



Aztec File #1207-GN-WGM

# SOIL GEOCHEMICAL SURVEY / GEOLOGICAL MAPPING 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.

Prepared by:

Del W. Ferguson, P.Geo.

**Aztec Geoscience Inc.** 

Courtenay, B.C. V9N 8P1

Tel: 250-334-9811 E-mail: del.aztec@shaw.ca

**July 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 ± 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 2012 survey succeeded in extending the anomalous Cu area from 2011 surveys further to the southeast where outcrops are few. Initial roadside mapping of the property in areas outside of the main showings and alteration show several phases of the intrusive including diorite, monzonite, granite and granodiorite. Southern regions of the mineral tenure appear to be underlain by dominantly diorite and monzonite, with weak alteration and associated mineralization. Areas of intrusive immediately north of the Mineral Tenure consist of unaltered diorite. The tenure is bounded on the east by Nanaimo Group conglomerates.

The soil sampling program on the GooseNeck Property requires expansion both southward and westward to better define the extent of the Cu-in-soil anomaly. 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.

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#### 1.0 Introduction

#### 1.1 Terms of Reference / Objectives

This is a technical report on the 2012 Soil Geochemical Survey and a Geology Mapping Project carried out for Western Gateway Minerals Inc. on their GooseNeck Property approximately 21km southwest of Campbell River, BC, on April 3, 2012 and April 24, 25, 2102. The objective of this survey is to identify and document soil geochemical anomalies and bedrock and alteration types 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°55716ýN, Longitude 125°32'13ý. 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.

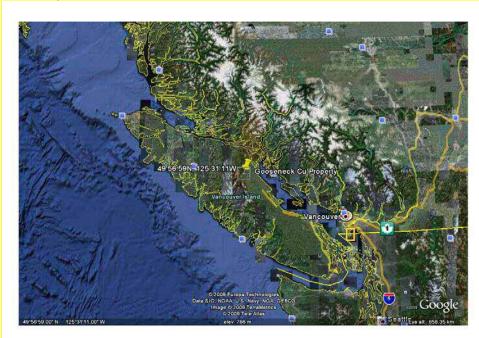


Figure 1: Location Map - Gooseneck Lake Cu Property

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.

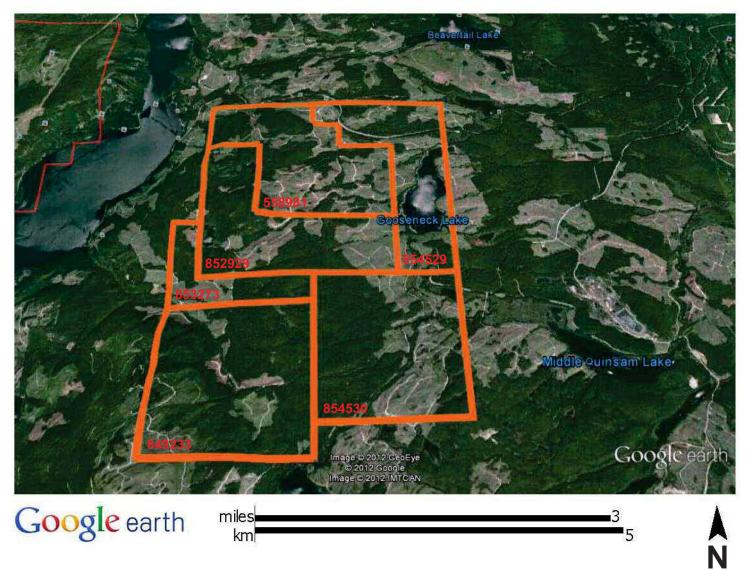


FIGURE 2: Outline of GooseNeck Cu Property Mineral Tenure

#### 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 Inc. covers an area 2,495.30ha (6,165.89 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 Inc.	498.88	Nov. 15, 2012
849233	Western Gateway Minerals Inc.	520.08	Nov. 15, 2012
852929	Western Gateway Minerals Inc.	415.85	Nov. 15, 2012
853273	Western Gateway Minerals Inc.	145.58	Nov. 15, 2012
854529	Western Gateway Minerals Inc.	394.93	Nov. 15, 2012
854530	Western Gateway Minerals Inc.	519.98	Nov. 15, 2012
Total		2,495.30	

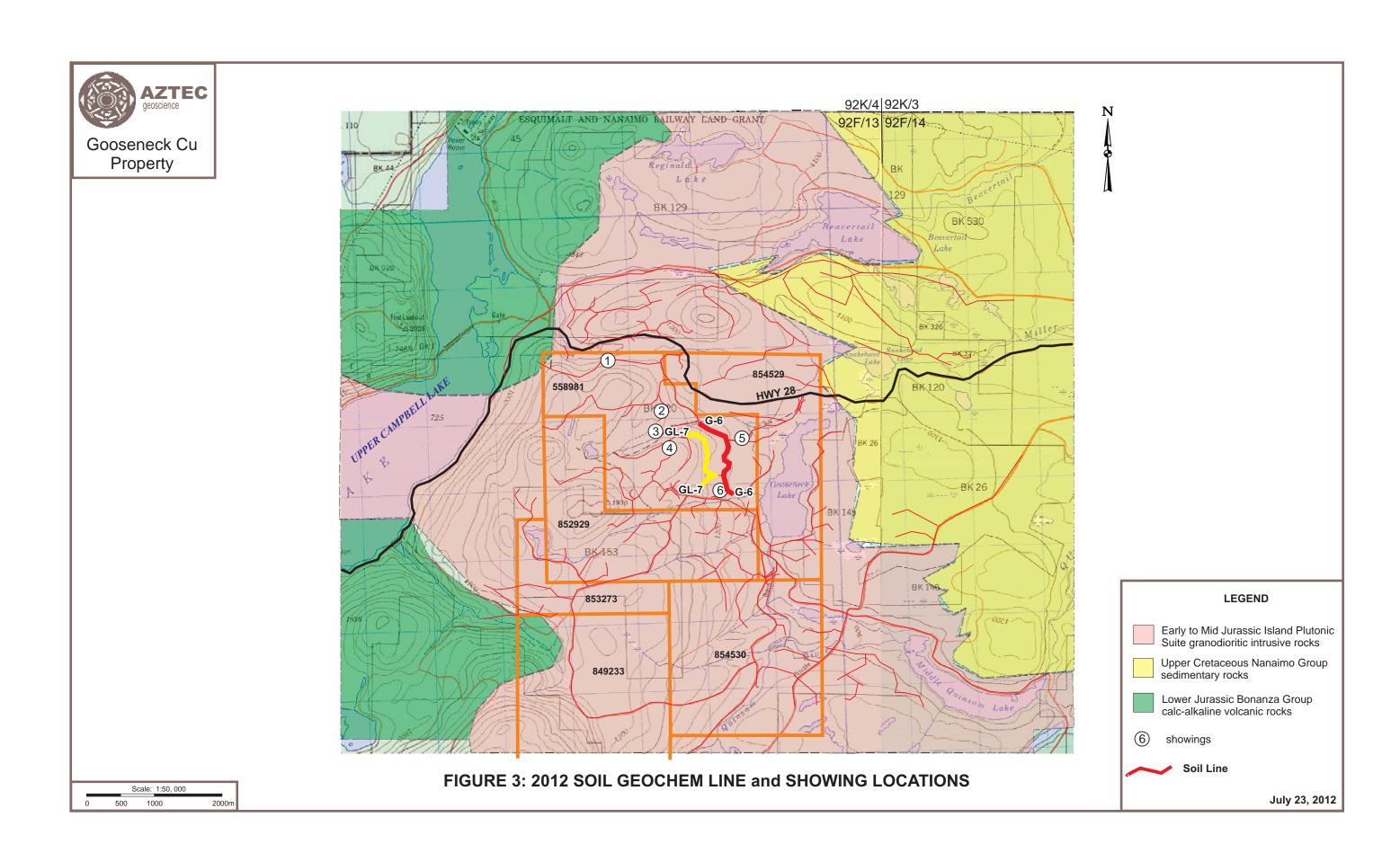
Western Gateway Minerals Inc. is a BC corporation the major shareholders whom are David Fawcett and Joseph Paquet.

#### 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 sealevel, mainly between November and March.



#### 1.6 Acknowledgements

The author would like to acknowledge the work of Joseph and Claude Paquet in conducting an effective soil survey and providing Western Gateway Minerals Inc. with supporting documentation on the survey and Silvacare Inc. for plotting the soil data.

#### 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-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. An initial soil sampling survey was conducted along road networks in 2011 (120 samples)<sup>1</sup>.

#### 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 (EMJIgd) granodiorite-diorite body which extends over an area of approximately 15km by10km. The intrusive complex hosts porphyry copper deposit-type mineralization. The intrusive body is associated with a "Mag High" (Figure 4).

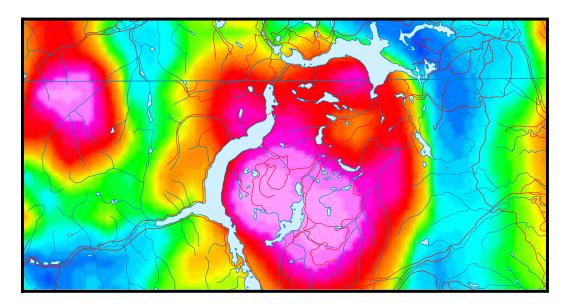


Figure 4: GooseNeck Cu Property on north side of Regional AeroMag High

<sup>&</sup>lt;sup>1</sup> ARIS Report #32804

The property encroaches upon Lower Jurassic (210 to 190 mya) Bonanza Group (IJBca) 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

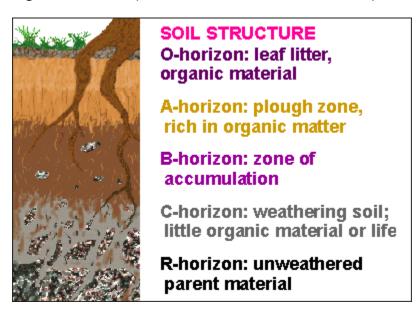
No mapping has been conducted on the property, but exposures observed to date indicate a medium crystalline granodiorite over much of the area (Figure 3). Several phases of intrusive are likely and several areas of alteration have associated Cu values of interest:

- 1) Shear zone on logging road south of Hwy. 28 in potassic altered granodiorite; chalcopyrite-malachite fracture coatings (soil line G-02).
- 2) Zone of chalcopyrite-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 chalcopyrite 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 chalcopyrite, malachite and azurite on ridge south of stream adjacent to showing #3.
- 5) >10m wide zone of argillic alteration with minor disseminated chalcopyrite 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 2012 Soil Geochemical Survey

On April 3rd, 2012, a roadside soil sampling program was conducted over Western Gateway Mineral's GooseNeck Property, along road extensions south of the 2011 Soil Survey. The field crew consisted of Joe Paquet and Claude Paquet. 60 samples were collected at approximately 50m spacings 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 two existing roads in the southern portion of the main claim (Tenure #558981) 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).

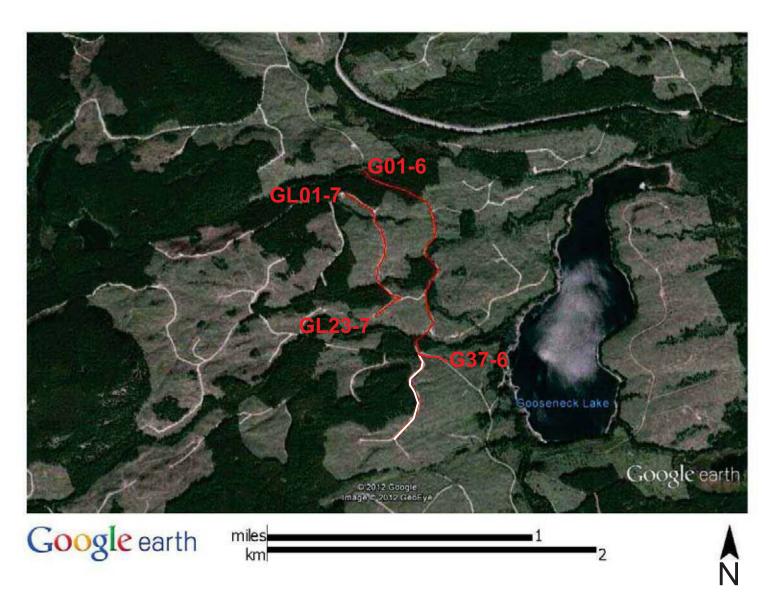


Figure 6: 2012 Soil Line Location Map

#### **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:

Table 2:

Cu	Pb	Zn	Mn	Fe	Sr	V	Ca	Р	Cr	Mg	Ва	Ti	Al
ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	%	ppm	%	%
13.5	13.2	44.4	1132	1.11	45.2	37.7	0.87	.06	7.6	0.15	177	.07	.87

Compared to 2011 average values (Table 3), these average values were similar, with slightly elevated Cu, Pb, Fe, V, Cr, Mg, Ba, Ti and Al values in the 2012 sampling program. Na values were similar at .06ppm (2011) and .05ppm (2012).

Table 3:

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

Percentile values established for the 2012 soil data were used in statistical analysis of the 2012 samples, so that direct comparisons could be made. 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:

Table 4:

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%
Р	≥.095%	≥.077%
Cr	≥14ppm	≥9ppm
Mg	≥.25%	≥.15%
Ва	≥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-Mg, with other elements such as Cr-Mg-Ti creeping in and out of this association.

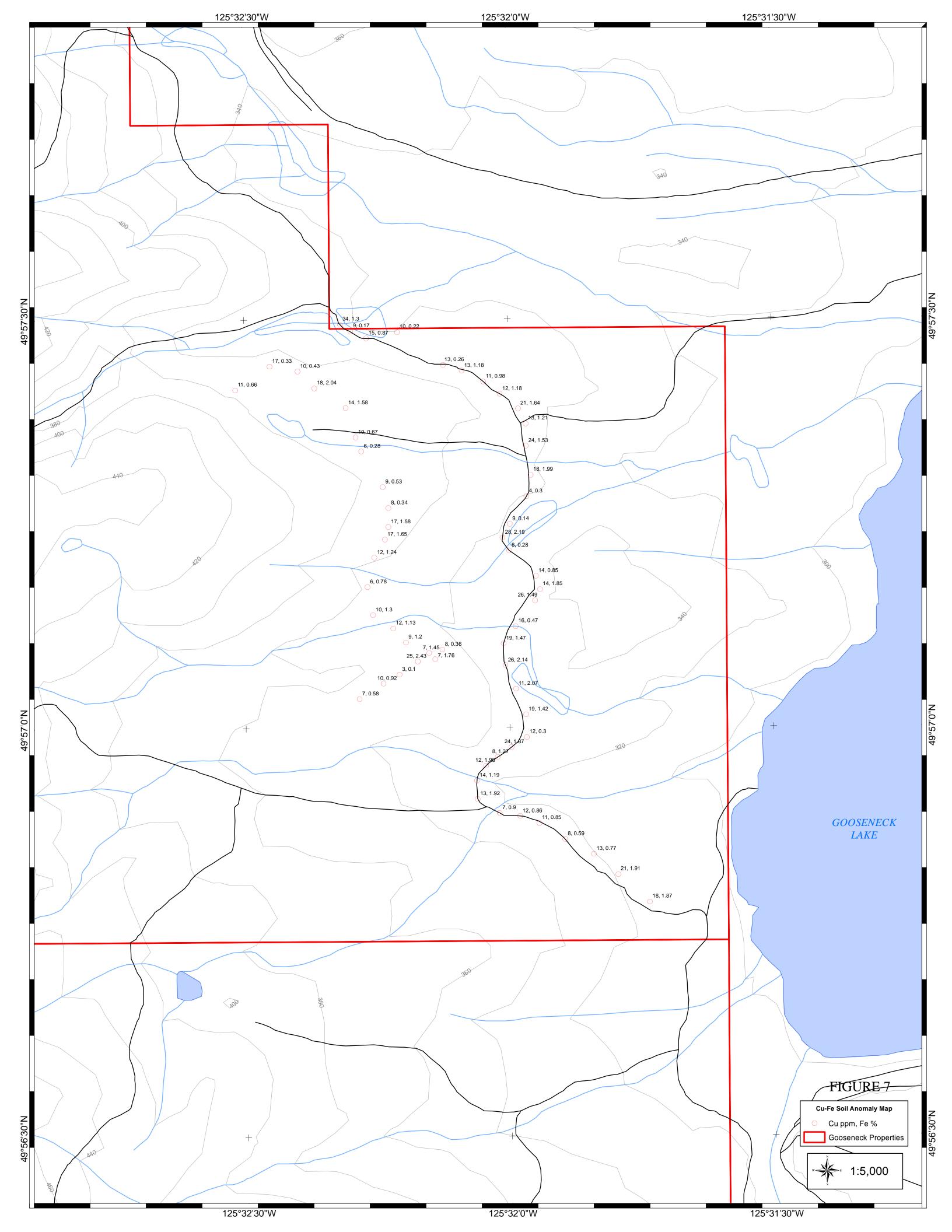
#### **Results**

Line G-6 (1.8km) consists of 37 samples along road QSM200 in an area of thick till cover south of Gooseneck Creek and west of Gooseneck Lake. Much of this line has strong to moderately anomalous Cu-Fe values. Anomalous CU-Fe values at the terminus of Line G-6 may be related to the Showing #6 shearzone (striking 037°) west of Gooseneck Lake close to a stream with anomalous regional geochemical stream Au,Cu values.

Line G-7 (1.1km) consists of 23 samples taken along road QSM250 which roughly parallels Line G-6, approximately 300m upslope to the west. Showing #4 occurs in the vicinity of the start of Line G-7 and although strong chalcopyrite mineralization is exposed in a rock quarry, only moderately anomalous soil values were encountered. Similarly much of this line did not exhibit anomalous Cu values. One isolated strong Cu anomaly was encountered near the southern end of this line and 5 moderate anomalies are spaced throughout the northern portion of the line.



Photo 1: Showing #4 at north end of Line G7



## 5.0 Geological Mapping

On April 24, 2012 Del Ferguson and Joe Paquet set out on a road traverse of QSM300, at the southern end of the claim group, passing from east to west through Mineral Tenures 854530 and 849233. On April 25, 2012 Del Ferguson continued mapping of property roads beginning with QSM100 on the east side of Gooseneck Lake and then on roads QSM 210B and QSM 210 west of Gooseneck Lake. The day was completed by examining GRH500 roads north of Hwy 28 (north of the property). Results are recorded in Table 5.

Table 5:

Site #	Road Name	Location UTM / Lat-Long	Geological Observations
Site #1	QSM 300	318061mE/5 533095mN	-medium crystalline quartz-plagioclase-hornblende > biotite diorite with dominant joint pattern 110°/90°; calcite along this joint set -no alteration -minor disseminated pyrite -photo 1
Site#2	QSM 300	318059mE/5 533093mN	Medium crystalline quartz-plagioclase-kspar- hornblende-biotite granite in contact with Site #1 diorite; no alteration -sharp contact at 035°/82° -<1cm kspar veinlet with blebs of magnetite-pyrite -photo 2
Site #3	QSM 300	317828mE/5 533043mN	-diorite with flow breccia zone of more mafic and felsic material -disseminated pyrite-magnetite in breccia (photo 3) -disseminated pyrite-magnetite in quartz-calcite-epidote veinlets (photo 4) -joint sets at 110°/90° and 010°/90°
Site #4	QSM 300	317600mE/5 533000mN	-~100m outcrop of massive diorite; localized zones of kspar-calcite-quartz epidote veinlets with disseminated pyrite > chalcopyrite along joint sets of 130 to 140°/85 to 90° and 035°/90° -minor disseminated pyrite in diorite -shear zone near south end of outcrop shows slickensides with kspar-epidote at 035°/85°
Site #5	QSM 300	317389mE/5 533004mN	-weakly altered diorite; epidote with disseminated pyrite in float
Site #6	QSM 300	316874mE/5 532932mN	-kspar-plagioclase-quartz (10% mafics) medium crystalline granodiorite; secondary biotite and kspar flooding (potassic alteration) -main joint sets at 50°/90° and 150°/90° -low angled fractures and veinlets through rock at 300°/10° -very weak pyrite in calcite-kspar fractures

#### Table 5 continued:

Site #	Road Name	Location UTM / Lat-Long	Geological Observations
Site #7	QSM 300	316157mE/5 532893mN	-plagioclase-hornblende-biotite > quartz medium to coarse crystalline monzonite -dominant joint sets at 120°/85° and 060°/85° -chlorite-sericite fractures; no mineralization
Site #8	QSM 300	315988mE/ 5533082mN	-rock quarry; photo 5 -epidote-chlorite-sericite alteration in shear zones in monzonite; disseminated and bleb pyrite-magnetite > chalcopyrite; photo 6 -shears are slightly off vertical through well-fractured monzonite
Site #9	QSM 300	315945mE/ 5533965mN	-medium crystalline diorite; very minor pyrite
Site #10	QSM 300	315972mE/ 5534109mN	-several metre wide zone of potassic alteration in diorite -1-2cm wide epidote-kspar-magnetite vein
Site #11	QSM 100	49°57′23″N/ 125°30′57″W	-Nanaimo Group conglomerates along east side of Gooseneck Lake; photo 7
Site #12	QSM 100	49°57′05″N/ 125°30′47″W	-large blocks of conglomerate in old quarry on side of road; photo 8 -mostly thick deposits of boulder-cobble-sandy-silt till on east side of Gooseneck Lake
Site#13	QSM210B	49°56′25″N/ 125°32′19″W	-examined ridge above end of road; all thick till deposits
Site #14	QSM210B	49°56′24″N/ 125°32′15″W	-strongly bleached medium crystalline granodiorite with fracture coatings and veinlets of kspar; photo 9
Site #15	QSM210	49°56′01″N/ 125°31′55″W	->90% tick till blankets Small outcrop ~100m from end of road shows unaltered quartz diorite
North of Hwy 28	GRH 500 roads	49°57′52″N/ 125°31′11″W	-coarse crystalline unaltered diorite -no mineralization

Results of the 2012 road-side mapping program determined the following:

- There are several intrusive phases of the Jurassic Plutonic body, ranging from diorite to granodiorite to granite to monzonite.
- To date, it appears that the granodiorite phase host the majority of known copper mineralization.
- Alteration appears to be weaker in the southern end of the mineral tenure.
- No alteration was noted in diorite outcrops north of the Mineral Tenure.
- Conglomerates of the Nanaimo Group bound the eastern side of the Mineral Tenure.

# FIGURE 8: Geology Photos



Photo 1: Site #1 diorite outcrop

Photo 2: Site #2 granite-diorite contact



Photo 3: Site #3 disseminated pyritemagnetite in breccia through diorite



Photo 4: Site #3 disseminated pyrite-magnetite in quartz-epidote veinlets in diorite



monzonite in rock quarry



Photo 5: Site #8 well-fractured and sheared Photo 6: Site #8 epidote-chlorite-sericite alteration shears in monzonite

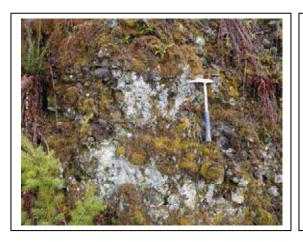


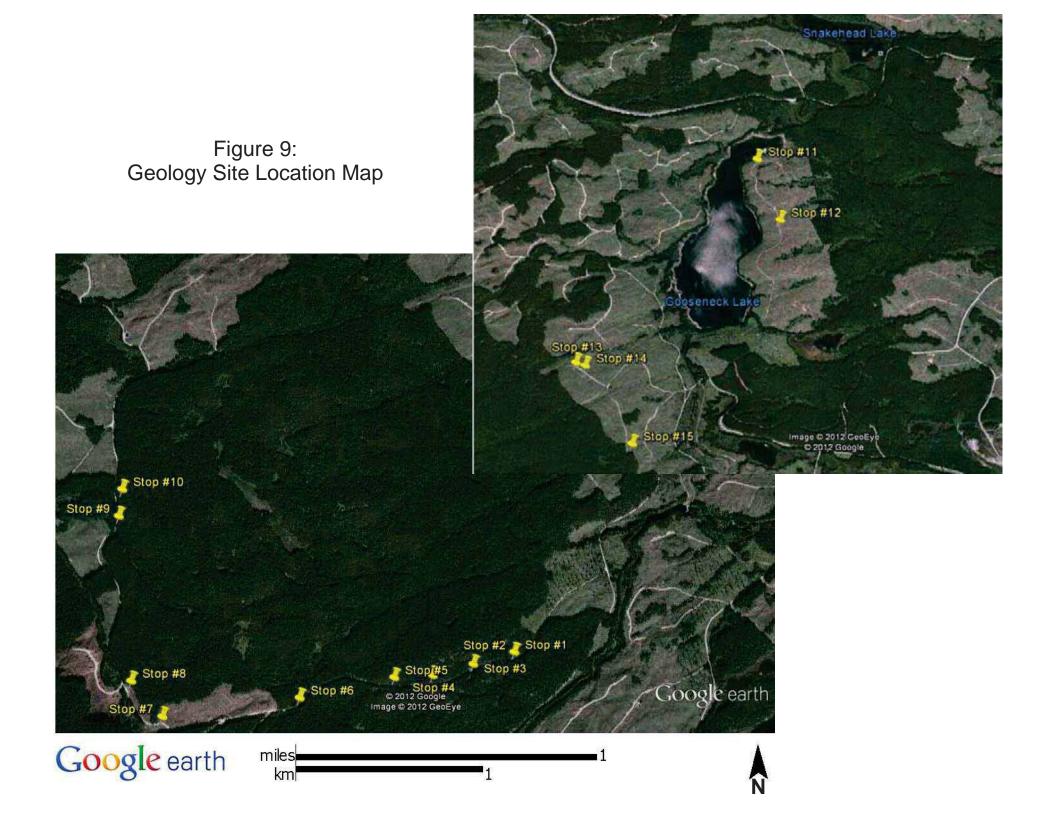
Photo 7: Site #11 conglomerate outcrop



Photo 8: Site #12 conglomerate boulder



Photo 9: Site #14 fracture coating and veinlets of kspar in strongly weathered and bleached medium crystalline granodiorite



#### 6.0 Results & Recommendations

#### **Discussion of Results**

Similar to 2011 results, the 2012 soil geochemical survey over the southeast corner of Mineral Tenure 558981 showed generally low values of all elements, but by applying 95 and 75 percentile thresholds, the results did define anomalous Cu values in soils in this region. This is an area with few outcrops and most of the exposures consist of highly weathered granodiorite. Showing #4 occurs in the northwest corner of the sampling area and returned moderately anomalous Cu soil values of 14 to 18ppm. In showing #4, an approximately 10m wide andesite-basalt dyke cuts 064° through potassic-altered granodiorite. The strongly mineralized hangingwall(?) of the dyke has siliceous-calcareous bands containing significant quantities of chalcopyrite, malachite and azurite. Anomalous CU-Fe values at the terminus of Line G-6 may be related to the Showing #6 shearzone (striking 037°) west of Gooseneck Lake close to a stream with anomalous regional geochemical stream Au,Cu values.

The 2012 survey did succeed in extending the anomalous Cu area further to the southeast 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 2012 soil geochemical survey.

Initial roadside mapping of the property in areas outside of the main showings and alteration show several phases of the intrusive including diorite, monzonite, granite and granodiorite. Southern regions of the mineral tenure appear to be underlain by dominantly diorite and monzonite, with weak alteration and associated mineralization. Areas of intrusive immediately north of the Mineral Tenure consist of unaltered diorite. The tenure is bounded on the east by Nanaimo Group conglomerates.

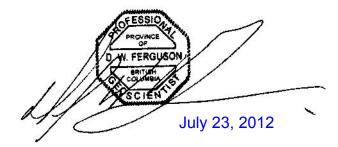
#### Recommendations

The soil sampling program on the GooseNeck Property requires expansion both southward and westward to better define the extent of the Cu-in-soil anomaly. 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.

# APPENDIX I STATEMENT OF QUALIFICATIONS

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

I am a practicing Geoscientist.

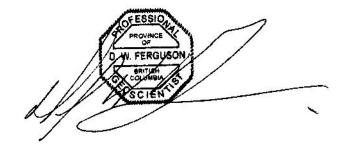
I have practiced my profession for over 33years throughout Canada and mostly in British Columbia.

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, geological mapping, prospecting and researched historical data on the Gooseneck Property and mapping and statistical analysis of 2012 soil Geochemical results.



Delbert Wells Ferguson, P.Geo., FGAC

Dated: July 23, 2012

# **APPENDIX II: STATEMENT OF COSTS**

## GOOSENECK LAKE 2012 SOIL SAMPLING/GEOLOGY MAPPING PROJECT

Field Sampling	Personnel	Rate	Days	Total
	2	300	1	600.00
Sample drying, packaging, shipping	1	450	1	450.00
Expenses Bags, Ribbon, Tags, Mileage Charge,				140.00
Analysis	Soil Samples	(	Cost/sample	
Acme Labs	60		11.58	694.80
Reporting	Geologist	Days		
<u>&amp; Mapping</u> 2 Field; 3 Office	500	5		2,500.00
Expenses Mileage Charge				170.00
Total				4,554.80

# APPENDIX III Reference Material

#### **Local Surveys**

- ARIS Report #32804: Report on 2011 Soil Geochemical Survey on the GooseNeck Lake Cu Property, D. Ferguson, February 2012
- 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



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Western Gateway Minerals Inc.

6286 McCleery St.

Vancouver BC V6N 1G4 Canada

Submitted By: David A. Fawcett
Receiving Lab: Canada-Vancouver

Received: May 11, 2012

Report Date: July 04, 2012

Page: 1 of 3

## **CERTIFICATE OF ANALYSIS**

## VAN12002183.1

#### **CLIENT JOB INFORMATION**

Project: GooseNeck

Shipment ID: P.O. Number

Number of Samples: 60

#### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Del Ferguson

Joseph L Paquet

#### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	60	Dry at 60C			VAN
SS80	60	Dry at 60C sieve 100g to -80 mesh			VAN
1D01	60	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
DISP2	60	Heat treatment of Soils and Sediments			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.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada Phone (604) 253-3158 Fax (604) 253-1716 Client:

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Vancouver BC V6N 1G4 Canada

Project:

GooseNeck

Report Date:

July 04, 2012

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		OF ANALYSIS VAN12002183.1																			
	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	10
	Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	Р	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppn
	MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	
GL01-6 Soil		3	34	9	47	<0.3	6	6	972	1.30	22	<2	<2	57	<0.5	<3	<3	33	1.12	0.064	;
GL02-6 Soil		1	9	8	62	<0.3	2	<1	573	0.17	4	<2	<2	85	<0.5	<3	<3	5	2.00	0.078	<
GL03-6 Soil		<1	15	11	47	<0.3	5	1	1624	0.87	2	<2	<2	76	<0.5	3	<3	30	1.48	0.063	<
GL04-6 Soil		<1	10	12	45	<0.3	3	1	664	0.22	<2	<2	<2	81	<0.5	<3	<3	6	1.40	0.078	<
GL05-6 Soil		2	13	10	32	<0.3	2	<1	532	0.26	<2	<2	<2	71	<0.5	<3	<3	9	1.08	0.068	<
GL06-6 Soil		<1	13	17	47	<0.3	6	2	1415	1.18	3	<2	<2	52	<0.5	<3	<3	38	1.40	0.063	
GL07-6 Soil		<1	11	17	38	<0.3	4	2	971	0.98	3	<2	<2	59	<0.5	<3	<3	34	1.02	0.061	<′
GL08-6 Soil		<1	12	12	41	<0.3	5	2	1258	1.18	2	<2	<2	60	<0.5	<3	<3	40	1.13	0.060	<
GL09-6 Soil		<1	21	6	38	<0.3	8	3	503	1.64	<2	<2	<2	40	<0.5	<3	<3	57	0.79	0.056	- 2
GL10-6 Soil		<1	13	21	45	<0.3	6	3	1478	1.21	2	<2	<2	53	<0.5	<3	<3	42	0.89	0.070	
GL11-6 Soil		<1	24	11	38	<0.3	6	4	450	1.53	7	<2	<2	65	<0.5	<3	<3	47	0.93	0.058	
GL12-6 Soil		<1	18	10	35	<0.3	7	3	515	1.99	<2	<2	<2	32	<0.5	<3	<3	67	0.82	0.049	
GL13-6 Soil		<1	4	7	27	<0.3	1	<1	130	0.30	2	<2	<2	38	<0.5	<3	<3	8	0.49	0.030	<1
GL14-6 Soil		<1	9	10	62	<0.3	2	<1	1195	0.14	<2	<2	<2	56	<0.5	<3	<3	4	1.24	0.085	<1
GL15-6 Soil		10	28	6	65	<0.3	10	6	689	2.19	2	<2	<2	22	<0.5	<3	<3	72	0.58	0.071	
GL16-6 Soil		<1	6	4	21	<0.3	1	<1	78	0.28	<2	<2	<2	22	<0.5	<3	<3	8	0.30	0.014	<
GL17-6 Soil		<1	14	17	43	<0.3	5	1	135	0.85	2	<2	<2	40	<0.5	<3	<3	27	0.76	0.061	<
GL18-6 Soil		<1	14	14	25	<0.3	7	2	396	1.85	2	<2	<2	37	<0.5	<3	<3	65	0.62	0.049	
GL19-6 Soil		<1	26	12	52	<0.3	8	3	1474	1.49	2	<2	<2	55	<0.5	<3	<3	49	0.99	0.080	1
GL20-6 Soil		<1	16	18	60	<0.3	3	1	1550	0.47	5	<2	<2	64	<0.5	<3	<3	14	1.12	0.093	<1
GL21-6 Soil		1	19	13	50	<0.3	5	3	801	1.47	8	<2	<2	46	<0.5	<3	<3	47	0.92	0.053	
GL22-6 Soil		1	26	7	46	<0.3	8	4	650	2.14	5	<2	<2	36	<0.5	<3	<3	71	0.80	0.060	
GL23-6 Soil		1	11	13	43	<0.3	6	2	777	2.07	3	<2	<2	29	<0.5	<3	<3	75	0.61	0.059	
GL24-6 Soil		<1	19	8	37	<0.3	6	3	612	1.42	2	<2	<2	53	<0.5	<3	<3	48	0.99	0.054	
GL25-6 Soil		<1	12	11	31	<0.3	3	<1	123	0.30	<2	<2	<2	46	<0.5	<3	<3	10	0.73	0.081	 <1
GL26-6 Soil		<1	24	11	40	<0.3	10	4	1751	1.87	3	<2	<2	107	<0.5	<3	<3	67	1.34	0.070	
GL27-6 Soil		<1	8	11	31	<0.3	4	<1	305	1.27	3	<2	<2	50	<0.5	<3	<3	45	0.58	0.062	1
GL28-6 Soil		<1	12	9	37	<0.3	8	4	2168	1.96	<2	<2	<2	39	<0.5	<3	<3	67	0.61	0.085	
GL29-6 Soil		<1	14	14	55	<0.3	5	2	1149	1.19	6	<2	<del>~2</del>	80	<0.5	<3	<3	37	1.14	0.068	
GL30-6 Soil		3	13	9	29	<0.3	5	2	464	1.92	2	<2	<2	32	<0.5	<3	<3	67	0.71	0.038	



CERTIFICATE OF ANALYSIS

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Western Gateway Minerals Inc.

6286 McCleery St.

Vancouver BC V6N 1G4 Canada

Project: GooseNeck

Report Date: July 04, 2012

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# VAN12002183.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Cr	Mg	Ва	Ti	В	ΑI	Na	K	w	s	Hg	TI	Ga	Sc
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
GL01-6	Soil	8	0.38	142	0.048	<20	1.39	0.02	0.07	<2	0.10	<1	<5	<5	<5
GL02-6	Soil	2	0.07	277	0.009	<20	0.14	0.01	0.06	<2	0.14	<1	<5	<5	<5
GL03-6	Soil	6	0.13	281	0.061	<20	0.75	0.01	0.05	<2	0.09	<1	<5	<5	<5
GL04-6	Soil	2	0.10	328	0.011	<20	0.24	0.02	0.05	<2	0.15	<1	<5	<5	<5
GL05-6	Soil	2	0.09	215	0.016	<20	0.20	0.01	0.06	<2	0.12	<1	<5	<5	<5
GL06-6	Soil	7	0.21	165	0.066	<20	0.94	0.01	0.05	<2	0.10	<1	<5	<5	<5
GL07-6	Soil	7	0.15	167	0.065	<20	0.65	0.01	0.06	<2	0.08	<1	<5	<5	<5
GL08-6	Soil	9	0.16	178	0.088	<20	0.85	0.01	0.05	<2	0.08	<1	<5	<5	<5
GL09-6	Soil	12	0.32	105	0.124	<20	0.98	0.02	0.05	<2	<0.05	<1	<5	<5	<5
GL10-6	Soil	9	0.19	236	0.077	<20	0.80	0.01	0.03	<2	0.05	<1	<5	<5	<5
GL11-6	Soil	10	0.37	162	0.089	<20	1.19	0.02	0.05	<2	0.07	<1	<5	<5	<5
GL12-6	Soil	14	0.21	156	0.142	<20	1.50	0.01	0.04	<2	<0.05	<1	<5	<5	<5
GL13-6	Soil	2	0.05	105	0.012	<20	0.19	0.02	0.05	<2	0.06	<1	<5	<5	<5
GL14-6	Soil	2	0.09	428	0.007	<20	0.15	0.02	0.08	<2	0.16	<1	<5	<5	<5
GL15-6	Soil	15	0.23	226	0.147	<20	1.99	0.01	0.03	<2	<0.05	<1	<5	<5	<5
GL16-6	Soil	2	0.05	122	0.015	<20	0.23	0.01	0.02	<2	<0.05	<1	<5	<5	<5
GL17-6	Soil	5	0.10	152	0.050	<20	0.61	0.02	0.04	<2	0.12	<1	<5	<5	<5
GL18-6	Soil	12	0.19	87	0.119	<20	1.32	0.01	0.03	<2	0.06	<1	<5	<5	<5
GL19-6	Soil	11	0.24	180	0.105	<20	1.57	0.01	0.06	<2	0.08	<1	<5	<5	<5
GL20-6	Soil	3	0.11	251	0.020	<20	0.42	0.01	0.06	<2	0.14	<1	<5	<5	<5
GL21-6	Soil	8	0.16	229	0.077	<20	1.44	0.01	0.05	<2	0.05	<1	<5	<5	<5
GL22-6	Soil	16	0.30	185	0.128	<20	1.93	0.02	0.06	<2	0.05	<1	<5	<5	<5
GL23-6	Soil	14	0.15	100	0.143	<20	1.46	0.01	0.05	<2	<0.05	<1	<5	<5	<5
GL24-6	Soil	10	0.24	145	0.092	<20	1.06	0.02	0.08	<2	0.08	<1	<5	<5	<5
GL25-6	Soil	2	0.08	54	0.016	<20	0.23	0.02	0.14	<2	0.16	<1	<5	<5	<5
GL26-6	Soil	18	0.28	207	0.146	<20	1.82	0.01	0.04	<2	0.07	<1	<5	<5	<5
GL27-6	Soil	9	0.09	99	0.079	<20	0.77	0.01	0.05	<2	0.07	<1	<5	<5	<5
GL28-6	Soil	14	0.20	86	0.133	<20	1.44	0.01	0.04	<2	<0.05	<1	<5	<5	<5
GL29-6	Soil	8	0.19	271	0.078	<20	0.96	0.01	0.05	<2	0.09	<1	<5	<5	<5
GL30-6	Soil	11	0.16	111	0.103	<20	1.55	0.01	0.05	<2	<0.05	<1	<5	<5	<5



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Report Date:

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CERTIFI	CATE O	F AN	IALY	SIS													VA	N12	2002	183	.1	
		Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
		Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	Р	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	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
GL31-6	Soil		<1	7	12	25	<0.3	2	<1	330	0.90	<2	<2	<2	21	<0.5	<3	<3	36	0.38	0.027	2
GL32-6	Soil		<1	12	18	58	<0.3	4	2	658	0.86	4	<2	<2	37	<0.5	<3	<3	24	0.71	0.092	1
GL33-6	Soil		<1	11	8	30	<0.3	4	1	342	0.85	2	<2	<2	32	<0.5	<3	<3	29	0.65	0.065	1
GL34-6	Soil		<1	8	4	9	<0.3	3	<1	115	0.59	<2	<2	<2	42	<0.5	<3	<3	20	0.76	0.048	<1
GL35-6	Soil		<1	13	7	44	<0.3	4	2	554	0.77	2	<2	<2	33	<0.5	<3	<3	24	0.69	0.083	2
GL36-6	Soil		2	21	9	46	<0.3	7	4	834	1.91	6	<2	<2	44	<0.5	<3	<3	62	0.91	0.066	3
GL37-6	Soil		2	18	9	30	<0.3	7	3	447	1.87	3	<2	<2	56	<0.5	<3	<3	64	0.77	0.052	2
GL01-7	Soil		<1	11	18	61	<0.3	4	<1	2515	0.66	<2	<2	<2	37	<0.5	<3	<3	23	0.94	0.081	<1
GL02-7	Soil		<1	17	15	63	<0.3	4	1	4209	0.33	<2	<2	<2	26	<0.5	<3	<3	8	1.00	0.073	<1
GL03-7	Soil		<1	10	35	65	<0.3	4	<1	2741	0.43	<2	<2	<2	42	<0.5	<3	<3	16	0.99	0.071	<1
GL04-7	Soil		<1	18	15	37	<0.3	9	3	1651	2.04	<2	<2	<2	27	<0.5	<3	<3	71	0.66	0.062	1
GL05-7	Soil		<1	14	19	64	<0.3	8	3	2469	1.58	<2	<2	<2	40	<0.5	<3	<3	55	0.94	0.070	1
GL06-7	Soil		<1	10	40	38	< 0.3	6	<1	1647	0.67	<2	<2	<2	47	<0.5	<3	<3	24	0.98	0.041	1
GL07-7	Soil		2	6	15	30	< 0.3	3	<1	536	0.28	<2	<2	<2	52	<0.5	<3	<3	9	1.09	0.041	<1
GL08-7	Soil		<1	9	20	44	<0.3	3	<1	1163	0.53	<2	<2	<2	46	<0.5	<3	<3	22	0.90	0.057	<1
GL09-7	Soil		<1	8	16	42	<0.3	2	<1	1135	0.34	<2	<2	<2	31	<0.5	<3	<3	11	0.62	0.068	<1
GL10-7	Soil		<1	17	32	83	<0.3	6	2	3706	1.58	<2	<2	<2	53	<0.5	<3	<3	54	0.99	0.072	2
GL11-7	Soil		3	17	12	69	<0.3	6	2	630	1.65	2	<2	<2	21	<0.5	<3	<3	60	0.50	0.056	2
GL12-7	Soil		2	12	12	87	<0.3	5	2	1583	1.24	<2	<2	<2	32	0.5	<3	<3	39	0.83	0.065	2
GL13-7	Soil		<1	6	8	36	<0.3	3	1	354	0.78	2	<2	<2	35	<0.5	<3	<3	30	0.55	0.033	<1
GL14-7	Soil		<1	10	26	73	<0.3	6	2	3230	1.30	<2	<2	<2	54	<0.5	<3	<3	47	1.16	0.064	1
GL15-7	Soil		<1	12	10	39	<0.3	4	2	535	1.13	2	<2	<2	54	<0.5	<3	<3	35	0.89	0.054	<1
GL16-7	Soil		<1	9	10	45	<0.3	4	2	1535	1.20	<2	<2	<2	55	<0.5	<3	<3	40	1.12	0.059	<1
GL17-7	Soil		1	7	9	33	<0.3	4	<1	397	1.45	<2	<2	<2	25	<0.5	<3	<3	58	0.53	0.045	1
GL18-7	Soil		<1	8	11	53	<0.3	2	<1	1979	0.36	<2	<2	<2	46	<0.5	<3	<3	14	1.07	0.071	<1
GL19-7	Soil		<1	7	9	21	<0.3	4	<1	418	1.76	<2	<2	<2	20	<0.5	<3	<3	61	0.40	0.048	1
GL20-7	Soil		<1	25	7	53	<0.3	8	4	1194	2.43	<2	<2	<2	26	<0.5	<3	<3	80	0.55	0.103	1
GL21-7	Soil		<1	3	9	13	<0.3	1	<1	250	0.10	<2	<2	<2	18	<0.5	<3	<3	3	0.30	0.021	<1
GL22-7	Soil		<1	10	15	60	<0.3	4	1	4135	0.92	<2	<2	<2	35	<0.5	<3	<3	32	0.77	0.078	<1
GL23-7	Soil		<1	7	22	46	<0.3	2	<1	1216	0.58	<2	<2	<2	43	<0.5	<3	<3	24	0.79	0.078	<1



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Vancouver BC V6N 1G4 Canada

Project: GooseNeck

Report Date: July 04, 2012

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# CERTIFICATE OF ANALYSIS

# VAN12002183.1

	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Cr	Mg	Ва	Ti	В	ΑI	Na	K	W	s	Hg	TI	Ga	Sc
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
GL31-6	Soil	4	0.04	122	0.016	<20	0.38	0.01	0.05	<2	<0.05	<1	<5	<5	<5
GL32-6	Soil	5	0.15	101	0.034	<20	0.56	0.02	0.09	<2	0.12	<1	<5	<5	<5
GL33-6	Soil	6	0.13	60	0.058	<20	0.67	0.02	0.05	<2	0.08	<1	<5	<5	<5
GL34-6	Soil	3	0.09	71	0.035	<20	0.46	0.02	0.04	<2	0.08	<1	<5	<5	<5
GL35-6	Soil	5	0.15	88	0.045	<20	0.59	0.01	0.07	<2	0.09	<1	<5	<5	<5
GL36-6	Soil	13	0.34	95	0.119	<20	1.57	0.02	0.08	<2	0.05	<1	<5	<5	<5
GL37-6	Soil	13	0.22	71	0.128	<20	1.37	0.01	0.06	<2	0.05	<1	<5	<5	<5
GL01-7	Soil	4	0.10	156	0.034	<20	0.49	0.02	0.07	<2	0.11	<1	<5	<5	<5
GL02-7	Soil	2	0.09	92	0.012	<20	0.29	0.01	0.05	<2	0.12	<1	<5	<5	<5
GL03-7	Soil	3	0.09	202	0.019	<20	0.34	0.02	0.08	<2	0.10	<1	<5	<5	<5
GL04-7	Soil	18	0.19	116	0.141	<20	1.94	0.01	0.04	<2	0.06	<1	<5	<5	<5
GL05-7	Soil	15	0.19	192	0.115	<20	1.28	0.01	0.04	<2	0.08	<1	<5	<5	<5
GL06-7	Soil	5	0.07	170	0.031	<20	0.39	0.01	0.04	<2	0.07	<1	<5	<5	<5
GL07-7	Soil	2	0.05	219	0.012	<20	0.21	<0.01	0.02	<2	0.11	<1	<5	<5	<5
GL08-7	Soil	3	0.07	143	0.035	<20	0.27	0.01	0.06	<2	0.09	<1	<5	<5	<5
GL09-7	Soil	3	0.06	173	0.020	<20	0.31	0.01	0.04	<2	0.08	<1	<5	<5	<5
GL10-7	Soil	8	0.14	380	0.080	<20	1.26	0.01	0.05	<2	0.06	<1	<5	<5	<5
GL11-7	Soil	11	0.16	148	0.094	<20	1.34	0.01	0.04	<2	0.05	<1	<5	<5	<5
GL12-7	Soil	7	0.18	309	0.074	<20	0.84	0.01	0.05	<2	0.08	<1	<5	<5	<5
GL13-7	Soil	5	0.06	377	0.063	<20	0.55	0.01	0.02	<2	0.05	<1	<5	<5	<5
GL14-7	Soil	9	0.11	513	0.083	<20	0.91	0.01	0.05	<2	0.07	<1	<5	<5	<5
GL15-7	Soil	6	0.14	184	0.071	<20	0.92	0.01	0.04	<2	0.08	<1	<5	<5	<5
GL16-7	Soil	7	0.15	277	0.071	<20	0.75	0.01	0.05	<2	0.08	<1	<5	<5	<5
GL17-7	Soil	8	0.10	104	0.103	<20	0.59	0.01	0.04	<2	0.05	<1	<5	<5	<5
GL18-7	Soil	2	0.08	206	0.021	<20	0.24	0.01	0.04	<2	0.12	<1	<5	<5	<5
GL19-7	Soil	13	0.10	49	0.114	<20	1.26	0.01	0.03	<2	<0.05	<1	<5	<5	<5
GL20-7	Soil	19	0.27	93	0.143	<20	2.46	0.01	0.04	<2	<0.05	<1	<5	5	<5
GL21-7	Soil	<1	0.03	54	0.005	<20	0.09	0.01	0.02	<2	<0.05	<1	<5	<5	<5
GL22-7	Soil	7	0.09	210	0.055	<20	0.71	0.01	0.05	<2	0.08	<1	<5	<5	<5
GL23-7	Soil	2	0.06	202	0.026	<20	0.31	0.02	0.04	<2	0.12	<1	<5	<5	<5



1020 Cordova St. East Vancouver BC V6A 4A3 Canada Phone (604) 253-3158 Fax (604) 253-1716

Client: **Western Gateway Minerals Inc.** 

6286 McCleery St.

Vancouver BC V6N 1G4 Canada

Project: GooseNeck Report Date:

July 04, 2012

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QUALITY CONTROL REPORT VAN12002183.1															.1						
	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	10
	Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	٧	Ca	Р	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
Pulp Duplicates																					
GL13-6	Soil	<1	4	7	27	<0.3	1	<1	130	0.30	2	<2	<2	38	<0.5	<3	<3	8	0.49	0.030	<1
REP GL13-6	QC	<1	4	7	27	<0.3	1	<1	130	0.32	3	<2	<2	38	<0.5	<3	<3	8	0.49	0.029	<1
GL08-7	Soil	<1	9	20	44	<0.3	3	<1	1163	0.53	<2	<2	<2	46	<0.5	<3	<3	22	0.90	0.057	<1
REP GL08-7	QC	<1	8	19	44	<0.3	3	<1	1149	0.52	<2	<2	<2	45	<0.5	<3	<3	22	0.89	0.056	<1
Reference Materials																					
STD DS9	Standard	13	107	127	339	1.7	41	6	604	2.44	27	<2	6	79	2.4	5	6	42	0.77	0.086	13
STD DS9	Standard	13	103	129	328	1.5	40	6	574	2.37	25	<2	6	76	2.3	5	6	40	0.75	0.081	13
STD OREAS45CA	Standard	<1	549	20	65	0.4	277	95	997	17.33	<2	<2	6	17	<0.5	<3	<3	228	0.47	0.041	17
STD OREAS45CA	Standard	<1	520	20	62	0.4	264	92	945	16.45	<2	<2	6	16	<0.5	<3	<3	222	0.45	0.039	17
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
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	0.118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
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	<′



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QUALITY CONTROL REPORT															
	Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
	Analyte	Cr	Mg	Ва	Ti	В	AI	Na	K	W	S	Hg	TI	Ga	Sc
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates															
GL13-6	Soil	2	0.05	105	0.012	<20	0.19	0.02	0.05	<2	0.06	<1	<5	<5	<5
REP GL13-6	QC	2	0.05	105	0.013	<20	0.19	0.02	0.05	<2	0.06	<1	<5	<5	<5
GL08-7	Soil	3	0.07	143	0.035	<20	0.27	0.01	0.06	<2	0.09	<1	<5	<5	<5
REP GL08-7	QC	3	0.07	141	0.035	<20	0.27	0.01	0.06	<2	0.09	<1	<5	<5	<5
Reference Materials															
STD DS9	Standard	118	0.65	345	0.119	<20	1.01	0.09	0.41	3	0.18	<1	<5	<5	<5
STD DS9	Standard	115	0.62	333	0.115	<20	0.97	0.09	0.40	3	0.17	<1	<5	<5	<5
STD OREAS45CA	Standard	827	0.15	183	0.154	<20	4.05	0.01	0.08	<2	<0.05	<1	<5	16	53
STD OREAS45CA	Standard	793	0.15	177	0.142	<20	3.84	0.01	0.08	<2	<0.05	<1	<5	12	50
STD OREAS45CA Expected		709	0.1358	164	0.128		3.592	0.0075	0.0717		0.021	0.03	0.07		
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.1615	0.2	5.3	4.59	2.5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5