003	<20	0.06	<0.01	0.04	<2	<0.05	<5	<5
G-48-01	Soil			3	0.11	339	0.022	<20	0.46	<0.01	0.09	<2	0.15	<5	<5
G-49-01	Soil			9	0.16	236	0.098	<20	1.01	<0.01	0.05	<2	0.07	<5	<5
G-50-01	Soil			13	0.20	232	0.121	<20	1.26	<0.01	0.05	<2	0.07	<5	<5
G-51-01	Soil			11	0.18	174	0.093	<20	1.20	<0.01	0.04	<2	0.08	<5	<5
G-52-01	Soil			3	0.09	159	0.022	<20	0.32	<0.01	0.06	<2	0.11	<5	<5
G-53-01	Soil			9	0.24	368	0.086	<20	1.08	0.01	0.05	<2	0.06	<5	<5
G-54-01	Soil			8	0.11	195	0.038	<20	0.74	<0.01	0.05	<2	<0.05	<5	<5
G-55-01	Soil			2	0.09	298	0.013	<20	0.34	<0.01	0.07	<2	0.09	<5	<5
G-56-01	Soil			1	0.07	247	0.002	<20	0.08	<0.01	0.04	<2	0.13	<5	<5
G-01-02	Soil			8	0.17	64	0.079	<20	0.94	<0.01	0.05	<2	0.08	<5	<5
G-02-02	Soil			10	0.08	30	0.147	<20	0.60	<0.01	0.02	<2	<0.05	<5	<5
G-03-02	Soil			9	0.09	50	0.111	<20	0.62	<0.01	0.02	<2	<0.05	<5	<5
G-04-02	Soil			6	0.13	204	0.055	<20	0.67	<0.01	0.06	<2	0.09	<5	<5
G-05-02	Soil			14	0.22	57	0.149	<20	1.60	<0.01	0.05	<2	<0.05	<5	<5
G-06-02	Soil			11	0.15	188	0.118	<20	1.17	<0.01	0.05	<2	0.06	<5	<5
G-07-02	Soil			9	0.10	57	0.147	<20	0.76	<0.01	0.04	<2	<0.05	<5	<5
G-08-02	Soil			1	0.03	80	0.005	<20	0.08	<0.01	0.02	<2	0.07	<5	<5

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Page: 6 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
G-09-02	Soil			<1	4	4	13	<0.3	1	<1	115	0.31	<2	<2	<2	19	<0.5	<3	<3	10	0.31	0.023	<1
G-10-02	Soil			3	12	6	30	<0.3	4	4	262	1.15	4	<2	<2	48	<0.5	<3	<3	32	0.89	0.046	2
G-11-02	Soil			<1	7	15	25	<0.3	2	1	203	0.43	<2	<2	<2	42	<0.5	<3	<3	14	0.61	0.031	<1
G-12-02	Soil			<1	6	4	44	<0.3	2	1	1011	0.29	4	<2	<2	53	<0.5	<3	<3	11	1.19	0.083	<1
G-13-02	Soil			<1	7	25	36	<0.3	2	<1	134	0.19	3	<2	<2	36	<0.5	<3	<3	7	0.71	0.061	<1
G-14-02	Soil			<1	6	19	36	<0.3	3	2	1189	0.73	2	<2	<2	43	<0.5	<3	<3	20	0.85	0.046	<1
G-15-02	Soil			<1	4	12	21	<0.3	2	1	374	0.49	<2	<2	<2	29	<0.5	<3	<3	16	0.58	0.021	<1
G-16-02	Soil			<1	12	16	61	<0.3	6	6	1161	1.92	2	<2	<2	38	<0.5	<3	<3	52	0.90	0.065	1
G-17-02	Soil			<1	7	12	46	<0.3	4	4	966	1.46	3	<2	<2	53	<0.5	<3	<3	46	0.98	0.052	1
G-18-02	Soil			<1	11	23	62	<0.3	3	2	1607	0.81	4	<2	<2	67	<0.5	<3	<3	24	1.37	0.053	1
G-19-02	Soil			<1	8	7	42	<0.3	3	2	640	0.73	<2	<2	<2	42	<0.5	<3	<3	21	0.86	0.056	<1
G-20-02	Soil			1	7	6	22	<0.3	4	3	513	1.30	<2	<2	<2	37	<0.5	<3	<3	39	0.87	0.042	1
G-21-02	Soil			<1	6	8	40	<0.3	3	3	757	1.42	<2	<2	<2	43	<0.5	<3	<3	45	0.95	0.033	1
G-22-02	Soil			1	12	30	39	<0.3	5	6	669	1.56	3	<2	<2	44	<0.5	<3	<3	41	0.63	0.078	5
G-23-02	Soil			<1	13	30	45	<0.3	4	3	561	0.89	3	<2	<2	47	<0.5	<3	<3	23	0.95	0.044	1
G-24-02	Soil			<1	4	16	43	<0.3	2	<1	196	0.11	<2	<2	<2	48	<0.5	<3	<3	4	0.81	0.033	1
G-25-02	Soil			<1	11	12	29	<0.3	6	5	393	1.30	<2	<2	<2	39	<0.5	<3	<3	40	0.72	0.034	2
G-26-02	Soil			<1	10	5	40	<0.3	5	4	1238	1.06	<2	<2	<2	76	<0.5	<3	<3	34	1.22	0.069	1
G-27-02	Soil			<1	8	7	39	<0.3	5	4	1620	1.46	<2	<2	<2	32	<0.5	<3	<3	43	0.65	0.053	1
G-28-02	Soil			<1	5	7	39	<0.3	3	3	502	1.25	3	<2	<2	47	<0.5	<3	<3	42	0.85	0.044	<1
G-29-02	Soil			<1	5	12	25	<0.3	2	<1	274	0.20	<2	<2	<2	64	<0.5	<3	<3	6	0.72	0.037	<1
G-03-01	Soil			<1	5	17	46	<0.3	3	1	5238	0.25	<2	<2	<2	45	<0.5	<3	<3	7	0.85	0.048	<1
G-03-02	Soil			<1	8	40	65	<0.3	5	3	6184	0.71	<2	<2	<2	65	<0.5	<3	<3	21	1.24	0.059	1
G-03-03	Soil			<1	3	6	14	<0.3	1	<1	596	0.18	<2	<2	<2	19	<0.5	<3	<3	5	0.34	0.021	<1
G-03-04	Soil			<1	12	36	85	<0.3	4	2	2290	0.70	8	<2	<2	57	<0.5	<3	<3	25	1.26	0.057	1
G-03-05	Soil			3	13	3	58	<0.3	14	3	1146	0.71	3	<2	<2	47	<0.5	<3	<3	24	0.91	0.069	<1
G-03-06	Soil			<1	6	4	45	<0.3	2	2	1440	0.38	<2	<2	<2	28	<0.5	<3	<3	12	0.69	0.050	<1
G-03-07	Soil			1	12	6	47	<0.3	6	3	713	1.22	10	<2	<2	30	<0.5	<3	<3	43	0.64	0.055	1
G-03-08	Soil			<1	10	19	57	<0.3	3	2	1346	0.73	5	<2	<2	30	<0.5	<3	<3	25	0.83	0.060	1
G-03-09	Soil			<1	7	6	38	<0.3	3	1	1026	0.33	<2	<2	<2	52	<0.5	<3	<3	11	1.22	0.070	<1

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**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 6 of 7 Part 2

CERTIFICATE OF ANALYSIS

VAN11004800.1

Method	Analyte	Unit	MDL	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S	1D Sc	1D Ga
				ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm
				1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
G-09-02	Soil			2	0.03	55	0.022	<20	0.21	<0.01	0.02	<2	<0.05	<5	<5
G-10-02	Soil			7	0.25	62	0.059	<20	1.06	<0.01	0.04	<2	0.08	<5	<5
G-11-02	Soil			3	0.04	101	0.024	<20	0.22	<0.01	0.03	<2	0.06	<5	<5
G-12-02	Soil			3	0.08	101	0.019	<20	0.29	0.02	0.04	<2	0.11	<5	<5
G-13-02	Soil			1	0.03	95	0.018	<20	0.13	<0.01	0.03	<2	0.12	<5	<5
G-14-02	Soil			4	0.06	157	0.053	<20	0.36	<0.01	0.03	<2	0.08	<5	<5
G-15-02	Soil			3	0.05	71	0.034	<20	0.25	<0.01	0.02	<2	<0.05	<5	<5
G-16-02	Soil			11	0.19	133	0.119	<20	1.45	<0.01	0.03	<2	0.05	<5	<5
G-17-02	Soil			6	0.13	167	0.096	<20	0.89	<0.01	0.04	<2	<0.05	<5	<5
G-18-02	Soil			4	0.09	314	0.041	<20	0.55	<0.01	0.05	<2	0.08	<5	<5
G-19-02	Soil			4	0.11	151	0.046	<20	0.57	<0.01	0.03	<2	0.07	<5	<5
G-20-02	Soil			8	0.13	106	0.097	<20	0.72	<0.01	0.05	<2	0.05	<5	<5
G-21-02	Soil			6	0.11	146	0.105	<20	0.71	<0.01	0.03	<2	<0.05	<5	<5
G-22-02	Soil			8	0.13	175	0.101	<20	1.15	<0.01	0.06	<2	0.07	<5	<5
G-23-02	Soil			5	0.07	200	0.051	<20	0.65	<0.01	0.03	<2	0.07	<5	<5
G-24-02	Soil			1	0.04	140	0.009	<20	0.10	<0.01	0.02	<2	0.09	<5	<5
G-25-02	Soil			9	0.14	95	0.097	<20	1.00	<0.01	0.02	<2	<0.05	<5	<5
G-26-02	Soil			8	0.15	132	0.071	<20	0.72	<0.01	0.05	<2	0.09	<5	<5
G-27-02	Soil			9	0.13	95	0.102	<20	1.00	<0.01	0.07	<2	<0.05	<5	<5
G-28-02	Soil			7	0.08	63	0.090	<20	0.52	<0.01	0.05	<2	0.06	<5	<5
G-29-02	Soil			2	0.05	64	0.014	<20	0.14	<0.01	0.02	<2	0.09	<5	<5
G-03-01	Soil			2	0.06	94	0.015	<20	0.23	<0.01	0.03	<2	0.09	<5	<5
G-03-02	Soil			4	0.09	278	0.046	<20	0.47	<0.01	0.05	<2	0.10	<5	<5
G-03-03	Soil			2	0.03	43	0.013	<20	0.13	<0.01	0.02	<2	<0.05	<5	<5
G-03-04	Soil			4	0.10	651	0.040	<20	0.65	<0.01	0.05	<2	0.09	<5	<5
G-03-05	Soil			29	0.11	150	0.039	<20	0.63	<0.01	0.04	<2	0.11	<5	<5
G-03-06	Soil			3	0.05	98	0.021	<20	0.26	<0.01	0.04	<2	0.09	<5	<5
G-03-07	Soil			9	0.14	98	0.071	<20	0.88	<0.01	0.03	<2	0.08	<5	<5
G-03-08	Soil			5	0.09	106	0.037	<20	0.69	<0.01	0.05	<2	0.09	<5	<5
G-03-09	Soil			2	0.09	182	0.017	<20	0.27	<0.01	0.05	<2	0.12	<5	<5

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**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 7 of 7 Part 1

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	Analyte	Unit	MDL	1D Mo	1D Cu	1D Pb	1D Zn	1D Ag	1D Ni	1D Co	1D Mn	1D Fe	1D As	1D Au	1D Th	1D Sr	1D Cd	1D Sb	1D Bi	1D V	1D Ca	1D P	1D La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
G-03-10	Soil			<1	11	16	59	<0.3	3	2	3065	0.71	2	<2	<2	42	<0.5	<3	<3	21	0.88	0.078	1
G-03-11	Soil			<1	9	<3	51	<0.3	4	2	1867	0.67	<2	<2	<2	34	<0.5	<3	<3	23	0.89	0.086	<1
G-03-12	Soil			<1	8	11	53	<0.3	3	2	2385	0.55	<2	<2	<2	36	<0.5	<3	<3	20	0.98	0.062	<1
G-03-13	Soil			<1	7	5	76	<0.3	2	<1	3395	0.22	3	<2	<2	40	<0.5	<3	<3	6	1.13	0.085	<1
G-03-14	Soil			<1	4	3	29	<0.3	1	<1	472	0.15	<2	<2	<2	23	<0.5	<3	<3	4	0.37	0.028	<1
G-03-15	Soil			<1	8	9	92	<0.3	3	1	4234	0.31	3	<2	<2	41	<0.5	<3	<3	11	1.01	0.075	<1
G-03-16	Soil			<1	9	18	75	<0.3	4	2	2061	0.65	8	<2	<2	38	<0.5	<3	<3	24	1.06	0.067	<1
G-03-17	Soil			<1	8	10	61	<0.3	3	1	2765	0.76	3	<2	<2	34	<0.5	<3	<3	25	0.83	0.058	<1
G-03-18	Soil			<1	6	4	20	<0.3	1	<1	347	0.20	3	<2	<2	21	<0.5	<3	<3	5	0.43	0.029	<1
G-03-19	Soil			<1	5	5	57	<0.3	2	<1	3899	0.19	<2	<2	<2	30	<0.5	<3	<3	5	0.70	0.056	<1
G-03-20	Soil			<1	9	8	67	<0.3	4	2	2978	0.52	3	<2	<2	46	<0.5	<3	<3	17	1.03	0.111	1
G-03-21	Soil			2	14	12	49	<0.3	7	2	1556	1.39	4	<2	<2	51	<0.5	<3	<3	52	1.35	0.077	1
G-03-22	Soil			<1	8	3	34	<0.3	4	<1	679	0.33	<2	<2	<2	30	<0.5	<3	<3	12	0.59	0.065	<1
G-03-23	Soil			<1	14	<3	53	<0.3	6	4	2432	1.29	3	<2	<2	36	<0.5	<3	<3	43	0.93	0.095	2
G-03-24	Soil			2	12	3	120	<0.3	5	5	1232	0.79	3	<2	<2	92	0.5	<3	<3	11	1.53	0.075	5
G-03-25	Soil			<1	15	<3	60	<0.3	4	3	2007	0.77	5	<2	<2	33	<0.5	<3	<3	21	1.20	0.109	1
G-03-26	Soil			3	19	9	74	<0.3	8	7	2091	1.18	14	<2	<2	44	0.7	<3	<3	36	0.95	0.074	3
G-03-27	Soil			1	13	6	64	<0.3	5	3	1748	0.62	13	<2	<2	44	<0.5	<3	<3	20	0.90	0.071	1
G-03-28	Soil			<1	7	5	42	<0.3	3	2	1068	0.53	<2	<2	<2	29	<0.5	<3	<3	12	0.66	0.052	<1
G-03-29	Soil			<1	<1	<3	11	<0.3	<1	<1	1354	0.47	<2	<2	<2	21	<0.5	<3	<3	2	0.48	0.002	<1
G-03-30	Soil			<1	6	6	47	<0.3	2	1	1444	0.30	<2	<2	<2	38	<0.5	<3	<3	11	0.69	0.047	1
G-04-01	Soil			1	8	3	26	<0.3	3	<1	441	0.56	2	<2	<2	26	<0.5	<3	<3	20	0.62	0.035	<1
G-04-02	Soil			<1	5	3	27	<0.3	3	<1	1115	0.80	<2	<2	<2	28	<0.5	<3	<3	40	0.54	0.042	1
G-04-03	Soil			<1	4	<3	29	<0.3	2	<1	518	0.34	<2	<2	<2	33	<0.5	<3	<3	13	0.55	0.040	<1
G-04-04	Soil			2	18	14	33	<0.3	8	3	1167	1.52	<2	<2	<2	29	<0.5	<3	<3	54	0.70	0.077	8
G-04-05	Soil			<1	5	<3	25	<0.3	2	<1	369	0.46	<2	<2	<2	21	<0.5	<3	<3	18	0.37	0.031	<1





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**Project:** None Given  
**Report Date:** October 25, 2011

**Page:** 7 of 7 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN11004800.1**

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5	
G-03-10	Soil	4	0.09	256	0.032	<20	0.43	<0.01	0.05	<2	0.09	<5	<5
G-03-11	Soil	5	0.09	151	0.036	<20	0.53	<0.01	0.07	<2	0.10	<5	<5
G-03-12	Soil	3	0.07	228	0.027	<20	0.28	<0.01	0.06	<2	0.09	<5	<5
G-03-13	Soil	1	0.08	306	0.008	<20	0.21	<0.01	0.11	<2	0.11	<5	<5
G-03-14	Soil	<1	0.05	74	0.006	<20	0.14	<0.01	0.04	<2	0.06	<5	<5
G-03-15	Soil	2	0.09	251	0.015	<20	0.22	<0.01	0.05	<2	0.11	<5	<5
G-03-16	Soil	4	0.08	148	0.036	<20	0.40	<0.01	0.05	<2	0.10	<5	<5
G-03-17	Soil	5	0.07	214	0.039	<20	0.49	<0.01	0.05	<2	0.07	<5	<5
G-03-18	Soil	<1	0.05	33	0.006	<20	0.24	<0.01	0.02	<2	0.06	<5	<5
G-03-19	Soil	1	0.04	194	0.008	<20	0.17	<0.01	0.03	<2	0.07	<5	<5
G-03-20	Soil	3	0.11	210	0.021	<20	0.46	<0.01	0.08	<2	0.11	<5	<5
G-03-21	Soil	11	0.16	162	0.082	<20	1.36	<0.01	0.07	<2	0.08	<5	<5
G-03-22	Soil	2	0.04	102	0.021	<20	0.20	<0.01	0.04	<2	0.09	<5	<5
G-03-23	Soil	10	0.14	102	0.080	<20	1.13	<0.01	0.09	<2	0.06	<5	<5
G-03-24	Soil	3	0.20	40	0.017	<20	0.37	<0.01	0.05	<2	0.11	<5	<5
G-03-25	Soil	6	0.11	69	0.037	24	0.55	<0.01	0.08	<2	0.10	<5	<5
G-03-26	Soil	9	0.10	125	0.064	<20	0.87	<0.01	0.05	<2	0.09	<5	<5
G-03-27	Soil	5	0.09	69	0.029	<20	0.39	<0.01	0.05	<2	0.08	<5	<5
G-03-28	Soil	3	0.06	60	0.020	27	0.35	<0.01	0.04	<2	0.08	<5	<5
G-03-29	Soil	<1	0.04	30	0.025	<20	0.33	<0.01	<0.01	<2	<0.05	<5	<5
G-03-30	Soil	2	0.05	58	0.015	<20	0.17	<0.01	0.04	<2	0.08	<5	<5
G-04-01	Soil	5	0.08	64	0.034	<20	0.52	<0.01	0.04	<2	<0.05	<5	<5
G-04-02	Soil	9	0.09	60	0.059	<20	0.46	<0.01	0.04	<2	0.06	<5	<5
G-04-03	Soil	3	0.05	84	0.019	<20	0.25	<0.01	0.04	<2	0.07	<5	<5
G-04-04	Soil	14	0.20	85	0.083	<20	1.95	<0.01	0.09	<2	0.08	<5	5
G-04-05	Soil	3	0.05	67	0.025	<20	0.30	<0.01	0.03	<2	0.05	<5	<5



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Project: None Given  
 Report Date: October 25, 2011

Page: 1 of 2 Part 1

# QUALITY CONTROL REPORT

VAN11004800.1

Method	Analyte	Unit	MDL	1D Mo ppm	1D Cu ppm	1D Pb ppm	1D Zn ppm	1D Ag ppm	1D Ni ppm	1D Co ppm	1D Mn ppm	1D Fe %	1D As ppm	1D Au ppm	1D Th ppm	1D Sr ppm	1D Cd ppm	1D Sb ppm	1D Bi ppm	1D V ppm	1D Ca %	1D P %	1D La ppm
Pulp Duplicates																							
B-10-9	Soil			<1	62	5	233	<0.3	12	10	823	2.53	6	<2	<2	81	0.9	<3	<3	94	2.15	0.036	2
REP B-10-9	QC			<1	66	5	249	<0.3	13	11	894	2.71	7	<2	<2	88	1.1	<3	<3	99	2.30	0.035	3
B-12-11	Soil			<1	6	<3	38	<0.3	5	1	3430	0.20	<2	<2	<2	33	<0.5	<3	<3	8	1.99	0.081	<1
REP B-12-11	QC			<1	6	7	37	<0.3	5	1	3422	0.20	<2	<2	<2	34	<0.5	<3	<3	8	1.99	0.079	<1
G-48-01	Soil			1	15	15	85	<0.3	5	2	1473	0.43	4	<2	<2	58	<0.5	<3	<3	15	1.43	0.103	<1
REP G-48-01	QC			1	16	18	87	<0.3	5	2	1474	0.46	3	<2	<2	59	<0.5	<3	<3	16	1.46	0.106	1
G-27-02	Soil			<1	8	7	39	<0.3	5	4	1620	1.46	<2	<2	<2	32	<0.5	<3	<3	43	0.65	0.053	1
REP G-27-02	QC			<1	8	6	41	<0.3	5	4	1669	1.56	<2	<2	<2	33	<0.5	<3	<3	45	0.67	0.054	1
G-03-24	Soil			2	12	3	120	<0.3	5	5	1232	0.79	3	<2	<2	92	0.5	<3	<3	11	1.53	0.075	5
REP G-03-24	QC			2	13	<3	131	<0.3	5	6	1348	0.91	3	<2	<2	99	0.6	<3	<3	13	1.69	0.081	6
G-04-05	Soil			<1	5	<3	25	<0.3	2	<1	369	0.46	<2	<2	<2	21	<0.5	<3	<3	18	0.37	0.031	<1
REP G-04-05	QC			<1	4	4	23	<0.3	2	<1	341	0.39	<2	<2	<2	20	<0.5	<3	<3	16	0.34	0.030	<1
Reference Materials																							
STD DS8	Standard			15	113	100	330	1.8	41	8	637	2.56	26	<2	6	71	2.5	6	6	44	0.76	0.080	16
STD DS8	Standard			14	97	104	305	1.6	37	4	580	2.37	20	<2	5	64	2.2	5	<3	40	0.69	0.075	15
STD DS8	Standard			15	111	125	327	1.4	40	8	634	2.55	27	<2	7	72	2.2	4	4	45	0.77	0.080	17
STD DS8	Standard			13	108	116	322	1.6	39	8	616	2.56	29	<2	7	67	2.3	6	7	43	0.74	0.079	16
STD DS8	Standard			12	93	99	288	1.2	33	7	542	2.16	24	<2	6	60	2.0	5	6	36	0.66	0.069	13
STD DS8	Standard			11	96	107	314	0.9	28	7	611	2.42	20	<2	5	68	1.2	6	6	31	0.73	0.062	13
STD DS8	Standard			11	100	116	305	0.9	30	7	612	2.41	23	<2	4	71	1.7	6	5	35	0.74	0.062	14
STD OREAS45CA	Standard			3	527	10	58	<0.3	263	96	913	15.95	2	<2	6	15	<0.5	<3	<3	210	0.42	0.039	17
STD OREAS45CA	Standard			2	504	18	65	<0.3	255	87	880	15.84	<2	<2	4	15	<0.5	<3	<3	201	0.41	0.037	17
STD OREAS45CA	Standard			3	508	28	57	<0.3	258	89	880	15.63	<2	<2	5	14	<0.5	<3	<3	200	0.41	0.037	16
STD OREAS45CA	Standard			3	523	29	58	<0.3	263	91	916	16.61	<2	<2	6	15	<0.5	<3	<3	206	0.42	0.038	17
STD OREAS45CA	Standard			3	449	22	55	<0.3	223	82	818	15.83	<2	<2	6	14	<0.5	<3	<3	179	0.40	0.035	15
STD OREAS45CA	Standard			1	536	19	57	<0.3	274	99	936	16.51	2	<2	4	14	1.8	10	<3	209	0.42	0.030	13
STD OREAS45CA	Standard			1	544	20	61	<0.3	283	100	952	16.90	3	<2	5	15	2.3	14	<3	217	0.43	0.033	15
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	0.107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	0.08	14.6



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Project: None Given  
Report Date: October 25, 2011

Page: 1 of 2 Part 2

# QUALITY CONTROL REPORT

VAN11004800.1

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Sc	Ga	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5	
Pulp Duplicates													
B-10-9	Soil	16	0.58	41	0.211	<20	2.21	0.03	0.03	<2	0.05	7	<5
REP B-10-9	QC	18	0.62	44	0.229	<20	2.42	0.03	0.03	<2	0.05	7	<5
B-12-11	Soil	<1	0.10	21	0.010	<20	0.17	0.01	0.06	<2	0.11	<5	<5
REP B-12-11	QC	1	0.10	21	0.010	<20	0.17	0.01	0.06	<2	0.11	<5	<5
G-48-01	Soil	3	0.11	339	0.022	<20	0.46	<0.01	0.09	<2	0.15	<5	<5
REP G-48-01	QC	3	0.12	342	0.024	<20	0.47	<0.01	0.09	<2	0.15	<5	<5
G-27-02	Soil	9	0.13	95	0.102	<20	1.00	<0.01	0.07	<2	<0.05	<5	<5
REP G-27-02	QC	10	0.14	99	0.105	<20	1.03	<0.01	0.07	<2	<0.05	<5	<5
G-03-24	Soil	3	0.20	40	0.017	<20	0.37	<0.01	0.05	<2	0.11	<5	<5
REP G-03-24	QC	4	0.23	44	0.018	<20	0.42	<0.01	0.06	<2	0.12	<5	<5
G-04-05	Soil	3	0.05	67	0.025	<20	0.30	<0.01	0.03	<2	0.05	<5	<5
REP G-04-05	QC	3	0.05	63	0.023	<20	0.26	<0.01	0.03	<2	<0.05	<5	<5
Reference Materials													
STD DS8	Standard	126	0.64	310	0.108	21	0.98	0.10	0.44	2	0.17	<5	<5
STD DS8	Standard	118	0.57	275	0.104	<20	0.88	0.09	0.39	2	0.16	<5	<5
STD DS8	Standard	128	0.63	305	0.122	<20	0.98	0.10	0.43	2	0.17	<5	<5
STD DS8	Standard	120	0.63	303	0.114	<20	0.93	0.09	0.42	3	0.17	<5	<5
STD DS8	Standard	101	0.54	263	0.098	<20	0.83	0.08	0.36	3	0.16	<5	7
STD DS8	Standard	103	0.60	292	0.116	<20	0.94	0.09	0.41	3	0.16	<5	<5
STD DS8	Standard	94	0.61	285	0.112	<20	0.96	0.09	0.42	2	0.16	<5	<5
STD OREAS45CA	Standard	763	0.15	161	0.105	<20	3.86	<0.01	0.08	<2	<0.05	46	<5
STD OREAS45CA	Standard	737	0.14	154	0.113	<20	3.91	<0.01	0.08	<2	<0.05	48	15
STD OREAS45CA	Standard	760	0.14	148	0.142	<20	3.94	<0.01	0.07	<2	<0.05	45	13
STD OREAS45CA	Standard	765	0.15	157	0.145	<20	4.06	<0.01	0.08	<2	<0.05	49	14
STD OREAS45CA	Standard	649	0.13	141	0.101	<20	3.35	<0.01	0.07	<2	<0.05	41	18
STD OREAS45CA	Standard	770	0.15	156	0.152	<20	4.23	<0.01	0.06	<2	<0.05	50	<5
STD OREAS45CA	Standard	780	0.15	158	0.160	<20	4.23	<0.01	0.07	<2	<0.05	50	<5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.1679	2.3	4.7



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Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11004800.1

	1D Mo ppm	1D Cu ppm	1D Pb ppm	1D Zn ppm	1D Ag ppm	1D Ni ppm	1D Co ppm	1D Mn ppm	1D Fe %	1D As ppm	1D Au ppm	1D Th ppm	1D Sr ppm	1D Cd ppm	1D Sb ppm	1D Bi ppm	1D V ppm	1D Ca %	1D P %	1D La ppm
	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1
STD OREAS45CA Expected	1	494	20	60	0.275	240	92	943	15.69	3.8	0.043	7	15	0.1	0.13	0.19	215	0.4265	0.0385	15.9
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1



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Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11004800.1

		1D Cr ppm	1D Mg %	1D Ba ppm	1D Ti %	1D B ppm	1D Al %	1D Na %	1D K %	1D W ppm	1D S %	1D Sc ppm	1D Ga ppm
		1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	5	5
STD OREAS45CA Expected		709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021		
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<5	<5