



## Geochemical Survey

on the

### LITTLE OLIVER PROPERTY

**OMINECA MINING DIVISION  
BRITISH COLUMBIA**

#### Tenures

**569665, 579123, 592524, 595193  
583699, 583954, 592525 & 589305**

**BC Geological Survey  
Assessment Report  
31303**

#### Location

**NTS Map 103I/16**

**Lat 54°48'N, Long 128°14'W**

#### Owner

**Ronald John Bilquist  
1410 Degnen Road  
Gabriola Island, B.C.  
V0R 1X7**

#### Prepared by

**JAMES M. DAWSON, P.Eng.  
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Vancouver, B.C. V6C 2T6**

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT DEPARTMENT

November 30, 2009

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0 MILES  
100 200  
0 KILOMETRES  
100 200 300

## LOCATION MAP LITTLE OLIVER PROPERTY

OMENICA MINING DIVISION  
BRITISH COLUMBIA

TECH WORK BY: DAWSON GEOL. CONS. LTD.	SCALE: As Shown
DRAWN BY: JMD/KK	DATE: Oct, 2009
APPROVED BY: JMDAWSON, P.ENG	DWG. Number 809-02-01

### **Introduction:**

This report summarizes the results of a prospecting and geochemical sampling program carried out on the property during August and September, 2009. The writer made a helicopter reconnaissance of the property and subsequently examined accessible parts of the property on September 9, 2009 on foot. Subsequently 184 soil samples were collected from accessible parts of the property.

The Little Oliver property has been explored in a preliminary fashion on at least 2 previous occasions and contains mineral occurrences of the volcanic redbed copper type as well as mesothermal gold quartz veins.

### **Location and Access**

The claim block is located in west-central British Columbia (see figure 809-02-01). The center of the property is located at  $54^{\circ}48'$  north latitude and  $128^{\circ}14'$  west longitude about 40 km northeast of the town of Terrace and roughly 80 km due west of the town of Smithers, B.C.

The property is accessible by road from either Terrace or Smithers via Provincial Highway 16 which passes immediately west of the property and follows the east bank of the Skeena River to New Hazelton and thence easterly to Smithers. An old logging road leads easterly from Highway 16 just south of the mouth of Little Oliver Creek and accesses the south-central part of the claim block (see Figures 809-02-04A, B & C). The remainder of the property is accessible only on foot or by helicopter.

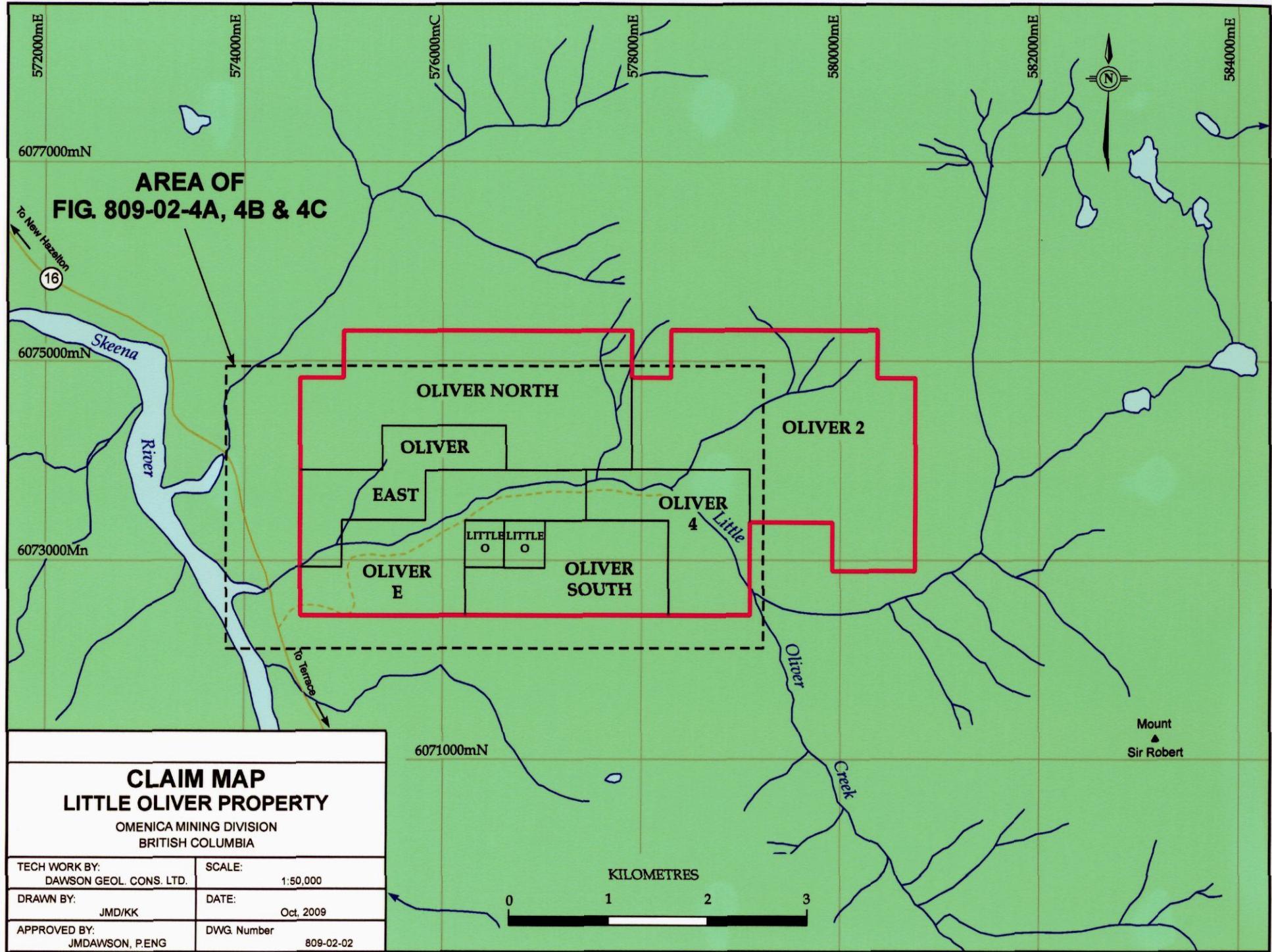
### **Physiography, Vegetation and Climate**

The property is located along the western slopes of the Bulkley Ranges, on the eastern side of the valley containing the Skeena River. The claim block covers the lower reaches of Little Oliver Creek and the prominent ridges to the north and south of this steep sided valley (see Figure 809-02-02). This portion of Little Oliver Creek is oriented roughly east northeast at right angles to the upper drainage of the creek and could be fault controlled as the same linear feature continues to the east.

Topography along Little Oliver Creek is steep to locally precipitous with elevations rising rapidly from about 700 feet (ASL) to as much as 4,000 feet in the southeast corner of the claims. The slopes along the northern side of the canyon are particularly difficult and consequently the logging access road was built along the south side of the creek.

Total relief on the property is in the order of 3,000 feet with the creek level varying within the property from 500 to 1200 feet and the ridges along the north and east property boundaries rising to between 4,000 and 5,200 feet (ASL).

The property is heavily forested with mature stands of spruce, fir and cedar. Although a logging road traverses the property, the only logging carried out (roughly 25 years ago) is south of the southeast corner of the property on the western slopes of the valley containing Little Oliver Creek.



Climate in this part of British Columbia is cool temperate with short warm to cool summers and long cold winters. Fieldwork can be carried out on the property from mid June to late September although the optimum time is probably August when creek levels are low.

### Property

The property is comprised of eight MTO claims which comprise a roughly rectangular east-west trending block measuring roughly 6 km by 2.5 km and aggregating 1509.76 hectares.

Pertinent claim information is as follows:

Claim Name	Tenure No.	Size (ha)	Expiry Date
Oliver North	569665	372.73	Sept 1/2011
Oliver 2	579123	465.93	Mar 25/2010
Oliver East	592524	130.48	Sept 1/2011
Oliver E	595193	205.07	Sept 1/2011
Little O	583699	18.64	Sept 1/2011
Little O	604692	18.64	Sept 1/2011
Oliver South	592525	149.14	Sept 1/2011
Oliver 4	589305	149.13	Sept 1/2011

\*pending acceptance of this report

### History

The first recorded work on the subject property was carried out in 1980 when reconnaissance prospecting and mapping was completed on the Two Goat copper occurrences located on the north side of Little Oliver Creek (see Figure 809-01-03). Copper mineralization as sulfides and carbonates is located on fractures in a stratabound zone hosted by rusty rhyolite (Richards, 1980). In 1988 the property was restaked and explored as part of a regional prospecting venture carried out for Atna Resources Ltd. Reconnaissance work located gold-copper-iron values in quartz-magnetite-chalcopyrite mineralization in float. The source of the mineralized float was never found. The area was included in a regional mapping project completed by the British Columbia Geological Survey during 2005 and 2006 and published as Open File 2007-4: Geology of the Terrace Map Area in 2007. The property was restaked by Ron Bilquist and he completed a brief prospecting and silt sampling program in 2009.

The writer made a brief helicopter reconnaissance of the property and traversed the old logging road on September 17 and 18, 2009. A three day soil sampling program was completed by a two man crew between October 2 - 6, 2009.

### Regional Geology

The northeastern part of the Terrace area is located immediately east of an important geological boundary; that between the Coast and Intermontane belts. The area around the Little Oliver

property encompasses two geological domains: the southern tip of the Bowser Basin and a late Paleozoic to Middle Jurassic portion of the Stikine Terrane (the Hazelton Group). The Bowser Lake Group of mid Jurassic to mid Cretaceous age has been interpreted as a back-arc and foredeep clastic wedge on Stikinia. It is composed of marine and non-marine sediments shed from uplifts to the north, east and south. The Hazelton Group is a Lower to Middle Jurassic volcanic assemblage of the Stikine Terrane. In the northeast part of Terrace map sheet (103I), it is composed of the Smithers and Telkwa Formations. The Smithers Formation consists of greenish volcanic sandstone, siltstone, tuff, tuffaceous sediments and tuff breccia of lower Middle Jurassic age. Telkwa formation is comprised of a sequence of Late Triassic to early Jurassic calc-alkaline basalt to rhyolite breccia, tuff and flows with minor intra-volcanic sediments. Locally red and green tuff and lesser breccia are noted.

Rocks of the Bowser Lake and Hazelton groups are relatively unmetamorphosed considering their proximity to large plutonic bodies and high grade metamorphic rocks of the Coast Plutonic Complex. Nelson and Kennedy (2007) note that the geology, structure and mineralization observed in the Terrace area results from the conjunction of two fundamental provinces within the British Columbia Cordillera. Stratigraphically and in terms of its older (Early Jurassic) plutons, the area is part of the Stikine Terrane. Structurally it shows a strong influence of the eastern Coast Belt Orogen.

### **Property Geology**

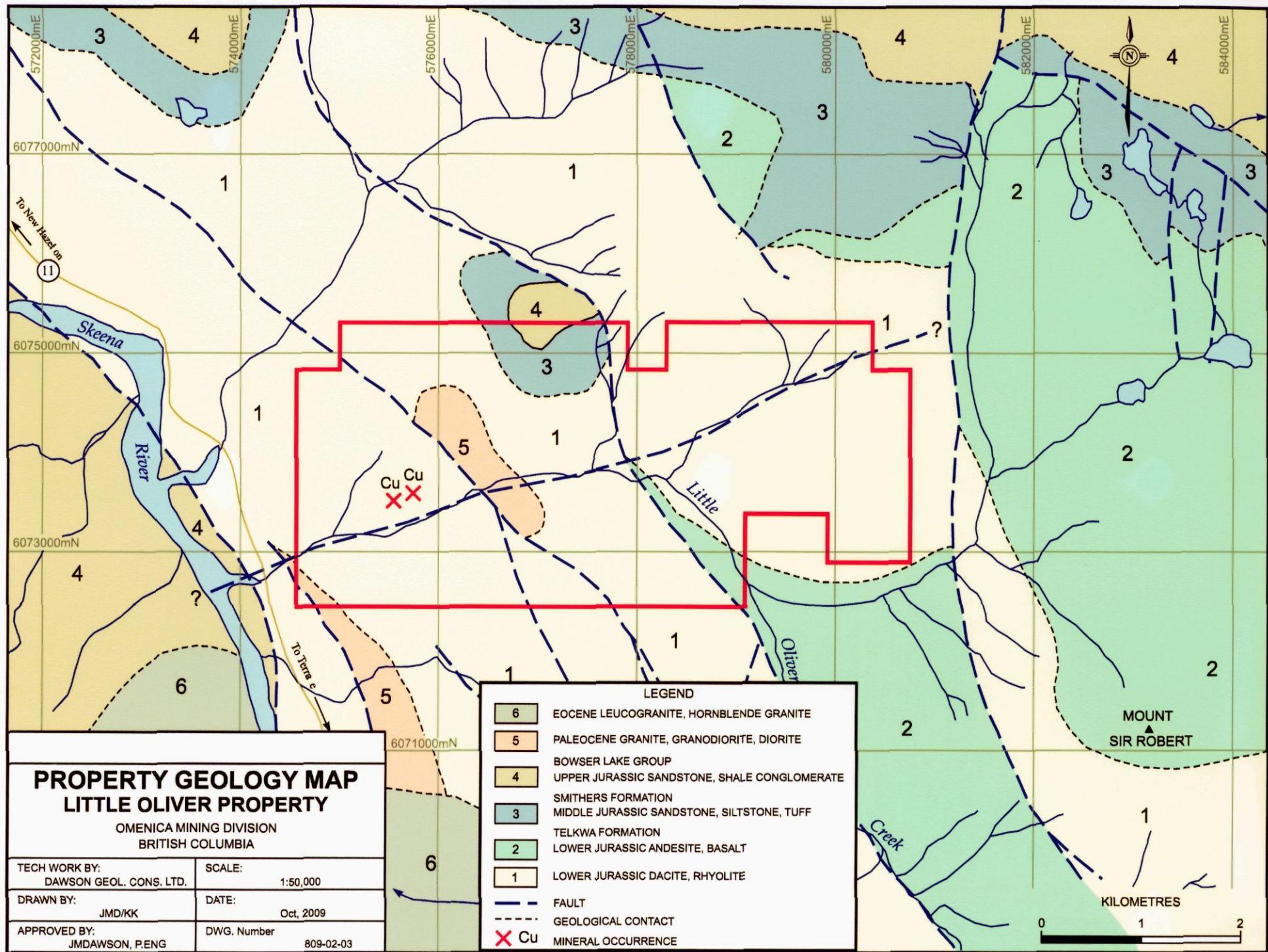
The property is underlain primarily by light to dark colored, massive to banded dacites and lesser rhyolites which are part of the Telkwa Formation of the Hazelton Group. These rocks are overlain by a sequence of andesite and basalt flows and fragmentals which only outcrop in the southeast corner of the property and are in fault contact with the more felsic units. A small inlier of younger rocks representing clastic sediments of the Smithers Formation and overlying marine sediments of the Bowser Lake Group are present in one area near the northern boundary of the claims. These older rocks are intruded by variably to strongly foliated granite and granodiorite of the Paleocene Kitsumkalum Suite. Two elongate, fault bounded lenses of these rocks occur in the western part of the subject property.

The following observations are from Bilquist (2009):

“While prospecting, three distinct geological features were noted. On the eastern side of the claims the rock appears to be dark green, weakly foliated dacite. This rock has considerable pyrite, semi-massive to massive with foliation giving the pyrite the appearance of being banded. Although not seen in place, abundant angular boulders of a grey to white “rhyolite” with 2-5% pyrite were also noted in this area.

In the western regions of the claims, the rock appears to be a dark green dacite but where the grain size becomes larger the rock appears to be possibly intrusive in nature.

In one narrow zone, in the central area of the claims breccias are noted with clasts being quartz as well as a tan to orange colored volcanic. The clasts are approximately 1 cm. in size. In places the breccia is welded with magnetite and in other areas is silicified and the clasts are hard to identify. In the silicified breccia, magnetite is absent but there is disseminated pyrite. Slickenside was also noted in this area. An outcrop to the west of this location was identified as an ignimbrite with elongated fragments (fiamme) quite evident.”



Richards (1980) noted a number of northwesterly trending faults which cut through the property and can be seen as linears on air photos and satellite imagery. In a later report Richards (1988) speculated that the valleys of Little Oliver and Big Oliver Creeks might be controlled by east-northeast trending cross faults off the main northerly trending structures. The intersection of these fault sets could be the focus of later hydrothermal activity

### **Mineralization**

Richards (1988) has succinctly described mineralization observed on the Little Oliver Property:

"Two types of mineralization are present on the property. The more significant is an assemblage of quartz-chalcopyrite-magnetite-chlorite that appears to represent the trace of a major east-west trending cross fault. The mineralization has been noted in three locations; gold of values 22,800, 4140, 750, 560 and 445 PPB is associated with quartz knots, stringers and lenses in proximal, chloritic schistose blocks and boulders. No thicknesses have been measured and the zone has not been located in outcrop. Silver values are generally low, and a strong association of gold with copper and magnetite has been noted. It is probable that the three gold-bearing anomalies are hosted in a major shear zone.

A second type of mineralization is found in outcrop north of Little Oliver Creek (see Figure 809-02-03). Here, chalcopyrite on fractures in rhyolite, chalcopyrite-quartz stringers and chalcopyrite in lenses, veins and stringers in diabase has been noted. Gold values in the few samples analyzed, have been modest (to 170 PPB); silver values ranged to 32.1 PPM. The mineralization is hosted in rusty, light purple rhyolite, in diabase and along the contact of diabase and rhyolite. Similar mineralization was noted on the slopes south of Little Oliver Creek"

### **Current Work Program**

The current work program was focused on locating the source of mineralized boulders located by the Atna Resources prospecting program completed in 1988. Mr. Ron Bilquist spent 5 days traveling and prospecting the property (August 3-7, 2009) and focused on geochemical silt sampling of the main drainages of Little Oliver Creek. A total of 12 silt samples were taken – 6 were from panned stream sediments and 6 were from moss mats where it was difficult to find stream sediments. In addition 5 rock samples were taken from outcrops south of Little Oliver Creek. The locations of silt and rock samples are shown on Figure 809-02-04A.

After the writer's property examination on September 14, 2009, it was decided to run several lines of soil samples along the "base of slope" on the south side of Little Oliver Creek. This work was completed during the period October 2-6, 2009 and resulted in the collection of a total of 184 soils and 2 rock samples. The location of all samples is shown on Figure 809-02-04A.

### **Discussion of Results**

Bilquist (2009) discusses his results as follows:

"Using the stream sediment sampling as an orientation survey, the moss mat sampling method is definitely superior to sampling the fines, or silts, from the gravels. In the moss mat samples there is a wider and more dramatic range of values in the gold analysis. Values in gold range between 63.9 ppb and 4579.4 ppb and iron values are coincidentally and correspondingly elevated as well. Copper and silver also express quite well and elevated values correspond with the elevated values of gold. Mercury also is elevated where the gold values are highest. There appears to be a definite gold cut off upstream on Little Oliver Creek near the point where the creek turns and flows from the southwest. This concurs with the known locations of old mineral showings.

The samples taken from the stream sediments (silts) were uniformly very low with barely any significant spreads in values. Copper possibly could be used as there seems to be an identifiable spread in values but generally the moss mats appear to be the best indicator of possible anomalies and moss is abundant along the course of the streams in this district.

The most probable reason for the difference in values between the moss mat samples and the silt samples is that Little Oliver Creek is nearly always high and very fast moving creating a constant flushing with really no areas where the fines can settle. The moss mats work as a trap for the fines and the sampling of these will likely always work in these conditions.

Three of the moss mat samples exceeded 1000 ppb (1 gram/ton) with values of 1197.5 ppb, 2002.8 ppb and 4579.4 ppb. These results could indicate a strong possibility of placer gold potential. Also, panning for gold as an indicator may be a useful and economical tool to aid in defining targets.

Four rock samples were taken from proximal talus float below the source in the cliffs on the north side of Little Oliver Creek. The host rocks are described as volcanics with occasional quartz veins and copper staining. Three of these samples were anomalous in copper with corresponding anomalous iron. Of these, two had anomalous silver with one of these two being anomalous in cobalt and gold."

The results of soil sampling were very disappointing as only one significant gold value was returned from the analyses (see Appendix A). Nevertheless, the coincidence of anomalous copper values in soils with the high copper-gold values in float from the previous work by Atna resources and the anomalous gold values obtained in silts (moss mats) from Bilquist's 2009 work does suggest multiple localized sources of mineralization

### **Summary and Conclusions**

The Little Oliver property is underlain primarily by felsic volcanic rocks of the Lower Jurassic Hazelton Group and contains two types of mineralization. The first type is volcanic red bed copper occurrences which appear to have a restricted extent and limited exploration potential. The second type which has only been located by previous workers in float is a mesothermal ? gold-magnetite-copper sulfide type in quartz veins and stringers.

Detailed soil sampling was unable to locate the source or sources of the gold mineralization, however anomalous gold in silt samples confirms its presence. In addition, the writer was accompanied on the property examination by a prospector who was part of the team who carried out the Atna prospecting work in 1988 and did observe free gold in some samples.

It is the writer's opinion that the gold-magnetite copper mineralization noted in float by the Atna work is probably in quartz veins and lenses which occur at the intersection of the set of NNW trending faults with the easterly trending structure interpreted to lie along the lower reaches of the valley of Little Oliver Creek. Detailed silt sampling, prospecting, closely spaced soil sampling and trenching will be necessary to locate this mineralization in place.

## STATEMENT OF EXPENDITURES

<b>Exploration Work type</b>	<b>Comment</b>	<b>Days</b>	<b>Rate</b>	<b>Totals</b>
<b>Personnel / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>
R. Bilquist/prospector	Aug 03 to 07, 2009	5	\$400.00	\$2,000.00
J.M. Dawson P. Eng.	Aug 18, Oct 12 & 13, Nov 16, 18, 24 /09	6	\$650.00	\$3,900.00
Hendex Exploration Services	Geochem Contract Oct 02 to 06/09		\$0.00	\$4,777.60
				<b>\$10,677.60</b>
<b>Office Studies</b>	<b>List Personnel</b>			
General research	R. Bilquist	1.0	\$400.00	\$400.00
Report preparation	R. Bilquist, J.M. Dawson (drafting, copies, writing/typing, binding, secretarial)			\$1,948.75
Other (specify)				
				<b>\$2,348.75</b>
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Stream sediment	ACME 12 samples		\$22.09	\$265.61
Soil	ALS Chemex 184 samples	184.0	\$27.17	\$4,999.50
Rock	ACME 5 samples		\$27.26	\$136.30
Rock	ALS Chemex 2 samples	2.0	\$27.17	\$54.34
				<b>\$5,455.75</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Airfare	half round Vancouver-Smithers		\$0.00	\$485.75
truck rental	Ford 4x4	5.50	\$75.00	\$412.50
fuel			\$0.00	\$132.20
Helicopter (hours)	1 hr fuel included		\$0.00	\$1,029.77
Fuel (litres/hour)			\$0.00	\$0.00
				<b>\$2,060.22</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>			
Hotel		\$80.50	4.00	\$322.00
Meals	actual		\$0.00	\$249.40
				<b>\$571.40</b>
<b>Miscellaneous</b>				
Telephone	satalite phone	5.50	\$10.00	\$55.00
Other (Specify)	maps, field gear(flagging,bags..)			\$136.65
				<b>\$191.65</b>
<b>Freight, rock samples</b>	<b>shipping</b>		\$0.00	\$19.40
			\$0.00	\$0.00
				<b>\$19.40</b>
				<b>\$19.40</b>
<b>TOTAL Expenditures</b>				<b>\$21,324.77</b>

## **APPENDIX A**

**GEOCHEMICAL CERTIFICATES**  
(including sample preparation &analytical procedures)



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

Acme Analytical Laboratories (Vancouver) Ltd.

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

Client: **Vintage Prospecting**  
1410 Degnen Rd  
Gabrilola BC V0R 1X7 Canada

Submitted By: Ron Bilquist  
Receiving Lab: Canada-Vancouver  
Received: August 17, 2009  
Report Date: August 27, 2009  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN09003600.1

### CLIENT JOB INFORMATION

Project: LITTLE OLIVER  
Shipment ID:  
P.O. Number  
Number of Samples: 12

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	12	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	12	Dry at 60C			VAN
1DX15	12	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### SAMPLE DISPOSAL

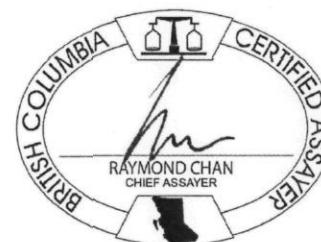
STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

### ADDITIONAL COMMENTS

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

Invoice To: Vintage Prospecting  
1410 Degnen Rd  
Gabrilola BC V0R 1X7  
Canada

CC:



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.  
\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Vintage Prospecting**  
1410 Degnen Rd  
Gabriola BC V0R 1X7 Canada

Project: **LITTLE OLIVER**  
Report Date: August 27, 2009

Page: 2 of 2 Part 1

## CERTIFICATE OF ANALYSIS

VAN09003600.1

Analyte	Method	1DX15																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
LOS001	Silt	1.6	69.3	26.6	82	0.8	10.0	19.0	661	6.93	15.8	0.4	4579	1.1	14	0.2	0.6	1.3	96	0.38	0.119
LOS002	Silt	0.9	16.7	3.8	51	<0.1	19.6	7.9	543	2.42	3.9	0.4	2.8	0.7	19	0.2	0.3	<0.1	43	0.32	0.051
LOS003	Silt	1.4	44.3	13.8	77	0.3	9.3	13.1	605	5.21	11.4	0.4	249.4	1.1	14	0.2	0.5	1.1	81	0.32	0.109
LOS004	Silt	0.7	40.7	9.1	82	0.1	9.6	10.6	809	3.29	7.9	0.3	6.8	0.9	15	0.2	0.5	0.1	57	0.32	0.090
LOS005	Silt	1.7	46.6	11.4	90	0.3	10.7	12.8	714	4.62	13.7	0.4	4.1	0.9	15	0.3	0.7	0.5	72	0.33	0.104
LOS006	Silt	1.4	55.1	20.0	82	0.5	8.8	15.1	661	5.90	10.7	0.5	1198	1.0	15	0.3	0.8	0.3	91	0.35	0.114
LOS007	Silt	1.3	39.1	12.7	83	0.2	9.3	12.3	688	4.45	8.4	0.4	63.9	1.0	15	0.1	0.5	0.5	73	0.31	0.098
LOS008	Silt	1.1	42.7	9.2	84	0.2	7.9	10.0	848	3.36	6.9	0.4	6.2	0.9	16	0.2	0.4	0.2	54	0.28	0.088
LOS009	Silt	0.7	46.5	11.3	98	0.1	10.8	11.9	997	3.59	8.5	0.4	8.9	0.9	20	0.3	0.5	0.2	59	0.37	0.095
LOS010	Silt	1.3	47.5	15.9	80	0.4	9.6	13.2	627	5.16	10.1	0.4	495.2	1.0	16	0.2	0.6	0.7	81	0.34	0.111
LOS011	Silt	1.4	53.1	18.3	79	0.6	9.5	15.5	528	6.45	12.4	0.6	2003	1.1	14	0.2	0.6	0.4	105	0.34	0.115
LOS012	Silt	0.3	11.0	4.6	65	<0.1	24.6	7.7	580	2.75	4.5	0.2	<0.5	0.6	19	0.1	0.4	<0.1	42	0.29	0.052



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Client: **Vintage Prospecting**  
1410 Degnen Rd  
Gabriola BC V0R 1X7 Canada

Project: **LITTLE OLIVER**  
Report Date: August 27, 2009

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN09003600.1

Method	Analyte	1DX15															
		La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
LOS001	Silt	7	18	0.50	98	0.080	<1	0.51	0.004	0.10	2.3	0.17	2.3	<0.1	0.57	3	0.5
LOS002	Silt	8	24	0.56	141	0.041	<1	1.11	0.007	0.04	0.2	0.02	2.4	<0.1	<0.05	4	<0.5
LOS003	Silt	7	15	0.53	131	0.064	<1	0.53	0.005	0.09	1.2	0.02	2.3	<0.1	0.16	3	<0.5
LOS004	Silt	7	14	0.68	161	0.065	<1	0.79	0.006	0.12	0.3	<0.01	3.0	<0.1	<0.05	3	<0.5
LOS005	Silt	7	15	0.62	136	0.059	<1	0.67	0.007	0.10	1.1	0.02	2.7	<0.1	0.16	3	<0.5
LOS006	Silt	7	17	0.54	126	0.077	<1	0.53	0.005	0.09	1.5	0.01	2.4	<0.1	0.29	3	0.5
LOS007	Silt	7	16	0.63	154	0.065	<1	0.65	0.006	0.11	0.5	0.01	2.7	<0.1	0.12	3	<0.5
LOS008	Silt	7	12	0.67	206	0.064	<1	0.68	0.006	0.13	0.2	<0.01	2.9	<0.1	<0.05	3	<0.5
LOS009	Silt	7	16	0.81	246	0.076	<1	0.94	0.008	0.15	0.3	<0.01	3.4	<0.1	<0.05	4	<0.5
LOS010	Silt	7	16	0.57	143	0.078	<1	0.59	0.007	0.10	1.0	<0.01	2.6	<0.1	0.22	3	<0.5
LOS011	Silt	7	17	0.52	91	0.079	<1	0.52	0.005	0.10	1.9	0.08	2.2	<0.1	0.48	3	<0.5
LOS012	Silt	4	24	0.59	100	0.021	<1	1.58	0.005	0.04	0.1	0.02	3.0	<0.1	<0.05	5	0.9



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Acme Analytical Laboratories (Vancouver) Ltd.

**Client:** **Vintage Prospecting**  
1410 Degnen Rd  
Gabriola BC V0R 1X7 Canada

**Project:** LITTLE OLIVER  
**Report Date:** August 27, 2009

Page: 1 of 1 Part

## QUALITY CONTROL REPORT

VAN09003600.1



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**Project:** LITTLE OLIVER  
**Report Date:** August 27, 2009

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**Page:** 1 of 1    **Part:** 2

## QUALITY CONTROL REPORT

VAN09003600.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	
<b>Pulp Duplicates</b>																	
LOS005	Silt	7	15	0.62	136	0.059	<1	0.67	0.007	0.10	1.1	0.02	2.7	<0.1	0.16	3	<0.5
REP LOS005	QC	7	14	0.59	145	0.063	<1	0.63	0.006	0.10	0.9	0.48	3.0	<0.1	0.11	3	<0.5
<b>Reference Materials</b>																	
STD DS7	Standard	12	188	0.98	388	0.116	45	0.95	0.072	0.41	3.8	0.20	2.3	4.1	0.16	5	3.7
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Client: **Vintage Prospecting**  
1410 Degnen Rd  
Gabrilola BC V0R 1X7 Canada

Submitted By: Ron Bilquist  
Receiving Lab: Canada-Vancouver  
Received: August 17, 2009  
Report Date: August 31, 2009  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN09003599.1

### CLIENT JOB INFORMATION

Project: LITTLE OLIVER  
Shipment ID:  
P.O. Number  
Number of Samples: 5

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200	5	Crush, split and pulverize rock to 200 mesh			VAN
1DX15	5	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### SAMPLE DISPOSAL

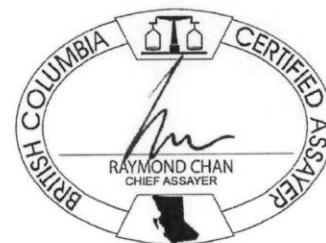
STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

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

Invoice To: Vintage Prospecting  
1410 Degnen Rd  
Gabrilola BC V0R 1X7  
Canada

CC:



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.  
\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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## Acme Analytical Laboratories (Vancouver) Ltd.

**Client:** **Vintage Prospecting**  
1410 Degnen Rd  
Gabriola BC V0R 1X7 Canada

Project: LITTLE OLIVER  
Report Date: August 31, 2009

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Page: 2 of 2 Part

## CERTIFICATE OF ANALYSIS

VAN09003599.1

Method	WGHT	1DX15																			
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%							
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
OL0014	Rock	0.84	0.3	924.0	3.3	10	0.3	1.2	4.3	162	1.97	<0.5	0.1	20.8	1.8	5	<0.1	0.1	0.1	17	0.07
OL0015	Rock	1.08	0.7	7394	10.0	145	20.5	3.9	86.1	799	12.23	14.9	0.1	152.2	0.3	4	4.2	0.6	1.8	37	0.13
OL0016	Rock	0.36	0.3	146.0	0.4	3	0.3	1.4	0.7	43	0.30	0.6	<0.1	5.3	<0.1	2	<0.1	<0.1	<0.1	<2	0.06
OL0017	Rock	0.60	0.7	5269	1.7	60	12.9	3.8	38.3	674	4.77	0.7	0.1	13.5	1.0	6	0.6	<0.1	0.5	17	0.09
OL0018	Rock	0.88	0.3	23.9	0.7	7	<0.1	1.3	2.9	159	0.49	<0.5	<0.1	3.4	0.2	3	<0.1	<0.1	0.1	2	0.04



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Client: **Vintage Prospecting**  
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Project: **LITTLE OLIVER**  
Report Date: August 31, 2009

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

**VAN09003599.1**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	
OL0014	Rock	0.009	14	19	0.08	43	0.005	<1	0.31	0.035	0.14	<0.1	0.01	0.8	<0.1	<0.05	2	<0.5
OL0015	Rock	0.007	<1	12	0.34	13	0.003	<1	0.87	0.001	0.09	1.0	0.04	0.9	<0.1	5.87	8	11.5
OL0016	Rock	<0.001	<1	16	0.01	21	<0.001	<1	0.03	0.004	0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5
OL0017	Rock	0.009	4	19	0.49	24	0.004	<1	1.12	0.021	0.06	<0.1	<0.01	1.5	<0.1	0.74	10	9.8
OL0018	Rock	0.007	1	21	0.09	9	0.013	<1	0.23	0.011	0.06	0.8	<0.01	0.4	<0.1	<0.05	<1	<0.5



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**Project:** LITTLE OLIVER  
**Report Date:** August 31, 2009

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Page: 1 of 1 Part

## QUALITY CONTROL REPORT

VAN09003599.1

Method	WGHT	1DX16																				
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	Unit	kg	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%									
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Reference Materials																						
STD DS7	Standard		18.8	104.1	58.0	350	0.8	54.5	9.2	570	2.30	41.8	4.1	59.3	3.3	59	5.4	4.7	3.8	80	0.93	
STD DS7	Standard		21.1	105.1	62.8	372	0.8	56.7	9.6	577	2.30	42.4	4.3	63.1	3.6	61	5.7	4.9	4.1	80	0.95	
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<1	<0.1		
Prep Wash																						
G1	Prep Blank		<0.01	0.3	3.7	6.2	45	0.2	3.6	4.3	568	1.90	<0.5	1.9	24.1	4.9	48	<0.1	0.1	<0.1	35	0.44



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Project: **LITTLE OLIVER**  
Report Date: August 31, 2009

Page: 1 of 1 Part 2

## QUALITY CONTROL REPORT

VAN09003599.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	
<b>Reference Materials</b>																		
STD DS7	Standard	0.070	10	189	1.00	333	0.108	31	0.94	0.071	0.39	3.4	0.17	2.1	3.7	0.19	4	3.3
STD DS7	Standard	0.070	12	190	1.01	358	0.112	33	0.97	0.081	0.40	3.7	0.18	2.1	3.8	0.19	4	3.4
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
<b>Prep Wash</b>																		
G1	Prep Blank	0.074	11	14	0.51	160	0.121	<1	0.89	0.067	0.47	<0.1	0.01	1.7	0.3	<0.05	5	<0.5



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To: DAWSON GEOLOGICAL  
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Page: 1  
Finalized Date: 23-OCT-2009  
Account: DAWGEO

**CERTIFICATE VA09113850**

Project: Terrace

P.O. No.:

This report is for 2 Rock samples submitted to our lab in Vancouver, BC, Canada on  
14-OCT-2009.

The following have access to data associated with this certificate:

JAMES DAWSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

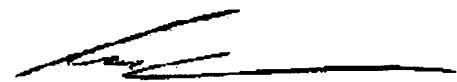
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: DAWSON GEOLOGICAL  
ATTN: JAMES DAWSON  
1450 - 625 HOWE ST.  
VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 2 (A - C)  
Finalized Date: 23-OCT-2009  
Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09113850**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41												
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
TR-1		1.70	0.001	<0.2	0.33	10	<10	50	<0.5	<2	0.02	<0.5	94	11	15	3.09
TR-2		2.40	0.029	1.0	1.01	8	<10	100	<0.5	<2	0.01	<0.5	38	4	674	2.65



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Page: 2 - B  
Total # Pages: 2 (A - C)  
Finalized Date: 23-OCT-2009  
Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09113850**

Sample Description	Method	ME-ICP41														
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
TR-1		<10	<1	0.11	10	0.06	53	4	0.09	<1	100	3	2.21	2	3	4
TR-2		<10	<1	0.64	<10	0.28	282	5	0.01	<1	80	66	0.46	<2	2	3



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Page: 2 - C  
Total # Pages: 2 (A - C)  
Finalized Date: 23-OCT-2009  
Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09113850**

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
TR-1	LOR	20	0.01	10	10	1	10
TR-2		<20	<0.01	<10	<10	3	<10
		<20	0.06	<10	<10	6	<10
						4	19



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Page: 1  
Finalized Date: 26-OCT-2009  
Account: DAWGEO

**CERTIFICATE VA09111899**

Project: Terrace

P.O. No.:

This report is for 184 Soil samples submitted to our lab in Vancouver, BC, Canada on  
14-OCT-2009.

The following have access to data associated with this certificate:

JAMES DAWSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

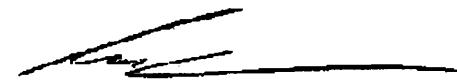
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: DAWSON GEOLOGICAL  
ATTN: JAMES DAWSON  
1450 - 625 HOWE ST.  
VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 26-OCT-2009  
Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41												
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	0.01
RS-001		0.36	0.002	0.7	1.86	19	<10	240	<0.5	3	0.50	<0.5	9	17	18	3.56
RS-002		0.36	0.026	0.7	1.43	48	<10	310	0.7	4	0.48	<0.5	14	21	26	4.61
RS-003		0.38	0.004	0.4	2.28	18	<10	170	0.7	3	0.16	0.6	13	26	49	3.72
RS-004		0.50	0.003	0.3	1.32	10	<10	190	<0.5	2	0.39	<0.5	12	26	40	3.59
RS-005		0.40	0.013	0.4	1.03	19	<10	150	<0.5	4	0.20	<0.5	11	19	22	3.78
RS-006		0.44	0.002	0.5	0.97	9	<10	200	<0.5	2	0.32	0.5	10	17	26	3.18
RS-007		0.34	0.003	0.5	2.83	14	<10	390	0.6	3	0.14	0.6	13	28	55	3.95
RS-008		0.42	0.003	0.3	1.85	23	<10	110	<0.5	2	0.31	<0.5	15	33	14	3.73
RS-009		0.44	0.004	0.4	1.60	20	<10	220	<0.5	4	0.34	0.5	15	32	10	3.67
RS-010		0.42	0.003	0.5	1.60	23	<10	230	<0.5	<2	0.37	0.5	18	35	9	3.65
RS-011		0.42	0.002	0.5	1.65	2	<10	430	<0.5	3	0.28	0.6	10	24	29	3.16
RS-012		0.38	0.003	0.3	1.12	6	<10	110	<0.5	2	0.10	<0.5	6	14	13	3.19
RS-013		0.38	0.002	0.3	1.22	6	<10	310	<0.5	3	0.42	<0.5	9	18	40	3.15
RS-014		0.44	0.001	0.5	1.29	7	<10	140	<0.5	2	0.16	<0.5	9	16	31	3.62
RS-015		0.48	0.004	0.2	0.99	4	<10	140	<0.5	3	0.33	<0.5	12	16	44	3.27
RS-016		0.38	0.005	0.4	1.29	6	<10	160	<0.5	<2	0.40	0.5	12	15	42	3.27
RS-017		0.42	0.002	0.4	1.87	5	<10	110	<0.5	3	0.16	0.5	10	19	17	4.33
RS-018		0.44	0.002	0.4	1.13	39	<10	160	<0.5	2	0.24	<0.5	5	11	11	4.90
RS-019		0.48	0.001	0.4	1.22	18	<10	90	<0.5	2	0.04	<0.5	5	15	9	3.93
RS-020		0.46	0.005	0.5	2.37	17	<10	880	0.9	<2	0.36	0.8	19	39	49	5.82
RS-021		0.54	0.005	0.6	1.71	17	<10	670	0.5	3	0.51	0.9	16	33	26	5.22
RS-022		0.48	0.007	0.6	1.59	14	<10	710	0.7	3	0.58	1.0	19	30	71	5.09
RS-023		0.38	0.002	0.4	1.77	<2	<10	250	<0.5	2	0.19	<0.5	10	39	8	3.70
RS-024		0.34	0.011	0.2	4.01	<2	<10	460	<0.5	<2	0.36	<0.5	35	85	35	5.41
RS-025		0.42	0.001	0.4	1.95	2	<10	50	<0.5	2	0.30	<0.5	17	35	133	3.58
RS-026		0.28	0.002	0.3	1.15	<2	<10	50	<0.5	2	0.33	<0.5	6	16	4	1.38
RS-027		0.38	0.002	0.2	3.51	4	<10	230	0.6	<2	0.25	0.5	22	65	38	4.77
RS-028		0.50	0.005	0.4	3.77	<2	<10	250	0.8	4	0.29	0.5	29	78	159	5.05
RS-029		0.42	0.001	0.4	3.30	6	<10	290	0.7	3	0.17	0.5	13	38	36	5.36
RS-030		0.46	0.002	0.4	2.49	9	<10	190	0.5	<2	0.22	0.5	12	32	29	4.01
RS-031		0.46	0.001	0.6	2.14	3	<10	320	<0.5	2	0.21	<0.5	11	31	17	3.78
RS-032		0.50	0.002	0.5	3.42	11	<10	660	1.2	6	0.22	0.6	21	28	114	6.69
RS-033		0.58	0.001	0.2	3.06	2	<10	380	<0.5	<2	0.20	0.5	15	57	12	4.62
RS-034		0.50	0.002	0.4	4.09	13	<10	100	0.6	<2	0.11	<0.5	6	30	21	5.63
RS-035		0.46	0.005	<0.2	1.86	7	<10	140	<0.5	<2	0.33	<0.5	10	22	30	3.71
RS-036		0.40	0.005	<0.2	1.54	7	<10	120	<0.5	<2	0.32	<0.5	9	20	27	3.32
RS-037		0.48	0.003	0.5	3.36	12	<10	120	0.7	<2	0.11	<0.5	13	25	31	3.96
RS-038		0.48	0.005	<0.2	3.37	10	<10	100	0.6	<2	0.14	<0.5	11	26	26	4.27
RS-039		0.42	0.005	<0.2	3.14	6	<10	360	0.8	2	0.21	<0.5	27	51	217	5.03
RS-040		0.52	0.005	<0.2	2.43	5	<10	330	0.7	5	0.46	<0.5	34	36	118	5.62



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K %	ME-ICP41 La ppm 0.01	ME-ICP41 Mg %	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na %	ME-ICP41 Ni ppm 0.01	ME-ICP41 P ppm 1	ME-ICP41 Pb ppm 10	ME-ICP41 S %	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
RS-001		10	1	0.04	10	0.40	1495	1	0.01	9	590	8	0.02	<2	3	36
RS-002		<10	1	0.07	20	0.52	3190	5	0.01	15	1210	11	0.02	<2	5	33
RS-003		10	1	0.11	20	0.77	679	1	0.01	16	790	10	0.01	<2	4	17
RS-004		<10	1	0.15	10	0.86	839	1	0.01	16	780	7	<0.01	<2	5	24
RS-005		<10	<1	0.07	10	0.49	1820	2	0.01	11	1190	8	<0.01	<2	3	13
RS-006		<10	1	0.10	10	0.60	921	<1	0.01	12	880	8	<0.01	<2	4	20
RS-007		10	1	0.12	10	0.83	774	<1	0.01	24	920	8	0.01	<2	7	14
RS-008		10	1	0.11	10	1.28	1050	<1	0.01	26	1100	5	<0.01	<2	5	13
RS-009		10	1	0.10	10	1.15	1520	<1	0.01	22	1170	5	<0.01	<2	4	16
RS-010		10	1	0.10	10	1.36	2000	<1	0.01	28	890	6	0.01	<2	5	16
RS-011		10	1	0.20	10	0.76	872	<1	0.02	17	1280	6	0.01	<2	3	19
RS-012		10	1	0.06	10	0.43	509	<1	0.01	7	700	4	0.01	<2	2	10
RS-013		<10	<1	0.09	10	0.59	952	<1	0.01	12	740	8	0.01	<2	3	28
RS-014		10	1	0.06	10	0.58	566	<1	0.01	11	670	6	<0.01	<2	4	13
RS-015		<10	1	0.16	10	0.68	899	1	0.01	11	770	6	<0.01	<2	5	15
RS-016		<10	<1	0.11	10	0.71	724	1	0.01	10	810	6	<0.01	<2	5	19
RS-017		10	1	0.05	10	0.61	464	1	0.01	10	1440	7	<0.01	<2	4	10
RS-018		10	1	0.07	10	0.21	498	2	<0.01	5	1690	8	0.01	<2	3	14
RS-019		10	1	0.07	10	0.18	604	2	0.01	8	2410	6	0.01	<2	3	6
RS-020		10	1	0.16	20	1.23	2250	1	0.01	35	1170	13	0.01	<2	11	17
RS-021		10	1	0.22	10	1.07	3280	1	0.01	27	1610	13	0.01	<2	6	20
RS-022		<10	1	0.17	20	0.99	3590	1	0.01	33	1310	15	0.03	<2	7	23
RS-023		10	1	0.06	<10	0.82	370	<1	0.01	19	1710	3	<0.01	<2	4	11
RS-024		10	1	0.83	<10	3.62	1530	<1	0.02	52	680	<2	<0.01	<2	4	7
RS-025		10	1	0.16	<10	1.46	496	<1	0.01	25	1170	3	<0.01	<2	4	7
RS-026		10	<1	0.04	<10	0.56	148	<1	0.01	14	200	3	<0.01	<2	1	21
RS-027		10	1	0.16	<10	1.99	969	<1	0.01	35	2020	3	0.01	<2	5	13
RS-028		10	1	0.18	10	2.05	772	<1	0.01	48	1420	4	0.01	<2	5	19
RS-029		10	1	0.08	10	0.81	413	<1	0.01	21	3440	7	0.01	<2	5	14
RS-030		10	1	0.08	10	0.81	597	<1	0.01	25	1570	7	<0.01	<2	5	17
RS-031		10	1	0.12	10	0.89	728	1	0.01	21	1340	6	<0.01	<2	5	16
RS-032		10	1	0.13	10	1.03	748	1	0.01	20	3290	9	0.02	<2	6	20
RS-033		10	1	0.34	10	1.61	865	<1	0.01	28	1910	4	<0.01	<2	8	18
RS-034		10	1	0.05	10	0.40	404	1	0.02	9	6840	10	0.02	<2	6	9
RS-035		10	<1	0.13	10	0.84	1015	1	0.02	16	1300	5	<0.01	<2	6	22
RS-036		10	<1	0.11	10	0.74	666	1	0.02	13	900	6	<0.01	<2	5	20
RS-037		10	<1	0.06	10	0.79	2130	7	0.02	15	1270	10	0.01	<2	6	10
RS-038		10	<1	0.06	<10	0.69	655	1	0.02	21	2480	8	0.01	<2	5	11
RS-039		10	1	0.14	10	1.75	1125	1	0.02	31	620	4	0.02	<2	5	15
RS-040		10	<1	0.22	10	1.13	1350	2	0.02	22	1170	8	0.06	<2	4	31



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Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	Zn
		ppm	%	ppm	ppm	ppm	ppm
RS-001		<20	0.04	<10	<10	57	<10
RS-002		<20	0.03	<10	<10	54	<10
RS-003		<20	0.05	<10	<10	63	<10
RS-004		<20	0.09	<10	<10	59	<10
RS-005		<20	0.04	<10	<10	51	<10
RS-006		<20	0.07	<10	<10	51	<10
RS-007		<20	0.04	<10	<10	65	<10
RS-008		<20	0.06	<10	<10	68	<10
RS-009		<20	0.06	<10	<10	71	<10
RS-010		<20	0.06	<10	<10	76	<10
RS-011		<20	0.08	<10	<10	71	<10
RS-012		<20	0.05	<10	<10	50	<10
RS-013		<20	0.05	<10	<10	52	<10
RS-014		<20	0.05	<10	<10	53	<10
RS-015		<20	0.08	<10	<10	54	<10
RS-016		<20	0.08	<10	<10	58	<10
RS-017		<20	0.09	<10	<10	79	<10
RS-018		<20	0.01	<10	<10	49	<10
RS-019		<20	0.02	<10	<10	51	<10
RS-020		<20	0.03	<10	<10	73	<10
RS-021		<20	0.04	<10	<10	67	<10
RS-022		<20	0.04	<10	<10	55	<10
RS-023		<20	0.16	<10	<10	93	<10
RS-024		<20	0.36	<10	10	164	<10
RS-025		<20	0.27	<10	<10	116	<10
RS-026		<20	0.21	<10	<10	55	<10
RS-027		<20	0.23	<10	<10	141	<10
RS-028		<20	0.18	<10	<10	134	<10
RS-029		<20	0.04	<10	<10	75	<10
RS-030		<20	0.06	<10	<10	71	<10
RS-031		<20	0.06	<10	<10	63	<10
RS-032		<20	0.01	<10	<10	72	<10
RS-033		<20	0.14	<10	<10	98	<10
RS-034		<20	0.08	<10	<10	104	<10
RS-035		<20	0.08	<10	<10	57	<10
RS-036		<20	0.08	<10	<10	54	<10
RS-037		<20	0.09	<10	<10	78	<10
RS-038		<20	0.06	<10	<10	70	<10
RS-039		<20	0.19	<10	<10	135	<10
RS-040		<20	0.09	<10	<10	101	<10



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41												
		Recd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
RS-041		0.48	0.002	<0.2	2.81	3	<10	100	<0.5	5	0.19	<0.5	15	49	37	6.71
RS-042		0.52	0.105	0.7	3.54	12	<10	150	1.1	6	0.06	<0.5	130	26	939	8.95
RS-043		0.36	0.002	0.6	2.53	7	<10	140	<0.5	<2	0.31	<0.5	13	31	37	3.77
RS-044		0.64	0.004	0.2	3.15	2	<10	160	1.6	5	0.28	0.6	23	11	213	3.97
RS-045		0.60	0.004	<0.2	3.53	2	<10	60	0.6	4	0.08	<0.5	9	9	38	4.26
RS-046		0.58	0.008	0.6	3.26	9	<10	210	0.8	2	0.32	<0.5	21	36	86	5.35
RS-047		0.36	0.002	<0.2	2.73	6	<10	180	1.3	<2	0.32	<0.5	11	18	43	3.80
RS-048		0.64	0.002	<0.2	0.65	<2	<10	100	<0.5	2	0.16	<0.5	5	3	28	1.29
RS-049		0.40	0.005	<0.2	1.95	5	<10	110	<0.5	2	0.16	<0.5	8	22	23	3.04
RS-050		0.46	0.004	<0.2	1.83	9	<10	160	<0.5	<2	0.35	<0.5	10	24	36	3.53
RS-051		0.34	0.001	0.4	2.06	4	<10	220	<0.5	<2	0.18	<0.5	7	20	11	2.74
RS-052		0.38	0.002	0.2	2.46	5	<10	130	<0.5	<2	0.24	<0.5	10	26	24	3.46
RS-053		0.48	0.001	<0.2	1.91	5	<10	150	<0.5	<2	0.14	<0.5	8	22	17	3.12
RS-054		0.34	0.001	<0.2	1.60	7	<10	250	<0.5	<2	0.43	<0.5	9	23	20	2.96
RS-055		0.46	0.002	<0.2	1.75	7	<10	100	<0.5	<2	0.28	<0.5	8	25	24	3.10
RS-056		0.46	0.002	<0.2	1.81	6	<10	100	<0.5	<2	0.34	<0.5	9	24	20	3.06
RS-057		0.46	0.002	<0.2	2.31	15	<10	130	0.6	2	0.13	<0.5	11	22	32	3.87
RS-058		0.40	0.007	<0.2	2.51	10	<10	150	0.6	<2	0.13	<0.5	9	26	17	3.71
RS-059		0.38	0.002	<0.2	1.88	13	<10	120	<0.5	<2	0.13	<0.5	8	18	23	3.71
RS-060		0.32	0.002	<0.2	2.96	15	<10	170	0.7	<2	0.13	<0.5	11	26	18	4.41
RS-061		0.42	0.003	<0.2	3.33	15	<10	130	0.8	<2	0.12	<0.5	9	29	17	4.12
RS-062		0.28	0.002	<0.2	2.70	5	<10	80	0.6	2	0.14	<0.5	5	17	6	4.00
RS-063		0.40	0.001	<0.2	2.88	14	<10	170	0.6	2	0.13	<0.5	12	28	30	3.98
RS-064		0.38	0.001	<0.2	2.57	12	<10	140	<0.5	2	0.14	<0.5	9	25	25	3.95
RS-065		0.36	0.002	<0.2	2.60	15	<10	130	0.5	2	0.07	<0.5	10	27	25	4.13
RS-066		0.42	0.002	<0.2	3.09	13	<10	110	0.6	<2	0.08	<0.5	9	26	22	4.26
RS-067		0.38	0.002	<0.2	2.69	12	<10	130	0.6	<2	0.05	<0.5	10	27	23	3.84
RS-068		0.36	0.001	<0.2	2.77	12	<10	130	0.5	<2	0.07	<0.5	11	27	26	3.79
RS-069		0.34	0.001	<0.2	3.59	16	<10	150	0.6	2	0.09	<0.5	12	31	22	4.24
RS-070		0.34	0.003	<0.2	2.88	13	<10	130	0.5	2	0.12	<0.5	11	27	25	3.93
RS-071		0.32	0.002	<0.2	3.89	12	<10	130	0.8	2	0.09	<0.5	11	26	13	4.26
RS-072		0.30	0.001	<0.2	2.47	13	<10	150	0.5	3	0.10	<0.5	10	23	19	3.61
RS-073		0.36	0.003	<0.2	2.11	8	<10	80	<0.5	2	0.14	<0.5	9	23	25	3.20
RS-074		0.38	0.001	<0.2	2.42	15	<10	160	0.5	<2	0.08	<0.5	9	23	20	3.67
RS-075		0.38	0.004	<0.2	1.32	10	<10	90	<0.5	<2	0.09	<0.5	8	20	29	3.30
RS-076		0.42	0.005	0.3	1.91	9	<10	200	<0.5	2	0.92	<0.5	14	27	88	3.87
RS-077		0.46	0.005	<0.2	1.54	6	<10	110	<0.5	2	0.34	<0.5	10	19	24	3.50
RS-078		0.44	0.009	<0.2	1.39	9	<10	170	<0.5	<2	0.49	<0.5	10	20	36	3.71
RS-079		0.48	0.005	<0.2	1.38	8	<10	120	<0.5	<2	0.40	<0.5	10	19	27	3.44
RS-080		0.44	0.006	<0.2	1.20	6	<10	120	<0.5	<2	0.38	<0.5	10	17	21	3.17



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method	ME-ICP41														
	Analyte Units LOR	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
RS-041		10	<1	0.24	10	1.35	564	2	0.02	24	2770	5	0.02	<2	5	13
RS-042		10	<1	0.31	20	0.73	4060	11	0.01	14	1710	33	0.08	3	10	7
RS-043		10	<1	0.09	<10	0.92	516	1	0.02	28	810	9	0.01	<2	5	23
RS-044		10	<1	0.09	50	0.60	4480	<1	0.01	11	4740	10	0.07	<2	5	18
RS-045		20	<1	0.05	10	0.43	379	1	0.01	5	2220	6	0.02	2	5	9
RS-046		10	1	0.36	20	1.47	1260	<1	0.02	28	730	58	0.01	<2	9	26
RS-047		10	<1	0.06	20	0.49	1520	2	0.01	13	1140	11	0.04	<2	2	20
RS-048		<10	<1	0.08	70	0.29	4060	<1	0.01	1	70	11	<0.01	<2	6	9
RS-049		10	<1	0.06	10	0.60	388	<1	0.01	13	1090	7	0.01	<2	4	13
RS-050		<10	<1	0.09	10	0.86	635	1	0.02	20	770	8	<0.01	<2	6	29
RS-051		10	<1	0.06	10	0.40	761	<1	0.01	10	4320	5	0.01	<2	3	14
RS-052		10	<1	0.05	10	0.63	419	1	0.01	24	900	6	0.01	<2	4	17
RS-053		10	<1	0.04	<10	0.53	281	1	0.01	20	220	6	0.01	<2	3	13
RS-054		<10	<1	0.04	10	0.57	508	2	0.02	19	550	7	0.01	<2	4	32
RS-055		10	<1	0.05	10	0.66	400	<1	0.01	24	580	7	<0.01	<2	4	24
RS-056		<10	<1	0.06	10	0.69	428	1	0.02	24	590	6	<0.01	<2	4	29
RS-057		10	<1	0.04	<10	0.55	382	1	0.01	25	610	11	<0.01	<2	4	13
RS-058		<10	1	0.04	<10	0.52	362	<1	0.01	28	1330	10	<0.01	<2	4	11
RS-059		<10	<1	0.03	<10	0.48	318	1	0.01	20	970	10	<0.01	<2	4	11
RS-060		10	<1	0.04	<10	0.51	338	1	0.01	33	3600	10	0.01	<2	4	11
RS-061		10	<1	0.04	<10	0.43	433	1	0.01	27	4580	8	0.01	2	4	10
RS-062		10	<1	0.03	<10	0.22	320	1	0.01	9	1760	7	0.01	<2	3	14
RS-063		10	1	0.05	10	0.66	365	1	0.01	35	980	9	<0.01	<2	4	17
RS-064		10	1	0.04	<10	0.57	356	1	0.01	29	1800	8	0.01	<2	4	12
RS-065		<10	<1	0.03	<10	0.60	398	1	0.01	31	990	8	<0.01	<2	5	8
RS-066		10	<1	0.04	<10	0.47	438	1	0.01	22	2790	11	0.01	<2	5	8
RS-067		10	<1	0.04	<10	0.53	439	<1	0.01	31	840	10	<0.01	<2	6	7
RS-068		10	<1	0.03	<10	0.58	354	1	0.01	33	870	8	<0.01	<2	4	9
RS-069		10	<1	0.04	<10	0.59	431	1	0.01	36	1670	8	<0.01	<2	4	13
RS-070		10	<1	0.04	<10	0.63	408	1	0.01	34	1050	8	0.01	<2	4	10
RS-071		10	<1	0.03	10	0.41	277	1	0.01	31	1980	10	0.01	<2	4	9
RS-072		<10	<1	0.03	<10	0.52	326	1	0.01	27	810	11	<0.01	<2	3	13
RS-073		10	<1	0.03	<10	0.63	317	<1	0.01	23	680	8	<0.01	<2	4	15
RS-074		10	<1	0.04	<10	0.47	290	1	0.01	24	440	9	0.01	<2	3	10
RS-075		<10	<1	0.03	10	0.50	339	1	0.01	15	160	11	<0.01	<2	6	14
RS-076		10	<1	0.20	10	1.06	1120	1	0.02	19	1100	10	0.01	<2	6	41
RS-077		10	<1	0.08	10	0.78	603	1	0.01	13	990	7	<0.01	<2	5	18
RS-078		<10	<1	0.16	10	0.79	975	1	0.02	14	1170	9	<0.01	2	5	26
RS-079		<10	<1	0.12	10	0.75	772	1	0.02	14	950	7	<0.01	<2	5	23
RS-080		<10	<1	0.09	10	0.62	794	1	0.01	12	940	8	<0.01	<2	4	22



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41						
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
20	0.01	10	10	1	10	2		
RS-041	<20	0.15	<10	<10	148	<10	59	
RS-042	<20	0.07	<10	<10	75	<10	108	
RS-043	<20	0.07	<10	<10	66	<10	94	
RS-044	<20	0.03	<10	<10	32	<10	108	
RS-045	<20	0.01	<10	<10	32	<10	91	
RS-046	<20	0.10	<10	<10	80	<10	81	
RS-047	<20	0.05	<10	<10	46	<10	76	
RS-048	<20	<0.01	<10	<10	9	<10	35	
RS-049	<20	0.07	<10	<10	57	<10	59	
RS-050	<20	0.09	<10	<10	56	<10	79	
RS-051	<20	0.06	<10	<10	44	<10	106	
RS-052	<20	0.05	<10	<10	59	<10	88	
RS-053	<20	0.05	<10	<10	55	<10	65	
RS-054	<20	0.04	<10	<10	52	<10	56	
RS-055	<20	0.06	<10	<10	53	<10	64	
RS-056	<20	0.06	<10	<10	53	<10	68	
RS-057	<20	0.04	<10	<10	58	<10	91	
RS-058	<20	0.05	<10	<10	58	<10	136	
RS-059	<20	0.04	<10	<10	60	<10	77	
RS-060	<20	0.04	<10	<10	64	<10	117	
RS-061	<20	0.06	<10	<10	69	<10	153	
RS-062	<20	0.04	<10	<10	70	<10	90	
RS-063	<20	0.06	<10	<10	65	<10	83	
RS-064	<20	0.03	<10	<10	58	<10	85	
RS-065	<20	0.05	<10	<10	60	<10	91	
RS-066	<20	0.05	<10	<10	68	<10	102	
RS-067	<20	0.08	<10	<10	59	<10	88	
RS-068	<20	0.05	<10	<10	59	<10	77	
RS-069	<20	0.08	<10	<10	67	<10	97	
RS-070	<20	0.06	<10	<10	60	<10	99	
RS-071	<20	0.06	<10	<10	68	<10	109	
RS-072	<20	0.05	<10	<10	57	<10	68	
RS-073	<20	0.05	<10	<10	54	<10	59	
RS-074	<20	0.05	<10	<10	53	<10	59	
RS-075	<20	0.06	<10	<10	58	<10	56	
RS-076	<20	0.10	<10	<10	66	<10	89	
RS-077	<20	0.08	<10	<10	55	<10	75	
RS-078	<20	0.10	<10	<10	58	<10	73	
RS-079	<20	0.08	<10	<10	53	<10	67	
RS-080	<20	0.07	<10	<10	50	<10	63	



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41												
		Revd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
RS-081		0.50	0.006	<0.2	2.39	11	<10	1560	1.0	2	0.35	<0.5	19	22	102	5.74
RS-082		0.48	0.003	<0.2	2.20	11	<10	550	0.9	3	0.38	<0.5	20	31	69	5.48
RS-083		0.38	0.003	0.3	1.61	6	<10	140	<0.5	2	0.25	<0.5	10	19	23	3.69
RS-084		0.46	0.001	<0.2	1.94	8	<10	290	<0.5	<2	0.27	<0.5	10	28	25	3.76
RS-085		0.46	0.002	<0.2	3.04	6	<10	200	0.5	<2	0.06	<0.5	8	21	13	5.27
RS-086		0.40	0.002	<0.2	5.08	2	<10	670	0.5	3	0.33	<0.5	35	227	23	6.90
RS-087		0.42	0.001	<0.2	3.16	2	<10	200	<0.5	<2	0.37	<0.5	17	39	13	5.38
RS-088		0.38	0.001	<0.2	1.75	8	<10	120	<0.5	<2	0.68	<0.5	11	27	40	3.56
RS-089		0.42	0.003	<0.2	1.81	8	<10	120	<0.5	<2	0.25	<0.5	10	27	45	3.32
RS-090		0.38	0.001	0.2	3.90	9	<10	60	0.5	<2	0.14	<0.5	10	23	41	3.98
RS-091		0.32	0.001	<0.2	2.97	5	<10	220	0.5	<2	0.19	<0.5	15	56	10	5.31
RS-092		0.32	<0.001	1.0	1.83	3	<10	170	<0.5	2	0.13	<0.5	8	29	42	3.20
RS-093		0.34	0.002	0.5	1.46	14	<10	460	<0.5	2	0.25	<0.5	8	20	25	3.88
RS-094		0.36	0.007	<0.2	2.80	21	<10	460	0.8	2	0.10	0.6	17	37	64	6.40
RS-095		0.30	0.007	0.2	2.90	17	<10	410	1.1	3	0.07	0.6	17	36	63	6.39
RS-096		0.38	0.003	<0.2	1.69	6	<10	100	<0.5	<2	0.30	<0.5	12	19	29	4.14
RS-097		0.46	0.004	<0.2	1.74	8	<10	150	0.5	<2	0.26	<0.5	13	24	43	4.22
RS-098		0.40	0.004	0.2	1.77	11	<10	120	<0.5	<2	0.25	<0.5	11	23	29	3.61
RS-099		0.50	0.004	<0.2	1.72	7	<10	160	<0.5	<2	0.27	<0.5	11	20	40	3.49
WS-001		0.40	0.037	0.5	1.72	53	<10	110	0.5	2	0.09	<0.5	8	20	16	4.88
WS-002		0.28	0.004	0.4	2.72	36	<10	230	0.5	<2	0.28	<0.5	7	26	25	5.60
WS-003		0.40	0.002	0.2	2.36	12	<10	120	<0.5	<2	0.20	<0.5	8	21	14	3.40
WS-004		0.36	0.013	<0.2	1.42	11	<10	170	<0.5	2	0.22	<0.5	10	21	31	3.65
WS-005		0.38	0.007	<0.2	1.85	13	<10	250	0.6	2	0.15	<0.5	10	21	34	3.70
WS-006		0.44	0.004	<0.2	1.65	11	<10	330	<0.5	<2	0.20	<0.5	11	21	37	3.55
WS-007		0.42	0.003	0.2	3.50	9	<10	110	0.5	<2	0.20	<0.5	12	42	15	3.81
WS-008		0.46	0.002	<0.2	2.21	11	<10	160	<0.5	<2	0.20	<0.5	12	25	27	3.65
WS-009		0.42	0.002	0.2	1.69	8	<10	180	<0.5	<2	0.23	<0.5	10	22	25	3.25
WS-010		0.44	0.002	<0.2	1.75	8	<10	120	<0.5	<2	0.22	<0.5	9	23	26	3.40
WS-011		0.36	0.004	<0.2	1.38	4	<10	100	<0.5	<2	0.17	<0.5	7	16	17	2.85
WS-012		0.34	0.004	<0.2	1.92	40	<10	840	0.7	<2	0.31	<0.5	15	33	22	5.43
WS-013		0.48	0.001	<0.2	1.37	8	<10	100	<0.5	<2	0.21	<0.5	6	11	22	3.80
WS-014		0.38	0.002	<0.2	1.31	6	<10	110	<0.5	<2	0.24	<0.5	9	14	29	3.70
WS-015		0.38	0.002	<0.2	1.42	7	<10	210	<0.5	<2	0.51	<0.5	11	25	32	3.39
WS-016		0.36	0.003	<0.2	1.36	10	<10	230	<0.5	<2	0.42	<0.5	12	20	51	3.78
WS-017		0.32	0.002	<0.2	1.19	7	<10	240	<0.5	<2	0.27	<0.5	7	13	34	3.23
WS-018		0.34	0.003	0.2	1.96	11	<10	400	0.6	<2	0.18	<0.5	9	16	57	4.19
WS-019		0.44	0.015	0.4	1.17	54	<10	620	0.8	<2	0.23	<0.5	14	12	60	6.21
WS-020		0.40	0.002	<0.2	1.79	8	<10	230	<0.5	2	0.09	<0.5	7	19	10	4.17
WS-021		0.40	0.003	<0.2	1.82	19	<10	290	0.7	<2	0.29	<0.5	14	31	13	5.72



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
RS-081		10	<1	0.26	20	0.94	1905	1	0.03	17	1410	15	0.04	<2	8	35
RS-082		10	<1	0.32	10	1.07	2050	1	0.02	21	1090	12	0.04	<2	6	24
RS-083		10	<1	0.07	10	0.70	529	1	0.01	13	540	7	0.01	2	4	18
RS-084		10	<1	0.09	10	0.76	488	1	0.02	22	970	8	0.01	<2	4	19
RS-085		10	<1	0.07	10	0.47	260	1	0.01	11	1670	12	0.06	<2	4	11
RS-086		10	<1	0.78	<10	2.97	1250	<1	0.03	99	1310	5	0.01	<2	7	10
RS-087		10	<1	0.32	<10	1.69	607	<1	0.02	23	3070	<2	0.01	<2	6	17
RS-088		10	<1	0.09	10	0.83	689	<1	0.03	27	1150	9	0.02	<2	6	45
RS-089		10	<1	0.05	10	0.86	506	1	0.01	25	700	6	<0.01	<2	5	17
RS-090		10	<1	0.04	<10	0.52	460	<1	0.01	14	2680	5	0.03	<2	4	11
RS-091		10	<1	0.07	<10	1.20	751	<1	0.02	27	2980	6	0.01	<2	5	12
RS-092		10	<1	0.05	<10	0.56	477	1	0.01	14	480	9	0.01	<2	3	12
RS-093		10	<1	0.09	10	0.41	1465	1	0.01	14	1240	12	0.02	<2	3	15
RS-094		10	<1	0.14	20	1.01	2440	1	0.01	33	1590	14	0.02	<2	10	12
RS-095		10	<1	0.10	20	0.92	4690	1	0.01	30	1560	16	0.02	<2	12	8
RS-096		10	<1	0.07	10	0.77	636	1	0.01	11	1980	9	0.01	<2	4	14
RS-097		10	<1	0.13	10	0.96	1135	1	0.02	15	1040	11	0.01	<2	6	13
RS-098		<10	<1	0.11	10	0.80	1430	1	0.01	16	1310	8	0.01	<2	5	15
RS-099		<10	<1	0.10	10	0.71	1040	1	0.02	15	930	6	0.01	<2	4	17
WS-001		<10	<1	0.05	10	0.35	571	6	0.01	9	560	13	0.02	<2	5	10
WS-002		10	<1	0.04	10	0.29	487	4	0.01	10	500	12	0.02	<2	4	19
WS-003		10	<1	0.06	10	0.51	373	1	0.01	11	920	7	0.01	<2	4	14
WS-004		<10	<1	0.08	10	0.71	938	1	0.01	13	710	10	0.02	<2	4	15
WS-005		<10	<1	0.06	10	0.64	998	1	0.01	13	960	9	0.02	<2	3	12
WS-006		<10	<1	0.09	10	0.70	928	1	0.02	14	820	9	0.01	<2	5	16
WS-007		10	1	0.06	<10	0.99	607	<1	0.01	20	1750	7	0.02	<2	5	10
WS-008		10	<1	0.08	10	0.67	611	<1	0.01	19	980	7	0.02	<2	4	15
WS-009		10	<1	0.06	10	0.70	529	1	0.01	15	780	7	0.01	<2	4	15
WS-010		<10	<1	0.05	10	0.61	540	1	0.01	20	760	7	<0.01	<2	4	15
WS-011		10	<1	0.04	<10	0.47	471	1	0.01	11	890	6	0.01	<2	3	10
WS-012		10	1	0.08	10	0.96	3060	1	0.02	26	1780	11	0.04	2	6	19
WS-013		10	<1	0.07	10	0.54	401	<1	0.01	6	1800	6	0.01	<2	4	11
WS-014		<10	<1	0.06	10	0.55	561	1	0.01	9	820	8	0.01	<2	4	14
WS-015		<10	<1	0.17	10	0.83	863	1	0.02	20	910	8	0.01	<2	5	27
WS-016		<10	<1	0.16	10	0.81	1130	<1	0.02	15	960	10	0.01	<2	6	22
WS-017		<10	<1	0.08	10	0.51	647	<1	0.02	9	750	8	0.01	<2	3	15
WS-018		<10	<1	0.06	10	0.49	895	2	0.02	11	990	11	0.02	2	3	13
WS-019		<10	<1	0.12	20	0.30	2440	4	0.02	15	1320	18	0.04	<2	7	19
WS-020		10	<1	0.07	10	0.44	985	1	0.01	11	2530	7	0.02	<2	5	9
WS-021		10	<1	0.12	10	0.93	1885	1	0.01	27	2580	15	0.02	<2	7	11



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	Zn
		ppm	%	ppm	ppm	ppm	ppm
RS-081		<20	0.04	<10	<10	54	<10
RS-082		<20	0.07	<10	<10	74	<10
RS-083		<20	0.06	<10	<10	53	<10
RS-084		<20	0.05	<10	<10	59	<10
RS-085		<20	0.03	<10	<10	57	<10
RS-086		<20	0.44	<10	<10	218	<10
RS-087		<20	0.32	<10	<10	175	<10
RS-088		<20	0.11	<10	<10	67	<10
RS-089		<20	0.08	<10	<10	60	<10
RS-090		<20	0.08	<10	<10	61	<10
RS-091		<20	0.24	<10	<10	129	<10
RS-092		<20	0.09	<10	<10	73	<10
RS-093		<20	0.02	<10	<10	52	<10
RS-094		<20	0.03	<10	<10	74	<10
RS-095		<20	0.02	<10	<10	72	<10
RS-096		<20	0.08	<10	<10	76	<10
RS-097		<20	0.10	<10	<10	76	<10
RS-098		<20	0.07	<10	<10	60	<10
RS-099		<20	0.07	<10	<10	55	<10
WS-001		<20	0.02	<10	<10	57	<10
WS-002		<20	0.03	<10	<10	71	<10
WS-003		<20	0.06	<10	<10	54	<10
WS-004		<20	0.05	<10	<10	56	<10
WS-005		<20	0.04	<10	<10	52	<10
WS-006		<20	0.06	<10	<10	58	<10
WS-007		<20	0.10	<10	<10	77	<10
WS-008		<20	0.06	<10	<10	58	<10
WS-009		<20	0.06	<10	<10	57	<10
WS-010		<20	0.06	<10	<10	56	<10
WS-011		<20	0.05	<10	<10	48	<10
WS-012		<20	0.03	<10	<10	66	<10
WS-013		<20	0.06	<10	<10	54	<10
WS-014		<20	0.07	<10	<10	51	<10
WS-015		<20	0.09	<10	<10	55	<10
WS-016		<20	0.08	<10	<10	56	<10
WS-017		<20	0.04	<10	<10	49	<10
WS-018		<20	0.04	<10	<10	48	<10
WS-019		<20	0.01	<10	<10	36	<10
WS-020		<20	0.03	<10	<10	54	<10
WS-021		<20	0.02	<10	<10	58	<10



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Project: Terrace

**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
WS-022		0.44	0.005	0.2	1.84	16	<10	740	0.7	<2	0.69	0.9	19	32	109	5.51
WS-023		0.36	0.002	<0.2	3.77	5	<10	570	0.7	2	0.94	<0.5	35	94	130	5.28
WS-024		0.46	0.002	<0.2	3.59	4	<10	800	<0.5	2	0.79	<0.5	36	94	138	5.26
WS-025		0.32	0.005	<0.2	3.27	5	<10	600	0.9	2	0.41	<0.5	32	79	195	7.90
WS-026		0.32	0.004	<0.2	2.93	2	<10	310	0.5	<2	0.31	<0.5	27	65	83	5.75
WS-027		0.36	0.001	<0.2	2.83	3	<10	280	<0.5	<2	0.27	<0.5	21	45	20	4.86
WS-028		0.38	0.002	<0.2	2.03	5	<10	580	0.5	<2	0.24	<0.5	12	27	56	3.80
WS-029		0.36	0.001	<0.2	1.31	<2	<10	170	<0.5	<2	0.23	<0.5	8	35	3	1.86
WS-030		0.42	0.001	<0.2	2.45	5	<10	170	<0.5	<2	0.09	<0.5	10	24	23	3.60
WS-031		0.34	0.004	0.2	2.28	4	<10	260	<0.5	<2	0.07	<0.5	6	22	8	3.72
WS-032		0.40	0.011	<0.2	1.81	11	<10	600	0.5	4	0.14	<0.5	10	21	10	5.89
WS-033		0.40	<0.001	<0.2	2.70	2	<10	610	<0.5	<2	0.43	<0.5	21	63	5	4.63
WS-034		0.48	0.001	<0.2	3.38	3	<10	300	0.7	2	0.36	<0.5	34	73	264	5.58
WS-035		0.36	0.010	0.2	2.35	6	<10	620	0.9	2	0.57	<0.5	43	20	657	5.90
WS-036		0.52	0.001	<0.2	0.96	2	<10	100	<0.5	<2	0.07	<0.5	3	10	13	1.83
WS-037		0.42	0.003	<0.2	2.32	7	<10	190	0.5	<2	0.17	<0.5	10	26	16	3.58
WS-038		0.38	0.002	<0.2	2.62	9	<10	170	<0.5	<2	0.12	<0.5	9	26	20	3.76
WS-039		0.48	0.002	<0.2	2.77	13	<10	130	0.7	2	0.16	<0.5	12	27	30	3.93
WS-040		0.34	0.001	0.3	1.82	7	<10	160	<0.5	<2	0.22	<0.5	9	23	21	3.06
WS-041		0.44	<0.001	<0.2	1.87	8	<10	140	<0.5	<2	0.31	<0.5	8	22	22	3.64
WS-042		0.42	0.001	0.4	2.87	10	<10	130	0.5	<2	0.15	<0.5	8	27	12	5.10
WS-043		0.40	0.001	0.6	2.29	7	<10	110	0.5	<2	0.13	<0.5	8	24	16	3.43
WS-044		0.50	0.001	<0.2	1.64	6	<10	110	<0.5	<2	0.22	<0.5	7	21	14	3.02
WS-045		0.42	0.001	<0.2	2.15	12	<10	100	0.6	<2	0.10	<0.5	9	20	20	3.91
WS-046		0.38	0.001	0.5	2.33	10	<10	180	0.8	<2	0.25	<0.5	7	25	11	3.56
WS-047		0.38	0.001	<0.2	3.52	13	<10	160	0.9	<2	0.08	<0.5	11	27	16	4.01
WS-048		0.34	0.002	<0.2	2.81	9	<10	180	0.6	<2	0.09	<0.5	8	23	11	3.40
WS-049		0.34	0.003	<0.2	2.49	9	<10	170	0.7	<2	0.10	<0.5	9	22	15	3.47
WS-050		0.30	0.001	<0.2	1.73	6	<10	160	<0.5	<2	0.09	<0.5	4	17	7	2.91
WS-051		0.38	0.002	<0.2	2.90	12	<10	120	0.6	<2	0.06	<0.5	9	27	15	4.21
WS-052		0.36	0.001	<0.2	2.59	12	<10	90	0.5	<2	0.07	<0.5	10	27	22	4.04
WS-053		0.46	0.001	<0.2	1.90	14	<10	150	<0.5	<2	0.24	<0.5	13	32	33	4.08
WS-054		0.36	0.002	<0.2	2.63	10	<10	110	0.5	<2	0.05	<0.5	9	25	16	3.91
WS-055		0.30	0.001	<0.2	2.40	9	<10	180	0.6	<2	0.13	<0.5	8	22	9	3.59
WS-056		0.36	0.001	<0.2	2.13	16	<10	130	<0.5	<2	0.19	<0.5	10	21	29	3.93
WS-057		0.42	0.001	<0.2	1.88	7	<10	160	<0.5	<2	0.24	<0.5	8	20	15	3.84
WS-058		0.48	0.002	<0.2	1.59	6	<10	130	<0.5	<2	0.38	<0.5	11	19	41	3.26
WS-059		0.44	0.006	<0.2	1.33	11	<10	150	<0.5	<2	0.29	<0.5	9	17	27	3.24
WS-060		0.32	0.002	<0.2	2.86	10	<10	140	0.9	<2	0.09	<0.5	10	27	22	4.16
WS-061		0.26	0.001	<0.2	2.53	10	<10	150	0.7	<2	0.09	<0.5	7	23	9	3.88



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method	ME-ICP41														
	Analyte Units LOR	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
WS-022		10	<1	0.16	20	1.06	3950	1	0.02	35	1530	17	0.04	<2	8	27
WS-023		10	<1	1.13	<10	3.31	2080	<1	0.02	53	1320	<2	0.03	<2	6	19
WS-024		10	1	1.14	<10	3.59	2530	<1	0.03	58	990	4	0.04	<2	8	27
WS-025		10	<1	1.23	10	2.64	2880	1	0.02	54	750	6	0.02	<2	13	18
WS-026		10	<1	0.51	<10	2.14	1310	<1	0.02	41	1120	7	0.01	<2	7	14
WS-027		10	<1	0.25	<10	1.70	792	<1	0.02	26	1220	5	0.01	<2	6	13
WS-028		10	<1	0.16	10	0.91	747	<1	0.02	17	740	6	0.01	<2	5	15
WS-029		10	<1	0.09	10	0.88	560	<1	0.01	17	540	4	0.01	<2	2	18
WS-030		10	<1	0.05	<10	0.71	562	2	0.01	22	1420	6	0.01	<2	4	7
WS-031		10	<1	0.06	10	0.39	434	1	0.01	9	2420	6	0.02	<2	3	7
WS-032		10	<1	0.11	10	0.60	974	2	0.02	11	3590	17	0.04	<2	6	12
WS-033		10	<1	0.43	<10	1.95	999	<1	0.02	33	1080	4	0.01	2	8	25
WS-034		10	<1	0.44	10	2.21	2680	1	0.02	38	1370	6	0.04	<2	5	25
WS-035		10	<1	0.30	10	1.09	3550	3	0.02	17	1370	17	0.06	<2	4	34
WS-036		10	<1	0.05	10	0.12	196	1	0.01	4	440	7	0.01	<2	1	13
WS-037		10	<1	0.06	<10	0.57	565	<1	0.01	21	1500	10	0.01	<2	4	17
WS-038		10	<1	0.05	10	0.50	317	<1	0.01	23	1720	7	0.01	<2	4	14
WS-039		10	<1	0.04	<10	0.53	379	<1	0.01	28	1720	11	0.01	<2	4	14
WS-040		10	<1	0.05	10	0.60	427	<1	0.01	23	390	7	0.01	<2	3	18
WS-041		10	<1	0.04	<10	0.53	366	1	0.01	24	1230	7	0.02	<2	3	21
WS-042		10	1	0.04	<10	0.33	279	1	0.01	22	1640	11	0.03	<2	3	16
WS-043		10	<1	0.03	10	0.39	257	<1	0.01	26	870	6	0.02	2	4	14
WS-044		10	<1	0.03	<10	0.48	362	<1	0.01	21	730	5	0.01	<2	4	18
WS-045		10	<1	0.03	10	0.45	284	2	0.01	21	350	10	0.02	<2	4	12
WS-046		10	<1	0.03	10	0.48	249	3	0.01	25	370	8	0.03	<2	4	20
WS-047		10	<1	0.03	10	0.44	341	1	0.01	33	1760	8	0.02	<2	4	9
WS-048		10	<1	0.03	10	0.27	410	<1	0.01	21	2330	7	0.02	<2	3	11
WS-049		10	1	0.04	10	0.33	1015	1	0.01	21	1540	8	0.01	2	5	12
WS-050		10	<1	0.03	10	0.21	246	<1	0.01	11	1280	6	0.01	<2	2	11
WS-051		10	1	0.03	<10	0.42	250	1	0.01	28	570	9	0.01	2	3	10
WS-052		10	1	0.03	<10	0.61	399	1	0.01	33	470	7	0.01	<2	5	9
WS-053		10	<1	0.10	10	0.95	731	<1	0.01	29	810	8	0.01	<2	5	19
WS-054		10	1	0.03	10	0.39	288	<1	0.01	23	670	7	0.01	<2	5	7
WS-055		10	<1	0.03	<10	0.39	364	<1	0.01	19	1640	5	0.02	<2	4	13
WS-056		10	<1	0.03	<10	0.61	386	1	<0.01	26	1580	8	0.01	<2	5	13
WS-057		10	<1	0.07	<10	0.48	395	<1	0.01	15	2350	7	0.01	<2	4	16
WS-058		<10	<1	0.16	10	0.82	621	<1	0.01	13	790	4	0.02	<2	4	24
WS-059		<10	<1	0.05	10	0.49	625	<1	0.01	17	670	8	0.01	<2	5	21
WS-060		10	<1	0.05	10	0.48	298	1	0.01	26	610	10	0.02	<2	4	10
WS-061		10	<1	0.04	10	0.28	265	1	0.01	18	890	8	0.02	<2	3	10



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**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41						
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
WS-022		<20	0.04	<10	<10	58	<10	209
WS-023		<20	0.25	<10	<10	164	<10	172
WS-024		<20	0.27	<10	<10	159	<10	213
WS-025		<20	0.26	<10	<10	188	<10	315
WS-026		<20	0.26	<10	<10	165	<10	164
WS-027		<20	0.26	<10	<10	139	<10	135
WS-028		<20	0.10	<10	<10	66	<10	93
WS-029		<20	0.08	<10	<10	36	<10	37
WS-030		<20	0.04	<10	<10	53	<10	81
WS-031		<20	0.05	<10	<10	56	<10	56
WS-032		<20	0.04	<10	<10	65	<10	108
WS-033		<20	0.22	<10	<10	125	<10	157
WS-034		<20	0.24	<10	<10	156	<10	134
WS-035		<20	0.06	<10	<10	72	<10	72
WS-036		<20	0.04	<10	<10	37	<10	23
WS-037		<20	0.04	<10	<10	58	<10	85
WS-038		<20	0.03	<10	<10	61	<10	88
WS-039		<20	0.04	<10	<10	63	<10	114
WS-040		<20	0.06	<10	<10	54	<10	69
WS-041		<20	0.05	<10	<10	60	<10	106
WS-042		<20	0.04	<10	<10	72	<10	167
WS-043		<20	0.04	<10	<10	54	<10	85
WS-044		<20	0.04	<10	<10	53	<10	72
WS-045		<20	0.04	<10	<10	57	<10	68
WS-046		<20	0.05	<10	<10	58	<10	77
WS-047		<20	0.06	<10	<10	60	<10	197
WS-048		<20	0.05	<10	<10	57	<10	92
WS-049		<20	0.05	<10	<10	57	<10	96
WS-050		<20	0.03	<10	<10	55	<10	41
WS-051		<20	0.05	<10	<10	66	<10	53
WS-052		<20	0.04	<10	<10	57	<10	67
WS-053		<20	0.07	<10	<10	65	<10	93
WS-054		<20	0.06	<10	<10	66	<10	65
WS-055		<20	0.04	<10	<10	62	<10	72
WS-056		<20	0.03	<10	<10	56	<10	84
WS-057		<20	0.03	<10	<10	60	<10	90
WS-058		<20	0.09	<10	<10	56	<10	66
WS-059		<20	0.05	<10	<10	52	<10	70
WS-060		<20	0.07	<10	<10	73	<10	79
WS-061		<20	0.05	<10	<10	71	<10	63



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Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-ICP41												
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
WS-062		0.44	0.004	<0.2	3.43	8	<10	110	0.8	<2	0.13	<0.5	12	27	58	4.91
WS-063		0.44	0.001	<0.2	2.40	6	<10	180	0.5	<2	0.24	<0.5	10	24	17	4.02
WS-064		0.32	0.002	<0.2	2.55	6	<10	140	0.6	<2	0.26	<0.5	10	23	22	3.71
WS-065		0.36	0.003	<0.2	2.12	7	<10	100	0.5	<2	0.13	<0.5	10	21	30	3.44
WS-066		0.34	0.002	<0.2	1.86	5	<10	110	<0.5	<2	0.13	<0.5	9	20	23	3.06
WS-067		0.36	0.007	0.3	2.88	7	<10	130	0.6	<2	0.16	<0.5	12	25	38	3.83
WS-068		0.28	0.002	<0.2	2.06	4	<10	110	<0.5	<2	0.22	<0.5	8	20	17	2.90
WS-069		0.38	0.002	<0.2	2.05	4	<10	100	<0.5	<2	0.12	<0.5	8	20	17	2.84
WS-070		0.30	0.002	<0.2	2.07	2	<10	120	<0.5	<2	0.13	<0.5	8	18	12	2.98
WS-071		0.46	0.008	<0.2	1.09	4	<10	110	<0.5	<2	0.32	<0.5	9	17	99	3.29
WS-072		0.64	0.007	<0.2	1.33	5	<10	130	0.5	<2	0.38	<0.5	11	17	205	3.49
WS-073		0.44	0.006	<0.2	1.54	7	<10	140	<0.5	<2	0.43	<0.5	12	22	40	3.57
WS-074		0.44	0.005	<0.2	1.39	6	<10	130	<0.5	<2	0.42	<0.5	11	21	37	3.43
WS-075		0.30	0.002	0.9	1.75	4	<10	110	<0.5	<2	0.33	0.5	7	23	22	3.79
WS-076		0.34	0.004	0.2	1.95	6	<10	220	0.5	<2	0.37	0.5	14	26	103	3.59
WS-077		0.28	0.009	<0.2	1.98	7	<10	140	<0.5	<2	0.26	<0.5	15	46	109	4.26
WS-078		0.34	0.006	0.3	2.55	3	<10	270	0.6	<2	0.37	<0.5	25	50	93	4.80
WS-079		0.42	0.003	<0.2	2.36	15	<10	160	0.6	<2	0.05	<0.5	12	31	20	5.56
WS-080		0.30	0.003	0.6	1.94	13	<10	180	0.5	<2	0.09	<0.5	9	25	28	4.25
WS-081		0.58	0.003	0.2	2.21	25	<10	130	<0.5	<2	0.03	<0.5	5	16	10	5.14
WS-082		0.50	0.005	0.4	1.61	15	<10	240	0.5	<2	0.25	<0.5	12	20	49	3.99
WS-083		0.54	0.016	0.2	1.53	9	<10	210	<0.5	<2	0.35	<0.5	15	21	64	3.77
WS-084		0.42	0.003	<0.2	0.74	5	<10	70	<0.5	<2	0.24	<0.5	10	11	23	2.84
WS-085		0.48	0.003	0.2	1.25	8	<10	170	<0.5	<2	0.45	<0.5	13	19	40	3.53



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Project: Terrace

**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41														
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
WS-062		10	1	0.07	10	0.74	398	1	0.01	16	2100	6	0.02	<2	6	11
WS-063		10	<1	0.06	10	0.66	345	<1	0.01	14	3720	6	0.02	<2	5	18
WS-064		10	<1	0.06	10	0.63	404	<1	0.01	20	1690	7	0.02	<2	4	20
WS-065		<10	<1	0.05	10	0.60	348	1	0.01	17	580	5	0.02	<2	4	12
WS-066		10	<1	0.04	10	0.52	263	<1	0.01	17	720	5	0.01	<2	3	12
WS-067		<10	<1	0.06	10	0.59	327	1	0.01	18	710	5	0.02	<2	4	12
WS-068		10	<1	0.07	10	0.51	334	<1	0.01	16	840	5	0.02	<2	4	19
WS-069		10	<1	0.04	10	0.47	254	<1	0.01	18	600	5	0.02	<2	3	12
WS-070		10	1	0.05	10	0.43	254	<1	0.01	14	1100	6	0.02	<2	3	13
WS-071		<10	<1	0.12	10	0.54	673	1	0.01	11	950	7	0.01	<2	4	17
WS-072		10	1	0.13	30	0.66	1245	1	0.01	11	960	13	0.01	<2	6	18
WS-073		<10	<1	0.13	10	0.75	915	1	0.01	20	1040	9	0.01	<2	5	25
WS-074		<10	<1	0.12	10	0.73	827	1	0.01	16	1040	7	0.01	<2	5	23
WS-075		10	<1	0.10	10	0.60	359	2	0.01	14	1720	11	0.01	<2	4	23
WS-076		10	<1	0.16	30	1.07	1155	<1	0.01	19	940	8	0.01	2	7	26
WS-077		10	<1	0.12	10	0.98	594	2	0.01	25	580	30	0.02	<2	5	23
WS-078		10	<1	0.12	10	1.20	781	1	0.01	28	580	8	0.02	<2	4	28
WS-079		10	1	0.09	10	0.70	1770	<1	<0.01	18	2370	13	0.01	3	6	8
WS-080		10	<1	0.09	10	0.55	1640	<1	<0.01	18	1500	9	0.02	2	5	9
WS-081		10	<1	0.05	10	0.18	363	2	<0.01	9	1910	10	0.02	2	4	6
WS-082		10	1	0.15	10	0.76	1535	<1	0.01	15	1140	12	0.02	<2	5	15
WS-083		10	<1	0.25	10	1.00	1350	<1	0.01	14	1000	7	0.01	<2	6	17
WS-084		<10	<1	0.08	<10	0.51	672	<1	<0.01	6	840	4	0.01	<2	3	12
WS-085		10	<1	0.23	10	0.83	1125	<1	0.01	14	990	7	0.01	3	5	21



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Page: 6 - C  
Total # Pages: 6 (A - C)  
Finalized Date: 26-OCT-2009  
Account: DAWGEO

Project: Terrace

**CERTIFICATE OF ANALYSIS VA09111899**

Sample Description	Method Analyte Units LOR	ME-ICP41						
		Th	Tl	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
WS-062	<20	0.08	<10	<10	80	<10	144	
WS-063	<20	0.07	<10	<10	68	<10	185	
WS-064	<20	0.06	<10	<10	64	<10	116	
WS-065	<20	0.07	<10	<10	56	<10	87	
WS-066	<20	0.06	<10	<10	52	<10	69	
WS-067	<20	0.09	<10	<10	64	<10	61	
WS-068	<20	0.05	<10	<10	48	<10	66	
WS-069	<20	0.04	<10	<10	46	<10	57	
WS-070	<20	0.05	<10	<10	51	<10	64	
WS-071	<20	0.08	<10	<10	55	<10	52	
WS-072	<20	0.07	<10	<10	59	<10	96	
WS-073	<20	0.08	<10	<10	54	<10	79	
WS-074	<20	0.08	<10	<10	54	<10	70	
WS-075	<20	0.08	<10	<10	70	<10	90	
WS-076	<20	0.07	<10	<10	57	<10	95	
WS-077	<20	0.07	<10	<10	71	<10	114	
WS-078	<20	0.13	<10	<10	101	<10	67	
WS-079	<20	0.03	<10	<10	72	<10	145	
WS-080	<20	0.02	<10	<10	56	<10	143	
WS-081	<20	0.01	<10	<10	52	<10	65	
WS-082	<20	0.06	<10	<10	63	<10	91	
WS-083	<20	0.12	<10	<10	77	<10	78	
WS-084	<20	0.07	<10	<10	49	<10	46	
WS-085	<20	0.09	<10	<10	65	<10	76	

## **APPENDIX B**

## **REFERENCES**

## **REFERENCES**

- Nelson, J. and Kennedy (2007): Terrace Regional Mapping Project Year 2: New Geological Insights and Exploration Targets (NTS 103I/16S, 10W), West Central British Columbia; in Geological Fieldwork 2006, B.C. Geological Fieldwork 2006, B.C. Geological Survey Paper 2007-1, PP149-162
- Gareau, S.A. et al (1997): Regional Geology of the Northeast Quadrant of the Terrace Map Area; GSC Current Research 1997-A. PP 47-55
- Nelson, J.L. et al (2007): Geology of the Terrace Map Area, British Columbia, NTS 103I/9, 10, 15, 16; BC Ministry of Energy, Mines and Petroleum Resources, Open File 2007-4
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**APPENDIX D.**  
**STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, JAMES M. DAWSON of the City of Vancouver, British Columbia, do hereby certify that:

1. I am a self employed geological consultant operating under the name Dawson Geological Consultants with a business office at Suite 1450 – 625 Howe Street, Vancouver, British Columbia.
2. I am a member of the Associated of Professional Engineers and Geoscientists of British Columbia, Registration Number 6948.
3. I am a graduate of the Memorial University of Newfoundland, B.Sc. (1960), M.Sc. (1963).
4. I have practiced my profession continuously for 45 years.
5. I have been engaged in all aspects of mineral exploration, including designing, implementing, managing and interpreting geochemical surveys for more than 40 years.
6. The exploration programs discussed in this report were carried out under my supervision by Mr. Ron Bilquist and Mr. Kevin Bilquist during August 3 – August 7, 2009 and by Hendex Exploration Services during October 2 – October 6, 2009. The writer spent one day examining the property on September 17, 2009.



James M. Dawson

November 30, 2009



LITTLE OLIVER PROPERTY

OMENICA MINING DIVISION, B.C.

NAD 83 UTM ZONE 9


SAMPLE LOCATION MAP

TECH WORK BY DAWSON GEOLOGICAL CONS. LTD.	SCALE: 1:5,000
DRAWN BY: JMD / KK	DATE: OCTOBER, 2009
APPROVED BY: J. M. DAWSON, P. Eng.	DRAWING No: 809 - 02 - 03A

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT  
21,303

Legend

- Sample Location and Number (Soils)
- LOS-006 ■ Sample Location and Number (Splits)
- OL-14 ▲ Sample Location and Number (Rocks)
- TR-01 ▲ Sample Location and Number (Rocks)
- A-5 ✕ Sample Location and Number (Rocks-Ana)




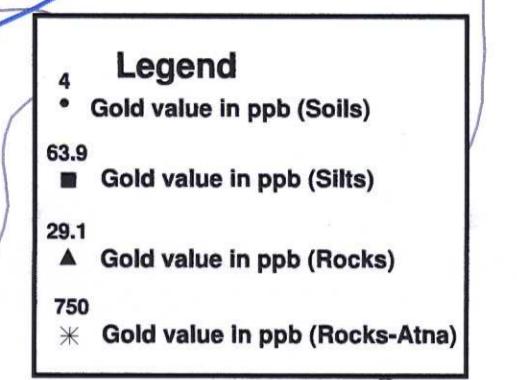
# LITTLE OLIVER PROPERTY

OMENICA MINING DIVISION, B.C.  
NAD 83 UTM ZONE 9

## Au Results Map

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APPROVED BY: J. M. DAWSON, P. Eng.	DRAWING No.: 809 - 02 - 03B

31,303



LITTLE OLIVER PROPERTY

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Cu Results Map

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APPROVED BY:	J. M. DAWSON, P. Eng.	DRAWING No.	809 - 02 - 03C

<b>Legend</b>
* <sup>24</sup> Copper value in ppm (Soils)
* <sup>55.1</sup> Copper value in ppm (Silts)
* <sup>146</sup> Copper value in ppm (Rocks)

